

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: P269573

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269573  
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-SLR-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA 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: 36423.8 lumens  
Efficiency: N/A  
Efficacy: 81.9 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): 445  
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

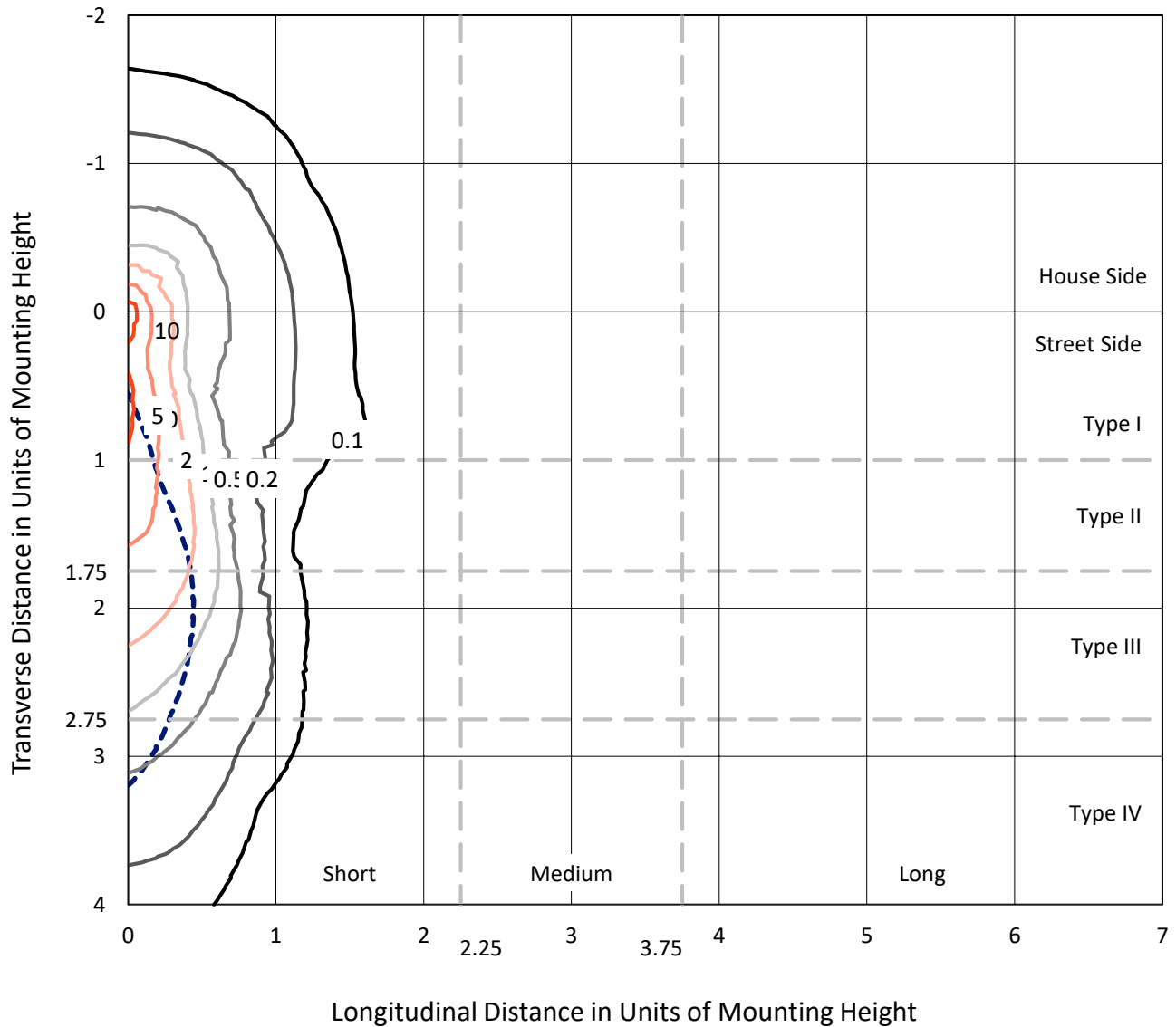


REPORT NUMBER: P269573

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7027

### Iso-Footcandle Lines of Horizontal Illumination

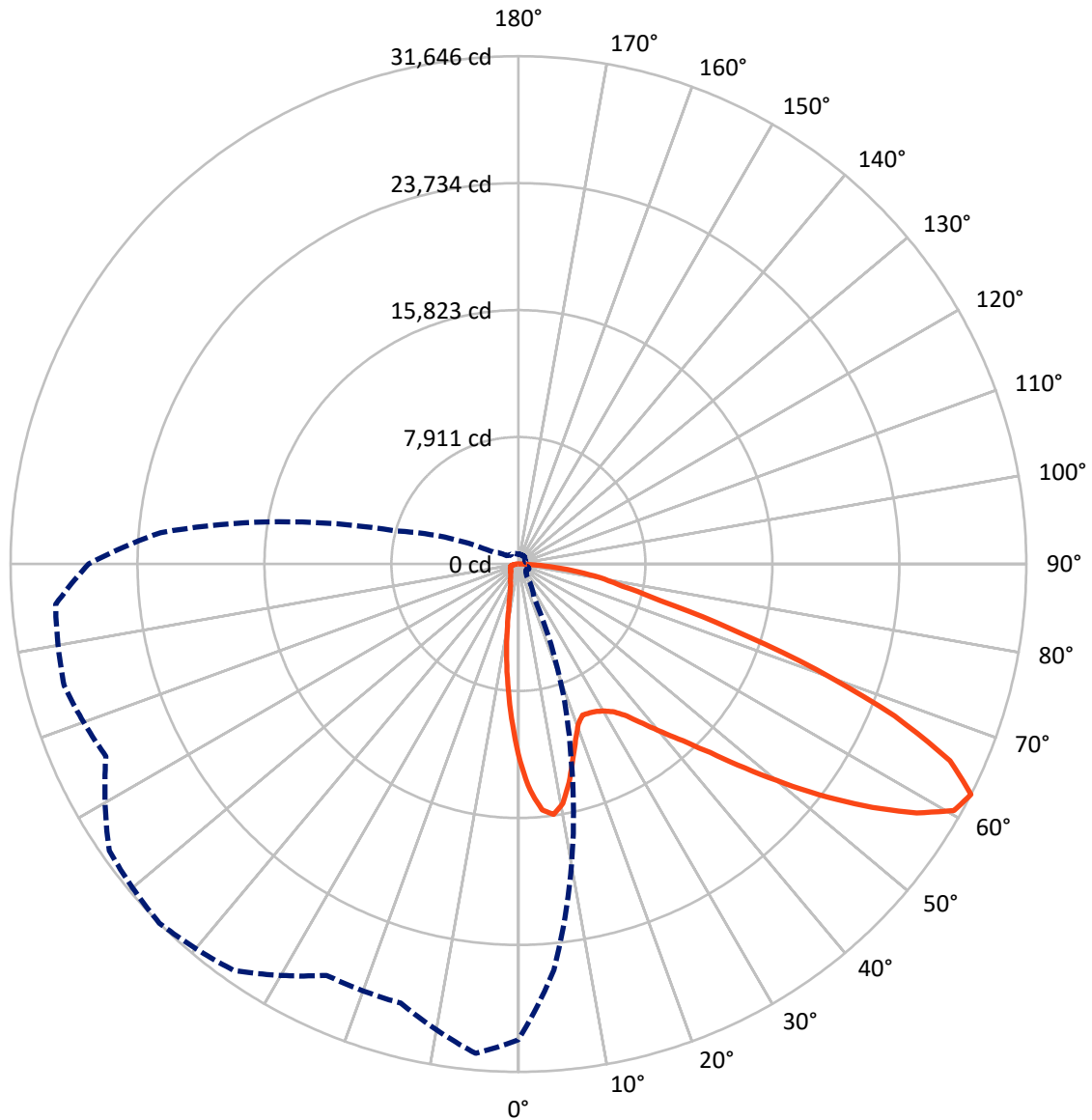
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.7 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269573  
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7027

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P269573

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7027

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6027.6	0.0	6027.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	30396.1	0.0	30396.1
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	36423.8	0.0	36423.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	895.8	2.5
10°-20°	1642.7	4.5
20°-30°	2395.0	6.6
30°-40°	3688.7	10.1
40°-50°	5428.8	14.9
50°-60°	7962.9	21.9
60°-70°	8901.3	24.4
70°-80°	4358.0	12.0
80°-90°	1150.6	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°	36423.8	100.0
0°-180°	36423.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P269573

