

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: P193885

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193885  
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-07-LED-E1-SLR-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33121 lumens  
Efficiency: N/A  
Efficacy: 73.9 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): 448  
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

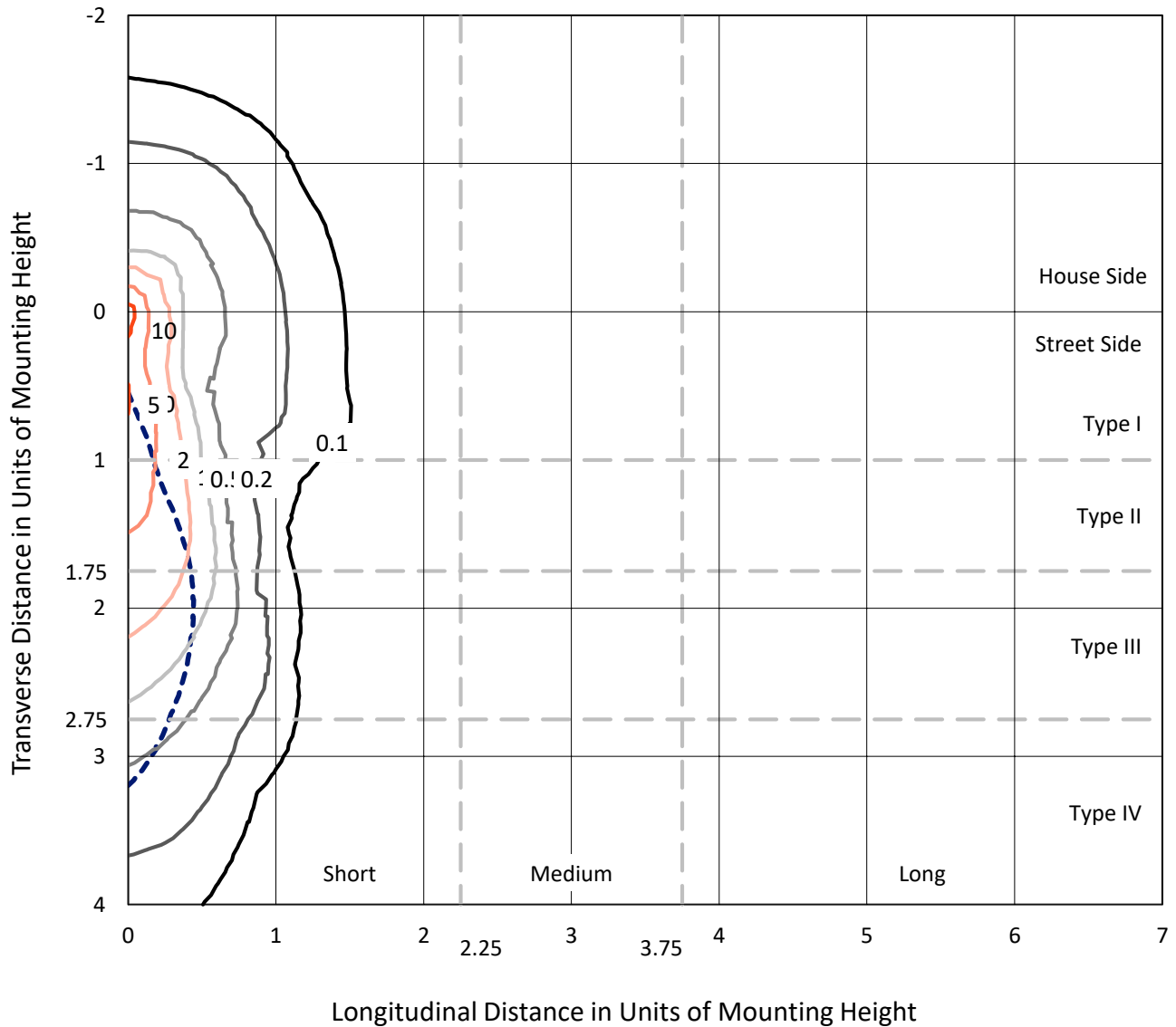


REPORT NUMBER: P193885

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-8030-1200

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

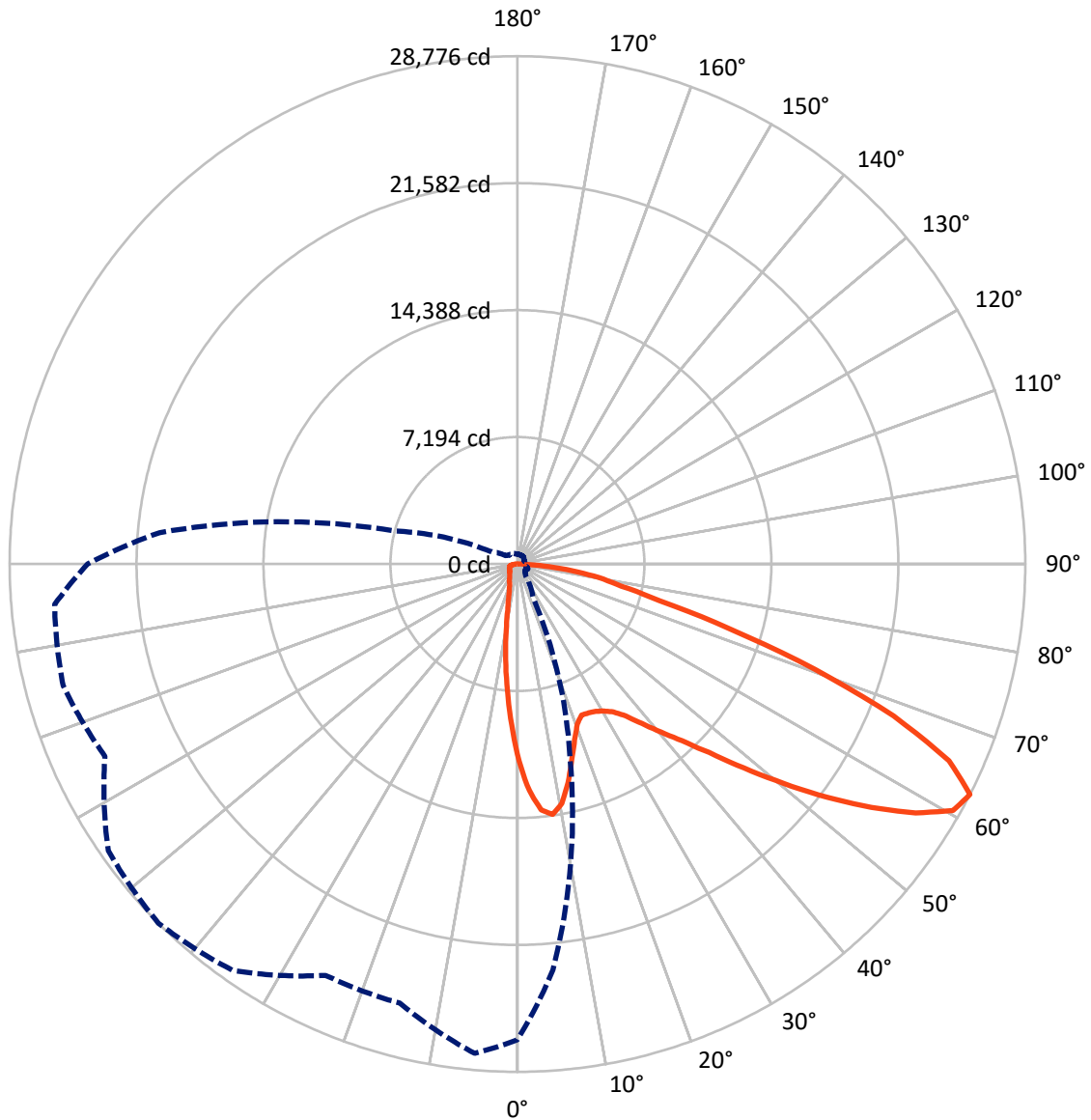


Based on 30 foot mounting height. Maximum calculated value = 12.4 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193885

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-8030-1200

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-8030-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5481.1	0.0	5481.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	27639.9	0.0	27639.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	33121.0	0.0	33121.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	814.6	2.5
10°-20°	1493.7	4.5
20°-30°	2177.9	6.6
30°-40°	3354.2	10.1
40°-50°	4936.5	14.9
50°-60°	7240.8	21.9
60°-70°	8094.2	24.4
70°-80°	3962.8	12.0
80°-90°	1046.3	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°	33121.0	100.0
0°-180°	33121.0	100.0



