

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: P269656

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269656
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-09-LED-E1-SLR-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 44571 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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

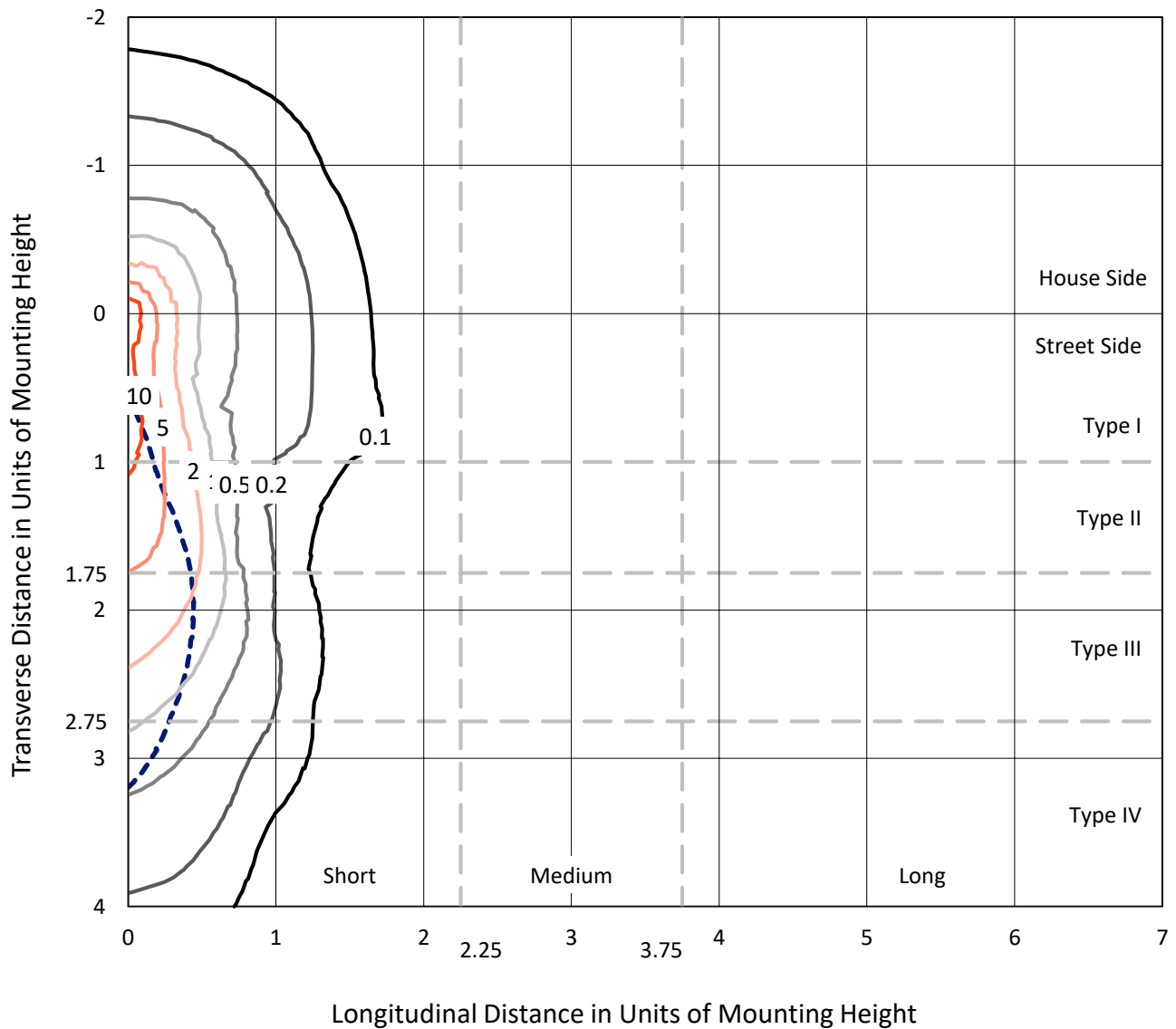


REPORT NUMBER: P269656

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

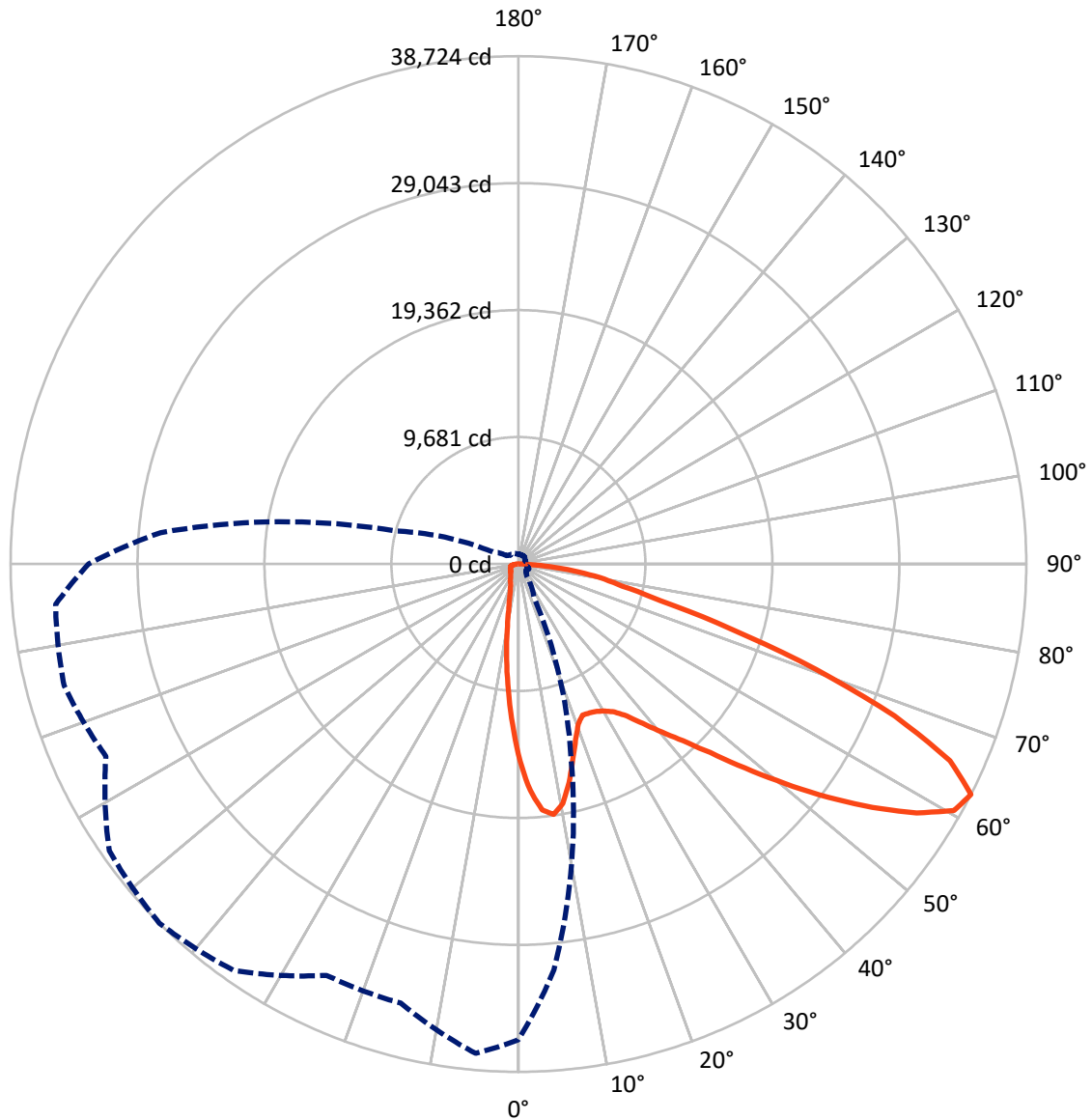


Based on 30 foot mounting height. Maximum calculated value = 16.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269656

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269656

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7375.9	0.0	7375.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	37195.1	0.0	37195.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	44571.0	0.0	44571.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1096.2	2.5
10°-20°	2010.1	4.5
20°-30°	2930.7	6.6
30°-40°	4513.8	10.1
40°-50°	6643.1	14.9
50°-60°	9744.0	21.9
60°-70°	10892.4	24.4
70°-80°	5332.8	12.0
80°-90°	1408.0	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°	44571.0	100.0
0°-180°	44571.0	100.0



