

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: P193037

Luminaire Tested: **GLEON-AF-09-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193037
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-SLL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45229 lumens
Efficiency: N/A
Efficacy: 90.3 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): 501
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



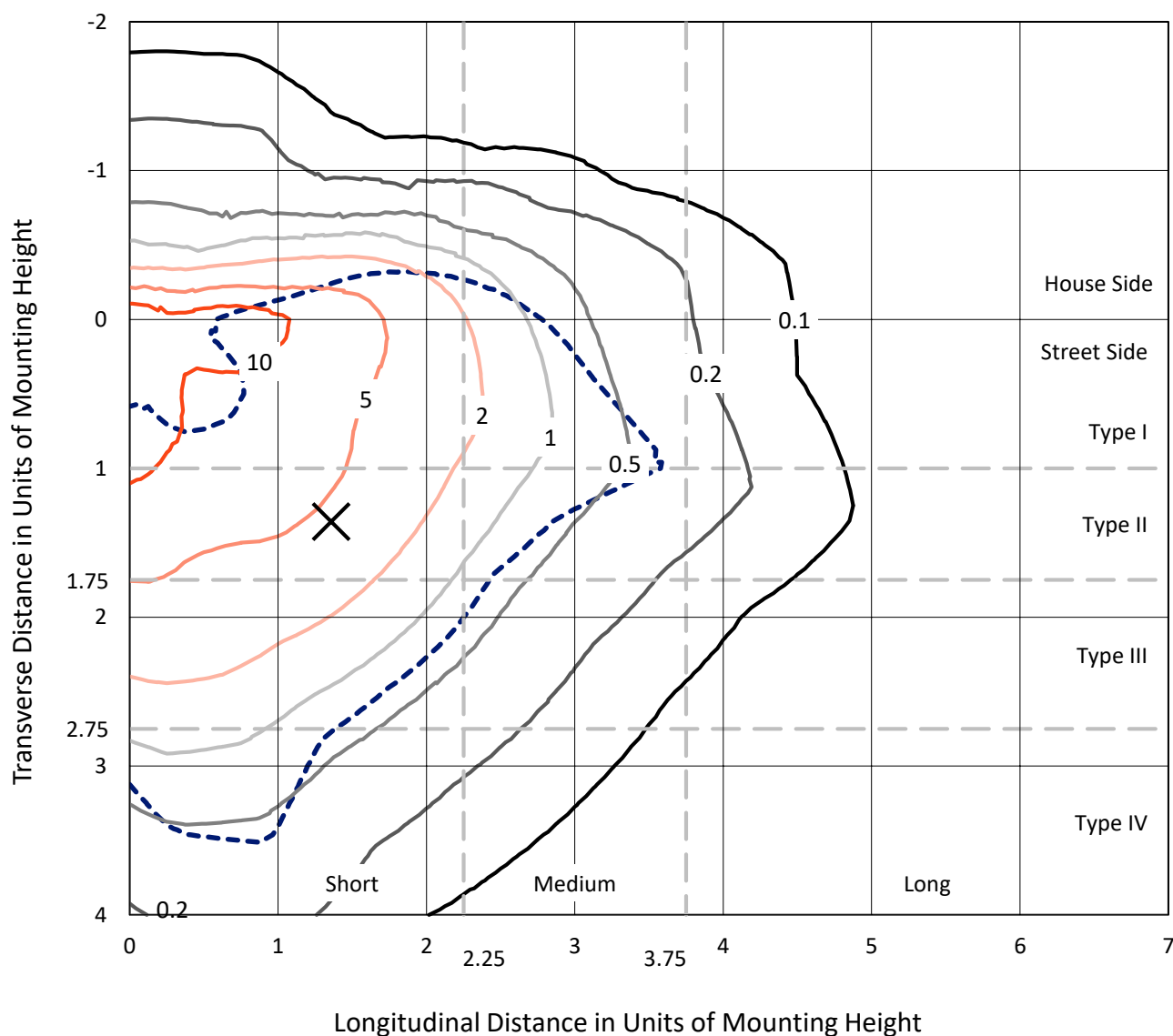
REPORT NUMBER: P193037

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

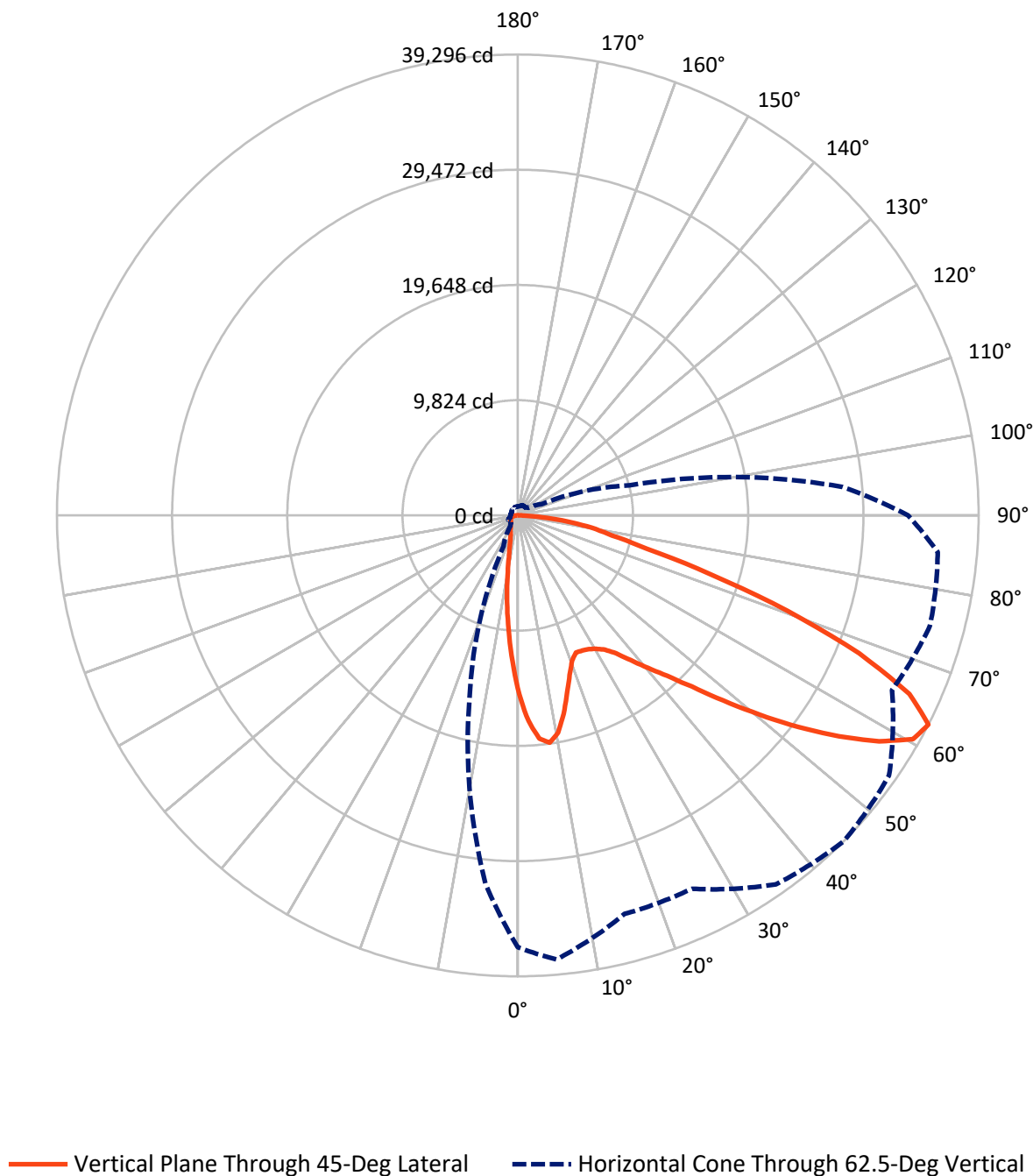


Based on 30 foot mounting height. Maximum calculated value = 20 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P193037

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-7030

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7484.8	0.0	7484.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	37744.2	0.0	37744.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	45229.0	0.0	45229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1112.4	2.5
10°-20°	2039.8	4.5
20°-30°	2974.0	6.6
30°-40°	4580.4	10.1
40°-50°	6741.2	14.9
50°-60°	9887.8	21.9
60°-70°	11053.2	24.4
70°-80°	5411.5	12.0
80°-90°	1428.8	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°	45229.0	100.0
0°-180°	45229.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193037

