

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: P269416

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269416
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-06-LED-E1-SLR-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 29818.4 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
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

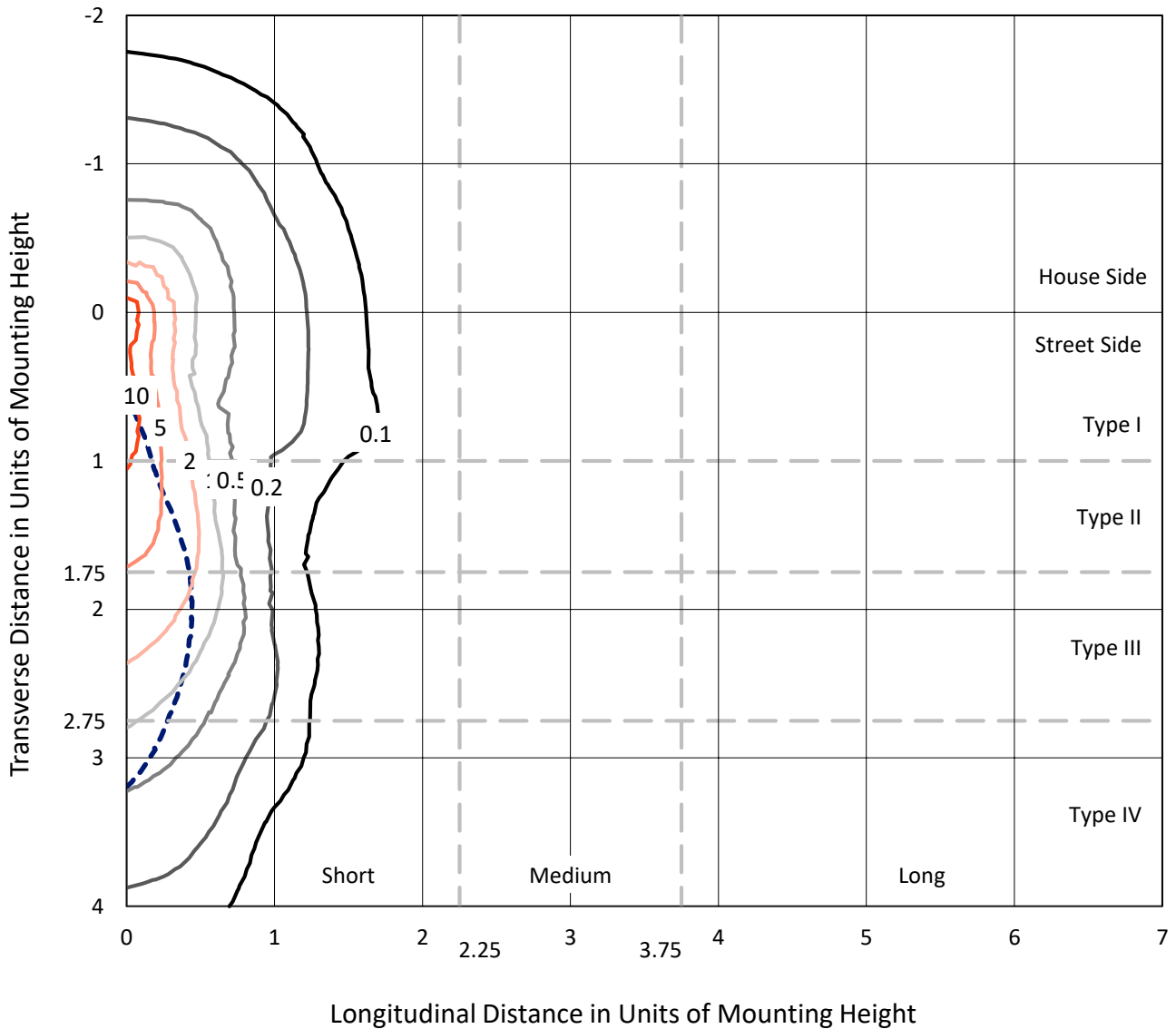


REPORT NUMBER: P269416

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

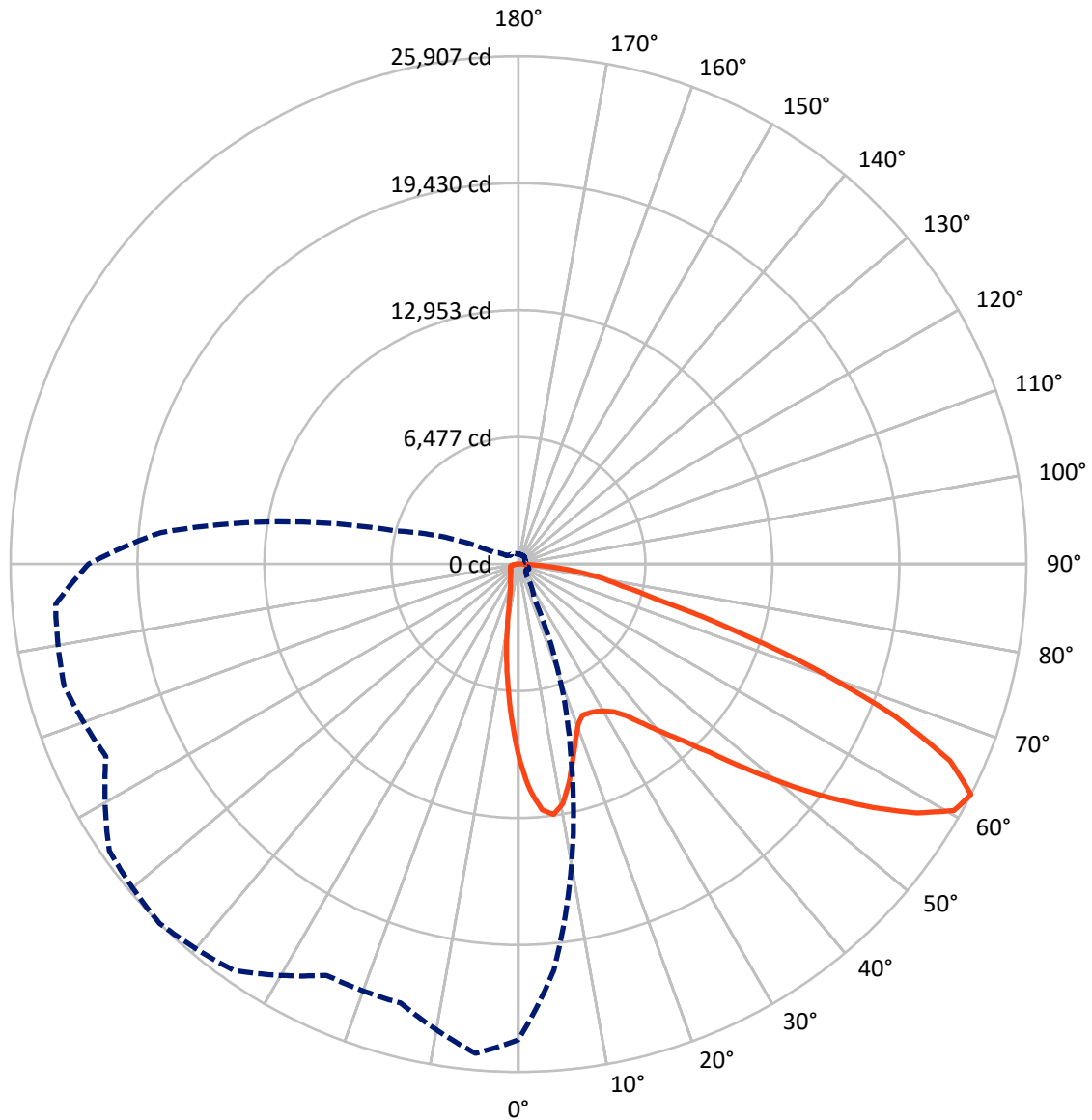


Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269416

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269416

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4934.5	0.0	4934.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24883.9	0.0	24883.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	29818.4	0.0	29818.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.4	2.5
10°-20°	1344.8	4.5
20°-30°	1960.7	6.6
30°-40°	3019.7	10.1
40°-50°	4444.3	14.9
50°-60°	6518.8	21.9
60°-70°	7287.1	24.4
70°-80°	3567.7	12.0
80°-90°	941.9	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°	29818.4	100.0
0°-180°	29818.4	100.0



