

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: P193847

Luminaire Tested: **GLEON-AF-09-LED-E1-SLL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193847
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA 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: 41862 lumens
Efficiency: N/A
Efficacy: 72.8 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

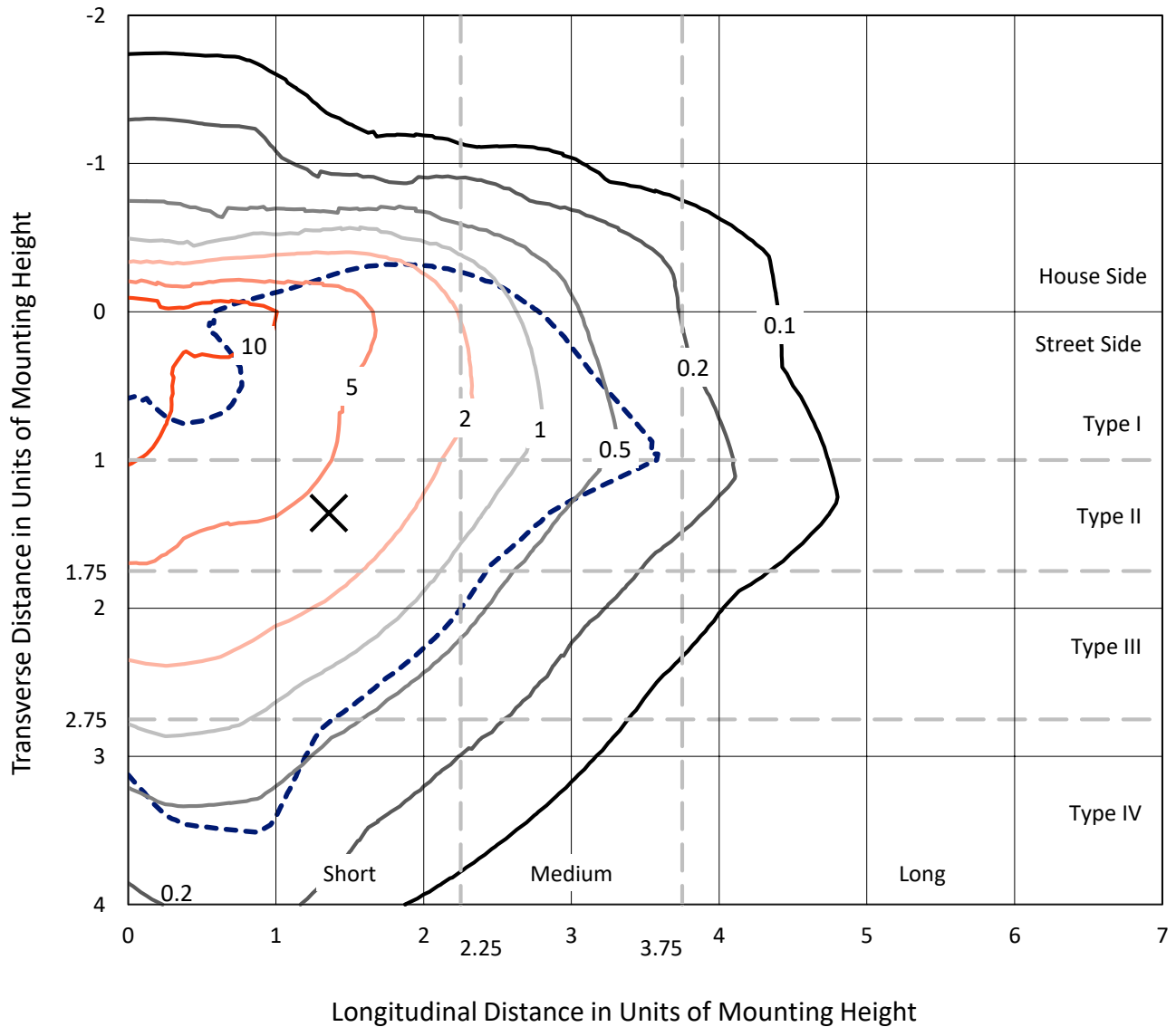


REPORT NUMBER: P193847

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

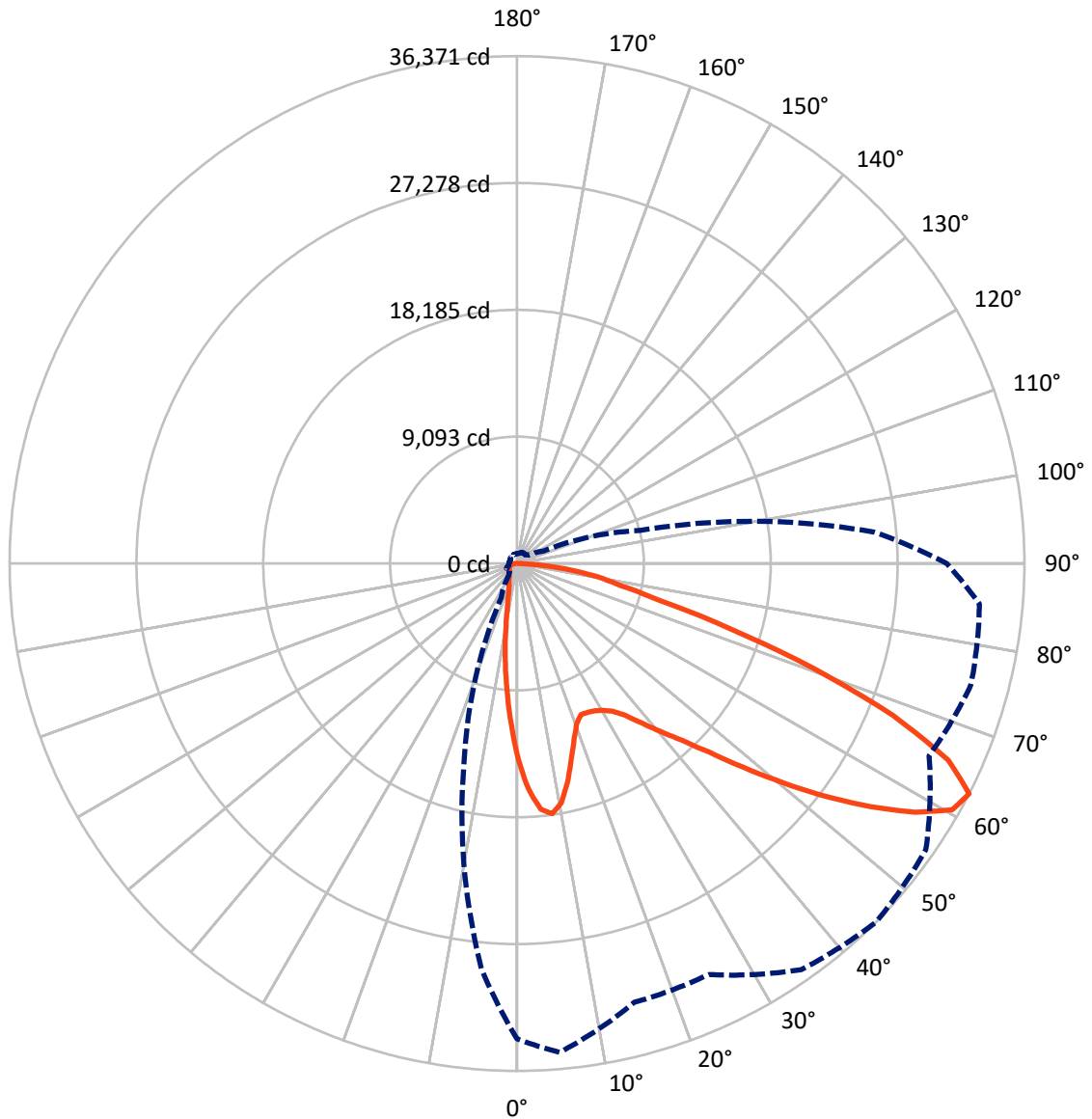


Based on 30 foot mounting height. Maximum calculated value = 18.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193847

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P193847

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6927.6	0.0	6927.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	34934.4	0.0	34934.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	41862.0	0.0	41862.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1029.6	2.5
10°-20°	1887.9	4.5
20°-30°	2752.6	6.6
30°-40°	4239.4	10.1
40°-50°	6239.3	14.9
50°-60°	9151.7	21.9
60°-70°	10230.3	24.4
70°-80°	5008.6	12.0
80°-90°	1322.4	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°	41862.0	100.0
0°-180°	41862.0	100.0