REPORT NUMBER: P193885

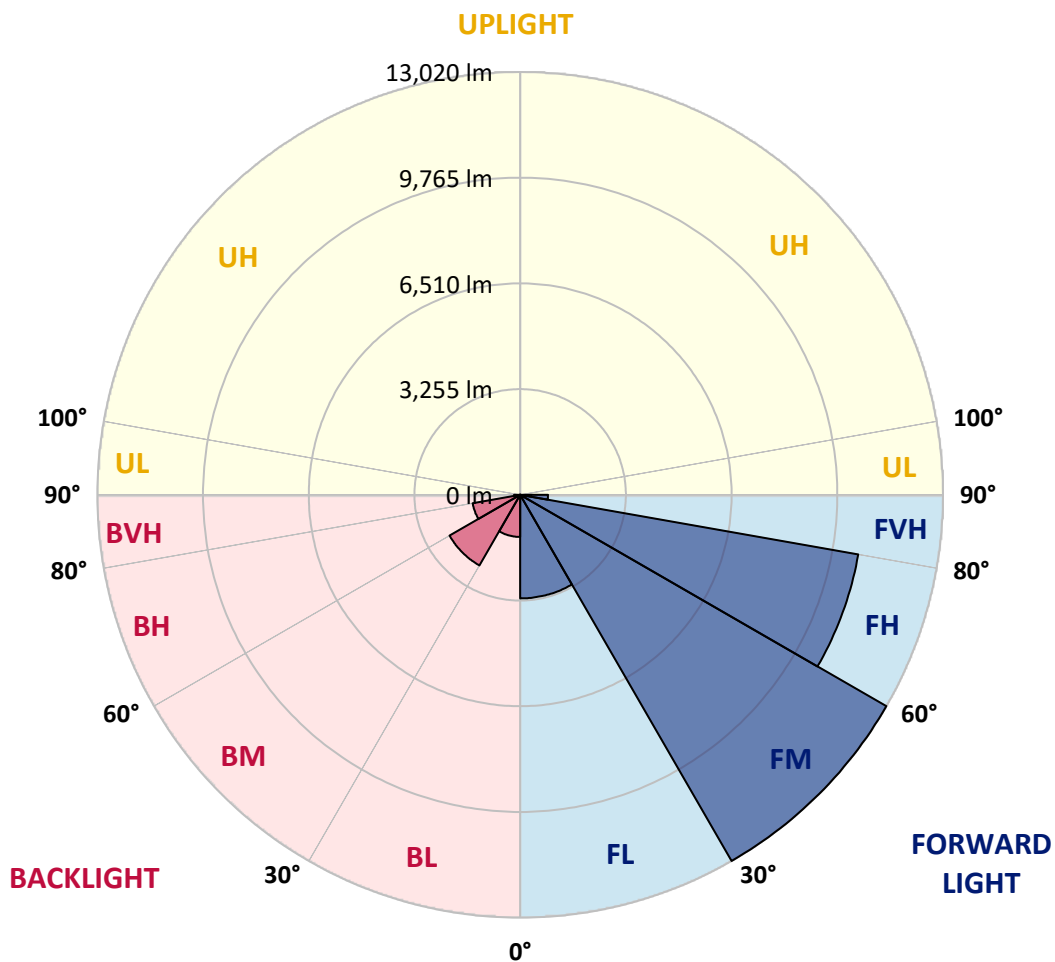
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3189.4	9.6			
FM	(30°-60°)	13020.2	39.3			
FH	(60°-80°)	10571.1	31.9			G4/12000
FVH	(80°-90°)	859.2	2.6			G5
BL	(0°-30°)	1296.7	3.9	B3/2500		
BM	(30°-60°)	2511.4	7.6	B3/5000		
BH	(60°-80°)	1485.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	187.0	0.6			G2/225
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