REPORT NUMBER: P269416

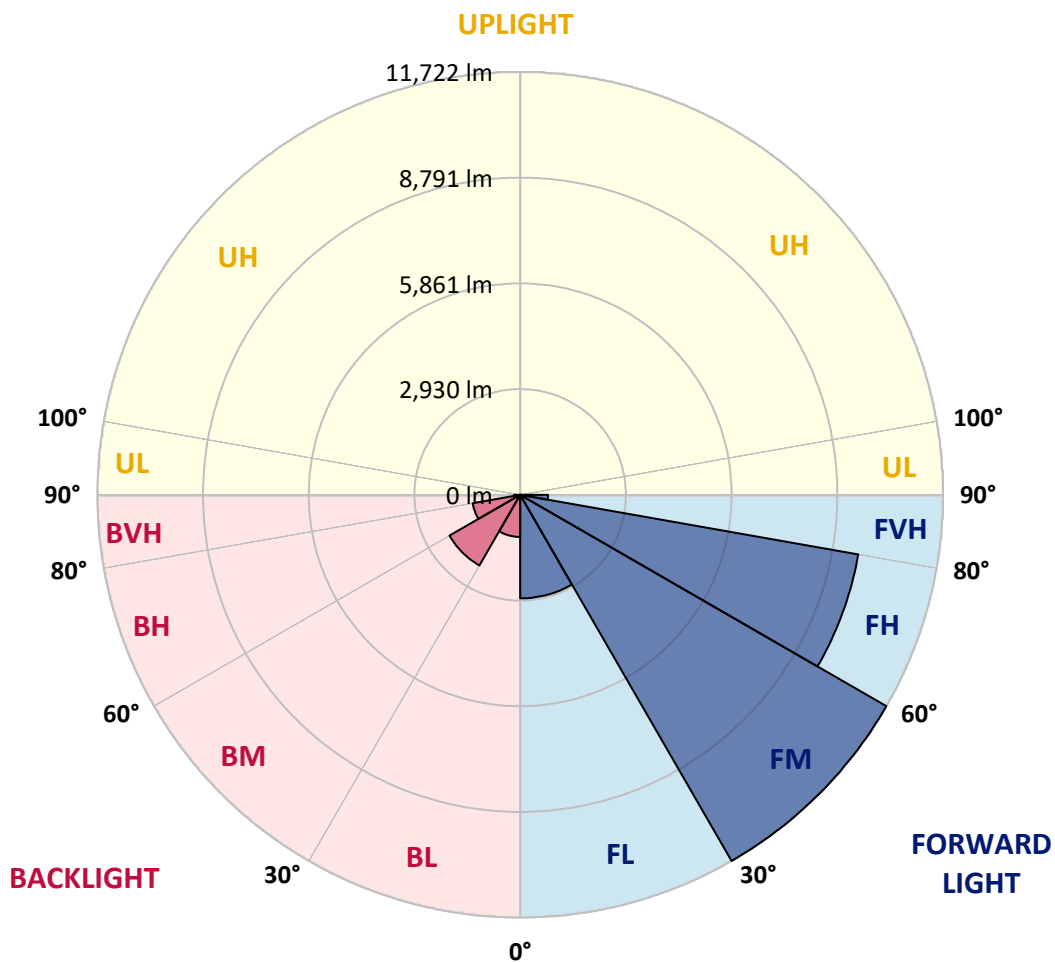
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2871.4	9.6			
FM	(30°-60°)	11721.9	39.3			
FH	(60°-80°)	9517.0	31.9			G4/12000
FVH	(80°-90°)	773.6	2.6			G5
BL	(0°-30°)	1167.4	3.9	B3/2500		
BM	(30°-60°)	2261.0	7.6	B2/2500		
BH	(60°-80°)	1337.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	168.4	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: P269416