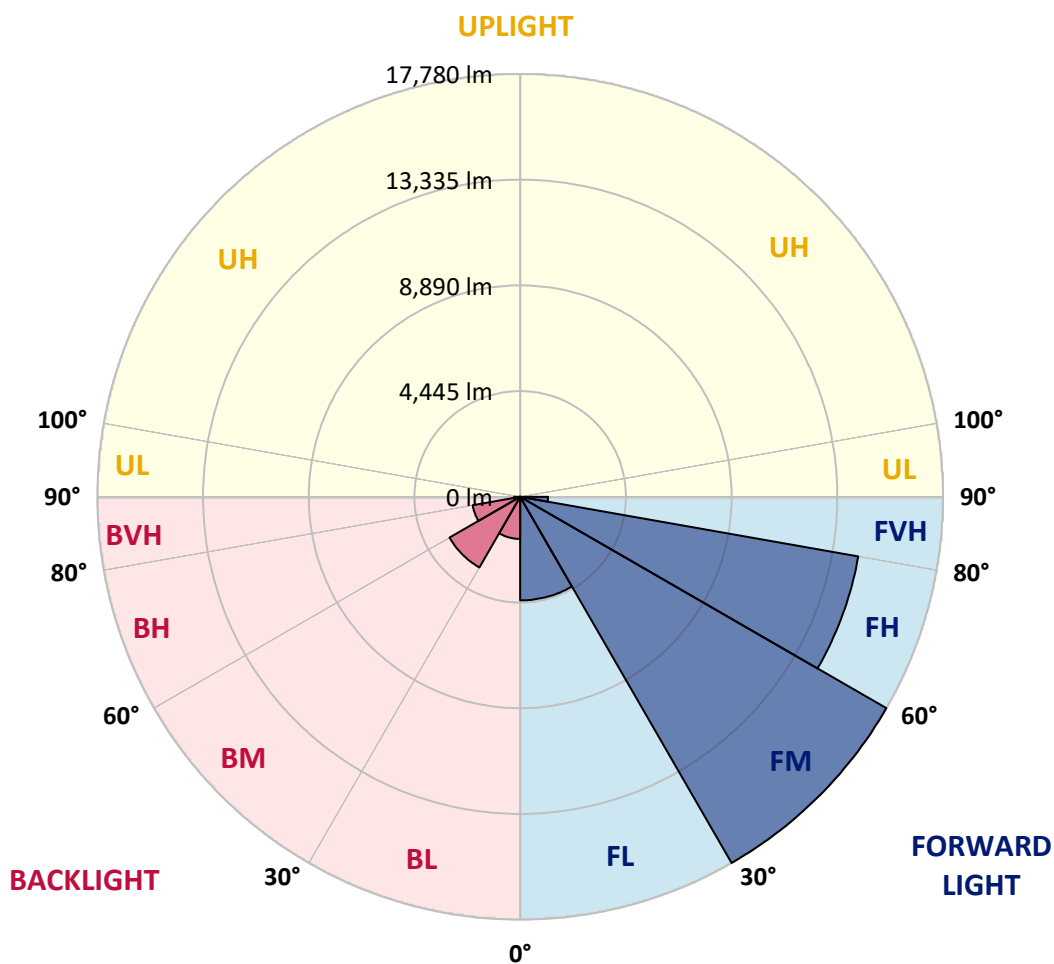
CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4355.4	9.6			
FM	(30°-60°)	17779.9	39.3			
FH	(60°-80°)	14435.5	31.9			G5
FVH	(80°-90°)	1173.4	2.6			G5
BL	(0°-30°)	1770.8	3.9	B3/2500		
BM	(30°-60°)	3429.5	7.6	B3/5000		
BH	(60°-80°)	2029.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	255.4	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: P193037

