

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P269572

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-SLL-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39956.1 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

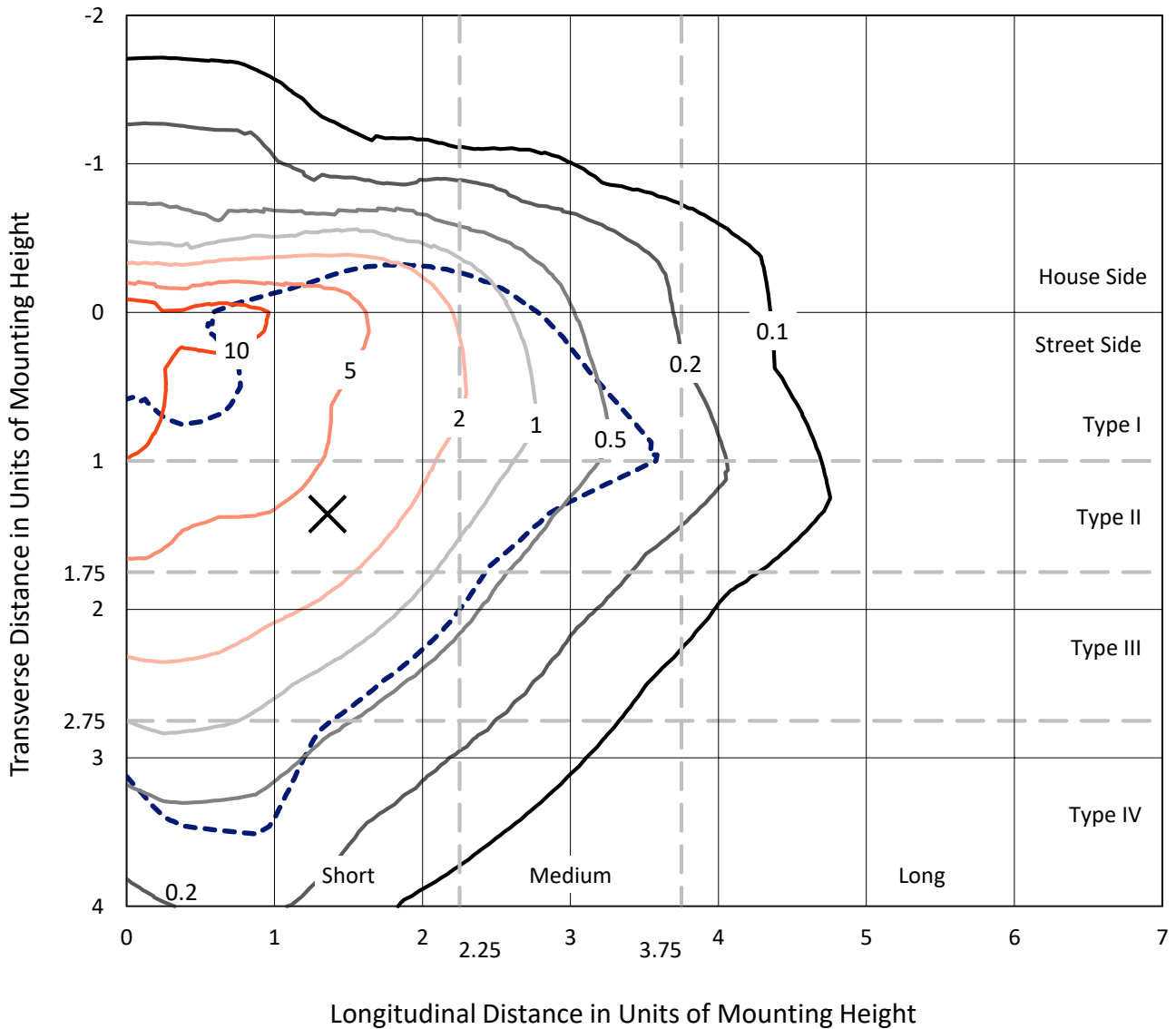


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

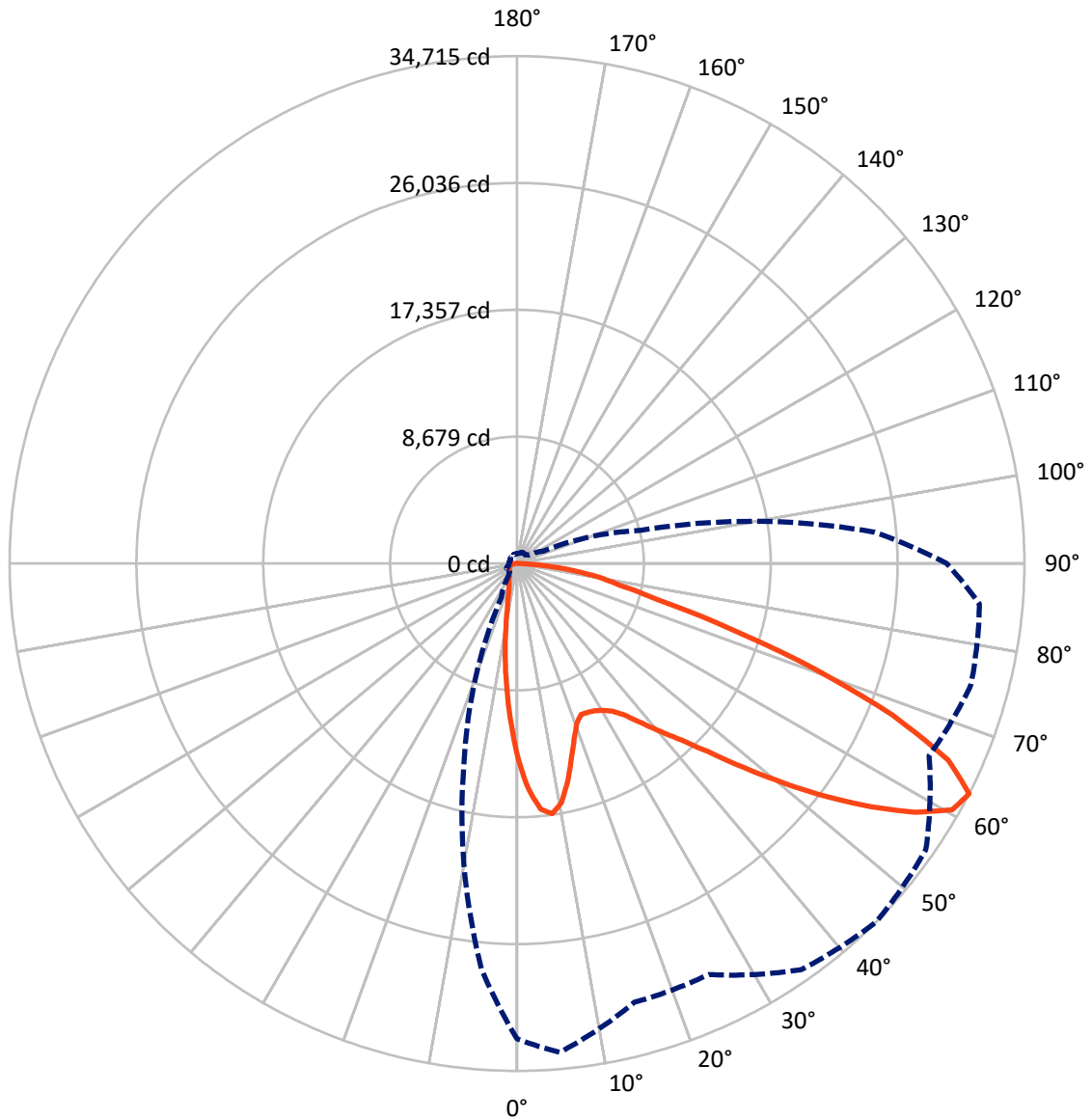


Based on 30 foot mounting height. Maximum calculated value = 17.7 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6612.2	0.0	6612.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	33343.9	0.0	33343.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	39956.1	0.0	39956.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	982.7	2.5
10°-20°	1802.0	4.5
20°-30°	2627.3	6.6
30°-40°	4046.4	10.1
40°-50°	5955.3	14.9
50°-60°	8735.1	21.9
60°-70°	9764.6	24.4
70°-80°	4780.6	12.0
80°-90°	1262.2	3.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	39956.1	100.0
0°-180°	39956.1	100.0



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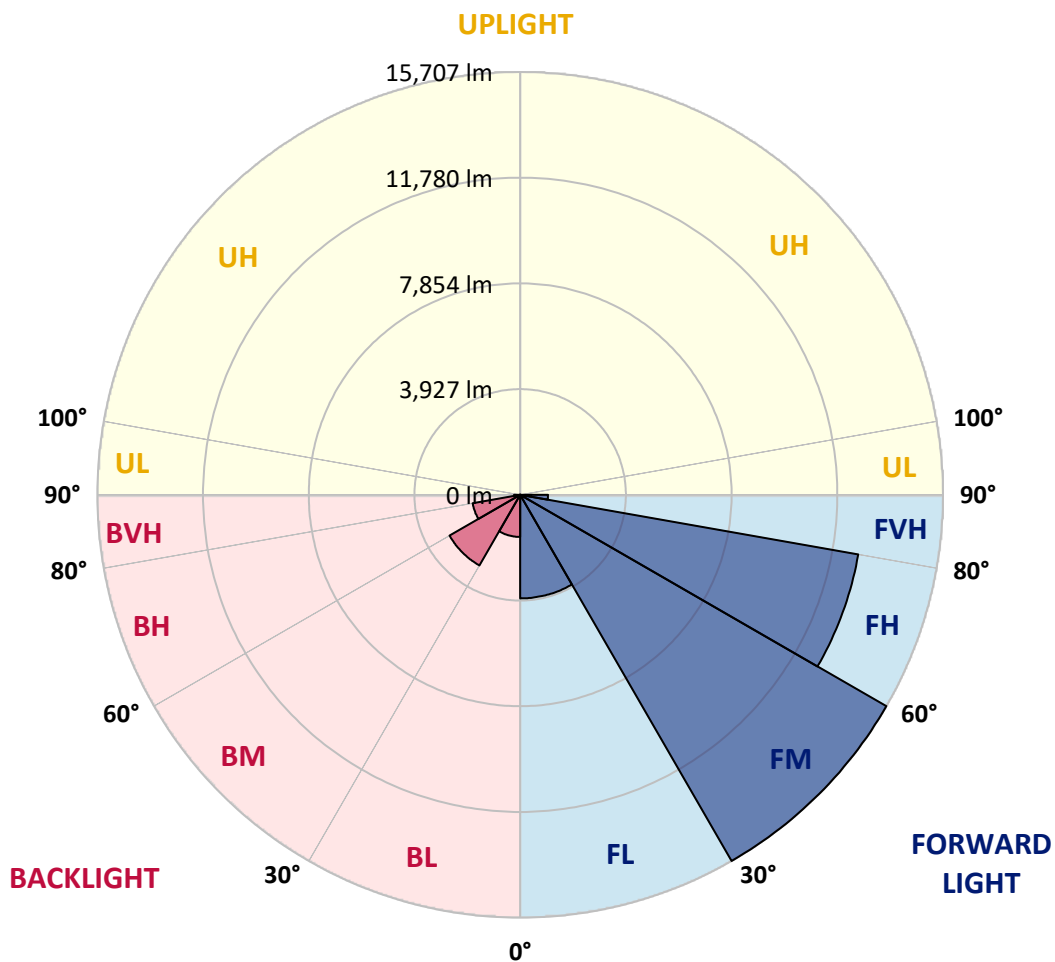
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3847.6	9.6			
FM (30°-60°)	15707.1	39.3			
FH (60°-80°)	12752.6	31.9			G5
FVH (80°-90°)	1036.6	2.6			G5
BL (0°-30°)	1564.3	3.9	B3/2500		
BM (30°-60°)	3029.7	7.6	B3/5000		
BH (60°-80°)	1792.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	225.6	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3
2.5°	14026.5	14250.5	14687.6	15014.9	15412.4	15504.7	15632.0	15506.9	15285.0	14990.7	14894.1
5°	13189.6	13668.4	14729.2	15662.8	16493.2	16879.6	16987.3	16668.8	16025.3	15179.6	14663.5
7.5°	11847.6	12528.5	13965.1	15339.9	16563.4	17285.9	17268.4	16528.3	15344.4	13967.1	13139.1
10°	10690.1	11467.7	13115.0	14652.4	15950.6	16651.3	16381.0	15434.4	14022.1	12436.2	11537.9