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2
2.5°	10467.7	10254.5	9900.5	9531.6	9307.1	9044.9	8840.0	8659.8	8299.0	8228.6	8292.6
5°	9843.2	9415.3	8748.1	8076.1	7628.6	7148.4	6774.7	6474.7	6017.3	5937.0	6033.7
7.5°	8841.6	8330.3	7448.3	6591.0	5958.4	5358.4	4955.2	4633.8	4276.7	4122.5	4132.4
10°	7977.8	7400.7	6358.4	5425.7	4907.6	4502.8	4163.5	3834.0	3471.7	3234.1	3168.5
12.5°	7494.2	6830.4	5628.9	4796.2	4315.8	3889.8	3524.2	3171.7	2784.9	2542.4	2473.6
15°	7410.7	6689.4	5355.2	4392.9	3791.3	3252.0	2820.9	2427.6	2029.4	1832.6	1791.6
17.5°	7772.9	6941.8	5266.7	4034.0	3297.9	2632.6	2103.0	1663.8	1339.3	1240.9	1232.7
20°	8468.0	7427.0	5255.2	3696.3	2811.2	2030.9	1465.5	1145.8	1003.1	975.3	976.9
22.5°	9443.3	8179.3	5396.1	3442.2	2363.7	1514.6	1101.5	958.9	903.2	876.9	876.9
25°	10705.3	9215.4	5720.6	3257.1	1975.3	1209.7	972.1	886.7	834.3	816.3	819.6
27.5°	11928.1	10223.4	6097.6	3111.1	1721.2	1098.3	921.2	844.1	798.2	780.3	788.4
30°	12882.1	11118.4	6412.5	2912.8	1591.6	1067.0	939.3	860.5	795.0	767.2	768.8
32.5°	13672.3	11902.0	6676.4	2770.2	1476.9	914.7	809.7	775.2	767.2	734.4	717.9
35°	14681.9	12755.9	6853.3	2773.4	1422.7	816.3	721.2	660.6	616.3	578.6	578.6
37.5°	15865.3	13736.2	7041.9	2811.2	1403.2	758.9	690.1	629.4	588.5	552.4	545.8
40°	17035.7	14696.7	7213.8	2847.2	1391.7	724.6	665.6	609.8	572.1	536.0	526.1
42.5°	18030.7	15486.8	7368.0	2865.2	1352.3	721.2	647.5	596.7	560.6	521.2	511.5
45°	18766.8	16149.0	7533.5	2893.1	1313.0	734.4	647.5	594.9	550.8	513.0	503.2
47.5°	19424.1	16926.0	7810.7	2893.1	1265.4	709.8	668.8	596.7	549.1	509.8	501.6
50°	20304.2	17991.3	8335.2	2825.9	1198.2	683.5	704.8	590.0	534.3	503.2	493.3
52.5°	21517.2	19356.8	9167.8	2709.5	1094.9	632.8	699.9	586.9	519.6	486.8	475.4
55°	22951.4	20818.8	10075.8	2573.5	940.9	596.7	675.3	578.6	503.2	467.2	455.7
57.5°	24071.1	21825.4	10715.2	2363.7	806.5	577.0	598.4	570.5	483.6	445.9	435.9
60°	24516.9	21786.1	10890.5	2083.3	740.9	560.6	523.0	639.2	467.2	429.5	418.0
62.5°	24275.8	20779.7	10398.8	1886.7	726.1	539.3	490.1	591.8	454.1	418.0	401.6
65°	23162.9	18996.2	9095.7	1834.2	768.8	518.0	468.7	463.9	435.9	401.6	385.3
67.5°	20738.6	16330.9	7282.7	1839.1	822.8	496.7	447.4	424.5	411.5	383.5	368.8
70°	16891.5	12911.7	5428.8	1852.2	850.8	472.1	424.5	399.9	385.3	357.3	347.6
72.5°	12419.8	9951.3	3943.7	1767.1	855.6	444.2	393.4	372.1	357.3	327.8	319.6
75°	8497.3	7612.2	2735.8	1463.8	745.9	404.9	359.0	339.3	329.5	293.3	288.4
77.5°	6207.5	5714.1	1750.6	1086.8	575.4	355.6	316.4	301.7	295.1	255.7	249.2
80°	4981.5	4520.8	1094.9	744.2	421.2	298.3	265.5	257.4	250.7	211.5	206.5
82.5°	3455.3	3027.5	703.3	483.6	316.4	231.1	209.8	206.5	196.6	160.6	155.8
85°	1822.8	1644.1	445.9	329.5	229.4	159.0	145.9	145.9	140.9	106.5	103.2
87.5°	232.8	378.6	226.3	172.1	126.2	70.4	70.4	68.8	73.8	60.6	52.5
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: P269416