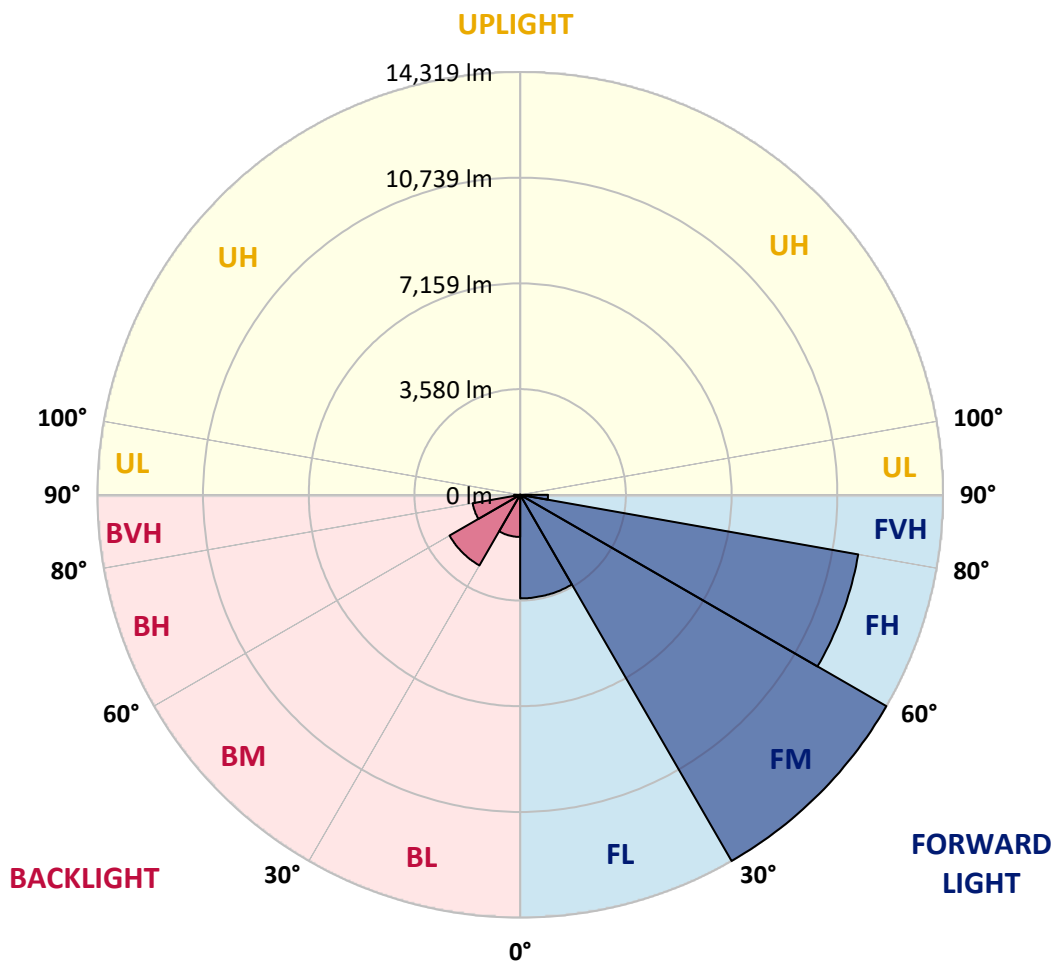
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7027

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3507.5	9.6			
FM (30°-60°)	14318.5	39.3			
FH (60°-80°)	11625.2	31.9			G4/12000
FVH (80°-90°)	944.9	2.6			G5
BL (0°-30°)	1426.0	3.9	B3/2500		
BM (30°-60°)	2761.8	7.6	B3/5000		
BH (60°-80°)	1634.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	205.7	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: P269573

