



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL736LEDXSPHTHOWBDWT40120-277V.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	30967
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	236.16
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	28303	43908	23780
55	8478	12044	4290
65	2192	2703	1440
75	1000	815	764
85	230	158	176

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PHOTOMETRIC FILENAME : BL736LEDXSPHTHOWBDWT40120-277V.IES

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	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090
5	20102.510	20133.061	20116.641	20065.109	19967.580	19875.760	19782.131	19724.430	19690.131	19669.930
10	20221.949	20240.410	20152.039	20009.801	19829.160	19622.381	19403.289	19197.330	19054.020	18992.570
15	20135.000	20150.680	20054.990	19918.891	19693.221	19418.980	19149.160	18937.641	18739.949	18646.480
20	19176.211	19172.750	19223.980	19352.240	19516.600	19665.320	19653.631	19523.279	19337.689	19207.439
25	17193.670	17120.270	17440.820	18065.439	19065.260	19899.490	20079.369	19742.711	19380.381	19187.869
30	14112.330	14119.390	14706.740	16052.660	17775.770	18877.289	18981.359	18197.641	17380.660	17024.381
35	10690.930	10744.770	11579.300	13420.290	15357.620	16276.570	15518.090	14066.780	13002.600	12624.550
40	7752.450	7934.380	8869.900	10374.970	11840.790	11912.320	11001.290	9496.750	8464.690	8117.410
45	4622.870	4861.770	5898.040	7333.200	7998.450	7731.050	6668.610	5168.890	4192.220	3884.050
50	2422.310	2595.400	3273.850	4108.010	4437.590	4032.980	3069.290	2232.130	1733.440	1595.660
55	1235.510	1338.110	1708.560	2070.100	2129.740	1821.060	1337.890	911.330	684.680	625.110
60	554.580	613.240	820.800	978.330	958.150	789.960	536.170	359.220	291.300	276.170
65	271.120	292.460	364.670	431.690	436.380	341.790	232.600	192.270	180.680	178.090
70	159.250	160.740	183.220	200.810	205.690	165.230	135.720	125.770	121.160	119.970
75	97.910	96.180	100.160	104.680	104.020	90.660	82.780	78.530	75.830	74.840
80	50.720	49.720	50.630	50.560	49.550	45.700	42.800	40.810	39.540	39.050
85	15.890	15.530	15.640	15.520	14.940	13.980	13.320	12.530	12.180	12.160
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	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090
5	19690.131	19724.430	19782.131	19875.760	19967.580	20065.109	20116.641	20133.061	20102.510	20133.061
10	19054.020	19197.330	19403.289	19622.381	19829.160	20009.801	20152.039	20240.410	20221.949	20240.410
15	18739.949	18937.641	19149.160	19418.980	19693.221	19918.891	20054.990	20150.680	20135.000	20150.680
20	19337.689	19523.279	19653.631	19665.320	19516.600	19352.240	19223.980	19172.750	19176.211	19172.750
25	19380.381	19742.711	20079.369	19899.490	19065.260	18065.439	17440.820	17120.270	17193.670	17120.270
30	17380.660	18197.641	18981.359	18877.289	17775.770	16052.660	14706.740	14119.390	14112.330	14119.390
35	13002.600	14066.780	15518.090	16276.570	15357.620	13420.290	11579.300	10744.770	10690.930	10744.770
40	8464.690	9496.750	11001.290	11912.320	11840.790	10374.970	8869.900	7934.380	7752.450	7934.380
45	4192.220	5168.890	6668.610	7731.050	7998.450	7333.200	5898.040	4861.770	4622.870	4861.770
50	1733.440	2232.130	3069.290	4032.980	4437.590	4108.010	3273.850	2595.400	2422.310	2595.400
55	684.680	911.330	1337.890	1821.060	2129.740	2070.100	1708.560	1338.110	1235.510	1338.110
60	291.300	359.220	536.170	789.960	958.150	978.330	820.800	613.240	554.580	613.240

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PHOTOMETRIC FILENAME : BL736LEDXSPHTHOWBDWT40120-277V.IES

CANDELA TABULATION - (Cont.)

