

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : BTR66.181.19.0007.11 CIR-32P-WH-27U-30K IES.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] BTR66.181.19.0007.11  
 [TESTLAB] BEST TEST SERVICE SHENZHEN CO.,LTD  
 [TESTDATE] 15 August 2019  
 [ISSUEDATE] 2019-09-10 09:05:53  
 [NEARFIELD]  
 [LAMPPOSITION] 0,0  
 [OTHER] EVERFINE GO-R5000\_V2 SYSTEM  
 [MANUFAC] BlackJack Lighting LLC  
 [LUMINAIRE] CIR-32P-WH-27U-30K  
 [LAMP] CIR-32P-WH-27U-30K

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4370
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	85.4881
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.60
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
<b>0</b>	708.72	708.72	708.72	708.72	708.72	708.72	708.72	708.72	708.72	708.72
<b>1</b>	708.66	708.66	708.63	708.78	708.60	708.57	708.63	708.54	708.57	708.92
<b>2</b>	708.43	708.49	708.40	708.49	708.34	708.26	708.40	708.11	708.25	708.79
<b>3</b>	708.08	708.10	708.05	708.11	708.05	707.90	707.96	707.69	707.81	708.50
<b>4</b>	707.54	707.57	707.51	707.57	707.37	707.31	707.36	707.16	707.07	708.07
<b>5</b>	706.78	706.70	706.70	706.73	706.58	706.49	706.55	706.23	706.22	707.46
<b>6</b>	705.78	705.74	705.81	705.81	705.66	705.60	705.60	705.22	705.18	706.64
<b>7</b>	704.61	704.70	704.67	704.81	704.43	704.35	704.37	704.05	704.10	705.68
<b>8</b>	703.43	703.46	703.40	703.49	703.25	703.22	703.05	702.78	702.72	704.54
<b>9</b>	701.94	701.95	702.02	702.20	701.91	701.76	701.67	701.38	701.11	703.24
<b>10</b>	700.28	700.38	700.46	700.61	700.37	700.23	699.99	699.85	699.51	701.73
<b>11</b>	698.52	698.64	698.72	698.96	698.72	698.54	698.35	698.17	697.86	700.13
<b>12</b>	696.46	696.74	696.90	697.05	696.84	696.64	696.53	696.23	695.89	698.27
<b>13</b>	694.45	694.61	694.89	695.01	694.86	694.65	694.55	694.22	693.91	696.57
<b>14</b>	691.95	692.32	692.62	692.78	692.62	692.60	692.43	691.96	691.76	694.60
<b>15</b>	689.06	689.66	689.89	690.39	690.24	690.14	689.92	689.56	689.32	692.43
<b>16</b>	685.69	686.43	687.03	687.42	687.37	687.39	687.36	687.00	686.68	690.10
<b>17</b>	682.47	683.18	683.77	684.22	684.25	684.43	684.42	684.31	683.86	687.70
<b>18</b>	679.19	679.84	680.39	680.94	681.04	681.17	681.43	681.25	681.03	684.98
<b>19</b>	675.91	676.69	677.20	677.70	677.89	678.18	678.57	678.53	678.40	682.11
<b>20</b>	673.37	673.99	674.44	674.86	675.02	675.40	676.00	675.99	675.75	679.37
<b>21</b>	670.74	671.43	671.80	672.26	672.42	672.89	673.43	673.54	673.24	676.61
<b>22</b>	668.26	668.95	669.50	669.90	670.05	670.52	670.99	671.02	670.58	673.81
<b>23</b>	665.84	666.57	667.20	667.56	667.81	668.30	668.55	668.37	667.99	671.00
<b>24</b>	663.58	664.30	665.03	665.35	665.59	665.95	666.28	666.01	665.35	668.23
<b>25</b>	661.29	662.15	662.72	663.24	663.49	663.85	663.90	663.46	662.87	665.59
<b>26</b>	658.93	659.84	660.49	661.05	661.20	661.52	661.62	661.06	660.21	662.88
<b>27</b>	656.66	657.62	658.31	658.90	659.06	659.36	659.30	658.58	657.58	660.13
<b>28</b>	654.27	655.41	656.07	656.77	656.90	657.14	657.01	656.16	655.03	657.40
<b>29</b>	652.15	653.14	653.78	654.57	654.72	654.82	654.64	653.71	652.35	654.61
<b>30</b>	649.85	650.85	651.54	652.32	652.53	652.63	652.24	651.26	649.78	652.09
<b>31</b>	647.46	648.57	649.33	650.17	650.35	650.33	649.90	648.78	647.36	649.46
<b>32</b>	645.20	646.30	647.07	647.85	648.08	648.05	647.57	646.37	644.85	646.85
<b>33</b>	642.73	643.84	644.85	645.55	645.76	645.61	645.10	643.80	642.31	644.37
<b>34</b>	640.26	641.51	642.44	643.19	643.29	643.08	642.62	641.24	639.66	641.81
<b>35</b>	637.72	639.00	639.93	640.62	640.89	640.71	640.07	638.52	637.12	639.21
<b>36</b>	635.27	636.60	637.66	638.27	638.46	638.26	637.55	636.11	634.69	636.64
<b>37</b>	632.71	634.09	635.22	635.77	635.92	635.74	634.92	633.52	632.10	634.16
<b>38</b>	630.18	631.58	632.68	633.26	633.45	633.19	632.41	630.93	629.45	631.48
<b>39</b>	627.56	629.01	630.19	630.75	630.87	630.67	629.84	628.25	626.86	628.93
<b>40</b>	624.96	626.36	627.40	628.09	628.28	627.98	627.05	625.52	624.15	626.34
<b>41</b>	622.25	623.77	624.93	625.47	625.62	625.26	624.44	622.91	621.47	623.66
<b>42</b>	619.75	621.13	622.29	622.75	622.96	622.55	621.63	620.20	618.88	620.93
<b>43</b>	616.96	618.53	619.67	620.19	620.18	619.81	618.89	617.45	616.09	618.25
<b>44</b>	614.40	615.95	616.97	617.45	617.43	617.00	616.10	614.77	613.32	615.62
<b>45</b>	611.68	613.20	614.25	614.79	614.68	614.14	613.25	612.07	610.56	612.75
<b>46</b>	608.98	610.40	611.41	612.01	611.81	611.17	610.45	609.12	607.74	610.06
<b>47</b>	606.15	607.75	608.66	609.14	608.95	608.38	607.52	606.30	604.96	607.23
<b>48</b>	603.53	604.97	605.78	606.26	606.04	605.40	604.58	603.37	602.12	604.59
<b>49</b>	600.79	602.12	602.94	603.42	603.11	602.32	601.50	600.39	599.12	601.67
<b>50</b>	597.89	599.23	599.92	600.49	600.20	599.36	598.43	597.30	596.07	598.89
<b>51</b>	595.07	596.33	597.06	597.51	597.23	596.30	595.33	594.30	592.99	595.93
<b>52</b>	591.94	593.16	593.95	594.37	594.02	593.08	592.05	590.95	589.92	593.00
<b>53</b>	588.97	590.22	590.89	591.39	590.91	589.89	589.01	587.77	586.66	590.04
<b>54</b>	585.99	587.35	587.93	588.30	587.84	586.67	585.71	584.41	583.36	586.95
<b>55</b>	582.92	584.26	584.90	585.23	584.65	583.45	582.34	581.05	580.05	583.86
<b>56</b>	579.85	581.08	581.86	582.10	581.51	580.22	578.99	577.77	576.58	580.62
<b>57</b>	576.64	577.91	578.76	579.00	578.35	576.94	575.62	574.47	573.24	577.32
<b>58</b>	573.58	574.76	575.64	575.95	575.28	573.72	572.50	571.19	569.87	573.97

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**CANDELA TABULATION - (Cont.)**

