

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: P269494

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269494
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-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 21179.4 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 226
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

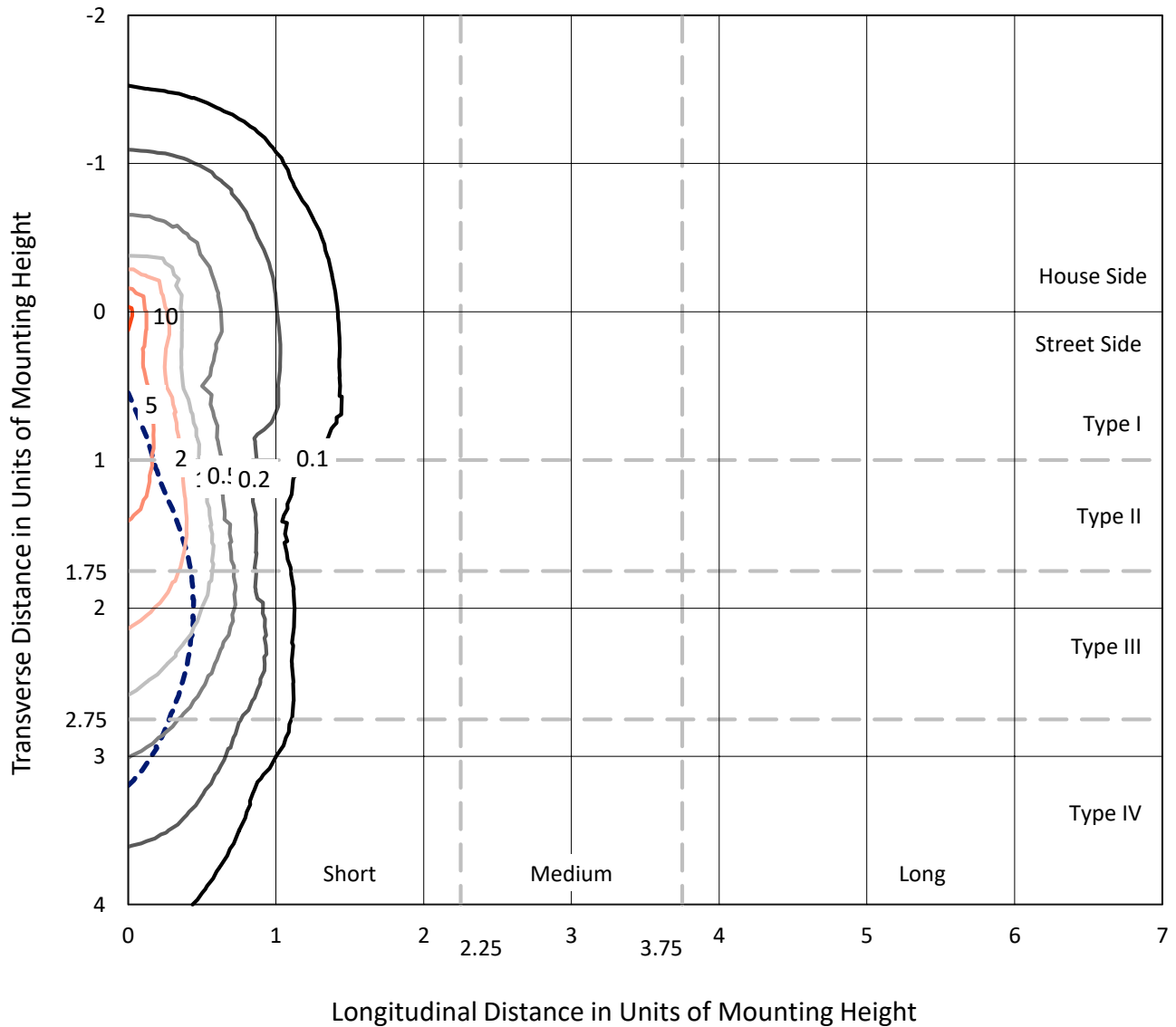


REPORT NUMBER: P269494

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

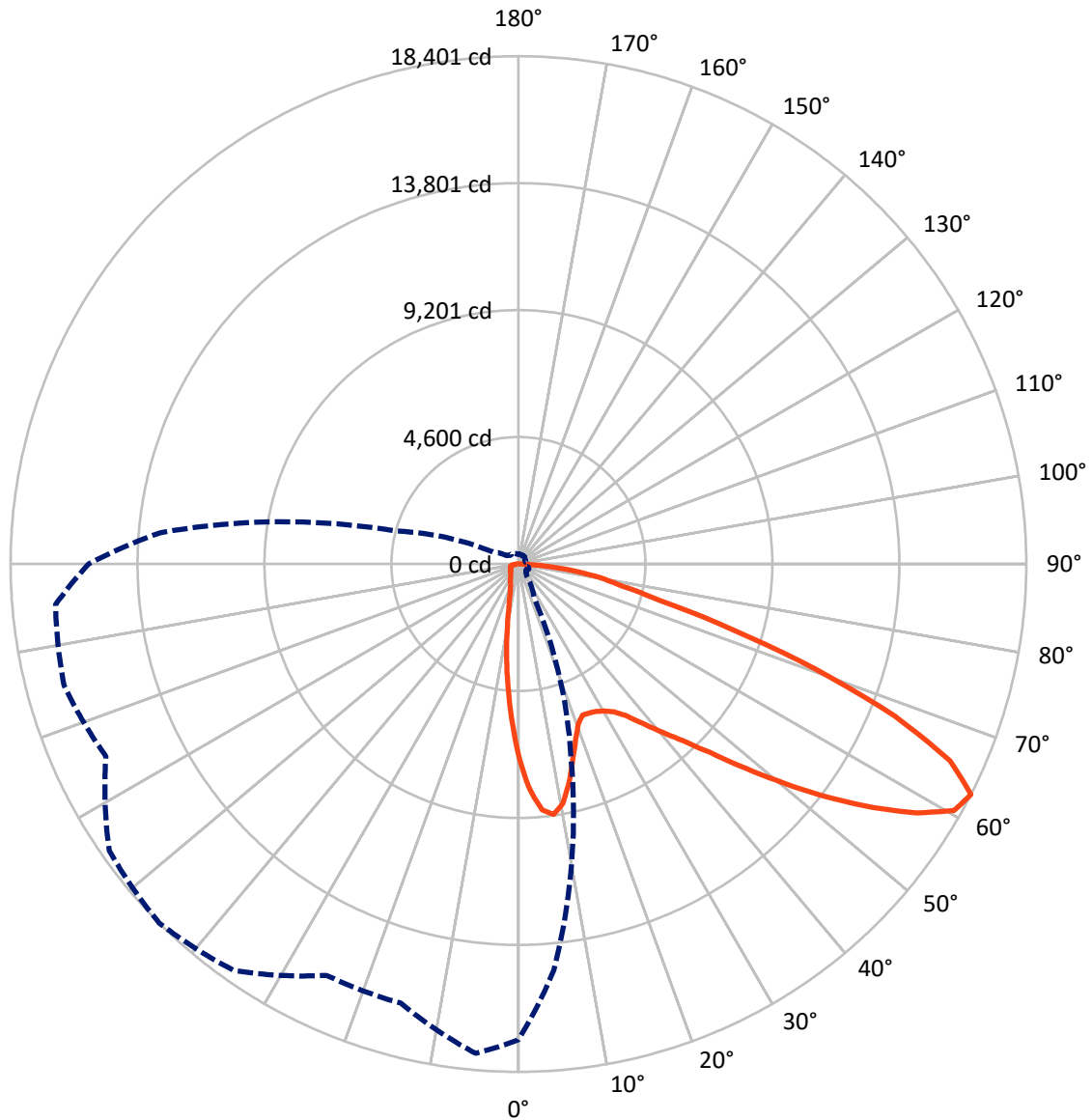


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269494

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269494

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3504.9	0.0	3504.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17674.5	0.0	17674.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	21179.4	0.0	21179.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.9	2.5
10°-20°	955.2	4.5
20°-30°	1392.6	6.6
30°-40°	2144.9	10.1
40°-50°	3156.7	14.9
50°-60°	4630.2	21.9
60°-70°	5175.9	24.4
70°-80°	2534.0	12.0
80°-90°	669.0	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°	21179.4	100.0
0°-180°	21179.4	100.0