REPORT NUMBER: P269656

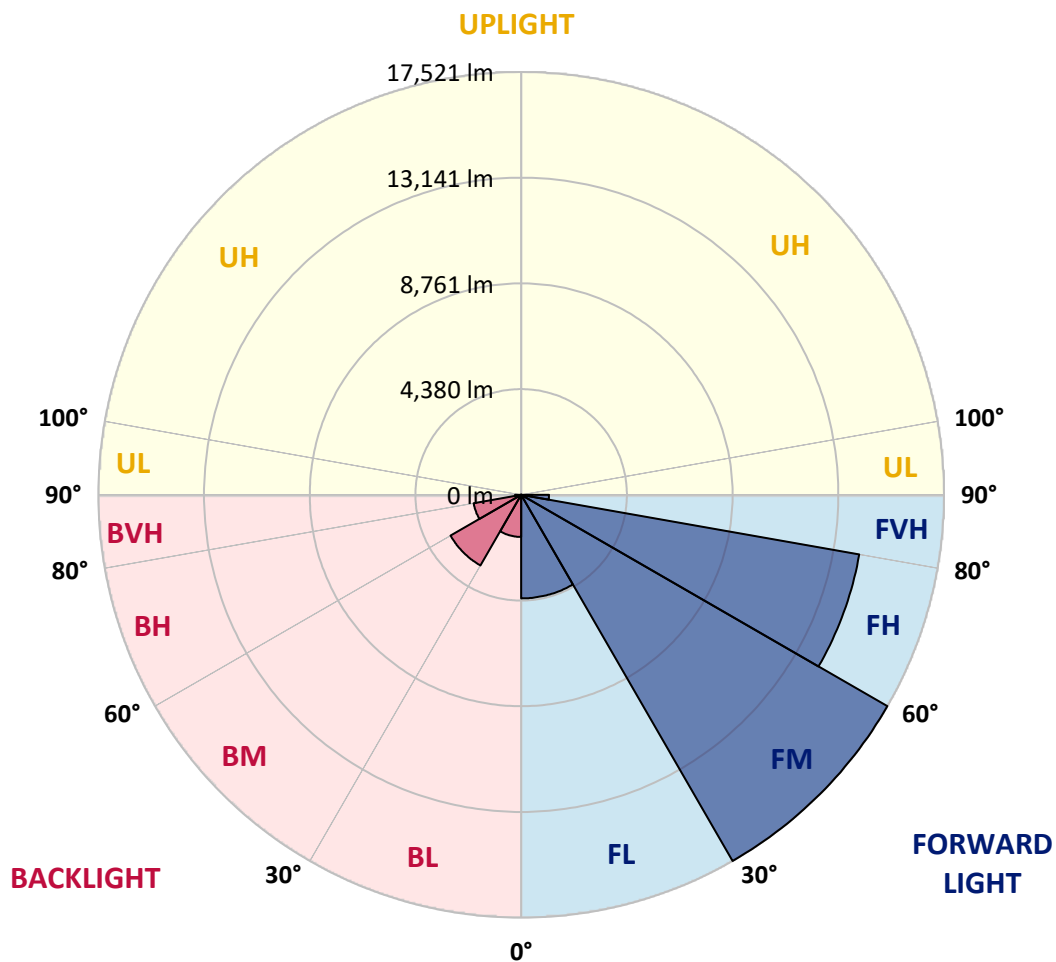
CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4292.0	9.6			
FM (30°-60°)	17521.3	39.3			
FH (60°-80°)	14225.5	31.9			G5
FVH (80°-90°)	1156.3	2.6			G5
BL (0°-30°)	1745.0	3.9	B3/2500		
BM (30°-60°)	3379.6	7.6	B3/5000		
BH (60°-80°)	1999.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	251.7	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