59	570.42	571.77	572.69	572.99	572.17	570.62	569.09	567.86	566.35	570.51
60	567.35	568.77	569.65	569.97	569.03	567.38	565.91	564.47	562.77	566.98
61	564.10	565.65	566.55	566.94	565.98	564.13	562.52	561.02	559.37	563.53
62	561.07	562.62	563.43	563.94	562.86	560.95	559.40	557.57	555.71	559.85
63	558.05	559.64	560.53	560.97	559.77	557.80	556.04	554.28	552.20	556.27
64	554.99	556.63	557.59	558.04	556.63	554.66	552.83	550.71	548.53	552.41
65	551.71	553.58	554.51	555.05	553.61	551.53	549.57	547.16	544.69	548.70
66	548.86	550.74	551.70	552.08	550.50	548.35	546.28	543.86	541.20	545.03
67	546.01	547.91	548.89	549.11	547.54	545.42	543.13	540.42	537.73	541.49
68	543.12	544.99	545.95	545.90	544.67	542.55	539.97	536.89	534.28	537.88
69	539.77	541.58	542.70	542.50	541.53	539.46	536.69	533.46	530.69	534.23
70	536.19	538.15	538.97	538.68	537.96	536.02	533.24	530.03	527.34	530.52
71	532.45	534.33	534.79	534.47	534.12	532.36	529.51	526.30	523.65	526.70
72	528.49	529.95	530.16	529.83	529.81	528.46	525.60	522.37	519.76	523.10
73	523.93	525.21	524.90	524.43	524.76	524.05	521.28	518.12	515.43	519.27
74	518.89	519.37	518.29	518.16	518.47	519.10	516.47	513.49	510.89	515.31
75	512.94	512.36	511.27	511.43	511.68	512.73	511.15	508.25	505.70	510.93
76	505.20	504.29	504.39	504.80	504.93	504.50	504.65	502.14	499.78	505.98
77	495.40	496.73	496.81	497.31	497.62	496.54	496.46	495.01	492.79	500.37
78	485.55	487.40	487.38	488.02	488.59	487.86	486.04	486.05	484.32	494.06
79	472.98	475.21	476.11	476.66	477.12	476.75	475.74	474.59	473.84	486.34
80	456.03	459.09	461.12	461.82	462.20	462.32	462.28	461.21	460.54	476.97
81	432.12	435.80	438.83	441.02	441.86	442.58	443.25	443.75	443.64	465.21
82	393.71	397.85	402.57	407.09	410.46	413.11	415.73	417.95	418.74	449.46
83	329.96	334.18	338.71	344.92	351.50	358.10	363.47	368.55	372.80	428.55
84	265.51	269.51	274.62	280.23	286.72	292.86	298.92	304.55	308.39	395.10
85	207.52	211.53	215.39	220.64	226.15	231.40	237.03	241.45	245.78	335.43
86	154.42	157.65	161.64	166.55	171.47	175.68	180.63	184.86	188.55	271.18
87	106.08	109.63	113.40	117.58	122.23	126.31	130.75	134.10	137.35	213.86
88	80.03	82.94	85.62	88.39	76.31	80.01	83.76	87.27	89.96	156.58
89	54.75	56.92	58.49	59.84	53.49	55.13	66.50	67.91	69.17	107.95
90	29.48	30.91	31.36	31.29	30.94	30.50	49.66	48.94	48.61	63.28
91	32.54	34.43	35.50	35.78	35.50	34.75	32.82	29.98	28.06	24.19
92	34.43	36.25	37.43	37.88	37.79	36.86	34.54	32.22	29.75	24.81
93	63.06	62.48	61.22	59.04	55.61	51.22	44.19	37.23	32.41	26.72
94	110.85	112.13	111.12	107.58	101.95	95.74	86.74	77.27	66.13	46.55
95	148.89	152.40	153.30	151.55	145.46	138.02	127.03	114.85	106.21	66.37
96	183.28	184.39	183.86	181.66	175.86	169.02	160.48	154.83	151.60	86.32
97	217.59	216.20	214.17	211.51	206.03	201.43	194.44	191.05	190.19	134.38
98	251.91	248.01	244.48	241.36	236.20	233.85	228.40	227.24	228.75	180.26
99	282.35	277.47	273.51	269.39	264.16	262.04	262.37	263.43	267.30	221.82
100	298.62	293.66	290.16	286.56	282.06	281.79	285.34	288.96	295.54	258.86
101	304.09	298.17	294.71	291.21	287.69	288.67	293.56	298.82	306.64	291.47
102	303.49	296.72	293.96	291.23	288.62	290.13	295.85	301.87	310.05	310.69
103	298.79	292.13	290.58	288.31	286.23	288.35	294.18	301.08	310.28	317.92
104	291.69	285.02	283.91	282.24	280.91	284.02	290.39	297.66	311.84	322.30
105	282.18	275.78	274.60	273.77	272.90	276.98	284.66	295.03	311.21	322.16
106	271.44	266.11	264.69	263.64	264.05	269.28	277.51	295.35	305.46	317.06
107	265.80	255.32	254.22	252.94	253.83	259.56	273.05	291.89	299.77	311.79
108	263.95	247.49	242.43	240.90	241.99	250.11	269.86	285.82	293.71	306.81
109	263.05	243.65	233.59	230.13	232.39	244.31	266.34	278.11	287.21	302.26
110	259.75	242.31	227.40	223.22	226.30	239.83	258.02	269.57	280.93	297.31
111	255.39	240.17	222.95	218.18	221.55	232.26	248.32	260.64	273.84	292.03
112	248.11	236.34	219.07	213.45	215.29	223.76	238.25	251.91	266.90	287.17
113	240.52	229.34	213.56	207.52	208.18	215.15	228.35	243.71	259.67	282.39
114	233.52	221.62	206.35	199.65	200.04	206.05	218.34	235.63	252.57	276.30
115	228.21	215.46	199.64	191.27	191.05	196.77	208.85	228.13	246.16	270.06
116	223.18	209.77	194.04	184.73	182.02	187.60	199.70	220.84	240.31	263.88
117	218.58	203.95	188.38	178.88	173.84	179.18	191.80	214.25	234.39	259.23
118	213.13	198.37	183.34	172.63	166.14	171.86	185.59	206.73	228.56	254.06
119	207.56	192.80	178.24	166.62	159.98	165.94	179.89	199.53	223.25	248.33

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**CANDELA TABULATION - (Cont.)**

120	202.54	187.02	173.18	161.07	155.25	161.03	174.32	193.00	218.00	242.65
121	198.83	182.32	168.32	155.84	152.17	156.78	169.86	186.69	213.06	236.54
122	195.78	179.38	164.57	151.51	150.30	152.82	165.57	181.23	208.99	230.16
123	192.19	177.70	161.69	148.36	148.40	149.91	161.43	177.31	204.58	224.13
124	188.49	175.67	160.07	147.90	146.57	148.49	157.84	175.14	201.36	219.22
125	185.25	174.50	159.99	149.75	146.20	147.70	155.79	173.77	197.09	216.04
126	183.04	174.13	164.02	154.42	147.55	148.54	155.70	173.83	193.06	213.24
127	181.71	174.16	169.63	163.07	156.51	153.87	159.48	174.81	190.14	211.22
128	180.70	175.07	176.00	175.93	172.25	164.85	165.03	177.21	188.01	209.16
129	180.32	177.77	183.96	189.18	186.78	177.82	170.99	178.12	186.62	207.12
130	180.86	181.85	193.47	199.26	197.81	187.98	176.90	176.83	184.67	204.92
131	182.17	186.00	200.04	205.68	204.96	194.55	180.80	174.85	180.63	201.90
132	182.37	190.00	202.09	206.59	205.65	195.83	181.09	173.03	175.78	195.34
133	181.90	192.21	201.22	203.54	199.02	193.25	179.38	167.66	171.66	188.79
134	180.86	191.18	198.06	197.99	191.75	188.23	177.27	166.75	166.60	182.12
135	178.75	187.01	191.37	190.27	187.16	183.95	175.34	166.85	160.92	171.85
136	175.92	181.97	184.83	184.40	182.24	180.29	174.73	167.14	155.87	160.60
137	172.26	177.62	179.33	180.06	177.91	176.28	173.11	166.54	154.07	150.88
138	169.61	172.51	174.54	176.01	174.50	172.88	169.89	165.24	155.54	144.03
139	165.69	167.54	170.08	171.77	170.71	168.57	166.11	164.96	157.47	135.91
140	161.87	164.22	166.12	167.22	164.98	163.39	161.75	161.36	157.59	131.32
141	157.15	159.34	160.72	162.03	159.96	158.89	157.66	157.17	157.30	131.97
142	151.89	153.63	155.73	156.52	155.01	154.27	153.29	152.95	154.61	134.21
143	146.55	148.82	150.92	151.76	150.30	149.78	149.52	149.48	151.43	136.24
144	142.40	144.86	146.62	147.43	146.30	145.69	145.62	145.72	147.57	141.29
145	138.83	140.75	142.48	143.09	141.81	141.26	141.17	141.21	142.87	141.82
146	134.80	136.42	138.09	138.52	137.02	136.24	136.29	136.60	137.93	141.03
147	130.09	131.48	133.20	133.36	131.90	131.24	131.11	131.42	132.42	138.44
148	124.78	126.05	127.97	128.29	126.85	126.07	126.01	126.50	127.12	133.20
149	119.63	120.76	122.95	123.38	122.01	121.29	121.46	121.80	121.91	127.18
150	114.57	115.65	117.88	118.54	117.50	116.92	117.05	117.27	116.95	121.33
151	109.28	110.35	112.59	113.54	112.66	112.28	112.41	112.42	111.89	116.17
152	103.73	104.92	107.12	108.27	107.66	107.37	107.42	107.17	106.70	111.07
153	97.39	98.69	101.10	102.54	102.16	102.10	102.15	101.60	101.48	105.62
154	91.36	92.48	94.88	96.10	95.92	95.97	95.96	95.43	95.75	100.25
155	86.13	86.68	89.30	90.36	90.30	90.25	90.06	89.63	90.08	95.29
156	80.91	81.82	83.38	84.48	84.58	84.69	84.73	84.33	83.70	90.50
157	75.68	76.98	77.46	78.60	78.86	79.13	79.41	79.04	77.31	85.64
158	69.14	70.04	71.53	72.72	73.14	73.57	74.09	73.75	73.50	80.74
159	65.14	65.68	66.95	67.83	67.51	67.49	66.93	65.73	65.86	75.85
160	53.94	54.44	56.96	57.83	56.80	56.44	55.94	55.85	55.90	68.50
161	39.96	40.88	41.85	42.28	42.36	41.51	41.77	42.42	42.25	58.53
162	30.00	30.69	31.33	32.42	33.42	33.72	34.38	34.49	34.18	44.71
163	24.87	25.62	26.58	28.07	29.57	30.17	30.64	30.70	30.69	36.25
164	22.08	22.82	23.78	25.31	26.82	27.44	27.81	27.82	27.64	30.77
165	19.55	20.24	21.16	22.54	24.07	24.65	24.78	25.01	24.91	27.32
166	15.84	16.40	17.50	18.84	20.52	21.02	20.89	21.22	21.95	24.69
167	12.58	13.16	14.29	15.90	17.37	17.76	17.46	18.36	18.45	21.32
168	10.65	11.36	12.70	14.10	15.33	15.71	15.51	16.12	16.19	18.32
169	9.33	9.85	11.14	12.26	13.26	13.85	13.73	14.01	14.10	15.34
170	8.68	9.22	9.86	10.70	11.57	12.19	12.19	12.12	12.20	14.00
171	8.04	8.59	9.47	9.11	9.62	10.15	10.29	9.99	9.71	12.52
172	7.89	7.97	9.10	9.00	10.14	9.43	9.42	9.32	9.35	10.13
173	8.33	8.25	8.74	8.91	10.69	10.37	10.23	9.86	9.37	9.47
174	10.54	10.79	10.98	11.02	11.24	11.38	11.11	10.44	10.42	8.96
175	9.85	10.21	10.39	10.51	10.46	10.27	9.64	9.08	8.70	10.58
176	8.40	8.64	8.69	8.85	8.80	8.58	8.17	7.88	7.51	9.26
177	7.53	7.63	7.79	7.81	7.78	7.61	7.45	7.25	7.04	7.78
178	6.94	6.96	7.10	7.14	7.14	7.04	6.90	6.68	6.61	7.37
179	6.36	6.29	6.41	6.47	6.51	6.47	6.35	6.12	6.18	6.86
180	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78