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8
2.5°	15877.4	16131.1	16625.9	16996.4	17446.3	17550.8	17695.0	17553.3	17302.2	16968.9	16859.6
5°	14930.2	15472.2	16673.1	17729.8	18669.5	19107.1	19229.0	18868.5	18140.0	17182.7	16598.5
7.5°	13411.1	14181.9	15807.8	17364.2	18749.2	19567.1	19547.2	18709.3	17369.3	15810.4	14873.0
10°	12100.8	12981.0	14845.7	16586.1	18055.5	18848.7	18542.8	17471.2	15872.5	14077.4	13060.6
12.5°	11367.4	12230.1	14122.2	15870.0	17098.3	17371.7	17138.1	16088.9	14582.2	12767.2	11877.0
15°	11240.6	12187.9	13833.8	15255.9	15944.6	15705.9	15427.5	14957.6	13893.4	12344.4	11417.0
17.5°	11790.0	12834.2	14164.5	14828.2	14711.4	14296.2	14216.6	14268.8	14012.7	12814.4	11745.3
20°	12844.2	14097.2	14952.5	14626.9	13774.1	13202.3	13222.1	14020.2	14778.5	14005.3	12784.5
22.5°	14323.6	15753.2	16088.9	14733.8	13378.8	12700.0	12864.0	14156.9	15999.3	15745.7	14186.8
25°	16238.0	17540.8	17299.7	15121.7	13418.5	12762.1	12893.9	14629.4	17441.4	17486.2	15922.3
27.5°	18092.8	19301.0	18316.5	15636.3	13582.7	12908.9	13082.9	15372.8	18818.9	19375.7	17906.3
30°	19539.8	20380.1	18719.3	16106.2	13905.9	13194.8	13411.1	16078.9	19445.3	20651.2	19432.9
32.5°	20738.2	21342.3	19360.7	16688.0	14500.2	13644.9	14025.2	16936.6	20347.9	21864.5	20927.2
35°	22269.8	22441.3	20158.9	17336.9	15417.6	14428.0	14900.3	17777.0	21208.1	23090.2	22399.0
37.5°	24064.9	23843.5	20912.2	18224.6	16603.5	15653.7	16044.0	18699.4	21916.8	24480.1	23903.3
40°	25840.1	25308.0	21857.0	19601.9	18333.9	17098.3	17560.7	19684.0	22578.1	25872.4	25372.6
42.5°	27349.2	26561.2	22789.4	21116.1	19945.1	18692.0	19244.0	20676.0	23209.6	27060.9	26648.2
45°	28465.7	27486.1	23677.0	22570.6	22165.3	20810.3	21071.4	21812.3	23893.4	28052.9	27697.3
47.5°	29462.7	28415.9	24681.4	24037.5	24107.2	23565.1	23144.9	23135.0	24698.8	28863.4	28689.4
50°	30797.8	29706.3	25760.5	25549.1	27021.1	26660.6	25733.2	24678.9	25718.2	29783.3	29763.5
52.5°	32637.6	31749.9	27078.3	27177.7	29741.1	29977.3	28828.6	26533.7	27314.5	31471.6	31352.2
55°	34813.2	34295.9	28873.4	29049.9	33077.7	33246.7	32105.5	28853.5	29661.4	33915.6	33584.8
57.5°	36511.2	36401.9	30842.5	31297.6	35569.0	36329.8	35280.6	31538.7	32307.0	35974.2	35143.8
60°	37187.6	37717.2	32938.5	33565.0	37873.7	38716.6	37796.7	33898.1	34651.5	36827.0	35036.9
62.5°	36822.0	38005.5	35171.1	35118.9	38388.5	39295.9	38649.5	35211.0	36389.5	35946.9	33264.2
65°	35133.9	36968.8	36466.5	34718.7	36628.1	36702.7	36493.9	34624.2	36799.7	33164.7	29838.0
67.5°	31456.7	34097.1	34761.0	31287.6	31879.3	31394.4	31044.0	31411.9	34661.5	28995.2	25076.7
70°	25621.3	29594.4	29912.7	25024.6	24756.1	24430.4	23731.6	25753.1	30442.3	23764.0	19897.9
72.5°	18838.7	23015.7	23992.8	18353.8	17110.6	17177.8	16625.9	19408.0	24751.0	17652.7	14855.7
75°	12889.0	16665.7	18771.5	12807.0	11315.1	11342.5	11272.9	13751.7	19713.8	12279.8	11116.2
77.5°	9415.6	11906.8	14156.9	8610.0	8358.9	8204.9	8167.4	9621.9	15114.2	8915.9	8632.5
80°	7555.9	8796.6	9510.0	5967.0	6417.2	6404.7	6198.4	6616.0	9870.6	6521.5	6456.9
82.5°	5241.1	6760.2	7705.1	4676.8	4331.1	4259.0	4308.7	4927.8	6976.5	4457.9	4239.2
85°	2764.8	4490.2	7630.4	4144.6	2570.9	2051.3	2550.9	4035.3	6044.2	2361.9	2068.6
87.5°	353.0	1297.9	5052.1	1653.4	1014.4	547.0	1210.8	2272.5	3881.1	482.4	420.2
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: P193037

