



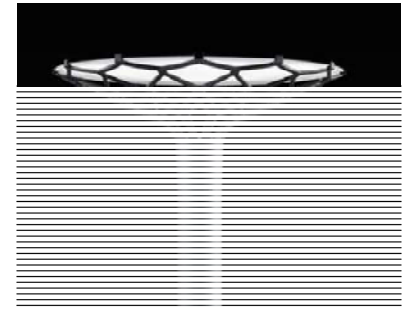
**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L7207 LP NEST 70W MH.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L7207  
 [TESTLAB] Louis Poulsen & Co. A/S  
 [ISSUEDATE] 28-08-2009 10:11:09  
 [MANUFAC] Louis Poulsen & Co. A/S  
 [LUMCAT] L7207  
 [LUMINAIRE] L7207 LP Nest (Milano) (SOE) Brillux MAL 038-09 glans 20 pilehøjde 12,3  
 [LAMPCAT] 988  
 [LAMP] 988 Philips Master colour 70W HIT  
 [BALLAST] Helvar NK 70/50 LUP 230 50HZ

**CHARACTERISTICS**

IES Classification	Type III
Longitudinal Classification	Very Short
Cutoff Classification (deprecated)	Cutoff
Lumens Per Lamp	6278.7 (1 lamp)
Total Lamp Lumens	6278.7
Luminaire Lumens	2927
Total Luminaire Efficiency	47 %
Downward Total Efficiency	46 %
Upward Waste Light Ratio	0.02
Maximum Candela	914.5
Maximum Candela Angle	150H 5V
Maximum Candela At 90 Degrees Vertical	8.014 (0.1% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	133.96 (2.1% Lamp Lumens)
Total Luminaire Watts	70
Ballast Factor	1.00



**IES ROAD REPORT**  
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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	353.8	5.6	12.1
FM - Front-Medium (30-60)	737.9	11.8	25.2
FH - Front-High (60-80)	312.2	5.0	10.7
FVH - Front-Very High (80-90)	33.0	0.5	1.1
BL - Back-Low (0-30)	362.4	5.8	12.4
BM - Back-Medium (30-60)	747.5	11.9	25.5
BH - Back-High (60-80)	297.7	4.7	10.2
BVH - Back-Very High (80-90)	27.9	0.4	1.0
UL - Uplight-Low (90-100)	11.1	0.2	0.4
UH - Uplight-High (100-180)	43.2	0.7	1.5
Total	2926.7	46.6	100.0
BUG Rating	B1-U2-G1		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L7207 LP NEST 70W MH.IES**