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**CANDELA TABULATION - (Cont.)**

Vert. Angles	Horizontal Angles									
	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	708.72	708.72	708.72	708.72	708.72	708.72	708.72	708.72	708.72	708.72
1	708.66	708.66	708.83	708.63	708.69	708.72	708.69	708.80	708.69	708.69
2	708.74	708.51	708.74	708.54	708.56	708.53	708.50	708.50	708.45	708.47
3	708.45	708.21	708.38	708.27	708.12	708.15	708.06	708.21	708.15	708.09
4	707.91	707.78	707.84	707.74	707.63	707.64	707.52	707.60	707.46	707.42
5	707.34	707.08	707.19	707.05	706.87	706.96	706.78	706.78	706.67	706.55
6	706.41	706.35	706.31	706.09	705.99	705.93	705.75	705.75	705.67	705.64
7	705.43	705.25	705.17	705.08	704.81	704.75	704.58	704.51	704.49	704.48
8	704.26	703.94	704.05	703.82	703.49	703.40	703.23	703.22	703.05	702.97
9	702.88	702.66	702.55	702.31	702.07	701.92	701.77	701.65	701.42	701.46
10	701.45	701.09	701.00	700.71	700.51	700.35	700.08	699.88	699.70	699.67
11	699.77	699.46	699.37	699.05	698.84	698.63	698.21	698.01	697.77	697.80
12	698.17	697.70	697.61	697.27	697.00	696.73	696.25	696.10	695.81	695.69
13	696.24	695.84	695.72	695.46	695.10	694.72	694.27	693.94	693.59	693.48
14	694.37	693.94	693.76	693.41	693.02	692.48	692.02	691.57	691.16	691.17
15	692.08	691.78	691.49	691.05	690.66	690.12	689.40	689.07	688.49	688.42
16	689.87	689.40	689.15	688.63	688.12	687.48	686.68	686.18	685.49	685.29
17	687.47	686.96	686.66	686.07	685.42	684.64	683.67	682.92	682.25	681.93
18	684.73	684.33	683.95	683.32	682.43	681.47	680.20	679.44	678.83	678.43
19	681.77	681.25	681.01	680.33	679.26	677.82	676.65	675.93	675.20	674.65
20	678.92	678.20	677.66	676.71	675.35	673.87	672.87	672.36	671.78	671.14
21	675.96	674.85	673.98	672.63	671.24	670.13	669.28	669.08	668.50	667.82
22	672.97	671.63	670.25	668.70	667.12	666.26	666.02	665.91	665.32	664.65
23	670.00	668.37	666.62	664.68	663.20	662.59	662.78	662.89	662.25	661.61
24	667.02	665.17	663.15	660.84	659.54	659.40	659.74	659.76	659.13	658.76
25	664.13	662.17	659.98	657.81	656.46	656.31	656.60	656.69	656.10	655.92
26	661.32	659.22	657.00	655.25	653.72	653.44	653.58	653.64	653.17	653.01
27	658.37	656.31	654.14	652.61	651.16	650.53	650.67	650.52	650.30	650.27
28	655.64	653.50	651.56	650.06	648.70	647.99	647.83	647.77	647.60	647.59
29	652.86	650.71	649.10	647.57	646.16	645.44	644.99	644.78	644.78	644.76
30	650.29	648.10	646.46	645.00	643.69	642.89	642.06	641.96	641.97	641.83
31	647.67	645.44	643.98	642.47	641.29	640.41	639.36	639.13	639.16	639.13
32	644.95	642.91	641.39	639.95	638.72	637.88	636.65	636.41	636.32	636.30
33	642.33	640.36	638.99	637.50	636.08	635.29	633.94	633.71	633.68	633.60
34	639.71	637.81	636.38	634.93	633.71	632.79	631.40	631.01	630.90	630.90
35	637.16	635.32	634.00	632.49	631.16	630.27	628.77	628.31	628.08	628.23
36	634.66	632.90	631.52	629.85	628.54	627.77	626.17	625.58	625.40	625.47
37	632.07	630.48	629.02	627.45	626.09	625.17	623.66	622.80	622.60	622.81
38	629.60	628.05	626.59	624.85	623.48	622.50	621.10	620.25	620.08	620.26
39	627.03	625.60	624.03	622.30	621.00	619.99	618.50	617.64	617.42	617.66
40	624.43	623.25	621.61	619.98	618.47	617.55	616.04	615.09	614.89	615.10
41	621.81	620.59	619.12	617.32	615.90	614.89	613.50	612.52	612.30	612.50
42	619.24	618.14	616.70	614.88	613.39	612.32	610.99	610.08	609.81	610.03
43	616.66	615.55	614.12	612.35	610.92	609.83	608.52	607.48	607.29	607.44
44	614.00	612.89	611.58	609.78	608.36	607.38	606.02	605.11	604.85	604.97
45	611.36	610.24	609.06	607.23	605.88	604.87	603.66	602.77	602.39	602.54
46	608.66	607.57	606.37	604.64	603.40	602.43	601.18	600.47	600.12	600.15
47	605.94	604.95	603.72	602.04	600.92	599.87	598.72	598.10	597.81	597.70
48	603.33	602.26	601.10	599.32	598.32	597.34	596.30	595.68	595.45	595.49
49	600.52	599.48	598.43	596.61	595.72	594.91	593.97	593.47	593.21	593.19
50	597.52	596.60	595.61	593.85	593.11	592.39	591.56	591.18	590.91	590.93
51	594.67	593.53	592.74	591.15	590.56	589.87	589.36	589.10	588.67	588.79
52	591.67	590.64	589.95	588.49	587.96	587.34	587.01	586.77	586.52	586.61
53	588.73	587.68	587.07	585.59	585.26	584.72	584.46	584.43	584.23	584.44
54	585.69	584.65	583.98	582.77	582.47	582.05	582.02	582.07	581.96	582.11
55	582.51	581.53	580.98	579.93	579.65	579.44	579.47	579.44	579.66	579.94
56	579.27	578.40	578.00	576.91	576.84	576.66	576.78	576.95	577.32	577.52
57	576.09	575.24	574.83	573.92	573.92	573.73	573.99	574.41	574.96	575.29

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**CANDELA TABULATION - (Cont.)**

58	572.86	572.13	571.76	570.90	570.92	570.89	571.39	571.66	572.48	572.89
59	569.52	568.84	568.55	567.75	567.81	567.92	568.60	568.99	569.92	570.46
60	566.32	565.57	565.19	564.57	564.60	564.76	565.59	566.21	567.20	567.79
61	562.84	562.15	561.85	561.32	561.29	561.60	562.56	563.23	564.42	564.99
62	559.26	558.82	558.69	558.05	558.01	558.38	559.57	560.15	561.32	561.98
63	555.69	555.35	555.22	554.69	554.60	555.18	556.48	557.13	558.26	558.96
64	552.23	551.81	551.79	551.32	551.17	551.81	553.20	553.94	554.96	555.62
65	548.57	548.27	548.24	547.74	547.62	548.47	549.95	550.65	551.47	552.11
66	544.79	544.67	544.58	544.28	544.02	545.05	546.52	547.35	548.10	548.45
67	541.12	541.02	541.03	540.44	540.35	541.69	543.13	543.87	544.27	544.52
68	537.46	537.45	537.43	536.75	536.58	538.12	539.59	540.38	540.66	540.51
69	533.76	533.67	533.53	532.82	532.84	534.45	536.07	536.65	536.80	536.71
70	529.89	529.86	529.84	528.87	528.96	530.57	532.31	532.96	533.00	532.79
71	525.90	525.93	525.69	524.65	525.04	526.72	528.34	529.11	529.08	528.64
72	521.82	521.75	521.29	520.11	520.76	522.44	524.09	525.09	524.96	524.24
73	517.98	517.62	516.78	515.49	516.48	517.92	519.63	520.88	520.59	519.62
74	513.89	513.36	512.21	510.79	511.75	513.14	514.98	516.21	515.95	514.78
75	509.37	508.72	507.17	505.59	506.66	507.92	510.11	511.47	511.16	509.65
76	504.51	503.55	501.75	499.92	500.95	502.35	504.57	506.09	505.65	503.68
77	498.96	497.76	495.61	493.72	494.58	496.07	498.52	499.95	499.45	496.25
78	492.78	491.04	488.58	486.75	487.58	489.08	491.54	492.88	491.75	487.60
79	485.11	482.85	480.32	478.56	479.35	480.66	483.08	484.02	481.97	480.06
80	476.00	473.21	470.33	468.86	469.30	470.88	472.98	472.89	472.25	470.83
81	463.67	461.09	458.30	456.67	457.02	458.14	459.84	460.36	460.41	459.40
82	448.13	445.76	442.59	441.14	441.40	442.06	443.69	444.86	444.94	444.21
83	426.08	423.92	421.65	420.49	420.13	420.81	422.56	423.24	423.26	422.86
84	394.66	393.16	391.04	389.69	388.91	389.59	390.50	390.37	389.93	388.71
85	338.05	338.18	336.31	335.36	334.03	333.13	332.91	331.35	329.93	328.43
86	273.33	273.68	271.71	269.90	268.36	268.34	267.74	267.40	266.12	264.28
87	218.60	218.67	213.59	211.75	210.44	210.53	210.22	209.47	208.35	206.59
88	163.87	163.65	155.49	153.63	152.52	152.73	152.72	151.78	150.60	149.14
89	109.48	108.92	105.70	104.10	102.57	102.93	102.33	101.49	100.58	99.08
90	64.31	63.35	60.12	58.35	56.54	56.65	56.55	55.70	54.16	52.51
91	23.94	23.23	20.21	18.42	17.58	17.54	16.17	14.17	11.45	11.29
92	22.56	18.68	13.74	10.75	10.25	11.30	11.82	12.26	11.99	11.85
93	24.21	19.67	14.50	11.65	11.40	12.68	13.65	14.66	15.24	15.43
94	43.86	21.54	16.08	13.05	13.09	14.40	15.35	16.30	37.66	38.93
95	63.52	50.89	45.94	47.61	46.24	46.78	47.91	47.70	60.08	62.42
96	84.20	80.80	76.30	82.17	79.40	79.17	80.47	79.28	82.92	86.25
97	133.69	129.55	123.61	116.78	112.64	111.60	113.07	117.20	123.20	128.20
98	180.42	176.81	170.09	162.73	158.02	155.44	154.75	154.89	156.94	160.44
99	222.71	219.88	213.13	205.91	200.21	196.25	194.49	193.35	192.37	192.98
100	259.77	258.19	250.88	243.94	238.65	233.74	230.74	228.33	226.58	225.73
101	292.68	292.89	284.84	278.48	273.07	268.69	264.99	261.26	258.41	256.33
102	314.17	314.98	307.75	301.14	296.46	292.00	288.53	285.09	280.32	276.36
103	324.04	322.66	317.13	311.86	306.71	301.12	297.37	293.68	287.84	283.12
104	325.99	325.21	319.79	315.87	312.63	304.74	299.91	296.50	289.68	282.16
105	323.87	324.09	318.96	316.24	313.66	307.37	298.52	295.28	287.42	279.49
106	320.34	321.33	317.09	314.85	312.16	306.65	297.16	290.06	281.75	274.85
107	316.47	318.34	314.37	312.27	309.52	303.77	297.26	282.95	274.94	268.13
108	313.29	315.55	311.70	310.06	306.40	300.16	293.93	281.56	267.64	261.44
109	309.25	312.62	308.69	307.68	302.10	295.64	291.19	282.94	262.89	255.61
110	304.81	308.68	304.11	303.84	296.73	291.06	287.40	282.65	265.19	251.97
111	300.16	303.92	301.76	300.10	291.62	285.68	282.52	278.37	268.36	252.82
112	295.49	299.46	298.11	294.91	285.10	279.08	275.28	272.01	266.67	255.15
113	291.26	296.49	293.62	288.63	278.60	271.72	268.22	265.97	262.67	254.97
114	285.82	292.86	288.26	281.55	271.62	264.24	261.50	260.10	257.47	252.00
115	280.46	287.38	282.88	274.74	264.42	256.17	254.25	254.04	251.87	247.99
116	275.48	281.61	276.35	267.64	257.45	247.90	246.78	247.43	245.64	243.62
117	268.42	275.05	270.43	260.40	250.99	240.63	239.35	240.32	239.25	238.82
118	262.43	268.79	263.76	253.33	244.71	233.87	232.32	232.86	233.03	233.92