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8
2.5°	16578.7	16248.0	15815.4	15415.1	14999.8	14587.1	14047.6	13709.5	13475.7	13431.0	13331.5
5°	16175.9	15076.9	14246.6	13527.9	12876.5	11956.6	11446.9	11024.3	10798.0	10775.5	10720.9
7.5°	14318.5	12801.9	11680.6	10663.7	9741.3	8997.9	8177.4	7794.5	7637.9	7675.3	7712.5
10°	12386.7	10691.1	9403.2	8363.9	7550.9	6924.3	6265.5	5820.5	5512.1	5450.0	5437.5
12.5°	10974.5	9114.7	7864.2	7130.7	6501.7	5912.4	5213.8	4689.2	4288.9	4152.1	4060.1
15°	10377.8	8344.0	7033.8	6243.1	5549.4	4801.1	4152.1	3602.6	3234.6	3115.3	3048.3
17.5°	10504.6	8130.2	6461.9	5450.0	4562.3	3781.7	2963.6	2493.8	2272.5	2215.3	2215.3
20°	11170.8	8090.4	5989.5	4719.0	3612.5	2707.6	2036.3	1767.7	1695.7	1688.2	1708.0
22.5°	12105.8	8229.6	5636.4	4084.9	2807.0	1976.6	1586.2	1486.8	1454.5	1461.9	1484.3
25°	13498.1	8699.6	5380.4	3520.6	2202.8	1618.5	1414.7	1355.1	1340.1	1360.0	1387.4
27.5°	15149.1	9169.5	5221.2	3095.5	1859.7	1479.4	1345.1	1282.9	1292.9	1317.7	1342.6
30°	16598.5	9554.8	4970.1	2792.1	1752.8	1486.8	1345.1	1260.6	1250.6	1255.6	1263.0
32.5°	17898.9	9815.9	4676.8	2503.6	1511.7	1320.2	1255.6	1243.2	1188.4	1168.5	1171.0
35°	19020.2	9815.9	4500.2	2334.7	1355.1	1171.0	1066.6	1004.4	977.1	979.6	1007.0
37.5°	20101.7	9619.5	4413.2	2240.2	1270.4	1113.9	1021.9	967.2	929.9	922.3	927.4
40°	21056.5	9333.6	4313.8	2200.4	1205.9	1079.1	992.1	947.3	907.5	895.1	897.6
42.5°	21822.3	9102.3	4204.3	2148.1	1166.2	1054.3	972.2	932.3	887.6	875.1	872.7
45°	22650.2	9025.3	4060.1	2043.7	1186.0	1056.6	967.2	924.9	880.2	865.3	860.3
47.5°	23741.6	9266.4	3910.9	1919.4	1228.2	1069.1	974.6	924.9	877.7	865.3	860.3
50°	25116.5	9833.4	3722.0	1737.9	1186.0	1103.9	972.2	917.4	877.7	865.3	855.3
52.5°	26881.8	10599.1	3473.4	1529.1	1161.1	1188.4	967.2	902.5	865.3	847.9	830.4
55°	29027.6	11225.7	3177.5	1357.5	1103.9	1166.2	959.8	885.1	845.3	820.4	805.6
57.5°	30598.8	11451.9	2797.0	1245.7	1024.3	1128.7	949.8	862.7	820.4	800.6	780.6
60°	30288.1	11014.3	2476.4	1176.0	977.1	1019.4	942.4	842.8	798.1	783.2	765.8
62.5°	27799.3	9870.6	2270.0	1143.7	947.3	929.9	949.8	822.9	778.3	763.2	758.4
65°	24067.3	8182.4	2187.9	1136.2	922.3	877.7	882.6	800.6	755.8	743.4	738.5
67.5°	19853.1	6603.6	2115.8	1161.1	890.1	840.4	815.5	770.8	733.4	721.0	711.1
70°	15656.2	5492.3	2083.5	1146.1	850.4	803.0	775.7	738.5	706.2	693.7	686.2
72.5°	12608.0	4639.4	2066.1	1131.3	798.1	753.4	728.4	696.2	661.3	656.4	648.9
75°	10668.7	3647.4	1892.1	1084.1	738.5	693.7	676.4	646.5	611.7	611.7	606.6
77.5°	8229.6	2637.9	1573.9	959.8	676.4	626.5	611.7	589.2	549.5	556.9	554.5
80°	6078.9	1720.5	1230.7	795.6	599.2	552.0	544.5	522.1	479.8	489.8	489.8
82.5°	4164.5	1128.7	885.1	651.4	512.2	467.4	467.4	445.0	397.8	402.7	417.7
85°	2091.0	775.7	661.3	504.7	397.8	375.5	375.5	358.1	310.8	313.2	333.1
87.5°	636.6	467.4	437.6	360.5	285.9	280.9	268.6	256.1	226.2	223.8	236.2
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: P193037