Coefficient of Utilization



REPORT NUMBER: P269494

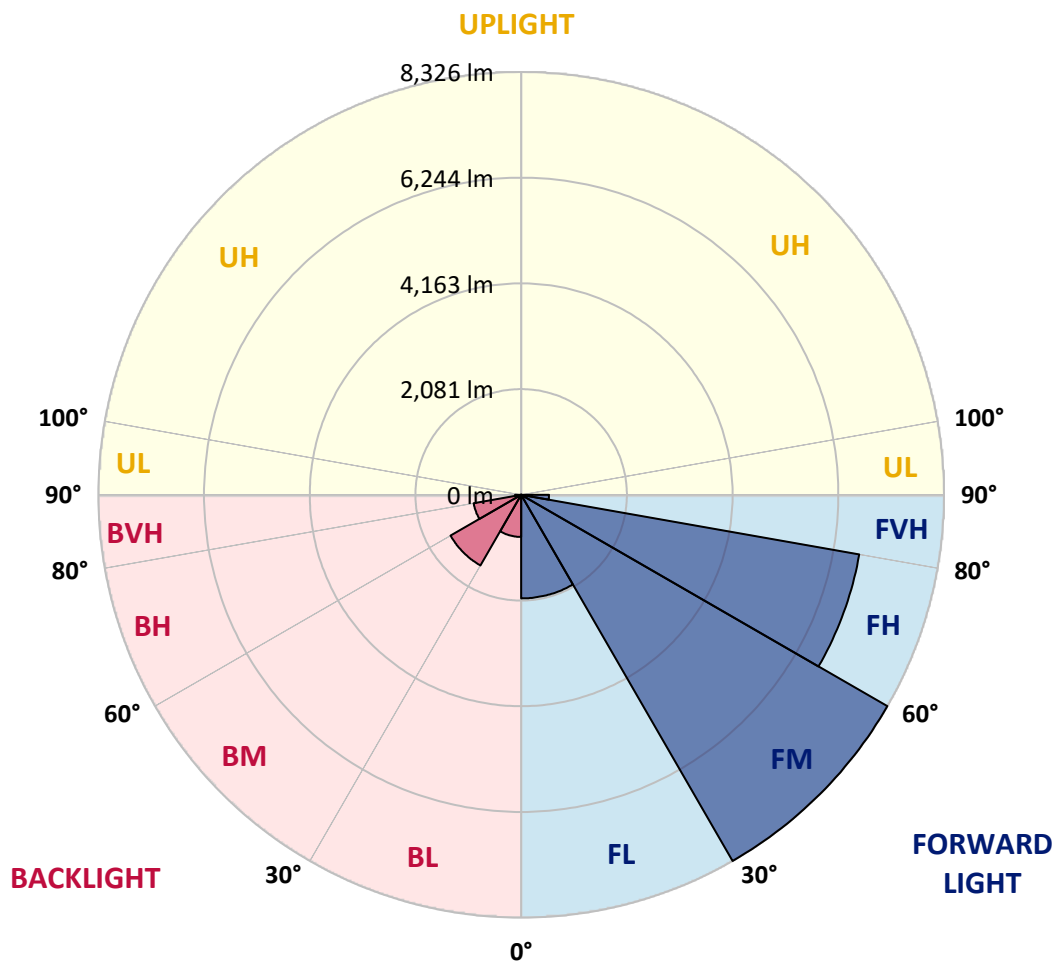
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2039.5	9.6			
FM (30°-60°)	8325.8	39.3			
FH (60°-80°)	6759.7	31.9			G3/7500
FVH (80°-90°)	549.5	2.6			G4/750
BL (0°-30°)	829.2	3.9	B2/1000		
BM (30°-60°)	1605.9	7.6	B2/2500		
BH (60°-80°)	950.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	119.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P269494