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2
2.5°	8141.7	8220.4	8144.9	8150.0	8233.4	8482.6	8595.7	8689.1	8789.1	8854.8	8884.2
5°	5901.0	6084.6	6146.8	6278.0	6471.4	6789.4	6915.6	7007.4	7068.0	7104.1	7118.9
7.5°	4035.5	4147.0	4271.6	4483.1	4904.3	5091.2	5174.9	5153.4	5084.6	5060.2	5035.4
10°	3042.3	2998.1	2975.0	3091.4	3432.5	3620.9	3679.8	3622.5	3584.9	3593.0	3634.1
12.5°	2357.2	2280.1	2186.7	2173.4	2398.0	2566.9	2604.6	2607.9	2676.7	2737.3	2827.5
15°	1717.7	1709.7	1663.8	1635.9	1763.7	1901.4	1917.8	1947.3	2009.6	2053.9	2132.5
17.5°	1211.4	1255.7	1291.7	1309.6	1406.3	1504.8	1486.8	1472.0	1460.5	1460.5	1498.3
20°	976.9	1006.5	1052.4	1104.7	1203.1	1272.0	1227.8	1168.8	1126.0	1113.0	1117.9
22.5°	880.2	903.2	929.3	975.3	1063.9	1111.4	1063.9	1021.3	978.6	963.8	958.9
25°	831.0	860.5	885.1	919.5	985.1	1017.9	972.1	940.9	914.7	896.6	883.6
27.5°	803.2	829.5	836.0	852.3	908.0	937.7	914.7	901.4	885.1	868.8	852.3
30°	773.7	768.8	757.4	758.9	803.2	832.6	831.0	834.3	832.6	827.8	824.6
32.5°	706.4	696.6	686.8	696.6	737.6	763.9	765.4	772.1	772.1	770.3	783.5
35°	588.5	606.4	617.9	647.5	696.6	719.6	709.8	693.3	663.8	645.8	644.2
37.5°	544.3	547.4	567.1	608.2	662.2	683.5	668.8	631.1	611.3	608.2	613.1
40°	523.0	526.1	537.6	575.4	629.4	650.7	637.6	609.8	591.8	590.0	598.4
42.5°	508.1	511.5	518.0	544.3	588.5	614.7	616.3	596.7	575.4	577.0	585.2
45°	499.9	501.6	499.9	513.0	554.1	585.2	598.4	585.2	567.1	570.5	580.2
47.5°	498.3	493.3	486.8	490.1	532.8	563.9	580.2	575.4	567.1	570.5	578.6
50°	491.7	480.2	472.1	470.4	513.0	545.8	560.6	560.6	563.9	570.5	578.6
52.5°	472.1	458.9	458.9	454.1	499.9	531.1	540.9	542.5	547.4	558.9	570.5
55°	447.4	442.5	447.4	439.4	490.1	519.6	524.5	527.8	531.1	540.9	557.3
57.5°	426.2	419.6	431.0	427.9	481.9	508.1	508.1	514.6	514.6	527.8	540.9
60°	414.7	401.6	406.6	409.7	470.4	498.3	495.1	501.6	504.8	516.3	526.1
62.5°	399.9	388.4	388.4	396.7	457.3	483.6	481.9	486.8	499.9	503.2	513.0
65°	381.9	377.0	372.1	381.9	444.2	467.2	468.7	475.4	486.8	490.1	498.3
67.5°	364.0	365.5	355.6	365.5	432.8	450.8	450.8	463.9	468.7	475.4	483.6
70°	344.2	345.8	337.7	349.1	424.5	432.8	431.0	449.2	452.3	457.3	465.5
72.5°	319.6	319.6	316.4	332.7	411.5	414.7	411.5	426.2	427.9	432.8	435.9
75°	293.3	293.3	290.2	313.1	403.2	395.1	385.3	396.7	399.9	403.2	403.2
77.5°	259.0	262.2	262.2	290.2	375.3	386.8	354.0	360.6	365.5	367.1	362.2
80°	216.4	224.5	227.8	263.9	314.8	357.3	316.4	321.2	322.9	322.9	316.4
82.5°	165.6	180.3	188.6	227.8	240.9	299.9	275.4	280.4	275.4	265.5	262.2
85°	114.8	134.3	144.3	173.7	181.9	231.1	229.4	229.4	219.6	206.5	205.0
87.5°	62.3	73.8	80.3	103.2	124.5	155.8	168.8	163.9	155.8	147.5	149.2
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: P269416