**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0	907.550	907.550	907.550	907.550	907.550	907.550	907.550	907.550	907.550	907.550
5	900.490	900.950	901.900	903.310	905.670	908.030	909.440	910.380	911.320	912.740
10	886.820	887.750	890.600	893.420	897.190	901.430	904.260	907.080	909.440	911.320
15	867.500	866.540	872.700	875.040	881.180	883.980	888.720	890.590	895.780	895.770
20	836.400	832.590	843.030	844.410	854.330	853.810	862.340	860.900	870.820	867.970
25	803.890	796.760	810.530	810.960	818.070	819.390	831.260	826.980	839.730	834.990
30	770.900	776.010	779.450	785.040	792.640	792.520	798.760	802.000	806.770	809.540
35	736.500	744.430	743.190	758.650	756.370	766.590	761.080	775.140	768.150	782.680
40	699.280	711.430	703.150	722.840	714.930	732.170	720.110	738.860	727.170	744.040
45	662.050	663.810	661.710	675.720	673.480	683.140	677.250	687.500	682.900	688.910
50	616.340	603.460	616.970	613.050	621.680	618.550	624.030	621.530	622.620	615.400
55	550.370	540.760	550.090	544.250	551.500	545.470	551.500	543.310	546.790	539.540
60	478.280	474.280	476.620	472.150	474.730	470.980	473.320	467.440	468.140	462.730
65	400.060	399.320	397.960	395.340	392.780	390.830	390.430	387.800	385.250	383.090
70	316.650	316.340	314.600	311.470	310.840	305.030	303.300	300.630	297.180	295.920
75	225.710	224.880	223.230	220.990	218.050	214.510	210.990	207.800	204.400	204.030
80	133.820	133.420	130.920	129.580	125.740	123.520	120.090	116.390	113.500	109.790
85	58.430	56.103	56.045	52.304	50.864	46.674	45.684	42.880	41.916	40.995
90	6.597	6.129	6.594	6.126	6.123	5.657	6.594	6.597	8.006	7.539
95	10.837	9.901	11.303	9.896	10.832	9.429	10.832	9.424	10.832	8.953
100	16.492	11.315	16.483	10.837	16.012	9.901	16.483	9.896	17.425	9.424
105	25.916	10.843	26.374	10.837	25.903	9.901	26.845	9.896	29.671	9.896
110	38.639	11.786	24.490	11.780	36.264	11.315	42.387	8.011	45.684	10.837
115	35.341	16.972	32.967	14.607	32.967	12.257	30.613	7.068	14.129	16.021
120	2.356	2.357	2.355	2.827	2.355	2.357	2.826	2.356	2.355	2.356
125	2.356	2.357	2.355	2.356	2.355	2.357	2.355	2.356	2.355	2.356
130	2.356	2.357	2.355	2.356	2.826	2.829	2.355	2.827	2.355	2.356
135	2.827	2.829	2.826	3.299	2.826	2.829	3.297	2.827	2.826	2.827
140	2.827	2.829	2.826	2.827	2.826	2.829	2.826	2.827	2.826	2.827
145	1.885	1.886	2.355	2.356	2.355	2.357	2.355	2.356	1.884	1.885
150	1.414	1.414	1.413	1.414	1.413	1.414	1.413	1.414	1.413	1.414
155	1.414	1.414	1.413	1.414	1.413	1.414	1.413	1.414	1.413	1.414
160	1.414	1.414	1.413	1.414	1.413	1.414	1.413	1.414	1.413	1.414
165	1.414	1.414	1.413	1.414	1.413	1.414	1.413	1.414	1.413	1.414
170	1.414	1.414	1.413	1.414	1.413	1.414	1.413	1.414	1.413	0.942
175	0.942	0.943	1.413	0.942	0.942	0.943	0.942	0.942	0.942	0.942
180	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943

Vert. Angles	Horizontal Angles									
	<u>150</u>	<u>165</u>	<u>180</u>	<u>195</u>	<u>210</u>	<u>225</u>	<u>240</u>	<u>255</u>	<u>270</u>	<u>285</u>
0	907.550	907.550	907.550	907.550	907.550	907.550	907.550	907.550	907.550	907.550
5	914.500	913.680	913.680	913.210	911.800	910.850	908.970	907.550	906.610	905.200
10	914.030	912.740	912.260	912.270	909.440	907.080	904.730	901.420	899.070	896.230
15	900.830	897.190	899.550	895.300	895.300	890.110	890.120	884.440	883.040	876.890
20	876.790	869.390	875.060	867.480	871.270	862.290	865.150	855.200	856.170	846.230
25	845.680	836.870	843.500	834.010	840.640	830.240	833.570	822.180	825.990	812.740
30	810.330	811.900	809.590	809.960	805.770	804.300	801.060	797.650	794.880	787.740
35	771.670	785.040	768.620	785.450	766.190	776.490	772.790	772.650	759.040	762.270
40	728.770	747.340	725.760	748.670	725.190	737.360	720.480	738.210	719.440	727.830
45	682.110	691.740	680.550	692.570	680.900	682.670	676.660	689.630	678.900	681.140
50	618.000	615.870	614.610	614.780	617.290	611.010	620.580	620.290	627.510	617.460
55	541.630	537.650	538.310	537.460	540.950	537.460	546.600	545.290	554.430	545.760