12.5°	10042.2	10804.3	12475.8	14019.8	15104.9	15346.6	15140.0	14213.2	12882.1	11278.7	10492.5
15°	9930.1	10766.9	12221.0	13477.5	14085.8	13875.0	13628.9	13213.8	12273.7	10905.3	10086.1
17.5°	10415.5	11338.0	12513.1	13099.5	12996.4	12629.5	12559.3	12605.3	12379.2	11320.5	10376.1
20°	11346.9	12453.8	13209.3	12921.7	12168.4	11663.1	11680.8	12385.7	13055.6	12372.5	11294.1
22.5°	12653.6	13916.6	14213.2	13016.1	11819.1	11219.4	11364.4	12506.6	14134.1	13910.1	12533.0
25°	14344.9	15495.9	15282.9	13358.8	11854.3	11274.4	11390.8	12923.8	15408.1	15447.6	14066.0
27.5°	15983.5	17051.0	16181.2	13813.3	11999.2	11404.0	11557.7	13580.5	16624.8	17116.8	15818.8
30°	17261.8	18004.2	16537.0	14228.6	12284.7	11656.4	11847.6	14204.4	17178.4	18243.7	17167.4
32.5°	18320.6	18854.3	17103.6	14742.5	12809.7	12054.0	12390.1	14962.2	17975.7	19315.4	18487.5
35°	19673.5	19825.1	17808.8	15315.8	13620.1	12746.0	13163.3	15704.6	18735.6	20398.4	19787.8
37.5°	21259.4	21063.8	18474.3	16100.0	14667.9	13828.8	14173.6	16519.4	19361.6	21626.2	21116.5
40°	22827.5	22357.6	19308.9	17316.7	16196.6	15104.9	15513.5	17389.2	19945.8	22856.1	22414.7
42.5°	24160.9	23464.5	20132.5	18654.4	17619.8	16512.9	17000.5	18265.5	20503.8	23906.1	23541.4
45°	25147.1	24281.6	20916.8	19939.3	19581.3	18384.3	18614.9	19269.5	21107.8	24782.4	24468.4
47.5°	26027.9	25103.1	21804.1	21235.3	21296.7	20818.0	20446.7	20437.9	21819.4	25498.5	25344.7
50°	27207.3	26243.1	22757.3	22570.6	23870.9	23552.4	22733.1	21801.9	22720.0	26311.1	26293.6
52.5°	28832.7	28048.6	23921.4	24009.3	26273.8	26482.6	25467.8	23440.5	24130.1	27802.5	27697.1
55°	30754.6	30297.8	25507.3	25663.1	29221.4	29370.9	28362.6	25489.6	26203.5	29961.7	29669.5
57.5°	32254.7	32158.1	27246.9	27648.8	31422.4	32094.5	31167.6	27861.9	28540.6	31780.2	31046.7