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**CANDELA TABULATION - (Cont.)**

119	256.90	262.57	256.21	246.05	237.86	226.94	225.66	226.22	226.82	227.77
120	251.24	255.72	248.77	238.58	230.75	219.40	218.42	220.41	221.44	221.02
121	245.12	248.22	240.66	230.77	223.30	211.52	211.19	213.61	214.94	214.42
122	239.73	241.11	233.49	223.10	215.74	204.00	203.65	205.50	207.27	206.67
123	234.83	233.92	226.94	215.99	208.84	197.94	197.39	198.83	200.20	199.04
124	230.64	227.81	220.99	209.12	201.98	191.88	191.12	192.15	193.13	191.41
125	227.25	221.51	215.09	202.85	195.97	185.82	184.85	185.47	186.06	183.79
126	224.38	215.03	209.20	196.82	189.96	180.11	178.05	178.75	179.20	176.88
127	220.92	208.61	203.48	190.78	183.95	175.05	171.68	172.51	172.56	170.39
128	215.77	202.28	197.76	184.75	178.22	169.61	165.46	166.59	166.22	164.10
129	209.62	196.32	192.04	178.92	172.70	164.17	159.59	160.94	160.22	158.24
130	203.00	190.35	186.32	173.31	167.18	158.77	154.02	155.40	154.65	152.84
131	195.94	184.41	180.95	167.81	161.56	153.61	148.63	150.07	149.28	147.67
132	188.88	178.99	175.79	162.61	156.14	148.70	143.66	145.16	143.95	142.57
133	181.82	173.98	170.74	157.55	150.90	143.87	138.79	140.28	138.81	137.46
134	174.52	168.83	165.81	152.57	145.77	139.15	134.08	135.03	133.86	132.46
135	165.99	161.90	159.72	146.83	140.21	134.08	129.53	129.73	128.97	127.56
136	157.25	153.60	152.00	139.30	133.36	128.21	125.10	124.61	124.24	122.83
137	149.17	146.77	145.74	133.01	126.53	122.75	120.94	119.76	119.61	118.53
138	141.79	139.43	139.34	127.19	120.42	118.39	116.58	115.04	115.24	114.42
139	134.27	130.55	132.07	121.30	115.54	114.89	112.38	110.67	111.24	110.72
140	126.90	123.36	126.02	116.21	111.56	111.60	108.79	106.53	107.49	107.18
141	124.46	121.09	120.79	112.40	108.72	108.76	105.84	102.78	103.48	103.77
142	124.28	119.92	117.07	109.25	106.59	105.78	103.29	99.55	99.70	100.57
143	123.63	118.64	114.86	106.35	103.96	102.21	100.68	96.65	96.14	97.42
144	124.44	117.79	112.19	103.81	100.68	98.73	98.05	94.42	92.80	94.35
145	123.36	115.16	110.61	101.32	97.34	95.46	95.56	92.53	89.81	91.03
146	123.05	113.49	109.02	99.15	94.36	92.04	93.03	90.39	86.98	86.91
147	123.10	111.46	107.14	97.01	91.78	88.87	90.23	88.08	84.04	82.86
148	122.32	108.79	104.41	94.67	89.28	86.05	87.04	85.46	81.00	79.39
149	120.59	105.22	101.27	90.80	85.79	82.62	83.06	82.40	78.29	76.15
150	117.88	102.49	97.59	86.59	81.78	78.77	78.58	79.25	76.24	73.02
151	114.20	101.66	94.24	84.11	78.42	75.43	74.22	75.39	73.77	69.90
152	109.74	100.87	92.02	83.10	75.79	72.40	70.82	71.71	70.45	67.58
153	104.78	99.56	90.62	80.68	73.52	69.37	67.62	68.25	67.32	65.84
154	99.87	96.90	89.56	77.54	71.62	67.00	64.99	66.06	64.35	63.93
155	94.74	93.77	88.18	76.42	71.55	65.16	62.93	64.06	62.53	61.08
156	89.82	89.74	86.43	75.62	70.13	63.69	61.16	62.22	60.91	59.27
157	85.03	85.10	84.59	73.99	68.39	62.69	59.61	60.29	59.71	57.16
158	80.17	80.32	82.09	72.03	66.31	61.46	57.97	57.64	57.61	55.09
159	75.26	75.36	78.49	69.95	64.31	60.43	56.14	54.60	55.35	53.07
160	67.94	67.75	71.92	66.15	60.23	57.05	52.62	50.73	52.89	51.02
161	57.15	58.54	61.10	58.60	52.43	48.10	43.61	43.82	47.35	48.94
162	44.39	45.94	46.09	47.12	42.60	36.08	33.48	35.36	38.81	42.13
163	36.62	38.03	37.17	37.48	37.05	30.18	26.58	28.40	30.83	33.79
164	31.26	32.84	32.28	31.98	31.96	29.23	22.52	24.21	26.05	28.38
165	27.79	29.45	29.11	28.82	28.85	28.28	23.23	22.35	24.21	26.25
166	25.13	26.65	26.41	26.11	26.08	25.61	24.16	22.05	23.13	24.66
167	21.86	23.08	22.91	22.70	22.24	22.31	21.24	19.76	20.39	21.45
168	19.34	20.35	20.27	20.07	19.61	19.00	18.32	17.48	17.65	18.23
169	16.81	17.62	17.63	17.44	16.98	15.71	15.40	15.20	14.91	15.03
170	14.31	14.91	15.00	14.83	14.36	13.50	12.95	12.62	12.55	12.61
171	12.74	12.90	12.94	12.88	12.41	11.62	11.02	10.71	10.63	10.77
172	10.30	10.30	10.43	10.16	9.55	9.10	8.67	8.49	8.52	8.68
173	9.52	9.51	9.25	8.98	8.66	7.99	7.70	7.37	7.34	7.22
174	8.96	8.92	8.59	8.49	8.36	7.64	7.54	7.16	7.04	6.89
175	10.35	10.22	9.99	10.33	10.42	10.01	9.80	9.88	9.53	9.26
176	9.34	9.43	9.83	10.00	10.19	10.32	10.36	10.35	10.33	10.08
177	7.84	7.81	7.84	7.99	8.09	8.14	8.10	8.00	7.94	7.66
178	7.38	7.12	6.99	6.96	6.86	6.80	6.64	6.51	6.23	6.06
179	6.90	6.82	6.75	6.63	6.49	6.33	6.15	5.86	5.73	5.73

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : BTR66.181.19.0007.11 CIR-32P-WH-27U-30K IES.IES**

