



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL736LEDXSPHTLOWBDWT40120-277V\_P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 3586  
 [TESTLAB] TUV SUD America  
 [ISSUEDATE] 11/27/2018 4:46:53 PM  
 [MANUFAC] BEGHELLI  
 [LUMCAT] BL736LEDXSP  
 [LUMINAIRE] 3543-01  
 [\_AMBIENT] 24.6 deg C  
 [\_POWERFACTOR] 0.9948  
 [\_ATHD] 7.34%  
 [\_CURRENT] 1.97  
 [\_VOLTAGE] 120.23  
 [\_STABILIZATION] 65:00.1 Stable  
 [\_POWER VARIATION] 0.28 %  
 [\_LIGHT VARIATION] 0.50 %  
 [\_Lumens] 30876.3

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20221
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	150
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.38 ft
Luminous Width (90-270)	1.38 ft
Luminous Height	0.42 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18482	28672	15528
55	5536	7865	2801
65	1431	1765	940
75	653	532	499
85	150	103	115

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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>
0	13076.3841	3076.3841	3076.3841	3076.3841	3076.3841	3076.3841	3076.3841	3076.3841	3076.3841	3076.384
5	13126.9391	3146.8891	3136.1671	3102.5161	3038.8301	2978.8711	2917.7311	2880.0531	2857.6551	2844.464
10	13204.9331	3216.9881	3159.2811	3066.4001	2948.4411	2813.4151	2670.3481	2535.8561	2442.2751	2402.148
15	13148.1551	3158.3941	3095.9081	3007.0361	2859.6731	2680.5941	2504.4011	2366.2801	2237.1871	2176.151
20	12522.0661	2519.8061	2553.2591	2637.0131	2744.3401	2841.4541	2833.8211	2748.7011	2627.5111	2542.458
25	11227.4661	1179.5361	1188.8551	1179.7321	1244.6151	1299.3671	1311.8281	1289.9901	1265.3891	1252.678
30	9215.351	9219.962	9603.501	10482.3871	11607.5781	12326.8701	12394.8271	11883.0601	11349.5711	11116.921
35	6981.177	7016.335	7561.283	8763.449	10028.5261	10628.6001	10133.3139	185.607	8490.698	8243.831
40	5062.350	5181.150	5792.045	6774.855	7732.036	7778.745	7183.842	6201.378	5527.443	5300.669
45	3018.734	3174.736	3851.420	4788.580	5222.988	5048.376	4354.602	3375.285	2737.520	2536.285
50	1581.768	1694.796	2137.824	2682.531	2897.746	2633.536	2004.246	1457.581	1131.936	1041.966
55	806.788	873.786	1115.690	1351.775	1390.720	1189.152	873.642	595.098	447.096	408.197
60	362.141	400.446	535.982	638.849	625.672	515.844	350.119	234.571	190.219	180.339
65	177.041	190.976	238.130	281.894	284.956	223.189	151.888	125.552	117.984	116.293
70	103.990	104.963	119.643	131.129	134.316	107.895	88.625	82.128	79.117	78.340
75	63.935	62.806	65.404	68.356	67.925	59.201	54.055	51.280	49.517	48.871
80	33.120	32.467	33.061	33.016	32.356	29.842	27.948	26.649	25.820	25.500
85	10.376	10.141	10.213	10.135	9.756	9.129	8.698	8.182	7.954	7.940
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	13076.3841	3076.3841	3076.3841	3076.3841	3076.3841	3076.3841	3076.3841	3076.3841	3076.3841	3076.384
5	12857.6551	2880.0531	2917.7311	2978.8711	13038.8301	3102.5161	3136.1671	3146.8891	3126.9391	3146.889
10	12442.2751	2535.8561	2670.3481	2813.4151	2948.4411	3066.4001	3159.2811	3216.9881	3204.9331	3216.988
15	12237.1871	2366.2801	2504.4011	2680.5941	2859.6731	3007.0361	3095.9081	3158.3941	3148.1551	3158.394
20	12627.5111	2748.7011	2833.8211	2841.4541	2744.3401	2637.0131	2553.2591	2519.8061	2522.0661	2519.806
25	12655.3891	2891.9901	3111.8281	2994.3671	2449.6151	1179.7321	11388.8551	1179.5361	11227.4661	1179.536
30	11349.5711	11883.0601	12394.8271	12326.8701	11607.5781	10482.3871	9603.501	9219.962	9215.351	9219.962
35	8490.698	9185.607	10133.3131	10628.6001	10028.5261	8763.449	7561.283	7016.335	6981.177	7016.335
40	5527.443	6201.378	7183.842	7778.745	7732.036	6774.855	5792.045	5181.150	5062.350	5181.150
45	2737.520	3375.285	4354.602	5048.376	5222.988	4788.580	3851.420	3174.736	3018.734	3174.736
50	1131.936	1457.581	2004.246	2633.536	2897.746	2682.531	2137.824	1694.796	1581.768	1694.796
55	447.096	595.098	873.642	1189.152	1390.720	1351.775	1115.690	873.786	806.788	873.786
60	190.219	234.571	350.119	515.844	625.672	638.849	535.982	400.446	362.141	400.446