65	180.680	192.270	232.600	341.790	436.380	431.690	364.670	292.460	271.120	292.460
70	121.160	125.770	135.720	165.230	205.690	200.810	183.220	160.740	159.250	160.740
75	75.830	78.530	82.780	90.660	104.020	104.680	100.160	96.180	97.910	96.180
80	39.540	40.810	42.800	45.700	49.550	50.560	50.630	49.720	50.720	49.720
85	12.180	12.530	13.320	13.980	14.940	15.520	15.640	15.530	15.890	15.530
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	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090
5	20116.641	20065.109	19967.580	19875.760	19782.131	19724.430	19690.131	19669.930	19690.131	19724.430
10	20152.039	20009.801	19829.160	19622.381	19403.289	19197.330	19054.020	18992.570	19054.020	19197.330
15	20054.990	19918.891	19693.221	19418.980	19149.160	18937.641	18739.949	18646.480	18739.949	18937.641
20	19223.980	19352.240	19516.600	19665.320	19653.631	19523.279	19337.689	19207.439	19337.689	19523.279
25	17440.820	18065.439	19065.260	19899.490	20079.369	19742.711	19380.381	19187.869	19380.381	19742.711
30	14706.740	16052.660	17775.770	18877.289	18981.359	18197.641	17380.660	17024.381	17380.660	18197.641
35	11579.300	13420.290	15357.620	16276.570	15518.090	14066.780	13002.600	12624.550	13002.600	14066.780
40	8869.900	10374.970	11840.790	11912.320	11001.290	9496.750	8464.690	8117.410	8464.690	9496.750
45	5898.040	7333.200	7998.450	7731.050	6668.610	5168.890	4192.220	3884.050	4192.220	5168.890
50	3273.850	4108.010	4437.590	4032.980	3069.290	2232.130	1733.440	1595.660	1733.440	2232.130
55	1708.560	2070.100	2129.740	1821.060	1337.890	911.330	684.680	625.110	684.680	911.330
60	820.800	978.330	958.150	789.960	536.170	359.220	291.300	276.170	291.300	359.220
65	364.670	431.690	436.380	341.790	232.600	192.270	180.680	178.090	180.680	192.270
70	183.220	200.810	205.690	165.230	135.720	125.770	121.160	119.970	121.160	125.770
75	100.160	104.680	104.020	90.660	82.780	78.530	75.830	74.840	75.830	78.530
80	50.630	50.560	49.550	45.700	42.800	40.810	39.540	39.050	39.540	40.810
85	15.640	15.520	14.940	13.980	13.320	12.530	12.180	12.160	12.180	12.530
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

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : BL736LEDXSPHTHOWBDWT40120-277V.IES

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	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090	20025.090
5	19782.131	19875.760	19967.580	20065.109	20116.641	20133.061	20102.510
10	19403.289	19622.381	19829.160	20009.801	20152.039	20240.410	20221.949
15	19149.160	19418.980	19693.221	19918.891	20054.990	20150.680	20135.000
20	19653.631	19665.320	19516.600	19352.240	19223.980	19172.750	19176.211
25	20079.369	19899.490	19065.260	18065.439	17440.820	17120.270	17193.670
30	18981.359	18877.289	17775.770	16052.660	14706.740	14119.390	14112.330
35	15518.090	16276.570	15357.620	13420.290	11579.300	10744.770	10690.930
40	11001.290	11912.320	11840.790	10374.970	8869.900	7934.380	7752.450
45	6668.610	7731.050	7998.450	7333.200	5898.040	4861.770	4622.870
50	3069.290	4032.980	4437.590	4108.010	3273.850	2595.400	2422.310
55	1337.890	1821.060	2129.740	2070.100	1708.560	1338.110	1235.510
60	536.170	789.960	958.150	978.330	820.800	613.240	554.580
65	232.600	341.790	436.380	431.690	364.670	292.460	271.120
70	135.720	165.230	205.690	200.810	183.220	160.740	159.250
75	82.780	90.660	104.020	104.680	100.160	96.180	97.910
80	42.800	45.700	49.550	50.560	50.630	49.720	50.720
85	13.320	13.980	14.940	15.520	15.640	15.530	15.890
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	7423.56	N.A.	24.00
0-30	15936.6	N.A.	51.50
0-40	24290.9	N.A.	78.40
0-60	30499.68	N.A.	98.50
0-80	30946.75	N.A.	99.90
0-90	30966.99	N.A.	100.00
10-90	29073.07	N.A.	93.90
20-40	16867.35	N.A.	54.50
20-50	21619.4	N.A.	69.80
40-70	6553.63	N.A.	21.20
60-80	447.07	N.A.	1.40
70-80	102.22	N.A.	0.30
80-90	20.24	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	30966.99	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1893.93
10-20	5529.63
20-30	8513.04
30-40	8354.3
40-50	4752.05
50-60	1456.73
60-70	344.84
70-80	102.22
80-90	20.24
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