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4
2.5°	7434.9	7283.5	7032.1	6770.2	6610.6	6424.4	6278.9	6150.8	5894.7	5844.6	5889.9
5°	6991.4	6687.5	6213.7	5736.2	5418.4	5077.3	4812.0	4598.9	4274.0	4217.0	4285.6
7.5°	6280.1	5916.7	5290.4	4681.4	4232.1	3805.9	3519.6	3291.4	3037.6	2928.1	2935.1
10°	5666.5	5256.6	4516.1	3853.6	3485.9	3198.2	2957.2	2723.2	2465.8	2297.1	2250.6
12.5°	5322.9	4851.4	3998.0	3406.6	3065.5	2762.7	2503.1	2252.8	1978.1	1805.8	1756.8
15°	5263.6	4751.3	3803.7	3120.3	2692.8	2309.9	2003.7	1724.2	1441.3	1301.6	1272.4
17.5°	5521.0	4930.6	3740.7	2865.2	2342.5	1869.8	1493.7	1181.7	951.1	881.3	875.5
20°	6014.5	5275.2	3732.5	2625.3	1996.8	1442.5	1040.9	813.9	712.5	692.8	693.9
22.5°	6707.4	5809.7	3832.8	2444.9	1678.8	1075.8	782.3	681.0	641.5	622.9	622.9
25°	7603.8	6545.5	4063.3	2313.3	1403.0	859.1	690.3	629.8	592.6	579.8	582.1
27.5°	8472.4	7261.4	4331.1	2209.8	1222.5	780.1	654.3	599.6	567.0	554.2	560.1
30°	9150.0	7897.2	4554.5	2068.8	1130.4	757.9	667.1	611.2	564.7	544.9	546.0
32.5°	9711.0	8453.7	4742.1	1967.6	1049.0	649.7	575.2	550.8	544.9	521.6	510.0
35°	10428.2	9060.2	4867.7	1970.0	1010.6	579.8	512.3	469.2	437.7	411.0	411.0
37.5°	11268.9	9756.5	5001.7	1996.8	996.6	539.1	490.1	447.0	418.0	392.4	387.7
40°	12100.2	10438.8	5123.9	2022.4	988.5	514.5	472.7	433.2	406.4	380.7	373.8
42.5°	12806.9	10999.9	5233.3	2035.1	960.5	512.3	459.9	423.8	398.2	370.2	363.3
45°	13329.6	11470.3	5350.9	2055.0	932.6	521.6	459.9	422.7	391.2	364.4	357.4
47.5°	13796.4	12022.1	5547.8	2055.0	898.8	504.0	475.1	423.8	390.0	362.0	356.3
50°	14421.7	12778.8	5920.3	2007.3	851.1	485.5	500.6	419.1	379.5	357.4	350.5
52.5°	15283.3	13748.6	6511.8	1924.4	777.8	449.4	497.1	416.9	369.1	345.8	337.7
55°	16301.9	14787.3	7156.6	1828.0	668.2	423.8	479.6	411.0	357.4	331.8	323.7
57.5°	17097.1	15502.1	7610.8	1678.8	572.8	409.8	425.0	405.1	343.4	316.7	309.6
60°	17413.9	15474.2	7735.3	1479.8	526.2	398.2	371.4	454.1	331.8	305.1	296.9
62.5°	17242.6	14759.3	7386.0	1340.0	515.7	383.0	348.2	420.2	322.5	296.9	285.2
65°	16452.2	13492.6	6460.5	1302.8	546.0	367.9	333.0	329.5	309.6	285.2	273.7
67.5°	14730.1	11599.5	5172.8	1306.2	584.4	352.8	317.8	301.6	292.2	272.5	261.9
70°	11997.8	9170.8	3856.1	1315.6	604.3	335.2	301.6	284.0	273.7	253.9	246.9
72.5°	8821.5	7068.3	2801.3	1255.1	607.8	315.6	279.5	264.3	253.9	232.8	227.0
75°	6035.5	5406.8	1943.2	1039.7	529.7	287.5	254.9	240.9	234.0	208.3	205.0
77.5°	4409.1	4058.6	1243.4	772.0	408.6	252.7	224.7	214.2	209.6	181.6	177.0
80°	3538.2	3211.0	777.8	528.6	299.2	211.9	188.6	182.7	178.1	150.1	146.8
82.5°	2454.3	2150.5	499.5	343.4	224.7	164.2	148.9	146.8	139.6	114.2	110.6
85°	1294.6	1167.7	316.7	234.0	163.0	112.9	103.7	103.7	100.2	75.6	73.3
87.5°	165.3	269.0	160.6	122.3	89.7	50.0	50.0	48.9	52.5	43.1	37.3
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: P269494