REPORT NUMBER: P269656

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5
2.5°	15646.5	15328.0	14798.8	14247.5	13911.8	13519.9	13213.6	12944.0	12405.1	12299.7	12395.3
5°	14713.0	14073.6	13076.4	12071.9	11402.9	10685.0	10126.5	9678.0	8994.4	8874.4	9019.0
7.5°	13216.0	12451.5	11133.5	9852.0	8906.2	8009.5	7406.7	6926.6	6392.3	6162.1	6176.7
10°	11924.8	11062.4	9504.1	8109.9	7335.6	6730.6	6223.4	5730.8	5189.4	4834.0	4736.1
12.5°	11202.0	10209.6	8413.7	7169.1	6451.2	5814.2	5267.8	4741.1	4162.7	3800.2	3697.2
15°	11077.0	9998.9	8004.5	6566.3	5667.1	4861.1	4216.6	3628.7	3033.2	2739.2	2677.9
17.5°	11618.5	10376.3	7872.2	6029.8	4929.7	3934.9	3143.4	2486.9	2001.8	1854.7	1842.6
20°	12657.4	11101.6	7855.0	5525.0	4202.0	3035.7	2190.3	1712.7	1499.5	1457.8	1460.3
22.5°	14115.2	12226.1	8065.8	5145.3	3533.0	2263.9	1646.6	1433.3	1350.1	1310.8	1310.8
25°	16001.8	13774.6	8551.0	4868.5	2952.4	1808.2	1452.9	1325.4	1247.0	1220.2	1225.1
27.5°	17829.6	15281.4	9114.6	4650.3	2572.7	1641.7	1377.0	1261.8	1193.2	1166.3	1178.4
30°	19255.6	16619.3	9584.9	4353.8	2379.2	1595.0	1404.0	1286.4	1188.3	1146.6	1149.1
32.5°	20436.5	17790.5	9979.5	4140.6	2207.6	1367.2	1210.3	1159.0	1146.6	1097.6	1073.1
35°	21945.9	19067.0	10244.0	4145.6	2126.6	1220.2	1078.1	987.3	921.2	864.9	864.9
37.5°	23714.8	20532.1	10525.8	4202.0	2097.4	1134.4	1031.6	940.9	879.6	825.7	815.9
40°	25464.3	21968.0	10783.1	4255.9	2080.1	1082.9	994.8	911.4	855.0	801.2	786.5
42.5°	26951.4	23148.9	11013.3	4282.8	2021.4	1078.1	967.8	891.8	837.9	779.1	764.5
45°	28051.6	24138.6	11260.9	4324.5	1962.5	1097.6	967.8	889.4	823.2	767.0	752.2
47.5°	29033.9	25300.0	11674.8	4324.5	1891.6	1060.9	999.6	891.8	820.8	762.0	749.7
50°	30349.7	26892.6	12459.0	4224.0	1791.0	1021.7	1053.5	882.0	798.8	752.2	737.5
52.5°	32162.8	28933.6	13703.6	4050.1	1636.7	945.7	1046.2	877.1	776.7	727.6	710.5
55°	34306.7	31119.2	15061.0	3846.7	1406.3	891.8	1009.4	864.9	752.2	698.3	681.2
57.5°	35980.2	32623.4	16016.5	3533.0	1205.4	862.5	894.4	852.6	722.7	666.5	651.7
60°	36646.5	32564.6	16278.6	3114.2	1107.5	837.9	781.5	955.5	698.3	641.8	624.9
62.5°	36286.4	31060.2	15543.6	2820.0	1085.4	806.0	732.6	884.6	678.7	624.9	600.2
65°	34622.7	28394.5	13595.8	2741.6	1149.1	774.2	700.8	693.4	651.7	600.2	575.8
67.5°	30999.0	24410.6	10885.9	2749.1	1230.0	742.4	668.9	634.7	615.0	573.3	551.3
70°	25248.7	19299.6	8114.7	2768.7	1271.6	705.7	634.7	597.8	575.8	534.1	519.4
72.5°	18564.6	14874.8	5894.9	2641.2	1278.9	663.9	588.0	556.2	534.1	490.0	477.8
75°	12701.5	11378.4	4089.3	2187.9	1114.7	605.2	536.6	507.2	492.5	438.6	431.2
77.5°	9278.7	8541.2	2616.8	1624.5	859.9	531.6	472.9	450.8	441.0	382.1	372.3
80°	7446.0	6757.5	1636.7	1112.3	629.7	445.9	397.0	384.7	374.9	316.1	308.7
82.5°	5164.9	4525.4	1051.0	722.7	472.9	345.5	313.6	308.7	294.0	240.0	232.8
85°	2724.6	2457.5	666.5	492.5	343.1	237.6	218.1	218.1	210.7	159.3	154.4
87.5°	348.0	566.0	338.1	257.3	188.6	105.3	105.3	102.9	110.2	90.6	78.4
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: P269656