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L7207 LP NEST 70W MH.IES**

**CANDELA TABULATION - (Cont.)**

<b>60</b>	464.320	458.960	461.550	461.080	464.610	462.970	464.170	468.870	471.450	473.590
<b>65</b>	380.410	378.850	378.180	381.410	382.620	384.710	387.330	389.620	393.190	395.280
<b>70</b>	292.730	291.680	291.050	294.660	295.920	298.900	301.100	304.240	307.390	310.850
<b>75</b>	199.870	199.790	199.220	200.840	202.620	206.020	208.740	211.790	215.450	218.390
<b>80</b>	109.360	108.370	109.730	109.370	110.260	113.620	116.390	119.810	123.520	126.880
<b>85</b>	40.540	40.524	40.032	41.016	41.466	42.431	44.294	45.283	49.031	50.000
<b>90</b>	8.014	7.539	8.006	7.072	7.539	6.600	7.068	6.132	6.600	6.132
<b>95</b>	10.370	8.953	11.303	8.958	10.366	8.958	10.366	9.434	10.843	9.906
<b>100</b>	17.913	9.424	18.367	9.429	17.434	12.729	16.021	10.377	16.029	10.849
<b>105</b>	29.226	9.896	28.729	9.901	26.859	9.901	24.031	10.377	24.044	10.849
<b>110</b>	48.082	10.837	47.567	10.843	39.582	9.901	30.628	10.377	29.701	11.320
<b>115</b>	18.384	13.665	18.367	18.386	20.733	14.615	27.330	8.019	30.644	10.377
<b>120</b>	2.357	2.356	2.355	2.357	2.356	2.357	2.356	2.359	2.357	2.359
<b>125</b>	2.357	2.356	2.355	2.357	2.356	2.357	2.356	2.359	2.357	2.359
<b>130</b>	2.357	2.356	2.355	2.357	2.356	2.357	2.827	2.830	2.829	2.830
<b>135</b>	2.828	2.827	2.826	2.829	2.827	2.829	2.827	2.830	3.300	3.302
<b>140</b>	2.357	2.356	2.826	2.829	2.827	2.829	2.827	2.830	2.829	2.830
<b>145</b>	2.357	1.885	1.884	1.886	2.356	2.357	2.356	1.887	2.357	2.359
<b>150</b>	1.414	1.414	1.413	1.414	1.414	1.414	1.414	1.415	1.414	1.415
<b>155</b>	1.414	1.414	1.413	1.414	1.414	1.414	1.414	1.415	1.414	1.415
<b>160</b>	1.414	1.414	1.413	1.414	1.414	1.414	1.414	1.415	1.414	1.415
<b>165</b>	1.414	1.414	1.413	1.414	1.414	1.414	1.414	1.415	1.414	1.415
<b>170</b>	1.414	1.414	1.413	1.414	0.942	0.943	1.414	0.943	1.414	1.415
<b>175</b>	0.943	0.942	0.942	0.943	0.942	0.943	0.942	0.943	0.943	0.943
<b>180</b>	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943