**CANDELA TABULATION - (Cont.)**

180	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78
Vert. Angles	Horizontal Angles									
	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	708.72	708.72	708.72	708.72	708.72	708.72	708.72	708.72	708.72	708.72
1	708.72	708.63	708.62	708.63	708.72	708.66	708.72	708.54	708.45	708.51
2	708.56	708.51	708.33	708.24	708.53	708.45	708.62	708.15	708.05	708.11
3	708.18	708.18	707.98	707.89	708.03	708.00	708.27	707.55	707.49	707.52
4	707.42	707.52	707.34	707.40	707.48	707.43	707.64	706.72	706.81	706.86
5	706.58	706.76	706.55	706.58	706.67	706.73	706.91	705.81	705.74	705.85
6	705.61	705.67	705.58	705.61	705.61	705.76	705.94	704.51	704.46	704.63
7	704.40	704.46	704.34	704.37	704.48	704.52	704.75	703.02	703.11	703.23
8	702.99	703.02	702.81	702.90	703.08	703.13	703.41	701.42	701.60	701.78
9	701.36	701.33	701.27	701.19	701.39	701.48	701.78	699.58	699.84	700.09
10	699.52	699.58	699.49	699.67	699.57	699.73	700.03	697.74	697.83	698.20
11	697.65	697.72	697.60	697.63	697.62	697.83	698.10	695.65	695.81	696.11
12	695.57	695.72	695.49	695.49	695.63	695.63	696.05	693.29	693.53	693.97
13	693.39	693.51	693.36	693.36	693.42	693.45	693.88	690.77	691.14	691.41
14	691.05	690.99	690.84	690.81	691.08	691.11	691.53	688.14	688.43	688.84
15	688.31	688.28	688.11	688.09	688.40	688.47	688.91	685.15	685.51	685.76
16	685.20	685.28	685.23	685.33	685.47	685.60	686.01	681.94	681.96	682.21
17	681.81	681.75	681.79	682.06	682.26	682.56	682.86	678.15	678.22	678.49
18	678.17	678.16	678.06	678.45	678.73	678.94	679.24	674.05	674.29	674.56
19	674.29	674.12	674.02	674.38	674.84	674.84	675.30	669.85	670.22	670.51
20	670.50	670.26	670.02	670.27	670.71	670.67	671.00	665.75	666.33	666.83
21	667.08	666.81	666.39	666.40	666.43	666.31	666.73	661.94	662.90	663.43
22	664.04	663.73	663.16	662.66	662.63	662.44	662.71	658.54	659.47	660.42
23	661.19	660.71	660.06	659.27	659.03	659.00	659.15	655.23	656.28	657.27
24	658.29	657.83	656.93	656.11	655.62	655.90	656.04	652.13	653.16	654.30
25	655.49	654.92	653.96	652.95	652.44	652.74	653.03	649.30	650.09	651.26
26	652.68	652.18	651.07	650.07	649.55	649.70	650.00	646.35	646.99	648.30
27	649.99	649.35	648.03	647.06	646.58	646.61	647.17	643.50	644.12	645.40
28	647.24	646.51	645.22	644.19	643.74	643.62	644.18	640.68	641.20	642.38
29	644.37	643.63	642.33	641.28	640.92	640.60	641.19	637.79	638.36	639.63
30	641.56	640.79	639.41	638.47	638.03	637.69	638.28	634.89	635.36	636.78
31	638.72	637.97	636.54	635.66	635.26	634.80	635.32	631.96	632.59	634.07
32	635.97	635.22	633.86	632.83	632.45	631.97	632.52	629.13	629.77	631.25
33	633.25	632.45	631.14	630.05	629.52	629.10	629.62	626.25	626.83	628.38
34	630.46	629.62	628.31	627.23	626.76	626.30	626.76	623.25	624.01	625.59
35	627.75	626.80	625.61	624.53	623.95	623.34	623.86	620.55	621.19	622.90
36	625.02	624.07	622.87	621.75	621.06	620.65	621.00	617.71	618.45	620.13
37	622.33	621.40	620.22	619.04	618.31	617.88	618.17	614.85	615.76	617.52
38	619.75	618.71	617.50	616.31	615.56	615.04	615.39	611.98	613.02	614.77
39	617.14	616.11	614.90	613.66	612.75	612.29	612.59	609.22	610.24	612.00
40	614.51	613.47	612.17	611.02	610.06	609.65	609.91	606.48	607.38	609.33
41	611.91	610.87	609.64	608.44	607.40	606.88	607.12	603.66	604.81	606.65
42	609.39	608.30	606.98	605.82	604.84	604.25	604.47	600.89	602.12	604.05
43	606.84	605.70	604.49	603.32	602.24	601.57	601.68	598.31	599.45	601.40
44	604.40	603.32	601.91	600.81	599.70	599.03	598.96	595.55	596.86	598.85
45	601.92	600.87	599.67	598.45	597.23	596.45	596.28	592.97	594.20	596.25
46	599.52	598.46	597.28	596.16	594.88	594.03	593.67	590.38	591.65	593.60
47	597.23	596.27	595.03	593.86	592.54	591.58	591.26	587.90	589.12	590.97
48	594.95	593.96	592.87	591.64	590.44	589.32	588.87	585.30	586.53	588.44
49	592.74	591.90	590.78	589.60	588.29	587.11	586.41	582.86	583.91	585.71
50	590.57	589.84	588.77	587.42	586.14	584.88	583.98	580.34	581.24	582.84
51	588.53	587.80	586.56	585.35	584.03	582.75	581.59	577.86	578.66	580.30
52	586.40	585.62	584.59	583.21	581.77	580.58	579.39	575.40	576.04	577.58
53	584.15	583.51	582.50	581.10	579.63	578.32	577.09	572.85	573.35	574.80
54	581.87	581.32	580.27	578.89	577.52	576.07	574.77	570.40	570.64	572.02
55	579.78	579.10	578.11	576.59	575.25	573.90	572.43	567.92	567.95	569.13

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : BTR66.181.19.0007.11 CIR-32P-WH-27U-30K IES.IES****CANDELA TABULATION - (Cont.)**

56	577.35	576.94	575.85	574.30	573.00	571.52	570.00	565.34	565.16	566.22
57	575.14	574.61	573.56	571.94	570.62	569.07	567.52	562.66	562.30	563.21
58	572.92	572.37	571.20	569.61	568.38	566.68	564.97	560.00	559.52	560.29
59	570.46	569.93	568.89	567.30	565.97	564.16	562.42	557.28	556.84	557.33
60	567.94	567.42	566.28	564.73	563.43	561.53	559.67	554.46	553.90	554.17
61	565.23	564.71	563.59	562.13	560.63	558.80	556.84	551.45	550.94	551.18
62	562.26	561.92	560.81	559.40	557.93	555.76	554.02	548.51	547.91	548.04
63	559.12	558.87	557.87	556.49	554.85	552.79	550.91	545.33	544.87	544.82
64	555.76	555.62	554.54	553.22	551.48	549.46	547.76	542.10	541.49	541.53
65	552.21	552.08	551.00	549.55	547.93	546.04	544.35	538.62	538.01	538.22
66	548.37	548.18	547.01	545.89	544.35	542.46	540.87	535.04	534.54	534.71
67	544.27	544.13	542.94	541.95	540.36	538.49	537.17	531.46	530.78	531.08
68	540.30	540.03	538.87	537.73	536.31	534.61	533.35	527.53	526.92	527.33
69	536.24	535.75	534.62	533.40	531.95	530.47	529.46	523.44	522.75	523.42
70	532.11	531.19	530.18	529.10	527.81	526.36	525.45	519.01	518.61	519.09
71	527.88	526.47	525.87	524.81	523.30	521.94	521.15	514.49	514.03	514.49
72	523.22	521.42	521.14	520.32	518.79	517.32	516.48	509.57	509.15	509.77
73	518.16	516.47	516.22	515.60	514.07	512.54	511.83	504.43	503.97	504.49
74	512.90	511.00	510.91	510.61	509.12	507.41	506.80	498.94	498.58	498.70
75	506.90	504.83	504.81	505.12	503.79	502.08	501.47	492.98	492.63	492.43
76	499.88	497.98	497.72	498.95	497.90	496.30	495.80	486.09	485.96	485.18
77	492.44	490.82	489.98	491.23	491.37	489.77	489.21	478.25	478.24	477.24
78	485.67	484.06	483.04	482.13	483.53	482.65	481.81	468.90	468.81	467.32
79	477.73	476.15	475.05	474.04	473.40	473.85	472.87	457.30	456.85	454.99
80	468.60	466.81	465.60	464.51	463.22	462.67	462.03	442.39	441.56	439.35
81	457.30	455.43	453.64	452.22	450.65	449.45	448.49	423.12	420.63	417.51
82	442.78	440.55	437.94	436.09	434.46	433.03	431.90	394.09	390.52	385.91
83	421.60	419.34	416.35	413.88	411.13	409.57	408.10	340.46	335.43	329.50
84	386.99	384.72	381.62	378.92	374.74	370.63	366.69	276.29	271.10	265.87
85	326.84	324.79	321.48	318.31	314.02	309.46	304.68	215.39	210.45	205.06
86	266.79	264.76	261.75	258.91	254.81	250.71	246.04	159.47	154.45	149.96
87	206.73	204.72	202.03	199.51	195.59	191.97	187.40	109.11	104.92	100.92
88	146.70	145.01	142.33	140.13	136.69	133.53	129.13	76.10	99.64	97.33
89	96.99	95.22	93.23	90.78	87.95	85.10	81.89	43.12	94.39	93.78
90	51.12	49.25	47.23	45.16	42.03	40.04	37.81	10.13	89.14	90.23
91	11.71	12.22	11.96	11.17	9.87	8.84	8.93	10.81	83.89	86.68
92	11.30	10.77	10.56	10.03	9.70	9.75	10.08	13.18	78.64	83.13
93	15.21	15.12	15.01	14.44	13.55	13.06	12.98	24.86	73.39	79.58
94	39.45	40.07	40.37	40.45	38.75	37.42	36.80	60.00	68.14	76.03
95	63.69	65.01	65.74	66.46	63.95	61.79	60.63	105.81	115.49	123.36
96	88.37	90.32	91.50	92.74	89.33	86.49	84.88	150.70	160.59	164.37
97	131.42	132.62	130.81	127.95	123.43	123.80	129.39	187.66	199.25	205.21
98	163.64	163.37	160.23	157.78	158.81	162.64	169.26	224.52	237.84	246.05
99	193.68	193.04	190.63	190.83	192.47	197.92	206.68	261.38	270.95	279.09
100	225.44	223.34	220.37	222.66	224.78	231.14	240.73	283.86	292.21	299.53
101	255.17	250.82	249.16	251.95	254.01	260.80	270.03	293.38	303.97	308.86
102	271.96	267.01	264.61	264.52	267.32	274.25	283.41	300.57	308.93	313.23
103	276.67	271.68	269.20	267.82	272.10	279.08	288.48	303.46	310.06	314.12
104	277.44	272.01	268.95	268.06	272.49	279.63	290.55	303.23	308.61	312.37
105	275.24	269.80	265.84	265.69	270.29	277.20	294.51	300.42	304.57	308.55
106	270.28	265.05	260.86	261.88	265.13	275.28	296.29	295.91	299.59	303.35
107	263.87	259.01	255.52	256.99	260.23	277.41	294.04	291.58	294.52	297.55
108	257.33	252.63	250.71	252.09	256.73	279.22	290.33	285.92	289.38	291.35
109	251.67	247.06	246.04	247.81	259.67	275.90	286.52	279.48	282.78	283.64
110	246.83	242.61	242.40	248.14	261.94	271.24	280.25	271.72	275.63	275.86
111	244.52	240.69	241.62	249.74	260.30	264.63	273.03	263.54	267.79	267.24
112	245.35	241.98	242.71	250.99	255.26	256.94	263.00	254.30	258.89	258.39
113	247.38	243.75	243.56	248.23	248.47	248.15	253.39	242.49	249.05	249.49
114	247.77	243.09	242.47	244.50	241.50	238.95	243.30	231.39	237.40	239.70
115	244.87	240.75	239.19	239.84	233.69	230.15	233.10	221.23	225.51	230.24
116	240.83	236.75	234.23	233.36	225.74	221.60	223.66	212.15	216.25	221.58