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2
2.5°	9038.2	9261.3	9617.0	9889.0	10162.7	10426.6	10711.8	10929.9	11115.1	11187.2	11406.9
5°	7268.0	7546.8	7882.6	8489.3	8918.6	9392.4	9939.8	10664.4	10943.1	11328.3	11959.2
7.5°	5138.8	5391.2	5932.0	6422.3	7030.3	7700.8	8440.0	9439.8	9805.4	10423.5	11451.1
10°	3837.3	4130.6	4565.0	4978.0	5514.2	6199.4	7048.5	8166.3	8610.6	9280.8	10464.4
12.5°	3091.4	3437.4	3897.9	4286.4	4701.1	5184.7	6009.1	7235.3	7830.3	8417.1	9613.7
15°	2375.2	2737.3	3165.2	3658.5	4115.9	4637.2	5501.0	6841.9	7527.0	8138.5	9159.6
17.5°	1644.1	1953.9	2493.2	3007.9	3593.0	4260.1	5360.0	6925.5	7743.4	8448.2	9238.3
20°	1165.5	1342.4	1785.0	2381.6	3111.1	3948.7	5333.9	7364.8	8428.5	9233.4	9743.1
22.5°	980.2	1045.7	1303.1	1850.6	2693.1	3716.0	5425.7	7981.0	9353.1	10380.8	10548.0
25°	893.4	932.7	1067.0	1452.3	2321.0	3547.1	5735.4	8899.0	10497.1	11528.2	11498.7
27.5°	845.8	886.7	975.3	1226.0	2040.8	3442.2	6045.2	9987.4	11805.2	12774.0	12406.9
30°	831.0	886.7	980.2	1155.6	1840.7	3276.7	6299.3	10943.1	12811.6	13614.8	12819.8
32.5°	819.6	827.8	870.4	996.6	1650.6	3083.3	6471.4	11800.2	13796.8	14414.7	13414.8
35°	662.2	703.3	772.1	893.4	1539.2	2966.9	6471.4	12539.5	14767.1	15222.9	13981.9
37.5°	637.6	673.6	734.4	837.6	1476.9	2909.5	6341.9	13252.5	15758.8	16139.2	14449.1
40°	624.5	654.1	711.4	795.0	1450.7	2843.9	6153.4	13882.0	16727.6	17057.0	14885.2
42.5°	614.7	640.9	695.0	768.8	1416.3	2771.8	6000.9	14386.9	17568.5	17840.6	15301.5
45°	609.8	637.6	696.6	781.9	1347.4	2676.7	5950.2	14932.7	18260.1	18494.7	15752.3
47.5°	609.8	642.6	704.8	809.7	1265.4	2578.3	6109.2	15652.2	18914.3	19028.9	16283.3
50°	604.9	640.9	727.7	781.9	1145.8	2453.8	6482.9	16558.7	19622.3	19635.4	16955.5
52.5°	594.9	637.6	783.5	765.4	1008.1	2289.9	6987.7	17722.7	20669.8	20748.4	18007.8
55°	583.5	632.8	768.8	727.7	895.0	2094.8	7400.7	19137.1	22141.8	22359.7	19555.2
57.5°	568.7	626.2	744.2	675.3	821.2	1844.0	7550.0	20173.1	23169.4	23717.1	21299.3
60°	555.7	621.3	672.0	644.2	775.2	1632.6	7261.4	19968.2	23098.9	24279.2	22844.9
62.5°	542.5	626.2	613.1	624.5	753.9	1496.5	6507.4	18327.4	21930.3	23698.9	23990.8
65°	527.8	581.9	578.6	608.2	749.0	1442.5	5394.4	15867.0	19671.5	21864.7	24261.2
67.5°	508.1	537.6	554.1	586.9	765.4	1394.9	4353.5	13088.7	16532.5	19115.8	22851.4
70°	486.8	511.5	529.5	560.6	755.7	1373.6	3620.9	10321.7	13118.2	15667.1	20069.8
72.5°	458.9	480.2	496.7	526.1	745.9	1362.1	3058.6	8312.1	9794.0	11638.0	16317.8
75°	426.2	445.9	457.3	486.8	714.7	1247.3	2404.7	7033.5	7328.6	8095.7	12996.9
77.5°	388.4	403.2	413.1	445.9	632.8	1037.6	1739.2	5425.7	5691.1	5878.0	9964.4
80°	344.2	359.0	364.0	395.1	524.5	811.3	1134.3	4007.8	4256.9	4299.5	6507.4
82.5°	293.3	308.2	308.2	337.7	429.5	583.5	744.2	2745.6	2794.7	2939.1	4599.5
85°	236.1	247.6	247.6	262.2	332.7	435.9	511.5	1378.4	1363.7	1557.2	3984.8
87.5°	168.8	177.1	185.2	188.6	237.7	288.4	308.2	419.6	276.9	318.0	2558.7
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: P269416