**Vert. Horizontal Angles**

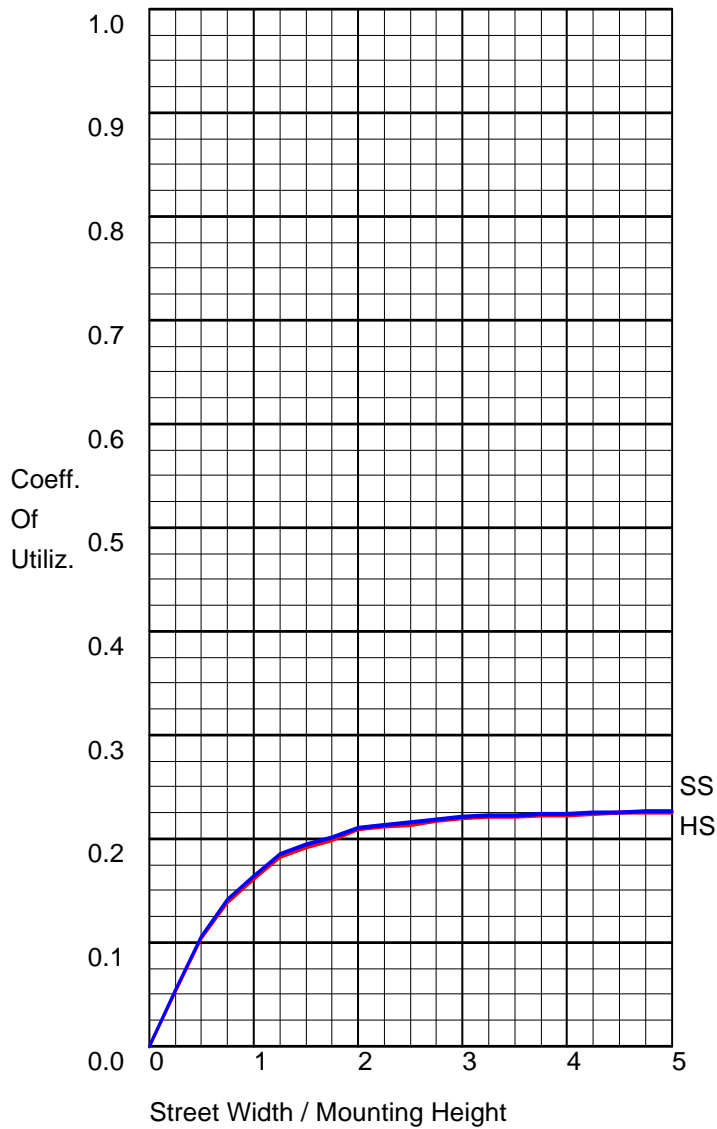
	<b><u>300</u></b>	<b><u>315</u></b>	<b><u>330</u></b>	<b><u>345</u></b>	<b><u>360</u></b>
<b>0</b>	907.550	907.550	907.550	907.550	907.550
<b>5</b>	904.250	902.370	901.900	900.950	900.490
<b>10</b>	893.880	890.570	888.700	886.800	886.820
<b>15</b>	875.970	870.290	869.840	866.040	867.500
<b>20</b>	847.210	837.270	838.250	835.380	836.400
<b>25</b>	817.030	804.250	807.130	797.180	803.890
<b>30</b>	784.500	777.840	776.020	772.180	770.900
<b>35</b>	748.200	751.890	741.130	747.650	736.500
<b>40</b>	708.130	713.210	702.470	713.210	699.280
<b>45</b>	668.050	672.650	663.810	666.990	662.050
<b>50</b>	618.080	612.270	615.250	607.080	616.340
<b>55</b>	549.250	544.810	549.250	543.400	550.370
<b>60</b>	476.170	475.000	477.580	475.470	478.280
<b>65</b>	395.550	398.110	397.910	399.530	400.060
<b>70</b>	312.100	314.620	314.930	316.510	316.650
<b>75</b>	221.110	223.110	224.410	225.470	225.710
<b>80</b>	128.700	131.130	132.480	133.960	133.820
<b>85</b>	54.217	54.717	57.518	56.604	58.430
<b>90</b>	7.072	6.604	7.072	6.132	6.597
<b>95</b>	11.315	9.906	11.315	9.906	10.837
<b>100</b>	16.029	10.849	16.029	10.849	16.492
<b>105</b>	14.143	10.849	25.458	11.320	25.916
<b>110</b>	33.002	11.792	37.716	11.792	38.639
<b>115</b>	32.059	13.679	31.587	18.868	35.341
<b>120</b>	2.357	2.359	2.357	2.359	2.356
<b>125</b>	2.357	2.359	2.357	2.359	2.356
<b>130</b>	2.829	2.830	2.357	2.359	2.356

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L7207 LP NEST 70W MH.IES**

**CANDELA TABULATION - (Cont.)**

<b>135</b>	3.300	2.830	2.829	2.830	2.827
<b>140</b>	2.829	2.830	2.357	2.359	2.827
<b>145</b>	2.357	2.359	2.357	2.359	1.885
<b>150</b>	1.414	1.415	1.414	1.415	1.414
<b>155</b>	1.414	1.415	1.414	1.415	1.414
<b>160</b>	1.414	1.415	1.414	1.415	1.414
<b>165</b>	1.414	1.415	1.414	1.415	1.414
<b>170</b>	1.414	1.415	1.414	1.415	1.414
<b>175</b>	0.943	1.415	0.943	0.943	0.942
<b>180</b>	0.943	0.943	0.943	0.943	0.943