REPORT NUMBER: P193885

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-8030-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1
2.5°	11627.0	11390.3	10997.1	10587.4	10338.0	10046.7	9819.1	9618.8	9218.2	9139.9	9211.0
5°	10933.3	10458.1	9717.1	8970.6	8473.6	7940.1	7525.0	7191.8	6683.8	6594.6	6702.0
7.5°	9820.9	9252.8	8273.3	7321.1	6618.3	5951.9	5504.0	5147.1	4750.2	4579.1	4590.0
10°	8861.4	8220.5	7062.5	6026.5	5451.2	5001.5	4624.6	4258.6	3856.3	3592.3	3519.4
12.5°	8324.3	7586.9	6252.3	5327.4	4793.9	4320.5	3914.5	3523.1	3093.4	2823.9	2747.4
15°	8231.4	7430.3	5948.2	4879.5	4211.3	3612.3	3133.4	2696.5	2254.0	2035.5	1990.0
17.5°	8633.8	7710.7	5849.9	4480.8	3663.3	2924.1	2336.0	1848.0	1487.5	1378.3	1369.2
20°	9405.8	8249.6	5837.2	4105.7	3122.5	2255.9	1627.7	1272.7	1114.3	1083.3	1085.1
22.5°	10489.1	9085.3	5993.8	3823.5	2625.5	1682.3	1223.5	1065.1	1003.2	974.1	974.1
25°	11891.0	10236.0	6354.3	3617.7	2194.0	1343.7	1079.7	985.0	926.7	906.7	910.4
27.5°	13249.3	11355.7	6773.0	3455.7	1911.7	1219.9	1023.2	937.7	886.7	866.7	875.8
30°	14308.9	12349.8	7122.6	3235.4	1767.9	1185.3	1043.3	955.9	883.0	852.1	853.9
32.5°	15186.5	13220.1	7415.7	3077.0	1640.5	1016.0	899.4	861.2	852.1	815.7	797.5
35°	16308.1	14168.7	7612.4	3080.6	1580.4	906.7	801.1	733.7	684.6	642.7	642.7
37.5°	17622.6	15257.5	7821.8	3122.5	1558.5	843.0	766.5	699.2	653.6	613.6	606.3
40°	18922.6	16324.4	8012.9	3162.6	1545.8	804.8	739.2	677.3	635.4	595.4	584.4
42.5°	20027.8	17202.0	8184.1	3182.6	1502.1	801.1	719.2	662.7	622.7	579.0	568.1
45°	20845.3	17937.6	8368.0	3213.5	1458.4	815.7	719.2	660.9	611.8	569.9	559.0
47.5°	21575.4	18800.6	8675.7	3213.5	1405.6	788.4	742.8	662.7	609.9	566.2	557.1
50°	22553.1	19984.1	9258.3	3138.9	1330.9	759.2	782.9	655.5	593.6	559.0	548.0
52.5°	23900.4	21500.7	10183.2	3009.6	1216.2	702.8	777.4	651.8	577.2	540.7	528.0
55°	25493.5	23124.8	11191.9	2858.5	1045.1	662.7	750.1	642.7	559.0	518.9	506.2
57.5°	26737.1	24242.7	11902.0	2625.5	895.8	640.9	664.6	633.6	537.1	495.2	484.3
60°	27232.3	24199.0	12096.8	2314.1	823.0	622.7	580.8	710.1	518.9	477.0	464.3
62.5°	26964.7	23081.1	11550.6	2095.6	806.6	599.0	544.4	657.3	504.3	464.3	446.1
65°	25728.4	21100.2	10103.1	2037.4	853.9	575.3	520.7	515.3	484.3	446.1	427.9
67.5°	23035.6	18139.7	8089.4	2042.8	914.0	551.7	497.1	471.6	457.0	426.0	409.7
70°	18762.4	14341.7	6030.2	2057.4	944.9	524.4	471.6	444.3	427.9	396.9	386.0
72.5°	13795.5	11053.5	4380.6	1962.7	950.4	493.4	437.0	413.3	396.9	364.1	355.0
75°	9438.5	8455.4	3038.8	1625.9	828.4	449.7	398.7	376.9	366.0	325.9	320.4
77.5°	6895.0	6347.0	1944.5	1207.1	639.1	395.1	351.4	335.0	327.7	284.0	276.7
80°	5533.1	5021.5	1216.2	826.6	467.9	331.4	295.0	285.9	278.6	234.9	229.4
82.5°	3838.0	3362.8	781.1	537.1	351.4	256.7	233.1	229.4	218.5	178.4	173.0
85°	2024.6	1826.2	495.2	366.0	254.9	176.6	162.0	162.0	156.6	118.3	114.7
87.5°	258.5	420.6	251.3	191.2	140.2	78.3	78.3	76.5	81.9	67.4	58.3
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: P193885