60°	32852.2	33320.0	29098.4	29652.0	33458.5	34203.0	33390.3	29946.3	30611.8	32533.6	30952.3
62.5°	32529.3	33574.8	31070.8	31024.8	33913.1	34714.7	34143.7	31106.0	32147.1	31756.2	29386.2
65°	31037.9	32658.9	32215.1	30671.1	32357.9	32423.9	32239.5	30587.6	32509.5	29298.3	26359.4
67.5°	27789.3	30122.0	30708.4	27639.9	28162.8	27734.5	27424.7	27749.8	30620.5	25614.9	22153.3
70°	22634.4	26144.2	26425.4	22107.2	21870.0	21582.1	20965.1	22750.7	26893.2	20993.6	17578.2
72.5°	16642.4	20332.4	21195.7	16214.1	15115.9	15175.2	14687.6	17145.4	21865.6	15594.8	13123.8
75°	11386.3	14722.7	16583.2	11313.9	9996.0	10020.1	9958.7	12148.5	17415.6	10848.2	9820.4
77.5°	8317.9	10518.8	12506.6	7606.3	7384.4	7248.2	7215.2	8500.2	13352.1	7876.3	7626.0
80°	6674.9	7771.0	8401.4	5271.4	5669.1	5658.1	5475.7	5844.7	8719.8	5761.3	5704.1
82.5°	4630.1	5972.1	6806.7	4131.6	3826.2	3762.6	3806.5	4353.4	6163.2	3938.2	3744.9
85°	2442.4	3966.7	6740.9	3661.5	2271.2	1812.2	2253.6	3564.8	5339.5	2086.7	1827.4
87.5°	311.9	1146.5	4463.1	1460.6	896.1	483.2	1069.6	2007.5	3428.7	426.1	371.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3
2.5°	14645.8	14353.7	13971.6	13617.9	13251.2	12886.5	12409.8	12111.2	11904.7	11865.2	11777.3
5°	14290.1	13319.2	12585.7	11950.8	11375.3	10562.7	10112.4	9739.1	9539.1	9519.3	9471.1
7.5°	12649.4	11309.5	10318.9	9420.5	8605.7	7948.9	7224.1	6885.9	6747.4	6780.3	6813.4
10°	10942.7	9444.7	8306.9	7388.7	6670.6	6117.1	5535.0	5141.9	4869.5	4814.6	4803.6
12.5°	9695.0	8052.1	6947.3	6299.4	5743.8	5223.1	4605.9	4142.4	3788.8	3668.0	3586.8
15°	9167.9	7371.2	6213.8	5515.2	4902.5	4241.3	3668.0	3182.7	2857.6	2752.1	2692.8
17.5°	9280.0	7182.4	5708.5	4814.6	4030.4	3340.7	2618.2	2203.1	2007.5	1957.0	1957.0
20°	9868.6	7147.3	5291.2	4168.9	3191.4	2391.9	1798.9	1561.7	1498.0	1491.4	1509.0