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : BTR66.181.19.0007.11 CIR-32P-WH-27U-30K IES.IES**

**CANDELA TABULATION - (Cont.)**

117	236.43	231.89	228.35	226.27	217.76	213.40	215.09	204.62	208.97	213.89
118	231.00	226.12	221.77	218.94	209.60	205.29	207.22	198.78	202.28	207.19
119	224.53	219.05	214.92	211.32	201.77	197.97	200.55	193.52	196.01	200.27
120	217.15	211.74	207.70	203.33	194.67	190.65	193.88	187.75	190.19	193.71
121	209.82	204.08	200.11	194.80	187.57	183.33	187.24	181.56	184.14	187.32
122	202.83	196.72	192.51	186.28	180.76	176.93	181.58	175.92	178.07	180.92
123	195.02	189.37	184.93	179.47	174.44	171.60	175.95	170.80	172.25	174.78
124	187.22	182.01	177.75	173.02	168.91	168.45	170.90	166.19	167.29	168.93
125	180.46	175.09	171.05	166.81	163.72	163.78	165.93	161.04	162.28	163.66
126	173.76	168.59	164.75	161.08	158.37	158.95	160.76	155.54	156.73	158.25
127	167.53	162.61	159.05	156.26	153.32	154.00	156.57	150.50	151.23	152.96
128	161.48	156.88	153.88	151.20	148.47	148.92	151.74	146.38	146.02	147.83
129	155.65	151.34	149.15	146.23	143.75	143.77	146.81	141.85	142.09	143.12
130	150.34	146.51	144.46	141.46	139.08	138.92	142.15	137.00	137.29	139.03
131	145.22	141.86	139.75	136.90	134.18	134.13	137.44	132.07	132.60	134.83
132	140.18	137.39	135.21	132.34	129.27	129.53	132.67	126.96	127.13	130.34
133	135.23	132.96	130.77	127.87	124.50	125.07	128.01	122.19	122.60	126.21
134	130.50	128.84	126.56	123.41	120.01	120.81	123.68	117.29	118.05	122.12
135	126.08	124.87	122.42	118.80	115.72	116.72	119.39	112.60	113.66	118.24
136	121.84	120.95	118.21	114.32	111.43	112.64	115.23	108.32	109.59	113.86
137	117.94	117.08	114.01	110.02	107.44	108.74	111.07	104.69	105.86	109.94
138	114.16	113.31	109.84	105.98	103.64	104.95	106.88	100.96	102.68	106.40
139	110.52	109.57	105.72	101.92	100.02	101.28	102.83	97.21	99.05	102.88
140	106.94	105.86	101.67	98.03	96.45	97.63	98.86	93.47	95.35	99.17
141	103.61	102.16	97.76	94.31	93.04	94.03	95.15	89.74	91.65	95.82
142	100.36	98.38	94.01	90.97	89.83	90.49	91.45	86.89	87.91	92.71
143	96.95	94.56	90.29	87.64	86.57	87.00	87.69	84.04	85.36	90.30
144	93.43	90.91	86.67	84.54	83.43	83.61	84.28	81.20	82.86	88.54
145	89.89	87.28	83.29	81.54	80.25	80.34	81.23	78.74	80.35	86.41
146	86.49	83.88	80.42	78.64	77.12	77.08	78.18	75.93	78.38	84.27
147	83.05	80.37	77.64	75.77	74.02	73.99	74.99	72.80	76.26	82.13
148	79.73	77.25	74.95	72.85	71.02	70.66	71.81	69.83	73.69	79.59
149	75.73	74.45	72.36	70.05	68.16	67.14	68.56	66.95	71.54	77.99
150	71.85	71.86	69.97	67.36	65.52	64.31	66.26	64.21	69.42	76.73
151	69.09	69.33	67.48	64.84	63.06	61.63	63.65	61.52	67.27	75.21
152	66.63	66.43	64.87	62.39	60.60	59.23	61.09	58.88	65.00	73.18
153	64.35	63.89	62.26	59.98	57.92	56.96	58.53	56.36	62.53	71.82
154	62.28	61.14	59.53	57.59	55.40	54.88	55.81	54.03	60.21	69.81
155	60.38	58.58	56.97	55.20	53.07	53.08	53.12	51.94	58.12	67.62
156	58.17	56.25	54.57	52.68	50.93	51.09	50.72	49.88	56.17	65.49
157	55.34	54.00	52.37	50.25	48.76	48.94	48.46	47.89	55.49	64.84
158	53.16	52.14	50.28	48.07	46.80	46.68	46.35	46.05	52.61	62.58
159	51.19	49.54	48.36	46.13	45.15	44.25	44.45	44.69	52.61	60.41
160	49.28	47.46	46.41	44.45	43.48	41.55	42.71	38.69	47.18	51.96
161	47.45	45.72	44.41	43.03	40.33	37.09	36.64	31.93	38.84	41.18
162	44.54	43.92	41.64	38.78	35.04	32.47	30.58	29.49	32.26	32.95
163	37.05	39.41	37.37	33.98	30.63	28.40	26.20	27.00	27.46	28.19
164	31.14	32.46	31.93	30.50	28.45	26.55	24.84	24.11	24.82	25.46
165	28.24	28.65	28.05	26.73	25.36	24.03	22.08	21.46	22.26	22.88
166	25.56	25.90	25.33	24.32	23.12	21.71	19.35	18.76	19.53	20.13
167	22.14	22.31	21.75	20.87	19.92	18.76	16.62	16.33	16.91	17.33
168	18.72	18.72	18.17	17.42	16.73	15.81	13.90	14.40	14.68	14.83
169	15.30	15.14	14.60	13.98	13.55	12.87	11.33	12.58	12.69	12.71
170	12.78	12.65	12.20	11.65	11.39	10.92	9.68	10.90	10.87	10.97
171	10.84	10.71	10.20	9.60	9.40	8.94	8.01	8.49	8.64	8.91
172	8.74	8.59	8.28	7.77	7.77	7.38	6.86	7.74	7.81	8.02
173	7.22	7.06	6.70	6.38	6.14	6.11	6.09	7.03	7.01	7.15
174	6.89	6.63	6.17	5.94	5.85	5.82	5.87	8.55	8.26	7.90
175	9.31	8.67	8.25	7.81	7.57	7.21	6.99	8.42	8.26	8.12
176	9.74	9.44	9.35	8.93	8.62	8.44	8.48	6.95	7.08	7.21
177	7.25	6.95	6.71	6.45	6.50	6.51	6.66	6.16	6.40	6.69

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : BTR66.181.19.0007.11 CIR-32P-WH-27U-30K IES.IES**

**CANDELA TABULATION - (Cont.)**

<b>178</b>	5.93	5.76	5.69	5.68	5.60	5.61	5.60	5.96	6.20	6.37
<b>179</b>	5.73	5.70	5.64	5.60	5.55	5.55	5.53	6.02	6.24	6.27
<b>180</b>	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78