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-8030-1200

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1
2.5°	9043.4	9130.8	9047.1	9052.5	9145.4	9422.2	9547.8	9651.6	9762.6	9835.5	9868.2
5°	6554.5	6758.5	6827.6	6973.3	7188.1	7541.4	7681.6	7783.5	7850.9	7890.9	7907.3
7.5°	4482.6	4606.4	4744.8	4979.6	5447.6	5655.1	5748.0	5724.3	5647.8	5620.5	5593.2
10°	3379.2	3330.1	3304.6	3433.9	3812.6	4021.9	4087.5	4023.8	3981.9	3991.0	4036.5
12.5°	2618.2	2532.6	2428.8	2414.3	2663.7	2851.2	2893.1	2896.7	2973.2	3040.6	3140.7
15°	1908.1	1899.0	1848.0	1817.1	1959.1	2112.0	2130.2	2163.0	2232.2	2281.3	2368.7
17.5°	1345.5	1394.7	1434.7	1454.7	1562.2	1671.4	1651.4	1635.0	1622.2	1622.2	1664.1
20°	1085.1	1117.9	1168.9	1227.2	1336.4	1412.9	1363.7	1298.2	1250.8	1236.3	1241.7
22.5°	977.7	1003.2	1032.3	1083.3	1181.6	1234.4	1181.6	1134.3	1087.0	1070.6	1065.1
25°	923.1	955.9	983.2	1021.4	1094.2	1130.7	1079.7	1045.1	1016.0	995.9	981.4
27.5°	892.1	921.3	928.6	946.8	1008.7	1041.4	1016.0	1001.4	983.2	965.0	946.8
30°	859.4	853.9	841.2	843.0	892.1	924.9	923.1	926.7	924.9	919.5	915.8
32.5°	784.7	773.8	762.9	773.8	819.3	848.4	850.3	857.6	857.6	855.7	870.3
35°	653.6	673.7	686.4	719.2	773.8	799.3	788.4	770.2	737.4	717.4	715.5
37.5°	604.5	608.1	630.0	675.5	735.6	759.2	742.8	701.0	679.1	675.5	680.9
40°	580.8	584.4	597.2	639.1	699.2	722.8	708.3	677.3	657.3	655.5	664.6
42.5°	564.4	568.1	575.3	604.5	653.6	682.8	684.6	662.7	639.1	640.9	650.0
45°	555.3	557.1	555.3	569.9	615.4	650.0	664.6	650.0	630.0	633.6	644.5
47.5°	553.5	548.0	540.7	544.4	591.7	626.3	644.5	639.1	630.0	633.6	642.7
50°	546.2	533.5	524.4	522.5	569.9	606.3	622.7	622.7	626.3	633.6	642.7
52.5°	524.4	509.8	509.8	504.3	555.3	589.9	600.8	602.7	608.1	620.9	633.6
55°	497.1	491.6	497.1	487.9	544.4	577.2	582.6	586.3	589.9	600.8	619.0
57.5°	473.4	466.1	478.8	475.2	535.3	564.4	564.4	571.7	571.7	586.3	600.8
60°	460.6	446.1	451.5	455.2	522.5	553.5	549.9	557.1	560.8	573.5	584.4
62.5°	444.3	431.5	431.5	440.6	508.0	537.1	535.3	540.7	555.3	559.0	569.9
65°	424.2	418.8	413.3	424.2	493.4	518.9	520.7	528.0	540.7	544.4	553.5
67.5°	404.2	406.0	395.1	406.0	480.7	500.7	500.7	515.3	520.7	528.0	537.1
70°	382.3	384.2	375.1	387.8	471.6	480.7	478.8	498.9	502.5	508.0	517.1
72.5°	355.0	355.0	351.4	369.6	457.0	460.6	457.0	473.4	475.2	480.7	484.3
75°	325.9	325.9	322.3	347.8	447.9	438.8	427.9	440.6	444.3	447.9	447.9
77.5°	287.7	291.3	291.3	322.3	416.9	429.7	393.3	400.6	406.0	407.8	402.4
80°	240.3	249.4	253.1	293.1	349.6	396.9	351.4	356.9	358.7	358.7	351.4
82.5°	183.9	200.3	209.4	253.1	267.6	333.2	305.9	311.3	305.9	295.0	291.3
85°	127.4	149.3	160.2	193.0	202.1	256.7	254.9	254.9	244.0	229.4	227.6
87.5°	69.2	81.9	89.2	114.7	138.4	173.0	187.5	182.1	173.0	163.9	165.7
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°	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1
2.5°	10039.4	10287.0	10682.1	10984.3	11288.4	11581.5	11898.3	12140.5	12346.2	12426.3	12670.3