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5
2.5°	12169.8	12287.3	12174.6	12182.0	12307.0	12679.4	12848.5	12988.1	13137.6	13235.5	13279.7
5°	8820.5	9094.9	9188.0	9384.1	9673.0	10148.4	10337.1	10474.2	10565.0	10618.9	10641.0
7.5°	6032.2	6198.8	6385.1	6701.0	7330.8	7610.1	7735.0	7703.2	7600.3	7563.5	7526.8
10°	4547.4	4481.3	4447.0	4620.9	5130.6	5412.4	5500.5	5414.9	5358.4	5370.6	5432.0
12.5°	3523.3	3408.1	3268.5	3248.9	3584.5	3836.9	3893.3	3898.1	4001.1	4091.7	4226.4
15°	2567.7	2555.5	2486.9	2445.2	2636.3	2842.1	2866.6	2910.8	3003.8	3070.0	3187.6
17.5°	1810.7	1876.7	1930.6	1957.6	2102.3	2249.3	2222.2	2200.2	2183.2	2183.2	2239.5
20°	1460.3	1504.4	1573.0	1651.4	1798.3	1901.4	1835.1	1746.9	1683.2	1663.7	1670.9
22.5°	1315.7	1350.1	1389.1	1457.8	1590.1	1661.1	1590.1	1526.4	1462.7	1440.7	1433.3
25°	1242.3	1286.4	1323.1	1374.5	1472.5	1521.5	1452.9	1406.3	1367.2	1340.2	1320.6
27.5°	1200.6	1239.8	1249.5	1274.1	1357.3	1401.4	1367.2	1347.5	1323.1	1298.6	1274.1
30°	1156.5	1149.1	1132.0	1134.4	1200.6	1244.7	1242.3	1247.0	1244.7	1237.3	1232.5
32.5°	1056.0	1041.3	1026.7	1041.3	1102.6	1141.7	1144.3	1154.1	1154.1	1151.5	1171.2
35°	879.6	906.6	923.6	967.8	1041.3	1075.6	1060.9	1036.5	992.3	965.4	963.0
37.5°	813.4	818.4	847.7	908.9	989.8	1021.7	999.6	943.3	913.8	908.9	916.4
40°	781.5	786.5	803.7	859.9	940.9	972.8	953.1	911.4	884.6	882.0	894.4
42.5°	759.5	764.5	774.2	813.4	879.6	918.7	921.2	891.8	859.9	862.5	874.7
45°	747.3	749.7	747.3	767.0	828.1	874.7	894.4	874.7	847.7	852.6	867.4
47.5°	744.9	737.5	727.6	732.6	796.3	842.8	867.4	859.9	847.7	852.6	864.9
50°	735.1	717.8	705.7	703.3	767.0	815.9	837.9	837.9	842.8	852.6	864.9
52.5°	705.7	686.0	686.0	678.7	747.3	793.8	808.6	811.0	818.4	835.6	852.6
55°	668.9	661.5	668.9	656.7	732.6	776.7	784.0	788.9	793.8	808.6	833.1
57.5°	637.1	627.2	644.4	639.5	720.4	759.5	759.5	769.4	769.4	788.9	808.6
60°	619.9	600.2	607.7	612.6	703.3	744.9	739.9	749.7	754.7	771.9	786.5
62.5°	597.8	580.7	580.7	592.9	683.6	722.7	720.4	727.6	747.3	752.2	767.0
65°	571.0	563.5	556.2	571.0	663.9	698.3	700.8	710.5	727.6	732.6	744.9
67.5°	544.0	546.3	531.6	546.3	646.8	673.8	673.8	693.4	700.8	710.5	722.7
70°	514.5	517.0	504.7	521.8	634.7	646.8	644.4	671.4	676.2	683.6	695.8
72.5°	477.8	477.8	472.9	497.4	615.0	619.9	615.0	637.1	639.5	646.8	651.7
75°	438.6	438.6	433.7	467.9	602.8	590.5	575.8	592.9	597.8	602.8	602.8
77.5°	387.1	392.0	392.0	433.7	561.1	578.1	529.2	539.1	546.3	548.9	541.5
80°	323.4	335.6	340.5	394.4	470.4	534.1	472.9	480.2	482.7	482.7	472.9
82.5°	247.5	269.5	281.8	340.5	360.2	448.3	411.7	419.0	411.7	397.0	392.0
85°	171.4	201.0	215.7	259.7	271.9	345.5	343.1	343.1	328.3	308.7	306.2
87.5°	93.2	110.2	120.1	154.4	186.2	232.8	252.3	245.0	232.8	220.5	223.0
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: P269656