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4
2.5°	5782.8	5838.8	5785.3	5788.7	5848.1	6025.0	6105.4	6171.7	6242.7	6289.4	6310.2
5°	4191.3	4321.7	4365.9	4459.0	4596.4	4822.5	4912.0	4977.1	5020.3	5045.9	5056.4
7.5°	2866.4	2945.6	3034.0	3184.2	3483.4	3616.1	3675.5	3660.5	3611.5	3594.1	3576.6
10°	2160.9	2129.4	2113.2	2195.7	2438.0	2571.8	2613.8	2573.0	2546.2	2552.1	2581.2
12.5°	1674.3	1619.5	1553.1	1543.7	1703.2	1823.2	1850.0	1852.3	1901.3	1944.3	2008.3
15°	1220.2	1214.2	1181.7	1162.0	1252.7	1350.5	1362.2	1383.1	1427.3	1458.8	1514.7
17.5°	860.3	891.7	917.3	930.3	998.9	1068.9	1056.0	1045.4	1037.4	1037.4	1064.1
20°	693.9	714.8	747.5	784.7	854.6	903.4	872.1	830.2	799.9	790.5	794.0
22.5°	625.2	641.5	660.2	692.8	755.7	789.4	755.7	725.3	695.1	684.6	681.0
25°	590.2	611.2	628.8	653.2	699.7	723.0	690.3	668.2	649.7	636.9	627.6
27.5°	570.6	589.1	593.8	605.4	645.1	666.0	649.7	640.3	628.8	617.0	605.4
30°	549.6	546.0	537.8	539.1	570.6	591.4	590.2	592.6	591.4	587.9	585.6
32.5°	501.9	494.7	487.8	494.7	523.9	542.5	543.7	548.3	548.3	547.2	556.5
35°	418.0	430.7	438.9	459.9	494.7	511.1	504.0	492.5	471.5	458.8	457.5
37.5°	386.5	388.8	402.8	431.9	470.4	485.5	475.1	448.3	434.3	431.9	435.4
40°	371.4	373.8	381.9	408.6	447.0	462.2	452.8	433.2	420.2	419.1	425.0
42.5°	360.8	363.3	367.9	386.5	418.0	436.5	437.7	423.8	408.6	409.8	415.6
45°	355.1	356.3	355.1	364.4	393.5	415.6	425.0	415.6	402.8	405.1	412.1
47.5°	353.9	350.5	345.8	348.2	378.4	400.6	412.1	408.6	402.8	405.1	411.0
50°	349.4	341.1	335.2	334.1	364.4	387.7	398.2	398.2	400.6	405.1	411.0
52.5°	335.2	325.9	325.9	322.5	355.1	377.2	384.2	385.4	388.8	397.1	405.1
55°	317.8	314.3	317.8	312.0	348.2	369.1	372.5	375.0	377.2	384.2	395.9
57.5°	302.6	298.1	306.2	303.8	342.3	360.8	360.8	365.6	365.6	375.0	384.2
60°	294.6	285.2	288.7	291.1	334.1	353.9	351.5	356.3	358.7	366.8	373.8
62.5°	284.0	275.9	275.9	281.8	324.8	343.4	342.3	345.8	355.1	357.4	364.4
65°	271.3	267.8	264.3	271.3	315.6	331.8	333.0	337.7	345.8	348.2	353.9
67.5°	258.4	259.6	252.7	259.6	307.4	320.2	320.2	329.5	333.0	337.7	343.4
70°	244.5	245.6	239.8	248.0	301.6	307.4	306.2	319.0	321.4	324.8	330.7
72.5°	227.0	227.0	224.7	236.3	292.2	294.6	292.2	302.6	303.8	307.4	309.6
75°	208.3	208.3	206.2	222.4	286.4	280.6	273.7	281.8	284.0	286.4	286.4
77.5°	184.0	186.3	186.3	206.2	266.5	274.7	251.4	256.1	259.6	260.8	257.4
80°	153.7	159.4	161.9	187.4	223.6	253.9	224.7	228.2	229.3	229.3	224.7
82.5°	117.6	128.1	133.8	161.9	171.1	213.1	195.7	199.1	195.7	188.6	186.3
85°	81.4	95.5	102.4	123.3	129.3	164.2	163.0	163.0	156.0	146.8	145.5
87.5°	44.2	52.5	57.0	73.3	88.6	110.6	120.0	116.4	110.6	104.8	105.9
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: P269494