5°	8073.0	8382.5	8755.8	9429.4	9906.5	10432.6	11040.8	11845.5	12155.0	12582.9	13283.9
7.5°	5707.9	5988.3	6589.1	7133.5	7809.0	8553.7	9374.8	10485.4	10891.5	11577.9	12719.5
10°	4262.3	4588.2	5070.7	5529.5	6124.9	6885.9	7829.0	9070.8	9564.2	10308.8	11623.4
12.5°	3433.9	3818.0	4329.6	4761.1	5221.8	5758.9	6674.7	8036.6	8697.5	9349.3	10678.4
15°	2638.2	3040.6	3515.8	4063.8	4571.8	5150.8	6110.3	7599.6	8360.7	9039.8	10174.1
17.5°	1826.2	2170.3	2769.3	3341.0	3991.0	4732.0	5953.7	7692.5	8601.0	9383.9	10261.5
20°	1294.5	1491.2	1982.7	2645.5	3455.7	4386.1	5924.6	8180.4	9362.1	10256.0	10822.3
22.5°	1088.8	1161.6	1447.5	2055.6	2991.4	4127.5	6026.5	8865.0	10388.9	11530.5	11716.2
25°	992.3	1036.0	1185.3	1613.1	2578.1	3940.0	6370.6	9884.6	11659.8	12805.0	12772.3
27.5°	939.5	985.0	1083.3	1361.9	2266.8	3823.5	6714.8	11093.6	13112.7	14188.8	13780.9
30°	923.1	985.0	1088.8	1283.6	2044.7	3639.6	6997.0	12155.0	14230.6	15122.8	14239.7
32.5°	910.4	919.5	966.8	1107.0	1833.5	3424.7	7188.1	13107.3	15324.9	16011.3	14900.7
35°	735.6	781.1	857.6	992.3	1709.6	3295.5	7188.1	13928.4	16402.7	16908.9	15530.6
37.5°	708.3	748.3	815.7	930.4	1640.5	3231.8	7044.3	14720.4	17504.3	17926.7	16049.5
40°	693.7	726.5	790.2	883.0	1611.3	3158.9	6834.9	15419.6	18580.3	18946.3	16533.8
42.5°	682.8	711.9	772.0	853.9	1573.1	3078.8	6665.6	15980.3	19514.3	19816.6	16996.3
45°	677.3	708.3	773.8	868.5	1496.6	2973.2	6609.2	16586.6	20282.7	20543.0	17497.0
47.5°	677.3	713.7	782.9	899.4	1405.6	2864.0	6785.8	17385.9	21009.1	21136.6	18086.9
50°	671.8	711.9	808.4	868.5	1272.7	2725.6	7200.9	18392.8	21795.7	21810.2	18833.4
52.5°	660.9	708.3	870.3	850.3	1119.7	2543.5	7761.7	19685.5	22959.1	23046.5	20002.3
55°	648.2	702.8	853.9	808.4	994.1	2326.9	8220.5	21256.7	24594.1	24836.2	21721.0
57.5°	631.8	695.5	826.6	750.1	912.2	2048.3	8386.2	22407.4	25735.7	26343.8	23658.3
60°	617.2	690.0	746.5	715.5	861.2	1813.4	8065.7	22179.8	25657.4	26968.3	25375.2
62.5°	602.7	695.5	680.9	693.7	837.5	1662.3	7228.2	20357.3	24359.2	26323.8	26647.9
65°	586.3	646.4	642.7	675.5	832.1	1602.2	5991.9	17624.4	21850.3	24286.4	26948.3
67.5°	564.4	597.2	615.4	651.8	850.3	1549.4	4835.8	14538.3	18363.6	21233.1	25382.5
70°	540.7	568.1	588.1	622.7	839.3	1525.8	4021.9	11465.0	14571.1	17402.3	22292.7
72.5°	509.8	533.5	551.7	584.4	828.4	1513.0	3397.4	9232.8	10878.7	12927.0	18125.1
75°	473.4	495.2	508.0	540.7	793.8	1385.6	2671.0	7812.6	8140.4	8992.5	14436.4
77.5°	431.5	447.9	458.8	495.2	702.8	1152.5	1931.8	6026.5	6321.5	6529.1	11068.1
80°	382.3	398.7	404.2	438.8	582.6	901.2	1259.9	4451.6	4728.4	4775.7	7228.2
82.5°	325.9	342.3	342.3	375.1	477.0	648.2	826.6	3049.7	3104.3	3264.5	5108.9
85°	262.2	274.9	274.9	291.3	369.6	484.3	568.1	1531.2	1514.8	1729.7	4426.1
87.5°	187.5	196.6	205.7	209.4	264.0	320.4	342.3	466.1	307.7	353.2	2842.1
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: P193885