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8
2.5°	13179.8	13038.1	12866.6	12488.7	12361.9	12354.4	12468.7	12349.5	12578.2	12481.2	12588.1
5°	10629.0	10489.7	10298.2	9815.9	9522.5	9323.6	9229.1	8950.6	9152.1	9005.3	9127.2
7.5°	7817.0	7849.1	7722.5	7439.0	6800.0	6479.3	6290.4	6121.2	6267.9	6253.0	6486.7
10°	5494.7	5581.7	5492.3	5206.3	4689.2	4512.6	4547.5	4614.6	4806.0	4905.4	5266.0
12.5°	3955.7	3950.7	3893.6	3637.5	3296.8	3316.7	3458.5	3575.3	3751.9	3856.2	4224.2
15°	2953.8	2908.9	2884.1	2675.2	2481.3	2523.6	2593.2	2605.7	2717.5	2779.7	3078.1
17.5°	2232.7	2255.1	2282.4	2133.3	1986.6	1959.2	1904.5	1837.4	1869.7	1882.1	2031.3
20°	1772.7	1862.3	1929.4	1824.9	1675.8	1596.2	1526.6	1481.9	1481.9	1479.4	1521.7
22.5°	1549.0	1613.6	1685.8	1613.6	1479.4	1409.8	1370.0	1335.1	1330.1	1330.1	1370.0
25°	1427.2	1474.4	1544.0	1494.2	1394.8	1342.6	1305.3	1260.6	1243.2	1238.1	1265.5
27.5°	1367.5	1387.4	1422.1	1377.4	1292.9	1268.1	1258.1	1218.2	1196.0	1183.5	1210.8
30°	1265.5	1260.6	1263.0	1218.2	1151.1	1148.7	1166.2	1173.6	1166.2	1163.6	1205.9
32.5°	1171.0	1161.1	1158.5	1118.9	1056.6	1041.8	1056.6	1071.7	1089.0	1113.9	1163.6
35°	1051.7	1076.5	1091.5	1056.6	982.1	937.3	920.0	892.5	877.7	877.7	934.8
37.5°	957.2	1014.4	1036.8	1004.4	922.3	860.3	830.4	825.5	827.9	837.9	892.5
40°	924.9	967.2	987.0	954.7	872.7	815.5	798.1	793.1	798.1	813.0	867.7
42.5°	905.0	934.8	932.3	892.5	825.5	785.7	775.7	770.8	775.7	790.6	850.4
45°	887.6	907.5	887.6	840.4	778.3	758.4	760.8	758.4	763.2	778.3	835.4
47.5°	872.7	880.2	855.3	808.1	743.4	738.5	748.4	755.8	760.8	773.2	832.9
50°	850.4	850.4	827.9	778.3	713.6	716.0	728.4	745.9	748.4	763.2	810.4
52.5°	822.9	820.4	805.6	758.4	688.7	696.2	696.2	716.0	721.0	738.5	788.2
55°	800.6	795.6	788.2	743.4	666.4	678.7	671.3	678.7	691.2	708.5	763.2
57.5°	780.6	770.8	770.8	731.0	648.9	653.9	636.6	646.5	661.3	676.4	733.4
60°	760.8	750.8	755.8	713.6	621.5	616.6	609.1	629.0	634.0	651.4	708.5
62.5°	738.5	731.0	733.4	693.7	601.7	589.2	589.2	606.6	609.1	634.0	688.7
65°	721.0	711.1	708.5	673.8	579.3	564.5	571.9	579.3	584.3	609.1	661.3
67.5°	703.6	683.8	683.8	656.4	554.5	539.5	554.5	552.0	559.4	581.8	624.1
70°	681.2	653.9	656.4	644.0	529.6	512.2	524.7	522.1	527.0	542.0	584.3
72.5°	646.5	624.1	629.0	624.1	504.7	479.8	484.8	484.8	484.8	497.2	542.0
75°	601.7	584.3	599.2	611.7	474.8	440.1	445.0	445.0	437.6	445.0	499.8
77.5°	547.0	537.0	586.7	569.4	440.1	397.8	397.8	392.8	377.9	387.9	447.5
80°	487.3	479.8	542.0	477.4	400.3	345.6	340.7	328.3	313.2	320.7	380.4
82.5°	425.1	417.7	454.9	365.5	345.6	285.9	273.4	251.1	236.2	243.6	298.4
85°	348.1	348.1	350.6	276.0	263.6	218.8	203.9	174.0	156.7	161.6	213.8
87.5°	248.7	256.1	236.2	188.9	156.7	121.9	111.9	94.5	79.5	92.0	111.9
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: P193037