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9
2.5°	12786.5	12526.1	12093.7	11643.1	11368.9	11048.4	10798.2	10577.9	10137.5	10051.3	10129.5
5°	12023.5	11501.0	10686.1	9865.1	9318.6	8731.9	8275.4	7908.9	7350.3	7252.1	7370.4
7.5°	10800.2	10175.6	9098.3	8051.1	7278.2	6545.4	6052.8	5660.4	5224.0	5035.7	5047.7
10°	9745.1	9040.3	7766.7	6627.4	5994.7	5500.2	5085.8	4683.4	4240.8	3950.4	3870.3
12.5°	9154.4	8343.5	6875.7	5858.7	5272.0	4751.3	4304.9	3874.4	3401.8	3105.5	3021.4
15°	9052.2	8171.3	6541.4	5366.0	4631.2	3972.5	3445.9	2965.3	2478.9	2238.5	2188.5
17.5°	9494.7	8479.6	6433.3	4927.6	4028.5	3215.7	2569.0	2032.2	1635.9	1515.7	1505.6
20°	10343.8	9072.3	6419.3	4515.2	3434.0	2480.8	1790.1	1399.6	1225.4	1191.3	1193.4
22.5°	11535.0	9991.3	6591.5	4204.7	2887.2	1850.1	1345.5	1171.3	1103.3	1071.1	1071.1
25°	13076.7	11256.8	6987.8	3978.6	2412.7	1477.7	1187.3	1083.3	1019.1	997.1	1001.2
27.5°	14570.5	12488.1	7448.4	3800.3	2102.4	1341.4	1125.2	1031.2	975.1	953.1	963.2
30°	15735.8	13581.4	7832.9	3558.0	1944.2	1303.5	1147.2	1051.1	971.1	937.0	939.1
32.5°	16700.8	14538.3	8155.3	3383.8	1804.1	1117.2	989.2	947.1	937.0	897.0	876.9
35°	17934.3	15581.6	8371.5	3387.9	1738.0	997.1	881.0	806.9	752.9	706.7	706.7
37.5°	19379.9	16778.9	8601.7	3434.0	1714.0	927.1	843.0	768.9	718.9	674.7	666.7
40°	20809.5	17952.3	8812.0	3478.0	1700.0	885.0	813.0	744.9	698.8	654.8	642.7
42.5°	22025.0	18917.3	9000.2	3499.9	1651.9	881.0	790.9	728.9	684.8	636.7	624.7
45°	22923.8	19726.3	9202.3	3534.0	1603.8	897.0	790.9	726.8	672.8	626.7	614.7
47.5°	23726.8	20675.4	9540.8	3534.0	1545.8	867.0	816.9	728.9	670.8	622.7	612.7
50°	24802.1	21976.9	10181.5	3451.8	1463.7	835.0	860.9	720.8	652.8	614.7	602.8
52.5°	26283.7	23644.6	11198.7	3309.7	1337.4	772.9	854.9	716.8	634.7	594.7	580.7
55°	28035.7	25430.7	12307.9	3143.6	1149.3	728.9	825.0	706.7	614.7	570.7	556.6
57.5°	29403.2	26660.2	13088.8	2887.2	985.1	704.8	730.9	696.7	590.6	544.6	532.6
60°	29947.9	26612.1	13303.0	2544.9	905.0	684.8	638.8	780.8	570.7	524.6	510.5
62.5°	29653.5	25382.7	12702.4	2304.6	886.9	658.7	598.7	722.9	554.7	510.5	490.6
65°	28293.9	23204.2	11110.5	2240.6	939.1	632.8	572.7	566.7	532.6	490.6	470.5
67.5°	25332.7	19948.5	8896.0	2246.5	1005.2	606.6	546.6	518.6	502.6	468.6	450.5
70°	20633.3	15771.8	6631.5	2262.6	1039.2	576.6	518.6	488.6	470.5	436.4	424.4
72.5°	15171.1	12155.8	4817.4	2158.4	1045.2	542.7	480.6	454.5	436.4	400.5	390.5
75°	10379.7	9298.5	3341.8	1788.0	911.1	494.5	438.6	414.5	402.4	358.5	352.3
77.5°	7582.6	6979.9	2138.4	1327.4	702.8	434.5	386.5	368.5	360.4	312.3	304.3
80°	6084.8	5522.2	1337.4	909.1	514.5	364.4	324.4	314.3	306.3	258.4	252.2
82.5°	4220.7	3698.2	859.0	590.6	386.5	282.2	256.2	252.2	240.2	196.2	190.3
85°	2226.4	2008.3	544.6	402.4	280.4	194.3	178.3	178.3	172.1	130.2	126.1
87.5°	284.4	462.4	276.3	210.3	154.1	86.1	86.1	84.1	90.1	74.1	64.0
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: P269573