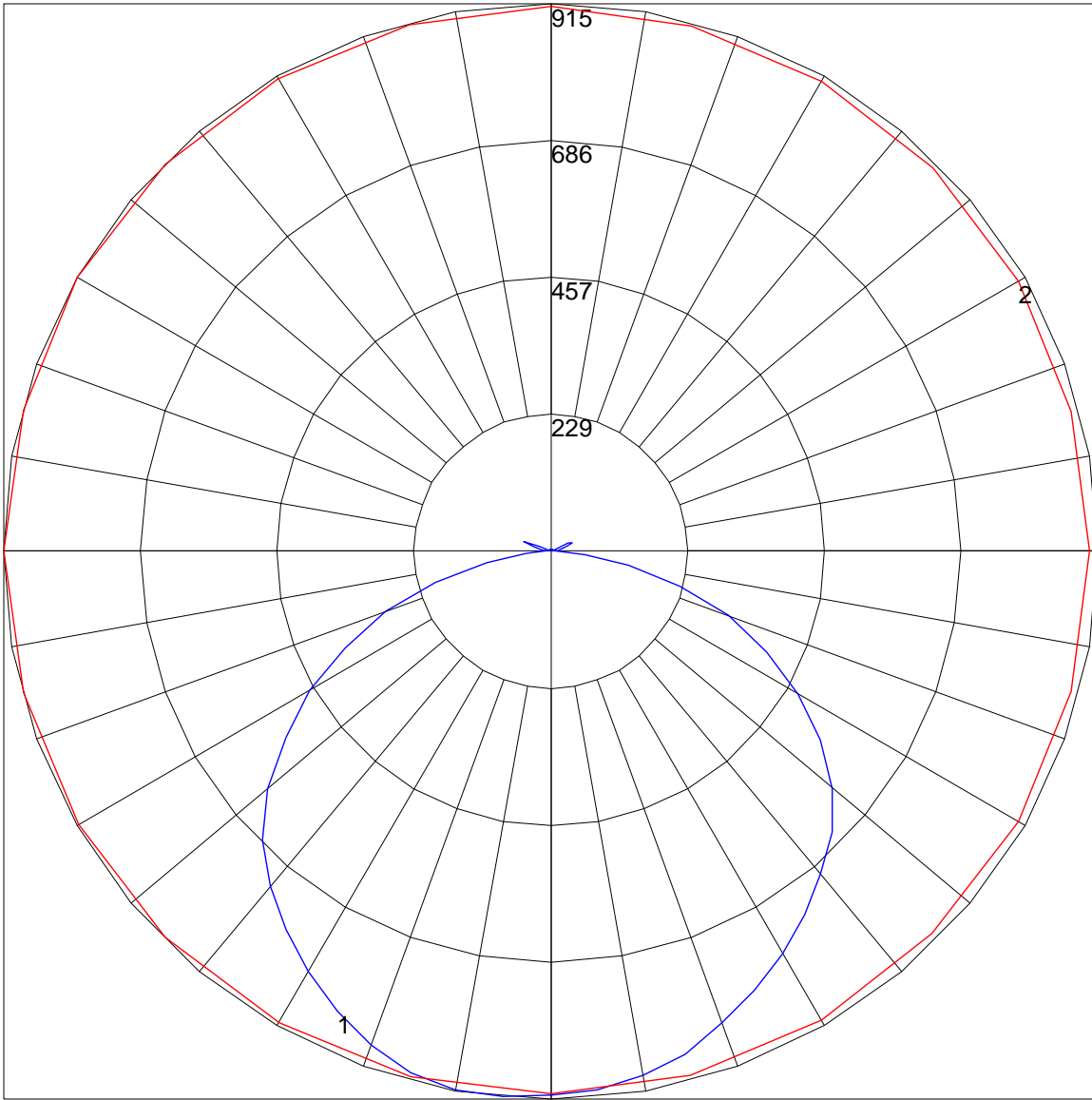
**COEFFICIENTS OF UTILIZATION**



**FLUX DISTRIBUTION**

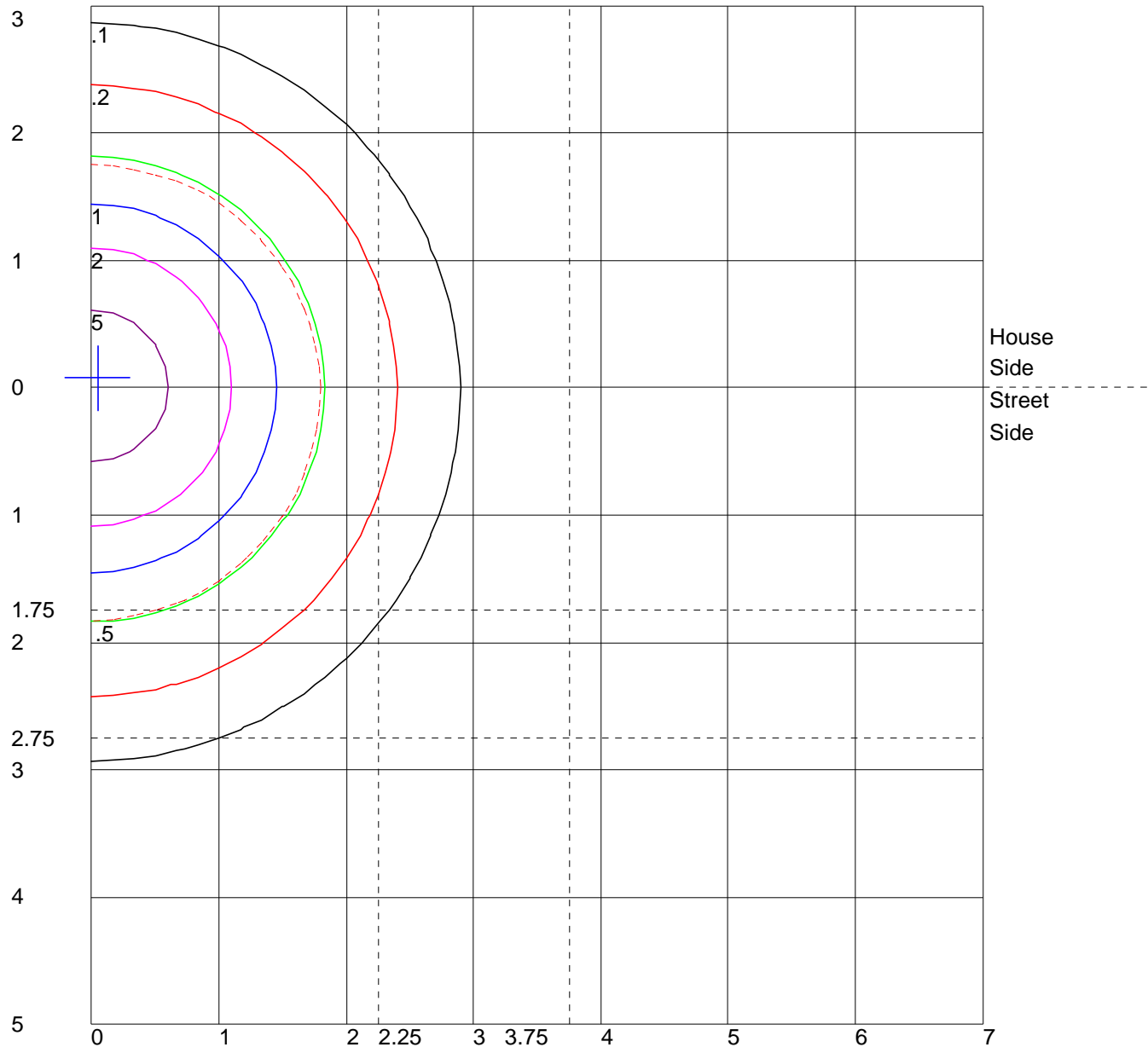
	Lumens	Percent Of Lamp
Downward Street Side	1436.9	22.9
Downward House Side	1435.5	22.9
Downward Total	2872.4	45.7
Upward Street Side	27.4	0.4
Upward House Side	26.9	0.4
Upward Total	54.3	0.9
<b>Total Flux</b>	<b>2926.7</b>	<b>46.6</b>

POLAR GRAPH



Maximum Candela = 914.5 Located At Horizontal Angle = 150, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (150 - 330) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