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5
2.5°	13510.0	13843.2	14374.9	14781.6	15190.8	15585.2	16011.6	16337.5	16614.3	16722.0	17050.5
5°	10863.9	11280.3	11782.7	12689.2	13331.1	14039.3	14857.5	15940.6	16357.1	16932.8	17876.1
7.5°	7681.1	8058.4	8867.0	9599.6	10508.6	11510.7	12615.7	14110.2	14656.7	15580.4	17116.7
10°	5735.8	6174.3	6823.6	7441.0	8242.3	9266.3	10535.5	12206.6	12870.6	13872.6	15641.6
12.5°	4620.9	5137.9	5826.3	6407.2	7027.0	7749.8	8982.2	10814.9	11704.2	12581.4	14369.9
15°	3550.2	4091.7	4731.3	5468.7	6152.3	6931.4	8222.6	10226.8	11251.0	12164.8	13691.3
17.5°	2457.5	2920.6	3726.7	4495.9	5370.6	6367.8	8012.0	10351.8	11574.4	12628.0	13808.9
20°	1742.1	2006.6	2668.1	3560.1	4650.3	5902.4	7972.7	11008.4	12598.5	13801.6	14563.6
22.5°	1465.1	1563.2	1947.9	2766.2	4025.6	5554.4	8109.9	11929.8	13980.4	15516.7	15766.6
25°	1335.3	1394.1	1595.0	2170.8	3469.3	5302.1	8573.1	13301.7	15690.7	17231.7	17187.7
27.5°	1264.3	1325.4	1457.8	1832.7	3050.5	5145.3	9036.1	14928.7	17645.9	19093.8	18545.0
30°	1242.3	1325.4	1465.1	1727.4	2751.5	4897.7	9415.9	16357.1	19150.2	20350.8	19162.5
32.5°	1225.1	1237.3	1301.0	1489.7	2467.3	4608.8	9673.0	17638.5	20622.7	21546.4	20051.8
35°	989.8	1051.0	1154.1	1335.3	2300.6	4434.8	9673.0	18743.5	22073.2	22754.3	20899.5
37.5°	953.1	1007.0	1097.6	1252.0	2207.6	4349.0	9479.5	19809.3	23555.5	24124.0	21597.9
40°	933.5	977.5	1063.4	1188.3	2168.4	4251.0	9197.7	20750.2	25003.6	25496.1	22249.6
42.5°	918.7	958.0	1038.9	1149.1	2116.9	4143.2	8969.9	21504.7	26260.5	26667.3	22871.9
45°	911.4	953.1	1041.3	1168.8	2014.0	4001.1	8893.9	22320.6	27294.5	27644.8	23545.7
47.5°	911.4	960.5	1053.5	1210.3	1891.6	3854.1	9131.6	23396.3	28272.0	28443.6	24339.5
50°	904.1	958.0	1087.8	1168.8	1712.7	3667.8	9690.2	24751.2	29330.5	29350.1	25344.2
52.5°	889.4	953.1	1171.2	1144.3	1506.8	3422.8	10445.0	26490.7	30896.1	31013.8	26917.2
55°	872.3	945.7	1149.1	1087.8	1337.8	3131.2	11062.4	28605.3	33096.3	33422.2	29230.0
57.5°	850.2	935.9	1112.3	1009.4	1227.5	2756.4	11285.2	30153.8	34632.5	35450.9	31837.0
60°	830.7	928.6	1004.6	963.0	1159.0	2440.3	10854.1	29847.4	34527.3	36291.3	34147.5
62.5°	811.0	935.9	916.4	933.5	1127.1	2237.0	9726.9	27394.9	32780.3	35424.0	35860.1
65°	788.9	869.7	864.9	908.9	1119.6	2156.1	8063.4	23717.3	29404.0	32682.2	36264.3
67.5°	759.5	803.7	828.1	877.1	1144.3	2085.1	6507.5	19564.2	24712.1	28573.4	34157.2
70°	727.6	764.5	791.3	837.9	1129.4	2053.2	5412.4	15428.5	19608.5	23418.4	29999.3
72.5°	686.0	717.8	742.4	786.5	1114.7	2036.1	4572.0	12424.5	14639.5	17395.9	24391.0
75°	637.1	666.5	683.6	727.6	1068.3	1864.5	3594.4	10513.6	10954.6	12101.2	19427.0
77.5°	580.7	602.8	617.5	666.5	945.7	1551.0	2599.5	8109.9	8506.9	8786.1	14894.3
80°	514.5	536.6	544.0	590.5	784.0	1212.8	1695.6	5990.5	6363.0	6426.7	9726.9
82.5°	438.6	460.7	460.7	504.7	641.8	872.3	1112.3	4103.9	4177.5	4393.2	6875.1
85°	352.9	370.0	370.0	392.0	497.4	651.7	764.5	2060.5	2038.6	2327.6	5956.2
87.5°	252.3	264.6	276.9	281.8	355.3	431.2	460.7	627.2	414.1	475.4	3824.7
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: P269656