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7027

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9
2.5°	9945.2	10041.3	9949.3	9955.2	10057.3	10361.7	10499.8	10614.1	10736.2	10816.2	10852.2
5°	7208.1	7432.3	7508.6	7668.7	7904.9	8293.4	8447.5	8559.7	8633.8	8677.7	8695.9
7.5°	4929.5	5065.7	5217.9	5476.2	5990.7	6219.1	6321.2	6295.1	6211.1	6181.0	6151.0
10°	3716.2	3662.1	3634.2	3776.3	4192.7	4423.1	4495.1	4425.1	4379.0	4388.9	4439.1
12.5°	2879.2	2785.1	2671.0	2655.0	2929.4	3135.5	3181.5	3185.6	3269.7	3343.9	3454.0
15°	2098.4	2088.4	2032.2	1998.3	2154.4	2322.6	2342.6	2378.7	2454.8	2508.8	2604.9
17.5°	1479.7	1533.8	1577.9	1599.8	1718.0	1838.1	1816.1	1798.0	1784.0	1784.0	1830.0
20°	1193.4	1229.4	1285.5	1349.6	1469.6	1553.8	1499.7	1427.5	1375.6	1359.6	1365.6
22.5°	1075.2	1103.3	1135.3	1191.3	1299.5	1357.5	1299.5	1247.3	1195.4	1177.3	1171.3
25°	1015.2	1051.1	1081.2	1123.3	1203.4	1243.4	1187.3	1149.3	1117.2	1095.3	1079.3
27.5°	981.0	1013.2	1021.2	1041.1	1109.2	1145.2	1117.2	1101.2	1081.2	1061.2	1041.1
30°	945.0	939.1	925.1	927.1	981.0	1017.2	1015.2	1019.1	1017.2	1011.1	1007.1
32.5°	863.0	851.0	838.9	851.0	901.0	933.1	935.0	943.1	943.1	941.1	957.1
35°	718.9	740.8	754.8	790.9	851.0	879.0	867.0	846.9	810.9	788.9	786.8
37.5°	664.7	668.8	692.9	742.9	809.0	835.0	816.9	770.8	746.9	742.9	748.8
40°	638.8	642.7	656.8	702.8	768.9	794.9	778.9	744.9	722.9	720.8	730.9
42.5°	620.6	624.7	632.8	664.7	718.9	750.9	752.9	728.9	702.8	704.8	714.8
45°	610.7	612.7	610.7	626.7	676.8	714.8	730.9	714.8	692.9	696.7	708.9
47.5°	608.7	602.8	594.7	598.7	650.7	688.8	708.9	702.8	692.9	696.7	706.7
50°	600.6	586.7	576.6	574.6	626.7	666.7	684.8	684.8	688.8	696.7	706.7
52.5°	576.6	560.6	560.6	554.7	610.7	648.8	660.8	662.8	668.8	682.8	696.7
55°	546.6	540.6	546.6	536.6	598.7	634.7	640.8	644.8	648.8	660.8	680.7
57.5°	520.6	512.7	526.5	522.6	588.7	620.6	620.6	628.8	628.8	644.8	660.8
60°	506.6	490.6	496.6	500.5	574.6	608.7	604.6	612.7	616.6	630.7	642.7
62.5°	488.6	474.6	474.6	484.5	558.7	590.6	588.7	594.7	610.7	614.7	626.7
65°	466.5	460.6	454.5	466.5	542.7	570.7	572.7	580.7	594.7	598.7	608.7
67.5°	444.5	446.5	434.5	446.5	528.7	550.7	550.7	566.7	572.7	580.7	590.6
70°	420.4	422.5	412.4	426.4	518.6	528.7	526.5	548.7	552.6	558.7	568.6
72.5°	390.5	390.5	386.5	406.5	502.6	506.6	502.6	520.6	522.6	528.7	532.6
75°	358.5	358.5	354.4	382.4	492.6	482.5	470.5	484.5	488.6	492.6	492.6
77.5°	316.4	320.3	320.3	354.4	458.6	472.5	432.4	440.4	446.5	448.6	442.4
80°	264.3	274.3	278.4	322.3	384.5	436.4	386.5	392.4	394.4	394.4	386.5
82.5°	202.2	220.3	230.2	278.4	294.4	366.4	336.3	342.3	336.3	324.4	320.3
85°	140.1	164.2	176.2	212.2	222.2	282.2	280.4	280.4	268.4	252.2	250.3
87.5°	76.0	90.1	98.2	126.1	152.2	190.3	206.3	200.2	190.3	180.2	182.1
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: P269573