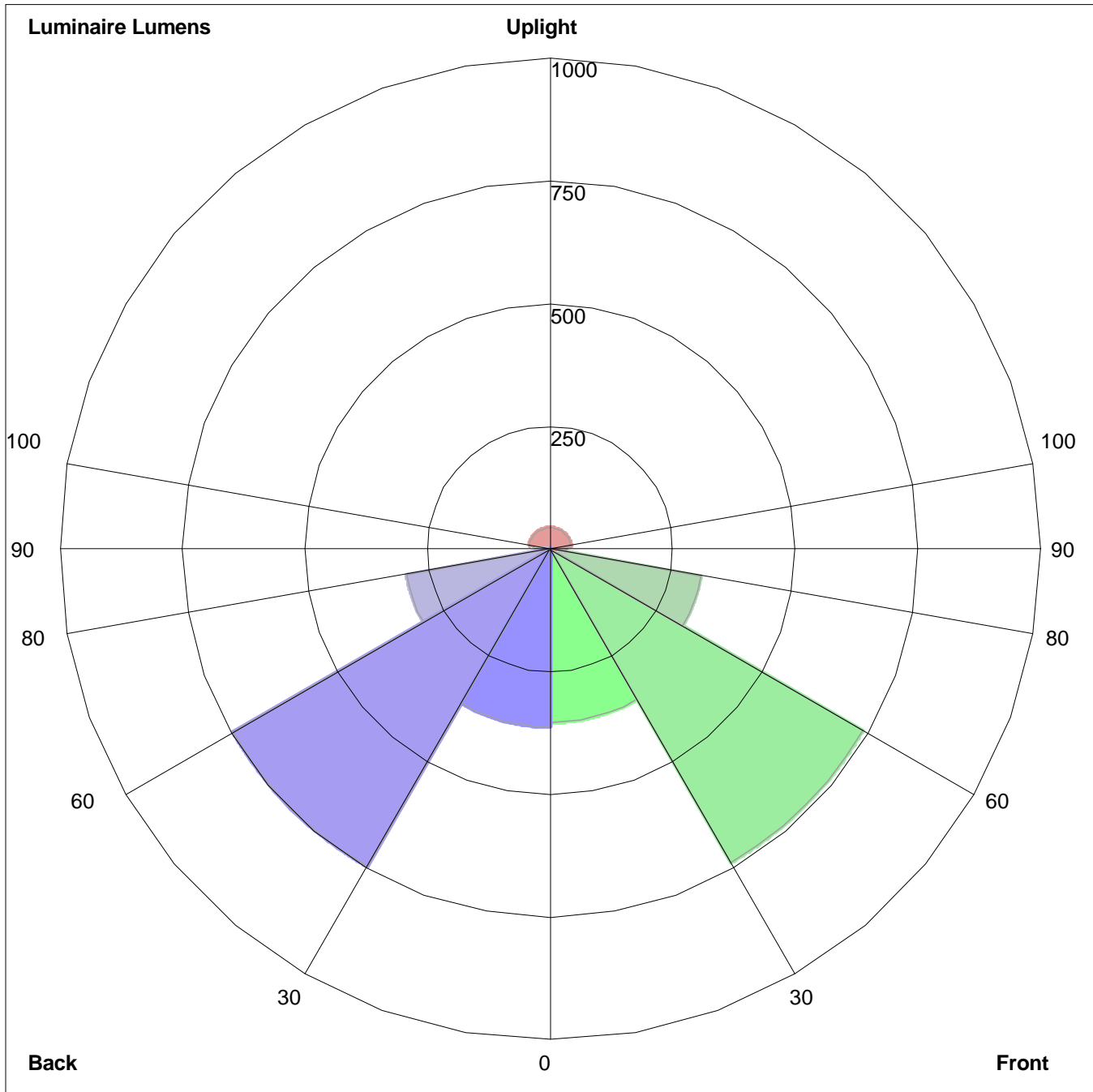
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height  
 Values Based On 10 Foot Mounting Height  
 1/2 Maximum Candela Trace Shown As Dashed Curve  
 (+) = Maximum Candela Point



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=353.8, Medium=737.9, High=312.2, Very High=33.0  
Back: Low=362.4, Medium=747.5, High=297.7, Very High=27.9  
Uplight: Low=11.1, High=43.2

BUG Rating : B1-U2-G1