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027-600

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4
2.5°	6419.7	6578.1	6830.7	7023.9	7218.4	7405.8	7608.5	7763.3	7894.8	7946.0	8102.2
5°	5162.3	5360.2	5599.0	6029.8	6334.8	6671.3	7060.0	7574.7	7772.6	8046.2	8494.5
7.5°	3650.0	3829.3	4213.5	4561.6	4993.5	5469.7	5994.7	6704.9	6964.6	7403.6	8133.6
10°	2725.5	2934.0	3242.4	3535.9	3916.6	4403.2	5006.3	5800.4	6115.8	6592.0	7432.7
12.5°	2195.7	2441.5	2768.5	3044.5	3339.1	3682.5	4268.1	5139.1	5561.6	5978.5	6828.3
15°	1686.9	1944.3	2248.2	2598.6	2923.4	3293.6	3907.3	4859.7	5346.4	5780.6	6505.9
17.5°	1167.7	1387.8	1770.9	2136.3	2552.1	3025.9	3807.1	4918.9	5500.0	6000.6	6561.8
20°	827.8	953.6	1267.9	1691.7	2209.8	2804.7	3788.5	5231.0	5986.7	6558.3	6920.4
22.5°	696.2	742.8	925.7	1314.4	1912.9	2639.4	3853.6	5668.8	6643.2	7373.3	7492.0
25°	634.6	662.5	757.9	1031.6	1648.6	2519.4	4073.8	6320.7	7455.9	8188.2	8167.3
27.5°	600.7	629.8	692.8	870.8	1449.5	2444.9	4293.8	7093.8	8385.0	9073.2	8812.3
30°	590.2	629.8	696.2	820.8	1307.5	2327.4	4474.3	7772.6	9099.8	9670.3	9105.7
32.5°	582.1	587.9	618.3	707.9	1172.4	2190.0	4596.4	8381.5	9799.6	10238.5	9528.3
35°	470.4	499.5	548.3	634.6	1093.2	2107.3	4596.4	8906.5	10488.8	10812.4	9931.1
37.5°	452.8	478.4	521.6	594.9	1049.0	2066.6	4504.6	9413.0	11193.2	11463.4	10263.0
40°	443.7	464.6	505.2	564.7	1030.4	2020.0	4370.7	9860.2	11881.3	12115.4	10572.6
42.5°	436.5	455.3	493.7	546.0	1005.9	1968.7	4262.4	10218.7	12478.5	12671.9	10868.4
45°	433.2	452.8	494.7	555.3	957.1	1901.3	4226.3	10606.4	12969.9	13136.4	11188.5
47.5°	433.2	456.3	500.6	575.2	898.8	1831.4	4339.3	11117.6	13434.4	13515.9	11565.8
50°	429.6	455.3	517.0	555.3	813.9	1742.9	4604.6	11761.4	13937.4	13946.6	12043.0
52.5°	422.7	452.8	556.5	543.7	715.9	1626.6	4963.2	12587.9	14681.3	14737.2	12790.5
55°	414.5	449.4	546.0	517.0	635.7	1488.0	5256.6	13592.8	15726.7	15881.7	13889.7
57.5°	404.0	444.8	528.6	479.6	583.3	1309.8	5362.6	14328.5	16456.8	16845.6	15128.4
60°	394.6	441.2	477.4	457.5	550.8	1159.6	5157.7	14183.0	16406.7	17245.0	16226.3
62.5°	385.4	444.8	435.4	443.7	535.6	1063.0	4622.0	13017.6	15576.6	16832.9	17040.0
65°	375.0	413.3	411.0	431.9	532.1	1024.5	3831.6	11270.0	13972.2	15530.1	17232.1
67.5°	360.8	381.9	393.5	416.9	543.7	990.8	3092.2	9296.6	11742.7	13577.6	16230.9
70°	345.8	363.3	376.1	398.2	536.7	975.6	2571.8	7331.3	9317.6	11128.1	14255.3
72.5°	325.9	341.1	352.8	373.8	529.7	967.6	2172.6	5904.0	6956.5	8266.3	11590.2
75°	302.6	316.7	324.8	345.8	507.6	886.0	1707.9	4995.8	5205.4	5750.3	9231.4
77.5°	275.9	286.4	293.3	316.7	449.4	737.0	1235.3	3853.6	4042.4	4175.1	7077.6
80°	244.5	254.9	258.4	280.6	372.5	576.4	805.7	2846.5	3023.5	3053.9	4622.0
82.5°	208.3	218.8	218.8	239.8	305.1	414.5	528.6	1950.1	1985.1	2087.5	3267.0
85°	167.7	175.8	175.8	186.3	236.3	309.6	363.3	979.2	968.6	1106.1	2830.3
87.5°	120.0	125.8	131.5	133.8	168.8	205.0	218.8	298.1	196.8	225.8	1817.5
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: P269494