**Vert. Horizontal Angles**

	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>	<b>350</b>	<b>360</b>
<b>0</b>	708.72	708.72	708.72	708.72	708.72	708.72	708.72
<b>1</b>	708.57	708.57	708.54	708.72	708.60	708.72	708.66
<b>2</b>	708.25	708.28	708.28	708.37	708.28	708.54	708.43
<b>3</b>	707.75	707.78	707.81	707.87	707.96	708.13	708.08
<b>4</b>	707.04	707.01	707.13	707.33	707.36	707.51	707.54
<b>5</b>	706.08	706.23	706.29	706.49	706.64	706.72	706.78
<b>6</b>	704.89	705.16	705.27	705.54	705.66	705.78	705.78
<b>7</b>	703.61	703.88	704.05	704.32	704.41	704.58	704.61
<b>8</b>	702.22	702.46	702.75	703.04	703.02	703.37	703.43
<b>9</b>	700.58	700.91	701.15	701.53	701.68	701.85	701.94
<b>10</b>	698.75	699.09	699.32	699.75	699.97	700.17	700.28
<b>11</b>	696.72	697.05	697.46	697.74	698.03	698.34	698.52
<b>12</b>	694.40	695.00	695.43	695.75	696.02	696.29	696.46
<b>13</b>	692.11	692.59	692.95	693.40	693.83	694.09	694.45
<b>14</b>	689.53	689.90	690.36	690.76	691.14	691.60	691.95
<b>15</b>	686.45	686.81	687.22	687.64	688.16	688.49	689.06
<b>16</b>	682.82	683.21	683.65	684.18	684.71	685.35	685.69
<b>17</b>	679.07	679.48	680.04	680.63	681.30	681.88	682.47
<b>18</b>	675.04	675.58	676.29	677.06	677.73	678.61	679.19
<b>19</b>	671.06	671.72	672.66	673.69	674.52	675.37	675.91
<b>20</b>	667.49	668.31	669.36	670.71	671.72	672.69	673.37
<b>21</b>	664.21	665.23	666.55	667.87	669.00	669.97	670.74
<b>22</b>	661.23	662.31	663.78	665.21	666.35	667.54	668.26
<b>23</b>	658.40	659.77	661.07	662.44	663.78	665.13	665.84
<b>24</b>	655.55	657.09	658.36	659.85	661.34	662.66	663.58
<b>25</b>	652.92	654.39	655.64	657.32	658.98	660.22	661.29
<b>26</b>	650.15	651.80	653.22	654.82	656.39	657.74	658.93
<b>27</b>	647.47	649.14	650.66	652.26	654.00	655.47	656.66
<b>28</b>	644.66	646.55	648.13	649.96	651.52	653.02	654.27
<b>29</b>	641.82	643.96	645.52	647.51	649.27	650.70	652.15
<b>30</b>	639.22	641.22	643.15	645.06	646.85	648.40	649.85
<b>31</b>	636.44	638.64	640.62	642.49	644.42	645.92	647.46
<b>32</b>	633.71	635.97	638.11	640.06	641.98	643.63	645.20
<b>33</b>	631.02	633.32	635.54	637.61	639.41	641.15	642.73
<b>34</b>	628.22	630.66	633.04	635.13	636.82	638.70	640.26
<b>35</b>	625.42	628.01	630.42	632.63	634.33	636.19	637.72
<b>36</b>	622.76	625.30	627.86	629.98	631.78	633.64	635.27
<b>37</b>	620.07	622.71	625.27	627.42	629.23	631.17	632.71
<b>38</b>	617.38	620.20	622.52	624.85	626.54	628.51	630.18
<b>39</b>	614.75	617.54	620.02	622.20	623.98	625.86	627.56
<b>40</b>	612.06	614.83	617.35	619.53	621.27	623.07	624.96
<b>41</b>	609.34	612.04	614.58	616.91	618.51	620.48	622.25
<b>42</b>	606.56	609.35	611.92	614.13	615.90	617.88	619.75
<b>43</b>	603.95	606.62	609.12	611.36	613.14	615.02	616.96
<b>44</b>	601.33	603.93	606.42	608.60	610.44	612.44	614.40
<b>45</b>	598.53	601.29	603.85	605.87	607.72	609.77	611.68
<b>46</b>	595.83	598.52	601.03	603.18	605.05	606.99	608.98
<b>47</b>	593.16	595.78	598.20	600.34	602.35	604.32	606.15
<b>48</b>	590.49	593.01	595.29	597.56	599.65	601.68	603.53
<b>49</b>	587.87	590.12	592.51	594.73	596.90	598.85	600.79
<b>50</b>	585.09	587.33	589.70	591.85	594.07	595.99	597.89
<b>51</b>	582.32	584.45	586.81	589.11	591.15	593.09	595.07
<b>52</b>	579.53	581.58	583.90	586.05	588.38	590.27	591.94
<b>53</b>	576.73	578.53	580.91	583.22	585.39	587.29	588.97

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : BTR66.181.19.0007.11 CIR-32P-WH-27U-30K IES.IES****CANDELA TABULATION - (Cont.)**

54	573.94	575.71	577.91	580.06	582.31	584.37	585.99
55	570.97	572.77	574.77	577.03	579.37	581.27	582.92
56	568.03	569.60	571.63	574.04	576.32	578.22	579.85
57	564.96	566.48	568.52	570.93	573.29	575.03	576.64
58	561.94	563.49	565.36	567.75	570.21	572.06	573.58
59	558.86	560.31	562.18	564.37	566.90	568.83	570.42
60	555.76	557.08	559.01	561.18	563.76	565.55	567.35
61	552.46	553.84	555.63	557.97	560.37	562.36	564.10
62	549.31	550.49	552.16	554.51	557.02	559.25	561.07
63	545.96	546.98	548.72	551.18	553.79	555.97	558.05
64	542.54	543.53	545.05	547.65	550.37	552.77	554.99
65	539.02	539.89	541.49	544.08	546.90	549.51	551.71
66	535.41	536.18	537.75	540.41	543.47	546.23	548.86
67	531.64	532.34	533.89	536.64	539.94	543.24	546.01
68	527.80	528.42	529.91	532.95	536.53	540.20	543.12
69	523.77	524.24	526.02	529.19	532.98	536.71	539.77
70	519.50	519.93	521.81	525.05	529.18	533.34	536.19
71	514.83	515.26	517.28	520.64	525.04	529.52	532.45
72	509.92	510.45	512.43	516.06	520.72	525.61	528.49
73	504.62	505.04	507.18	511.08	515.97	520.97	523.93
74	498.99	499.18	501.12	505.18	510.68	515.95	518.89
75	492.58	492.61	494.58	498.85	504.54	510.12	512.94
76	485.18	484.86	486.69	491.40	497.46	502.81	505.20
77	476.68	476.08	477.89	482.87	488.91	493.84	495.40
78	466.37	465.49	467.09	472.18	477.96	482.13	485.55
79	453.45	452.42	454.27	458.85	464.07	468.98	472.98
80	436.96	435.65	437.81	441.90	446.80	451.97	456.03
81	414.89	413.88	415.75	419.37	423.46	427.92	432.12
82	382.84	380.37	381.20	383.39	386.86	390.28	393.71
83	324.27	320.14	318.94	320.66	323.66	326.66	329.96
84	260.59	256.01	254.56	256.27	258.90	262.10	265.51
85	200.04	195.92	194.94	197.24	201.00	204.33	207.52
86	145.34	141.50	140.73	143.28	147.24	150.83	154.42
87	96.54	92.85	92.30	95.23	99.20	102.90	106.08
88	51.04	51.86	64.97	68.75	73.31	77.14	80.03
89	29.81	11.10	38.37	42.96	48.13	52.08	54.75
90	9.00	25.52	11.77	17.17	22.95	27.03	29.48
91	26.69	40.26	13.10	18.55	24.80	29.47	32.54
92	45.25	54.99	15.63	20.72	26.95	31.46	34.43
93	63.81	69.73	42.29	49.56	56.59	61.33	63.06
94	82.37	84.46	84.28	90.56	99.29	106.03	110.85
95	130.34	132.62	131.69	134.77	141.52	145.31	148.89
96	170.49	173.44	171.60	173.87	179.15	181.69	183.28
97	210.41	214.06	211.34	212.84	216.67	218.01	217.59
98	250.34	254.67	251.07	251.81	254.19	254.34	251.91
99	282.81	287.54	283.55	282.77	285.70	285.83	282.35
100	301.45	304.26	297.89	297.22	300.98	301.96	298.62
101	309.89	312.55	306.84	300.17	304.46	306.80	304.09
102	313.09	315.70	311.43	301.99	302.86	305.56	303.49
103	313.28	315.28	312.34	302.36	296.81	300.20	298.79
104	310.74	312.49	310.29	299.53	293.38	291.56	291.69
105	307.05	308.89	306.41	295.38	290.41	284.93	282.18
106	302.06	304.74	302.08	290.99	286.08	282.25	271.44
107	296.64	300.10	297.44	287.06	281.66	281.06	265.80
108	291.52	295.38	293.47	283.49	277.64	276.27	263.95
109	285.45	289.96	289.44	281.03	273.65	271.78	263.05
110	278.93	284.07	286.03	278.32	269.91	267.90	259.75
111	271.68	277.51	282.56	274.75	265.29	263.10	255.39
112	263.77	270.17	278.88	270.50	260.98	257.19	248.11
113	255.33	261.89	272.32	265.32	256.68	251.06	240.52
114	245.34	252.80	264.43	259.83	252.35	245.09	233.52

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BTR66.181.19.0007.11 CIR-32P-WH-27U-30K IES.IES

CANDELA TABULATION - (Cont.)