22.5°	10694.5	7270.3	4979.3	3608.8	2479.9	1746.1	1401.4	1313.5	1284.9	1291.6	1311.3
25°	11924.6	7685.4	4753.1	3110.1	1946.1	1429.9	1249.8	1197.0	1183.8	1201.5	1225.6
27.5°	13382.9	8100.5	4612.5	2734.6	1642.9	1306.9	1188.3	1133.3	1142.1	1164.2	1186.1
30°	14663.5	8441.0	4390.6	2466.6	1548.5	1313.5	1188.3	1113.5	1104.8	1109.1	1115.8
32.5°	15812.1	8671.6	4131.6	2211.7	1335.4	1166.3	1109.1	1098.2	1049.8	1032.3	1034.5
35°	16802.7	8671.6	3975.5	2062.5	1197.0	1034.5	942.3	887.3	863.2	865.3	889.5
37.5°	17758.2	8498.1	3898.6	1979.0	1122.4	984.1	902.7	854.4	821.5	814.9	819.3
40°	18601.7	8245.5	3810.8	1943.8	1065.3	953.2	876.3	836.9	801.6	790.7	792.9
42.5°	19278.2	8041.2	3714.2	1897.7	1030.1	931.4	858.8	823.7	784.1	773.1	770.9
45°	20009.6	7973.0	3586.8	1805.5	1047.8	933.5	854.4	817.1	777.6	764.4	760.0
47.5°	20973.7	8186.2	3455.1	1695.6	1085.1	944.5	861.0	817.1	775.3	764.4	760.0
50°	22188.5	8686.9	3288.1	1535.4	1047.8	975.2	858.8	810.5	775.3	764.4	755.6
52.5°	23748.0	9363.5	3068.4	1350.8	1025.8	1049.8	854.4	797.3	764.4	748.9	733.6
55°	25643.5	9916.8	2807.1	1199.2	975.2	1030.1	847.8	782.0	746.9	724.8	711.6
57.5°	27031.5	10116.8	2471.0	1100.5	905.0	997.2	839.0	762.1	724.8	707.2	689.7
60°	26757.1	9730.3	2187.6	1038.9	863.2	900.6	832.5	744.5	705.1	691.9	676.6
62.5°	24558.5	8719.8	2005.3	1010.4	836.9	821.5	839.0	727.0	687.6	674.3	670.0
65°	21261.5	7228.5	1932.9	1003.8	814.9	775.3	779.6	707.2	667.7	656.8	652.3
67.5°	17538.6	5833.8	1869.2	1025.8	786.3	742.4	720.4	680.8	647.9	637.0	628.2
70°	13831.1	4851.9	1840.5	1012.6	751.3	709.4	685.2	652.3	623.9	612.9	606.3
72.5°	11138.2	4098.5	1825.3	999.4	705.1	665.6	643.5	615.0	584.3	579.9	573.3
75°	9424.9	3222.2	1671.4	957.7	652.3	612.9	597.5	571.1	540.3	540.3	535.8
77.5°	7270.3	2330.5	1390.3	847.8	597.5	553.4	540.3	520.6	485.4	492.0	489.8