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLR-7027-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5
2.5°	17297.9	17437.5	17295.4	17192.5	16749.1	16383.9	15896.4	15646.5
5°	18594.0	18949.2	18829.3	18398.0	17471.9	16430.5	15247.1	14713.0
7.5°	18437.3	19263.0	19282.5	18476.3	17111.8	15577.9	13975.6	13216.0
10°	17217.0	18273.1	18574.4	17792.9	16344.8	14629.7	12792.1	11924.8
12.5°	15854.7	16888.8	17119.1	16849.6	15639.2	13916.7	12052.2	11202.0
15°	14740.0	15203.0	15477.4	15712.7	15034.0	13632.5	12010.5	11077.0
17.5°	14061.3	14009.8	14088.3	14497.4	14612.5	13958.5	12647.5	11618.5
20°	13816.3	13029.7	13010.2	13573.7	14414.2	14735.1	13892.3	12657.4
22.5°	13951.0	12677.1	12515.2	13184.2	14519.5	15854.7	15524.0	14115.2
25°	14416.5	12706.3	12576.5	13223.3	14901.8	17048.0	17285.6	16001.8
27.5°	15149.1	12892.6	12721.1	13385.0	15408.8	18050.2	19020.4	17829.6
30°	15845.1	13216.0	13002.8	13703.6	15872.0	18447.1	20083.8	19255.6
32.5°	16690.2	13821.2	13446.3	14289.2	16445.4	19079.1	21031.8	20436.5
35°	17518.4	14683.7	14218.2	15193.3	17084.8	19865.7	22114.8	21945.9
37.5°	18427.4	15810.7	15426.1	16362.0	17959.5	20608.0	23496.7	23714.8
40°	19397.7	17305.3	16849.6	18067.3	19316.9	21539.1	24939.9	25464.3
42.5°	20375.3	18963.9	18420.0	19654.9	20809.0	22457.8	26174.8	26951.4
45°	21495.1	20764.9	20507.5	21842.8	22242.3	23332.5	27086.1	28051.6
47.5°	22798.4	22808.2	23222.4	23756.4	23687.9	24322.5	28002.5	29033.9
50°	24320.1	25358.9	26272.8	26628.0	25177.5	25385.8	29274.1	30349.7
52.5°	26147.8	28409.3	29541.2	29308.5	26782.3	26684.3	31288.1	32162.8
55°	28433.7	31638.6	32763.2	32596.5	28627.4	28453.4	33797.1	34306.7
57.5°	31079.9	34767.3	35801.3	35051.5	30842.2	30393.9	35872.3	35980.2
60°	33405.1	37246.9	38153.4	37322.8	33076.8	32459.4	37168.5	36646.5
62.5°	34698.7	38087.2	38724.2	37830.1	34608.1	34659.6	37452.7	36286.4
65°	34120.5	35963.0	36168.7	36095.3	34213.7	35936.1	36431.0	34622.7
67.5°	30955.0	30592.3	30937.7	31415.5	30832.4	34255.2	33601.1	30999.0
70°	25378.5	23386.5	24074.9	24395.9	24660.5	29477.5	29164.0	25248.7
72.5°	19125.8	16383.9	16927.9	16861.7	18086.8	23643.7	22680.9	18564.6
75°	13551.7	11108.9	11177.5	11150.5	12620.6	18498.4	16423.3	12701.5
77.5°	9482.0	8048.6	8085.5	8237.4	8484.9	13951.0	11733.8	9278.7
80°	6519.8	6108.1	6311.5	6323.8	5880.3	9371.7	8668.6	7446.0
82.5°	4856.1	4246.1	4197.2	4268.1	4608.8	7593.0	6661.9	5164.9
85°	3976.5	2513.8	2021.4	2533.4	4084.4	7519.4	4425.0	2724.6
87.5°	2239.5	1193.2	539.1	999.6	1629.3	4978.6	1278.9	348.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)