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7027

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9
2.5°	11040.4	11312.7	11747.2	12079.7	12414.0	12736.3	13084.8	13351.1	13577.3	13665.5	13933.7
5°	8877.9	9218.4	9628.9	10369.8	10894.4	11473.0	12141.8	13026.7	13367.0	13837.6	14608.4
7.5°	6277.0	6585.5	7246.2	7844.9	8587.6	9406.6	10309.7	11531.1	11977.6	12732.3	13987.8
10°	4687.3	5045.7	5576.3	6080.8	6735.6	7572.5	8609.7	9975.3	10517.9	11336.8	12782.4
12.5°	3776.3	4198.8	4761.3	5236.0	5742.4	6333.2	7340.3	8838.0	9564.9	10281.6	11743.3
15°	2901.3	3343.9	3866.3	4469.1	5027.6	5664.4	6719.6	8357.4	9194.4	9941.3	11188.7
17.5°	2008.3	2386.6	3045.4	3674.2	4388.9	5203.9	6547.3	8459.6	9458.8	10319.6	11284.8
20°	1423.6	1639.9	2180.5	2909.3	3800.3	4823.4	6515.3	8996.2	10295.7	11278.8	11901.5
22.5°	1197.4	1277.4	1591.7	2260.6	3289.8	4539.1	6627.4	9749.0	11425.0	12680.4	12884.6
25°	1091.3	1139.3	1303.5	1774.1	2835.2	4332.9	7005.9	10870.3	12822.4	14081.9	14045.9
27.5°	1033.2	1083.3	1191.3	1497.7	2492.8	4204.7	7384.3	12199.8	14420.3	15603.6	15155.1
30°	1015.2	1083.3	1197.4	1411.5	2248.5	4002.5	7694.7	13367.0	15649.7	16630.9	15659.8
32.5°	1001.2	1011.1	1063.2	1217.4	2016.2	3766.2	7904.9	14414.4	16853.0	17607.9	16386.5
35°	809.0	859.0	943.1	1091.3	1880.2	3624.1	7904.9	15317.3	18038.3	18595.0	17079.4
37.5°	778.9	822.9	897.0	1023.2	1804.1	3554.1	7746.8	16188.3	19249.8	19714.3	17650.0
40°	762.9	799.0	869.0	971.1	1771.9	3473.9	7516.5	16957.1	20433.0	20835.6	18182.6
42.5°	750.9	783.0	849.0	939.1	1730.0	3385.8	7330.3	17573.8	21460.2	21792.6	18691.2
45°	744.9	778.9	851.0	955.1	1645.9	3269.7	7268.2	18240.7	22305.3	22591.6	19241.8
47.5°	744.9	784.8	860.9	989.2	1545.8	3149.5	7462.4	19119.6	23104.0	23244.3	19890.5
50°	738.9	783.0	889.1	955.1	1399.6	2997.4	7919.0	20226.9	23969.0	23985.1	20711.4
52.5°	726.8	778.9	957.1	935.0	1231.3	2797.1	8535.6	21648.4	25248.5	25344.6	21996.8
55°	712.9	772.9	939.1	889.1	1093.2	2558.9	9040.3	23376.5	27046.6	27312.8	23887.0
57.5°	694.7	764.8	909.1	825.0	1003.1	2252.5	9222.4	24641.9	28302.0	28970.8	26017.4
60°	678.8	758.9	821.0	786.8	947.1	1994.2	8870.0	24391.6	28215.9	29657.5	27905.6
62.5°	662.8	764.8	748.8	762.9	921.0	1828.1	7949.0	22387.3	26788.3	28948.7	29305.0
65°	644.8	710.7	706.7	742.9	915.1	1761.9	6589.4	19381.9	24029.1	26708.1	29635.5
67.5°	620.6	656.8	676.8	716.8	935.0	1703.9	5318.1	15988.0	20194.8	23350.5	27913.6
70°	594.7	624.7	646.7	684.8	923.1	1677.9	4423.1	12608.3	16024.1	19137.6	24515.7
72.5°	560.6	586.7	606.6	642.7	911.1	1663.9	3736.2	10153.5	11963.4	14216.0	19932.5
75°	520.6	544.6	558.7	594.7	873.1	1523.7	2937.3	8591.7	8952.1	9889.3	15875.9
77.5°	474.6	492.6	504.6	544.6	772.9	1267.4	2124.4	6627.4	6951.9	7180.2	12171.8
80°	420.4	438.6	444.5	482.5	640.8	991.1	1385.5	4895.6	5199.8	5251.9	7949.0
82.5°	358.5	376.4	376.4	412.4	524.6	712.9	909.1	3353.8	3413.9	3590.0	5618.4
85°	288.4	302.3	302.3	320.3	406.5	532.6	624.7	1684.0	1665.8	1902.2	4867.5
87.5°	206.3	216.2	226.3	230.2	290.3	352.3	376.4	512.7	338.4	388.4	3125.6
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: P269573