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8	15280.8
2.5°	13135.1	13408.7	13719.3	14117.2	14457.8	15017.2	15554.2	15877.4
5°	9820.9	10275.9	10842.8	11571.2	12250.0	13269.3	14281.3	14930.2
7.5°	7028.7	7516.1	8127.7	9037.7	9997.4	11297.7	12635.4	13411.1
10°	5815.5	6315.1	6829.9	7444.0	8229.6	9644.4	11225.7	12100.8
12.5°	4811.0	5345.5	5900.0	6546.4	7274.9	8537.9	10360.4	11367.4
15°	3682.2	4278.9	4932.8	5750.8	6663.2	8122.8	10146.6	11240.6
17.5°	2523.6	3190.0	3993.0	5002.4	6118.7	7988.5	10529.5	11790.0
20°	1737.9	2222.8	3080.6	4264.0	5606.6	7971.1	11265.4	12844.2
22.5°	1454.5	1670.8	2297.2	3585.3	5221.2	8184.9	12406.6	14323.6
25°	1345.1	1474.4	1834.9	2996.0	4940.2	8677.2	13978.0	16238.0
27.5°	1280.4	1397.3	1665.7	2610.6	4719.0	9249.1	15507.0	18092.8
30°	1305.3	1424.6	1618.5	2414.2	4418.1	9726.4	16864.6	19539.8
32.5°	1176.0	1228.2	1387.4	2240.2	4201.9	10126.7	18053.0	20738.2
35°	1002.0	1094.0	1238.1	2158.1	4206.8	10395.3	19348.4	22269.8
37.5°	954.7	1046.7	1151.1	2128.3	4264.0	10681.1	20835.2	24064.9
40°	924.9	1009.4	1098.9	2110.9	4318.7	10942.2	22292.1	25840.1
42.5°	905.0	982.1	1094.0	2051.3	4346.0	11175.9	23490.5	27349.2
45°	902.5	982.1	1113.9	1991.6	4388.3	11427.0	24495.0	28465.7
47.5°	905.0	1014.4	1076.5	1919.4	4388.3	11847.2	25673.5	29462.7
50°	895.1	1069.1	1036.8	1817.5	4286.3	12642.8	27289.5	30797.8
52.5°	890.1	1061.7	959.8	1660.8	4109.9	13905.9	29360.7	32637.6
55°	877.7	1024.3	905.0	1427.2	3903.5	15283.3	31578.4	34813.2
57.5°	865.3	907.5	875.1	1223.2	3585.3	16253.0	33105.0	36511.2
60°	969.6	793.1	850.4	1123.8	3160.1	16518.9	33045.4	37187.6
62.5°	897.6	743.4	818.1	1101.5	2861.7	15773.1	31518.8	36822.0
65°	703.6	711.1	785.7	1166.2	2782.2	13796.5	28813.8	35133.9
67.5°	644.0	678.7	753.4	1248.1	2789.6	11046.6	24770.9	31456.7
70°	606.6	644.0	716.0	1290.4	2809.5	8234.7	19584.6	25621.3
72.5°	564.5	596.7	673.8	1297.9	2680.2	5982.1	15094.2	18838.7
75°	514.6	544.5	614.1	1131.3	2220.2	4149.6	11546.4	12889.0
77.5°	457.5	479.8	539.5	872.7	1648.4	2655.3	8667.2	9415.6
80°	390.4	402.7	452.6	638.9	1128.7	1660.8	6857.2	7555.9
82.5°	313.2	318.3	350.6	479.8	733.4	1066.6	4592.1	5241.1
85°	221.2	221.2	241.1	348.1	499.8	676.4	2493.8	2764.8
87.5°	104.5	107.0	107.0	191.4	261.0	343.1	574.3	353.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)