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4
2.5°	8219.8	8286.1	8218.6	8169.6	7958.9	7785.4	7553.7	7434.9
5°	8835.5	9004.4	8947.4	8742.5	8302.3	7807.4	7245.2	6991.4
7.5°	8761.1	9153.4	9162.7	8779.7	8131.2	7402.4	6640.9	6280.1
10°	8181.3	8683.0	8826.2	8454.8	7766.7	6951.9	6078.7	5666.5
12.5°	7533.9	8025.3	8134.7	8006.7	7431.5	6613.1	5727.0	5322.9
15°	7004.2	7224.2	7354.7	7466.4	7144.0	6477.9	5707.2	5263.6
17.5°	6681.8	6657.2	6694.4	6888.9	6943.7	6632.7	6009.9	5521.0
20°	6565.3	6191.6	6182.2	6450.0	6849.3	7001.8	6601.4	6014.5
22.5°	6629.3	6023.9	5947.0	6264.9	6899.4	7533.9	7376.7	6707.4
25°	6850.6	6037.9	5976.2	6283.6	7081.0	8100.9	8213.8	7603.8
27.5°	7198.6	6126.4	6044.9	6360.4	7322.1	8577.0	9038.1	8472.4
30°	7529.2	6280.1	6178.7	6511.8	7542.1	8765.8	9543.5	9150.0
32.5°	7931.0	6567.6	6389.5	6790.0	7814.5	9066.1	9994.1	9711.0
35°	8324.5	6977.5	6756.2	7219.6	8118.4	9439.7	10508.6	10428.2
37.5°	8756.4	7513.0	7330.2	7774.9	8534.0	9792.7	11165.3	11268.9
40°	9217.5	8223.2	8006.7	8585.2	9179.1	10235.0	11851.0	12100.2
42.5°	9682.0	9011.3	8752.9	9339.7	9888.1	10671.7	12437.8	12806.9
45°	10214.1	9867.2	9744.9	10379.3	10569.2	11087.2	12870.8	13329.6
47.5°	10833.4	10838.1	11034.9	11288.7	11256.0	11557.7	13306.4	13796.4
50°	11556.4	12050.0	12484.4	12653.2	11963.9	12062.9	13910.6	14421.7
52.5°	12424.9	13499.5	14037.5	13926.9	12726.5	12679.9	14867.6	15283.3
55°	13511.2	15034.0	15568.4	15489.4	13603.3	13520.5	16059.8	16301.9
57.5°	14768.7	16520.9	17012.1	16656.0	14655.7	14442.6	17045.9	17097.1
60°	15873.5	17699.0	18129.9	17735.1	15717.6	15424.1	17661.8	17413.9
62.5°	16488.2	18098.4	18401.2	17976.2	16445.2	16469.6	17797.0	17242.6
65°	16213.5	17088.9	17186.8	17151.9	16257.7	17076.2	17311.3	16452.2
67.5°	14709.2	14536.9	14701.1	14928.2	14651.0	16277.5	15966.7	14730.1
70°	12059.3	11112.8	11440.0	11592.5	11718.3	14007.2	13858.2	11997.8
72.5°	9088.2	7785.4	8043.9	8012.4	8594.5	11235.1	10777.5	8821.5
75°	6439.5	5278.8	5311.4	5298.6	5997.2	8790.2	7804.0	6035.5
77.5°	4505.7	3824.7	3842.1	3914.3	4031.9	6629.3	5575.6	4409.1
80°	3098.1	2902.6	2999.1	3005.0	2794.2	4453.3	4119.2	3538.2
82.5°	2307.6	2017.7	1994.3	2028.2	2190.0	3608.0	3165.6	2454.3
85°	1889.6	1194.6	960.5	1203.9	1940.8	3573.1	2102.7	1294.6
87.5°	1064.1	567.0	256.1	475.1	774.2	2365.7	607.8	165.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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