80°	5370.2	1519.9	1087.3	702.8	529.3	487.6	481.0	461.3	423.9	432.8	432.8
82.5°	3679.1	997.2	782.0	575.5	452.4	413.0	413.0	393.2	351.4	355.8	369.1
85°	1847.3	685.2	584.3	445.9	351.4	331.7	331.7	316.4	274.5	276.8	294.4
87.5°	562.2	413.0	386.6	318.4	252.7	248.2	237.2	226.3	199.9	197.6	208.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3
2.5°	11643.3	11518.2	11366.6	11032.8	10920.8	10914.0	11015.1	10909.7	11111.9	11026.2	11120.6
5°	9389.9	9266.7	9097.7	8671.6	8412.4	8236.6	8153.1	7907.2	8085.0	7955.5	8063.1
7.5°	6905.6	6934.1	6822.2	6571.7	6007.2	5723.9	5556.9	5407.6	5537.2	5524.0	5730.5
10°	4854.1	4930.9	4851.9	4599.3	4142.4	3986.6	4017.3	4076.6	4245.7	4333.6	4652.1
12.5°	3494.5	3490.2	3439.6	3213.3	2912.5	2930.0	3055.2	3158.5	3314.4	3406.7	3731.7
15°	2609.3	2569.8	2547.9	2363.4	2192.0	2229.5	2290.9	2301.8	2400.7	2455.6	2719.2
17.5°	1972.4	1992.3	2016.3	1884.6	1755.0	1730.9	1682.4	1623.1	1651.8	1662.8	1794.5
20°	1566.0	1645.2	1704.4	1612.2	1480.3	1410.1	1348.6	1309.1	1309.1	1306.9	1344.3
22.5°	1368.4	1425.5	1489.2	1425.5	1306.9	1245.4	1210.2	1179.5	1175.2	1175.2	1210.2
25°	1260.7	1302.5	1363.9	1320.1	1232.3	1186.1	1153.2	1113.5	1098.2	1093.9	1118.0
27.5°	1208.0	1225.6	1256.4	1216.8	1142.1	1120.1	1111.5	1076.3	1056.4	1045.4	1069.6
30°	1118.0	1113.5	1115.8	1076.3	1016.9	1014.7	1030.1	1036.7	1030.1	1027.9	1065.3
32.5°	1034.5	1025.8	1023.6	988.3	933.5	920.4	933.5	946.6	962.1	984.1	1027.9
35°	929.0	951.0	964.2	933.5	867.7	828.1	812.6	788.5	775.3	775.3	825.8
37.5°	845.7	896.1	915.9	887.3	814.9	760.0	733.6	729.2	731.4	740.3	788.5
40°	817.1	854.4	872.0	843.4	770.9	720.4	705.1	700.7	705.1	718.3	766.6
42.5°	799.5	825.8	823.7	788.5	729.2	694.1	685.2	680.8	685.2	698.4	751.3
45°	784.1	801.6	784.1	742.4	687.6	670.0	672.1	670.0	674.3	687.6	738.0