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7027-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2
2.5°	11572.4	11665.8	11570.8	11502.0	11205.3	10961.1	10634.9	10467.7
5°	12439.5	12677.2	12596.9	12308.4	11688.8	10992.2	10200.4	9843.2
7.5°	12334.6	12887.1	12900.2	12360.9	11447.9	10421.7	9349.7	8841.6
10°	11518.3	12224.9	12426.4	11903.6	10934.8	9787.5	8558.1	7977.8
12.5°	10606.9	11298.7	11452.9	11272.6	10462.6	9310.5	8062.9	7494.2
15°	9861.1	10171.0	10354.6	10512.0	10057.9	9120.2	8035.2	7410.7
17.5°	9407.1	9372.6	9425.1	9698.9	9776.0	9338.3	8461.3	7772.9
20°	9243.2	8717.1	8703.9	9081.0	9643.1	9857.9	9294.0	8468.0
22.5°	9333.4	8481.0	8372.8	8820.3	9713.6	10606.9	10385.8	9443.3
25°	9644.8	8500.8	8413.7	8846.5	9969.4	11405.2	11564.2	10705.3
27.5°	10134.9	8625.3	8510.5	8954.8	10308.7	12075.6	12724.9	11928.1
30°	10600.4	8841.6	8698.9	9167.8	10618.4	12341.3	13436.2	12882.1
32.5°	11165.9	9246.4	8995.6	9559.6	11002.0	12764.0	14070.5	13672.3
35°	11719.9	9823.4	9512.1	10164.4	11429.9	13290.2	14795.1	14681.9
37.5°	12328.1	10577.5	10320.2	10946.2	12015.0	13786.9	15719.5	15865.3
40°	12977.3	11577.4	11272.6	12087.1	12923.0	14409.8	16684.9	17035.7
42.5°	13631.2	12687.1	12323.2	13149.3	13921.4	15024.5	17511.1	18030.7
45°	14380.2	13891.8	13719.8	14613.1	14880.2	15609.7	18120.9	18766.8
47.5°	15252.3	15258.9	15535.9	15893.3	15847.4	16271.9	18734.0	19424.1
50°	16270.3	16965.3	17576.6	17814.4	16843.9	16983.3	19584.7	20304.2
52.5°	17493.1	19006.0	19763.3	19607.6	17917.7	17852.0	20932.0	21517.2
55°	19022.4	21166.5	21918.9	21807.3	19152.0	19035.5	22610.5	22951.4
57.5°	20792.7	23259.6	23951.4	23449.7	20633.7	20333.8	23998.8	24071.1
60°	22348.3	24918.4	25525.0	24969.3	22128.6	21715.5	24866.1	24516.9
62.5°	23213.7	25480.8	25906.8	25308.6	23153.0	23187.5	25056.2	24275.8
65°	22826.9	24059.6	24197.3	24148.1	22889.3	24041.5	24372.6	23162.9
67.5°	20709.0	20466.5	20697.7	21017.3	20627.2	22917.0	22479.4	20738.6
70°	16978.3	15645.8	16106.3	16321.0	16498.1	19720.8	19510.8	16891.5
72.5°	12795.3	10961.1	11324.9	11280.6	12100.3	15817.8	15173.7	12419.8
75°	9066.1	7431.9	7477.9	7459.9	8443.3	12375.6	10987.3	8497.3
77.5°	6343.6	5384.6	5409.2	5510.8	5676.4	9333.4	7849.8	6207.5
80°	4361.8	4086.4	4222.5	4230.7	3933.9	6269.8	5799.4	4981.5
82.5°	3248.8	2840.7	2807.9	2855.4	3083.3	5079.7	4456.9	3455.3
85°	2660.3	1681.7	1352.3	1694.9	2732.5	5030.6	2960.4	1822.8
87.5°	1498.3	798.2	360.6	668.8	1090.1	3330.7	855.6	232.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)