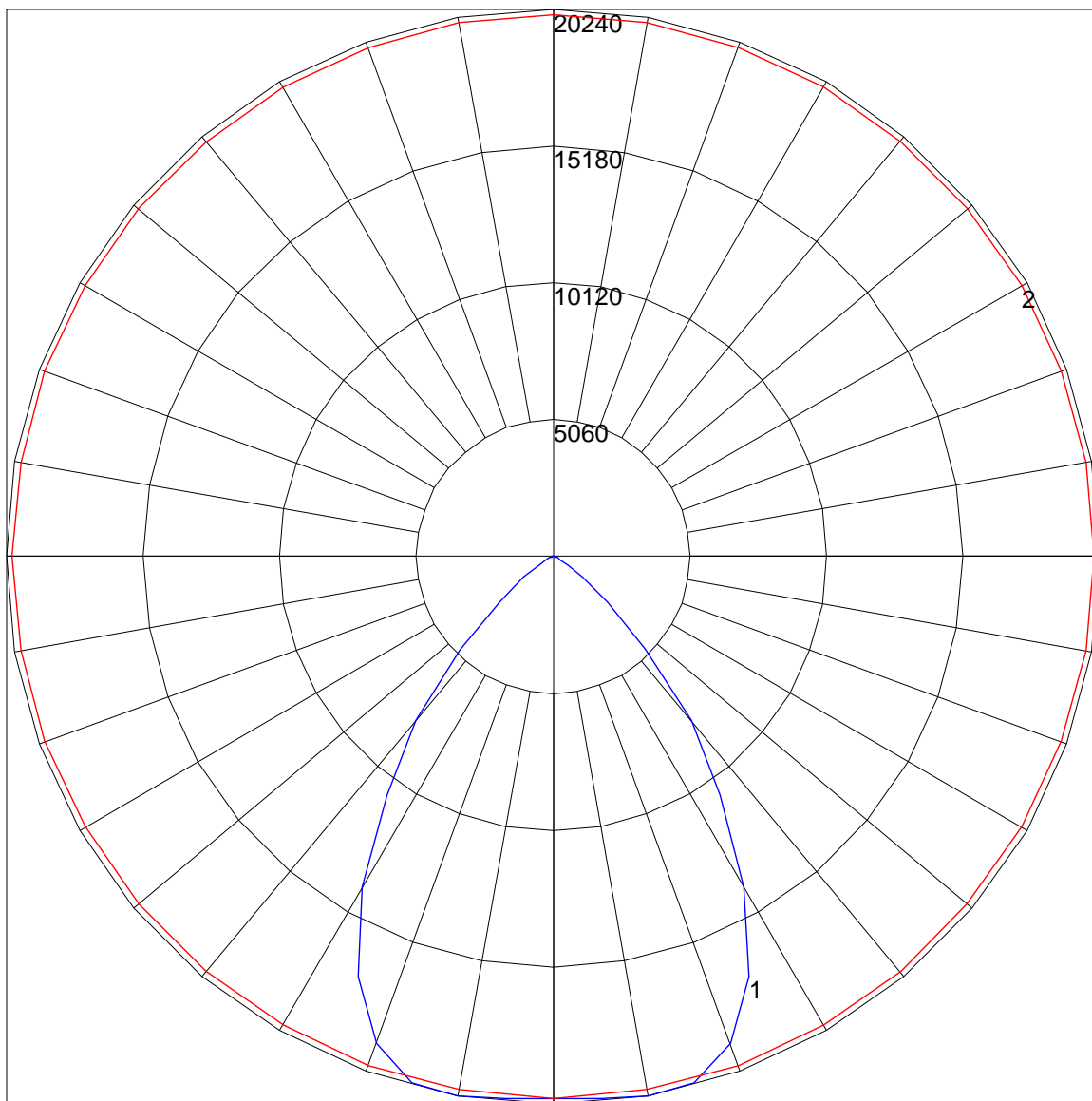
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BL736LEDXSPHTHOWBDWT40120-277V.IES

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 = 20240.41 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)