115	236.54	243.90	256.28	254.31	248.69	239.81	228.21
116	227.95	235.76	248.51	248.92	245.13	235.03	223.18
117	220.78	227.81	240.90	244.26	242.79	230.75	218.58
118	214.36	221.16	233.74	240.63	238.76	227.36	213.13
119	208.44	214.66	226.78	236.10	234.07	225.65	207.56
120	202.39	208.28	220.01	231.15	228.57	222.72	202.54
121	196.29	201.79	213.12	225.26	222.98	218.61	198.83
122	190.68	195.77	206.59	218.62	217.31	214.46	195.78
123	185.09	190.06	200.66	212.16	211.26	210.25	192.19
124	180.24	184.93	195.35	206.07	205.19	205.66	188.49
125	175.74	180.44	190.56	200.56	199.74	200.07	185.25
126	171.01	176.27	186.03	195.51	196.48	195.09	183.04
127	165.71	171.78	181.35	190.11	193.93	191.31	181.71
128	160.65	167.44	176.42	184.77	190.84	188.42	180.70
129	155.76	163.37	171.54	179.62	186.76	186.19	180.32
130	151.31	159.42	166.81	174.67	182.46	184.04	180.86
131	147.02	155.60	162.26	169.97	178.26	181.22	182.17
132	142.42	151.43	157.72	165.22	174.23	177.37	182.37
133	137.27	145.88	152.67	160.25	169.91	172.87	181.90
134	132.90	140.58	148.05	155.23	164.70	167.52	180.86
135	128.54	134.78	142.39	149.97	159.17	163.81	178.75
136	124.21	128.80	136.92	145.05	154.85	162.61	175.92
137	120.13	123.42	132.60	140.72	150.28	161.88	172.26
138	116.79	118.97	128.68	136.92	145.83	159.96	169.61
139	113.31	115.09	124.90	133.86	143.17	159.32	165.69
140	110.05	111.24	121.31	131.24	143.23	158.36	161.87
141	107.32	108.31	117.91	127.60	143.61	155.49	157.15
142	104.62	105.00	114.37	126.72	143.21	150.83	151.89
143	101.95	101.75	111.61	126.26	141.74	145.47	146.55
144	100.17	99.88	110.81	126.93	137.90	140.82	142.40
145	98.29	98.54	110.55	127.11	133.50	136.90	138.83
146	96.23	98.04	110.34	125.80	129.40	133.24	134.80
147	93.53	98.26	111.39	123.43	125.60	129.19	130.09
148	91.85	98.53	112.15	119.79	121.45	124.19	124.78
149	90.88	98.39	111.55	115.47	116.72	119.26	119.63
150	90.21	97.23	108.99	110.67	111.76	114.11	114.57
151	88.35	95.48	104.45	105.32	106.56	108.83	109.28
152	86.32	93.37	98.76	99.59	100.78	103.09	103.73
153	84.29	90.46	93.15	93.68	94.73	96.83	97.39
154	82.26	86.02	87.89	88.28	89.11	91.01	91.36
155	80.85	81.55	82.90	83.31	84.12	85.79	86.13
156	78.31	77.09	77.91	78.33	79.13	80.57	80.91
157	74.14	72.27	72.91	73.35	74.14	75.35	75.68
158	68.13	65.81	66.25	66.95	67.18	68.47	69.14
159	64.12	62.08	62.73	63.02	62.89	64.47	65.14
160	54.93	53.52	54.01	54.17	53.48	54.11	53.94
161	42.76	44.33	42.42	41.74	40.94	40.40	39.96
162	34.77	35.69	33.98	32.52	31.28	30.06	30.00
163	29.66	30.06	28.63	26.70	25.54	24.79	24.87
164	26.81	27.20	26.00	24.07	23.01	22.19	22.08
165	24.19	24.51	23.55	21.64	20.62	19.77	19.55
166	21.27	21.40	20.58	18.46	17.41	16.51	15.84
167	18.08	18.16	17.38	15.29	14.43	13.39	12.58
168	15.31	15.41	14.61	12.90	12.23	11.14	10.65
169	13.05	13.29	12.78	11.37	10.68	9.58	9.33
170	11.21	11.49	11.20	10.25	9.34	8.99	8.68
171	9.09	9.33	9.55	9.27	8.61	8.40	8.04
172	8.23	8.46	8.73	8.61	7.90	7.81	7.89
173	7.38	7.62	7.93	7.95	8.02	8.20	8.33
174	7.73	7.99	8.40	8.76	9.36	10.01	10.54
175	8.00	7.84	7.93	8.42	9.07	9.57	9.85

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : BTR66.181.19.0007.11 CIR-32P-WH-27U-30K IES.IES**

**CANDELA TABULATION - (Cont.)**

<b>176</b>	7.24	7.26	7.35	7.56	7.92	8.28	8.40
<b>177</b>	6.90	7.01	7.09	7.26	7.38	7.49	7.53
<b>178</b>	6.52	6.70	6.79	6.85	6.92	6.90	6.94
<b>179</b>	6.14	6.39	6.48	6.45	6.46	6.32	6.36
<b>180</b>	5.78	5.78	5.78	5.78	5.78	5.78	5.78

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : BTR66.181.19.0007.11 CIR-32P-WH-27U-30K IES.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	261.82	N.A.	6.00
0-30	566.02	N.A.	13.00
0-40	962.41	N.A.	22.00
0-60	1949.68	N.A.	44.60
0-80	3023.83	N.A.	69.20
0-90	3313.1	N.A.	75.80
10-90	3245.87	N.A.	74.30
20-40	700.59	N.A.	16.00
20-50	1169.12	N.A.	26.80
40-70	1530.51	N.A.	35.00
60-80	1074.16	N.A.	24.60
70-80	530.92	N.A.	12.10
80-90	289.27	N.A.	6.60
90-110	425.28	N.A.	9.70
90-120	663.95	N.A.	15.20
90-130	828.92	N.A.	19.00
90-150	1012.44	N.A.	23.20
90-180	1056.75	N.A.	24.20
110-180	631.47	N.A.	14.50
0-180	4369.85	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	67.24
10-20	194.59
20-30	304.20
30-40	396.39
40-50	468.53
50-60	518.74
60-70	543.24
70-80	530.92
80-90	289.27
90-100	122.89
100-110	302.39
110-120	238.67
120-130	164.97
130-140	114.17
140-150	69.35
150-160	35.29
160-170	8.15
170-180	0.86

**IES INDOOR REPORT**

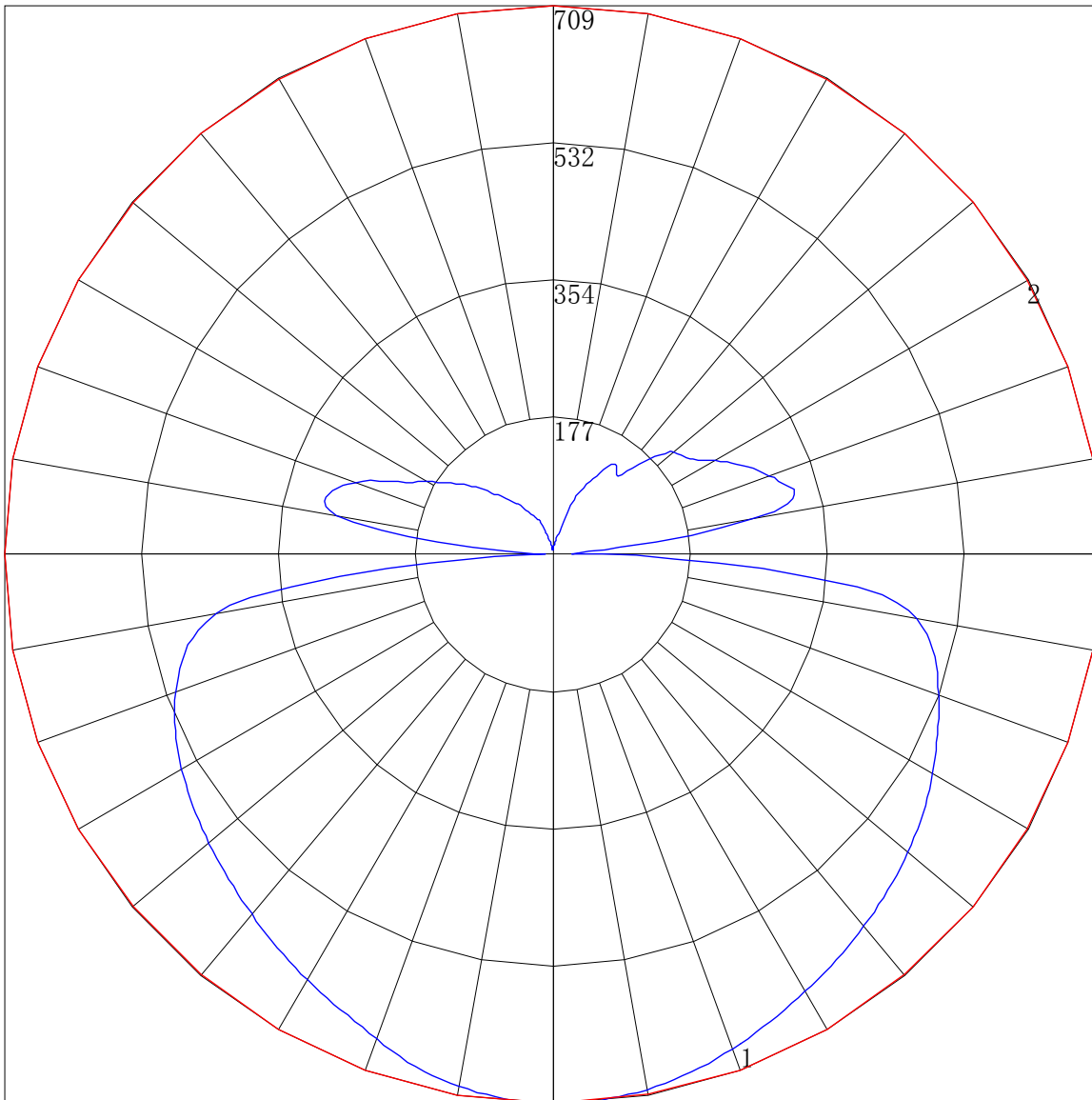
**PHOTOMETRIC FILENAME : BTR66.181.19.0007.11 CIR-32P-WH-27U-30K IES.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	76
1	100	94	88	83	94	89	84	79	80	76	73	72	69	66	65	62	60	56
2	89	79	71	64	84	75	68	61	67	62	56	60	56	51	54	50	47	43
3	80	68	59	51	75	64	56	49	58	51	45	52	46	41	46	42	38	34
4	73	59	50	42	68	56	47	40	51	43	37	45	39	34	40	35	31	28
5	66	52	43	35	62	50	41	34	45	37	31	40	34	29	36	31	26	23
6	61	47	37	30	57	44	36	29	40	33	27	36	30	25	32	27	23	20
7	56	42	33	26	53	40	31	25	36	29	23	33	26	22	29	24	20	17
8	52	38	29	23	49	36	28	22	33	26	21	30	24	19	27	21	18	15
9	48	35	26	20	46	33	25	20	30	23	18	27	21	17	25	19	16	14
10	45	32	24	18	43	30	23	18	28	21	16	25	19	15	23	18	14	12

POLAR GRAPH



Maximum Candela = 708.92 Located At Horizontal Angle = 90, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)