47.5°	770.9	777.6	755.6	713.9	656.8	652.3	661.2	667.7	672.1	683.2	735.8
50°	751.3	751.3	731.4	687.6	630.4	632.5	643.5	658.9	661.2	674.3	715.9
52.5°	727.0	724.8	711.6	670.0	608.4	615.0	615.0	632.5	637.0	652.3	696.2
55°	707.2	702.8	696.2	656.8	588.7	599.6	593.1	599.6	610.6	625.9	674.3
57.5°	689.7	680.8	680.8	645.7	573.3	577.7	562.2	571.1	584.3	597.5	647.9
60°	672.1	663.3	667.7	630.4	549.1	544.7	538.2	555.7	560.2	575.5	625.9
62.5°	652.3	645.7	647.9	612.9	531.5	520.6	520.6	535.8	538.2	560.2	608.4
65°	637.0	628.2	625.9	595.2	511.8	498.6	505.1	511.8	516.2	538.2	584.3
67.5°	621.5	604.0	604.0	579.9	489.8	476.6	489.8	487.6	494.2	514.0	551.3
70°	601.9	577.7	579.9	568.8	467.8	452.4	463.4	461.3	465.6	478.8	516.2
72.5°	571.1	551.3	555.7	551.3	445.9	423.9	428.3	428.3	428.3	439.4	478.8
75°	531.5	516.2	529.3	540.3	419.5	388.7	393.2	393.2	386.6	393.2	441.4
77.5°	483.2	474.5	518.3	503.1	388.7	351.4	351.4	347.0	333.9	342.7	395.3
80°	430.5	423.9	478.8	421.8	353.7	305.3	300.9	290.0	276.8	283.3	336.1
82.5°	375.6	369.1	401.9	322.9	305.3	252.7	241.6	221.8	208.6	215.2	263.6
85°	307.5	307.5	309.6	243.8	232.8	193.2	180.1	153.8	138.3	142.8	189.0
87.5°	219.6	226.3	208.6	166.9	138.3	107.6	98.9	83.5	70.2	81.2	98.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269572

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7027-1200

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3
2.5°	11603.8	11845.4	12119.9	12471.3	12772.3	13266.4	13741.0	14026.5
5°	8675.9	9077.9	9578.6	10222.3	10821.9	11722.4	12616.3	13189.6
7.5°	6209.4	6639.8	7180.2	7984.0	8831.9	9980.6	11162.2	11847.6
10°	5137.4	5579.0	6033.6	6576.1	7270.3	8520.0	9916.8	10690.1
12.5°	4250.2	4722.3	5212.1	5783.2	6426.7	7542.6	9152.7	10042.2
15°	3252.9	3780.1	4357.8	5080.4	5886.5	7175.8	8963.6	9930.1