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**CANDELA TABULATION - (Cont.)**

65	117.984	125.552	151.888	223.189	284.956	281.894	238.130	190.976	177.041	190.976
70	79.117	82.128	88.625	107.895	134.316	131.129	119.643	104.963	103.990	104.963
75	49.517	51.280	54.055	59.201	67.925	68.356	65.404	62.806	63.935	62.806
80	25.820	26.649	27.948	29.842	32.356	33.016	33.061	32.467	33.120	32.467
85	7.954	8.182	8.698	9.129	9.756	10.135	10.213	10.141	10.376	10.141
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	13076.3841	13076.3841	13076.3841	13076.3841	13076.3841	13076.3841	13076.3841	13076.3841	13076.3841	13076.3841
5	13136.1671	13102.5161	13038.8301	12978.8711	12917.7311	12880.0531	12857.6551	12844.4641	12857.6551	12880.0531
10	13159.2811	13066.4001	12948.4411	12813.4151	12670.3481	12535.8561	12442.2751	12402.1481	12442.2751	12535.8561
15	13095.9081	13007.0361	12859.6731	12680.5941	12504.4011	12366.2801	12237.1871	12176.1511	12237.1871	12366.2801
20	12553.2591	12637.0131	12744.3401	12841.4541	12833.8211	12748.7011	12627.5111	12542.4581	12627.5111	12748.7011
25	11388.8551	11796.7321	12449.6151	12994.3671	13111.8281	12891.9901	12655.3891	12529.6781	12655.3891	12891.9901
30	9603.501	10482.3871	11607.5781	12326.8701	12394.8271	11883.0601	11349.5711	11116.921	11349.5711	11883.0601
35	7561.283	8763.449	10028.5261	10628.6001	10133.3139	185.607	8490.698	8243.831	8490.698	9185.607
40	5792.045	6774.855	7732.036	7778.745	7183.842	6201.378	5527.443	5300.669	5527.443	6201.378
45	3851.420	4788.580	5222.988	5048.376	4354.602	3375.285	2737.520	2536.285	2737.520	3375.285
50	2137.824	2682.531	2897.746	2633.536	2004.246	1457.581	1131.936	1041.966	1131.936	1457.581
55	1115.690	1351.775	1390.720	1189.152	873.642	595.098	447.096	408.197	447.096	595.098
60	535.982	638.849	625.672	515.844	350.119	234.571	190.219	180.339	190.219	234.571
65	238.130	281.894	284.956	223.189	151.888	125.552	117.984	116.293	117.984	125.552
70	119.643	131.129	134.316	107.895	88.625	82.128	79.117	78.340	79.117	82.128
75	65.404	68.356	67.925	59.201	54.055	51.280	49.517	48.871	49.517	51.280
80	33.061	33.016	32.356	29.842	27.948	26.649	25.820	25.500	25.820	26.649
85	10.213	10.135	9.756	9.129	8.698	8.182	7.954	7.940	7.954	8.182
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.  
Angles**

**Horizontal Angles**

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	13076.384	13076.384	13076.384	13076.384	13076.384	13076.384	13076.384
5	12917.731	12978.871	13038.830	13102.516	13136.167	13146.889	13126.939
10	12670.348	12813.415	12948.441	13066.400	13159.281	13216.988	13204.933
15	12504.401	12680.594	12859.673	13007.036	13095.908	13158.394	13148.155
20	12833.821	12841.454	12744.340	12637.013	12553.259	12519.806	12522.066
25	13111.828	12994.367	12449.615	11796.732	11388.855	11179.536	11227.466
30	12394.827	12326.870	11607.578	10482.387	9603.501	9219.962	9215.351
35	10133.313	10628.600	10028.526	8763.449	7561.283	7016.335	6981.177
40	7183.842	7778.745	7732.036	6774.855	5792.045	5181.150	5062.350
45	4354.602	5048.376	5222.988	4788.580	3851.420	3174.736	3018.734
50	2004.246	2633.536	2897.746	2682.531	2137.824	1694.796	1581.768
55	873.642	1189.152	1390.720	1351.775	1115.690	873.786	806.788
60	350.119	515.844	625.672	638.849	535.982	400.446	362.141
65	151.888	223.189	284.956	281.894	238.130	190.976	177.041
70	88.625	107.895	134.316	131.129	119.643	104.963	103.990
75	54.055	59.201	67.925	68.356	65.404	62.806	63.935
80	27.948	29.842	32.356	33.016	33.061	32.467	33.120
85	8.698	9.129	9.756	10.135	10.213	10.141	10.376
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4847.58	N.A.	24.00
0-30	10406.6	N.A.	51.50
0-40	15861.96	N.A.	78.40
0-60	19916.29	N.A.	98.50
0-80	20208.23	N.A.	99.90
0-90	20221.45	N.A.	100.00
10-90	18984.71	N.A.	93.90
20-40	11014.38	N.A.	54.50
20-50	14117.47	N.A.	69.80
40-70	4279.52	N.A.	21.20
60-80	291.94	N.A.	1.40
70-80	66.75	N.A.	0.30
80-90	13.22	N.A.	0.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	20221.45	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1236.73
10-20	3610.85
20-30	5559.02
30-40	5455.36
40-50	3103.09
50-60	951.24
60-70	225.18
70-80	66.75
80-90	13.22
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