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7027

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9	12305.9
2.5°	14136.0	14250.2	14134.0	14049.9	13687.5	13389.1	12990.7	12786.5
5°	15195.2	15485.5	15387.3	15035.0	14278.1	13427.1	12460.1	12023.5
7.5°	15067.0	15741.8	15757.8	15099.2	13983.7	12730.4	11421.0	10800.2
10°	14070.0	14932.9	15179.2	14540.4	13357.1	11955.5	10453.8	9745.1
12.5°	12956.7	13801.6	13989.8	13769.6	12780.5	11372.8	9849.1	9154.4
15°	12045.6	12424.1	12648.2	12840.6	12285.8	11140.6	9815.2	9052.2
17.5°	11490.9	11449.0	11512.9	11847.3	11941.4	11406.9	10335.7	9494.7
20°	11290.7	10648.0	10632.0	11092.5	11779.4	12041.6	11352.8	10343.8
22.5°	11400.8	10359.8	10227.6	10774.2	11865.4	12956.7	12686.4	11535.0
25°	11781.4	10383.8	10277.6	10806.3	12177.8	13931.8	14125.9	13076.7
27.5°	12380.0	10536.0	10395.7	10938.3	12592.3	14750.7	15543.6	14570.5
30°	12948.6	10800.2	10626.1	11198.7	12970.6	15075.0	16412.6	15735.8
32.5°	13639.4	11294.7	10988.3	11677.2	13439.3	15591.6	17187.5	16700.8
35°	14316.2	11999.6	11619.1	12416.1	13961.7	16234.3	18072.5	17934.3
37.5°	15059.0	12920.6	12606.3	13371.1	14676.6	16841.1	19201.7	19379.9
40°	15851.9	14141.9	13769.6	14764.7	15785.8	17601.8	20381.0	20809.5
42.5°	16650.9	15497.5	15053.0	16062.1	17005.3	18352.7	21390.3	22025.0
45°	17565.8	16969.3	16758.9	17850.2	18176.6	19067.6	22135.0	22923.8
47.5°	18631.0	18639.0	18977.5	19413.9	19357.8	19876.4	22883.9	23726.8
50°	19874.6	20723.4	21470.3	21760.6	20575.3	20745.5	23923.0	24802.1
52.5°	21368.2	23216.2	24141.3	23951.1	21886.8	21806.6	25568.8	26283.7
55°	23236.3	25855.2	26774.3	26638.1	23394.4	23252.3	27619.2	28035.7
57.5°	25398.7	28412.1	29257.1	28644.3	25204.5	24838.0	29315.1	29403.2
60°	27298.9	30438.3	31179.2	30500.5	27030.5	26526.1	30374.3	29947.9
62.5°	28356.1	31125.2	31645.9	30914.9	28282.0	28324.0	30606.6	29653.5
65°	27883.5	29389.2	29557.4	29497.4	27959.6	29367.2	29771.6	28293.9
67.5°	25296.6	25000.3	25282.5	25673.0	25196.5	27993.6	27459.0	25332.7
70°	20739.3	19111.6	19674.1	19936.5	20152.8	24089.2	23832.9	20633.3
72.5°	15629.7	13389.1	13833.5	13779.6	14780.7	19321.9	18535.0	15171.1
75°	11074.6	9078.2	9134.3	9112.2	10313.7	15117.0	13421.1	10379.7
77.5°	7748.8	6577.4	6607.5	6731.5	6933.8	11400.8	9588.9	7582.6
80°	5328.0	4991.6	5157.8	5167.8	4805.5	7658.7	7084.0	6084.8
82.5°	3968.5	3470.0	3429.9	3487.9	3766.2	6205.0	5444.2	4220.7
85°	3249.7	2054.3	1651.9	2070.4	3337.7	6144.9	3616.0	2226.4
87.5°	1830.0	975.1	440.4	816.9	1331.5	4068.7	1045.2	284.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)