17.5°	2229.5	2818.1	3527.5	4419.2	5405.5	7057.2	9301.9	10415.5
20°	1535.4	1963.7	2721.3	3767.0	4953.0	7041.9	9952.1	11346.9
22.5°	1284.9	1476.1	2029.5	3167.2	4612.5	7230.6	10960.2	12653.6
25°	1188.3	1302.5	1621.0	2646.6	4364.3	7665.5	12348.5	14344.9
27.5°	1131.1	1234.5	1471.7	2306.3	4168.9	8170.8	13699.2	15983.5
30°	1153.2	1258.5	1429.9	2132.8	3903.0	8592.5	14898.5	17261.8
32.5°	1038.9	1085.1	1225.6	1979.0	3711.9	8946.1	15948.4	18320.6
35°	885.2	966.4	1093.9	1906.6	3716.4	9183.4	17092.7	19673.5
37.5°	843.4	924.6	1016.9	1880.2	3767.0	9435.8	18406.2	21259.4
40°	817.1	891.7	970.8	1864.8	3815.2	9666.5	19693.4	22827.5
42.5°	799.5	867.7	966.4	1812.2	3839.4	9873.0	20751.9	24160.9
45°	797.3	867.7	984.1	1759.3	3876.7	10094.9	21639.4	25147.1
47.5°	799.5	896.1	951.0	1695.6	3876.7	10466.1	22680.4	26027.9
50°	790.7	944.5	915.9	1605.6	3786.6	11168.8	24108.2	27207.3
52.5°	786.3	937.9	847.8	1467.2	3630.7	12284.7	25937.8	28832.7
55°	775.3	905.0	799.5	1260.7	3448.5	13501.5	27897.0	30754.6
57.5°	764.4	801.6	773.1	1080.7	3167.2	14358.1	29245.6	32254.7
60°	856.7	700.7	751.3	992.7	2791.7	14593.1	29192.8	32852.2
62.5°	792.9	656.8	722.6	973.0	2528.1	13934.1	27844.3	32529.3
65°	621.5	628.2	694.1	1030.1	2457.9	12188.1	25454.6	31037.9
67.5°	568.8	599.6	665.6	1102.6	2464.4	9758.7	21883.2	27789.3
70°	535.8	568.8	632.5	1139.9	2481.9	7274.7	17301.4	22634.4
72.5°	498.6	527.1	595.2	1146.5	2367.8	5284.5	13334.6	16642.4
75°	454.6	481.0	542.5	999.4	1961.4	3665.9	10200.3	11386.3
77.5°	404.1	423.9	476.6	770.9	1456.2	2345.8	7656.9	8317.9
80°	344.8	355.8	399.7	564.5	997.2	1467.2	6057.8	6674.9
82.5°	276.8	281.1	309.6	423.9	647.9	942.3	4056.8	4630.1
85°	195.6	195.6	213.1	307.5	441.4	597.5	2203.1	2442.4
87.5°	92.3	94.4	94.4	169.2	230.7	303.1	507.5	311.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)