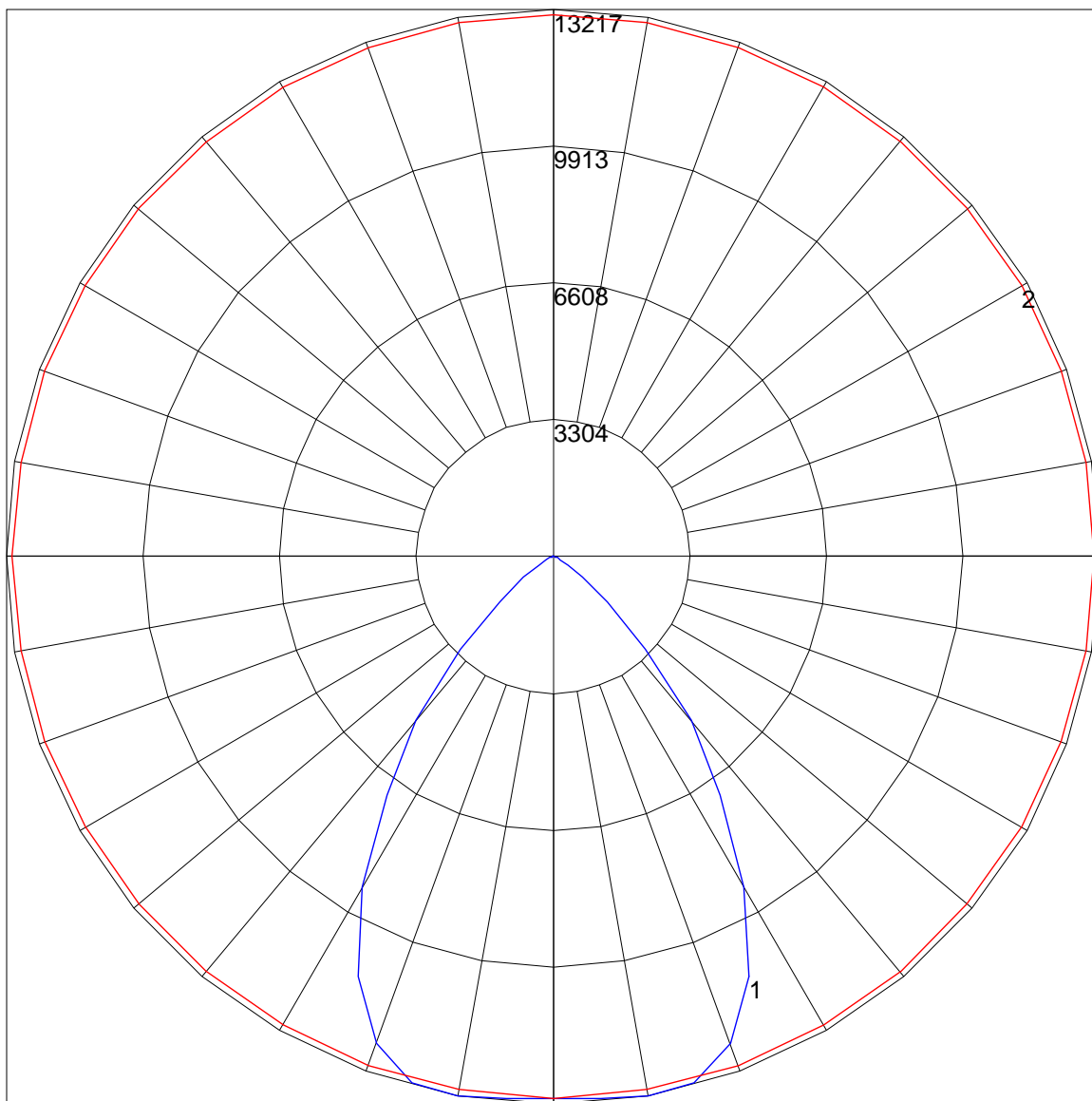
IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : BL736LEDXSPHTLOWBDWT40120-277V\_P.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68
5	87	78	71	66	85	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	54	62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

POLAR GRAPH



Maximum Candela = 13216.988 Located At Horizontal Angle = 10, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)