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-8030-1200

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1
2.5°	12854.2	12958.0	12852.4	12775.9	12446.3	12175.1	11812.7	11627.0
5°	13817.3	14081.3	13992.1	13671.7	12983.5	12209.7	11330.3	10933.3
7.5°	13700.8	14314.4	14329.0	13729.9	12715.8	11576.0	10385.3	9820.9
10°	12794.1	13578.8	13802.8	13222.0	12145.9	10871.4	9505.9	8861.4
12.5°	11781.8	12550.1	12721.3	12521.0	11621.6	10341.6	8956.1	8324.3
15°	10953.4	11297.5	11501.4	11676.2	11171.9	10130.4	8925.1	8231.4
17.5°	10449.0	10410.8	10469.1	10773.1	10858.7	10372.6	9398.5	8633.8
20°	10267.0	9682.5	9667.9	10086.7	10711.2	10949.7	10323.4	9405.8
22.5°	10367.1	9420.3	9300.2	9797.2	10789.5	11781.8	11536.0	10489.1
25°	10713.0	9442.2	9345.7	9826.3	11073.5	12668.5	12845.1	11891.0
27.5°	11257.4	9580.6	9453.1	9946.5	11450.4	13413.1	14134.1	13249.3
30°	11774.5	9820.9	9662.5	10183.2	11794.5	13708.1	14924.3	14308.9
32.5°	12402.6	10270.6	9992.0	10618.4	12220.6	14177.8	15628.9	15186.5
35°	13018.0	10911.5	10565.6	11290.2	12695.8	14762.3	16433.7	16308.1
37.5°	13693.5	11749.0	11463.2	12158.7	13345.8	15314.0	17460.6	17622.6
40°	14414.5	12859.6	12521.0	13425.9	14354.4	16005.8	18533.0	18922.6
42.5°	15141.0	14092.3	13688.1	14605.7	15463.3	16688.6	19450.6	20027.8
45°	15973.1	15430.5	15239.3	16231.6	16528.4	17338.6	20127.9	20845.3
47.5°	16941.7	16949.0	17256.6	17653.6	17602.6	18074.1	20808.8	21575.4
50°	18072.3	18844.3	19523.4	19787.4	18709.6	18864.3	21753.8	22553.1
52.5°	19430.6	21111.1	21952.3	21779.3	19902.1	19829.3	23250.4	23900.4
55°	21129.3	23510.8	24346.5	24222.7	21273.1	21143.9	25114.8	25493.5
57.5°	23095.7	25835.8	26604.2	26047.0	22919.0	22585.9	26657.0	26737.1
60°	24823.5	27678.4	28352.0	27734.8	24579.5	24120.7	27620.1	27232.3
62.5°	25784.8	28302.9	28776.3	28111.7	25717.5	25755.7	27831.3	26964.7
65°	25355.1	26724.3	26877.3	26822.6	25424.3	26704.3	27072.1	25728.4
67.5°	23002.8	22733.3	22990.1	23345.1	22911.8	25455.3	24969.2	23035.6
70°	18858.9	17378.6	17890.3	18128.8	18325.4	21904.9	21671.9	18762.4
72.5°	14212.4	12175.1	12579.3	12530.1	13440.5	17569.8	16854.3	13795.5
75°	10070.3	8255.1	8306.1	8286.0	9378.5	13746.3	12204.2	9438.5
77.5°	7046.1	5981.0	6008.3	6121.2	6305.1	10367.1	8719.4	6895.0
80°	4844.9	4539.0	4690.1	4699.2	4369.7	6964.2	6441.7	5533.1
82.5°	3608.6	3155.3	3118.9	3171.7	3424.7	5642.4	4950.5	3838.0
85°	2955.0	1868.0	1502.1	1882.6	3035.1	5587.7	3288.2	2024.6
87.5°	1664.1	886.7	400.6	742.8	1210.8	3699.7	950.4	258.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)