REPORT NUMBER: P193847

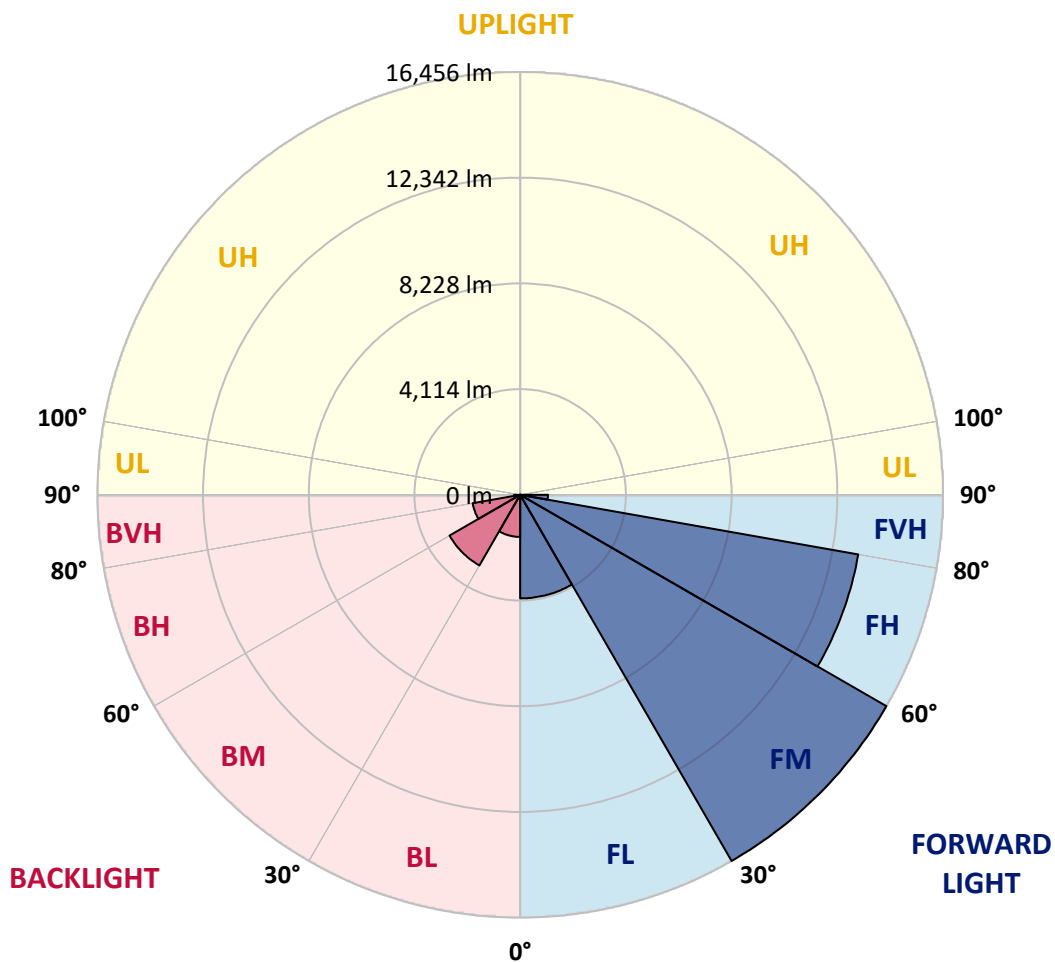
CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4031.2	9.6			
FM	(30°-60°)	16456.3	39.3			
FH	(60°-80°)	13360.9	31.9			G5
FVH	(80°-90°)	1086.0	2.6			G5
BL	(0°-30°)	1639.0	3.9	B3/2500		
BM	(30°-60°)	3174.2	7.6	B3/5000		
BH	(60°-80°)	1878.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	236.4	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: P193847

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2
2.5°	14695.5	14930.3	15388.2	15731.1	16147.6	16244.2	16377.7	16246.5	16014.1	15705.8	15604.5
5°	13818.8	14320.4	15431.9	16409.9	17279.8	17684.8	17797.6	17463.9	16789.6	15903.7	15362.9
7.5°	12412.7	13126.1	14631.1	16071.7	17353.4	18110.5	18092.1	17316.6	16076.3	14633.4	13765.8
10°	11200.0	12014.6	13740.5	15351.4	16711.4	17445.5	17162.4	16170.6	14690.9	13029.5	12088.3
12.5°	10521.1	11319.7	13070.9	14688.6	15825.4	16078.6	15862.2	14891.1	13496.6	11816.7	10992.9
15°	10403.8	11280.5	12803.9	14120.2	14757.7	14536.7	14279.0	13844.1	12859.2	11425.5	10567.2
17.5°	10912.3	11878.8	13110.0	13724.4	13616.3	13232.0	13158.3	13206.6	12969.6	11860.4	10870.9
20°	11888.1	13047.9	13839.5	13538.0	12748.7	12219.4	12237.8	12976.5	13678.4	12962.7	11832.8
22.5°	13257.3	14580.5	14891.1	13637.0	12382.8	11754.6	11906.5	13103.1	14808.3	14573.6	13130.7
25°	15029.2	16235.0	16011.8	13996.0	12419.6	11812.1	11934.1	13540.3	16143.0	16184.4	14737.0
27.5°	16745.9	17864.3	16953.0	14472.3	12571.5	11947.9	12109.0	14228.4	17417.9	17933.3	16573.3
30°	18085.2	18863.0	17325.8	14907.2	12870.7	12212.5	12412.7	14881.9	17997.8	19113.9	17986.3
32.5°	19194.4	19753.6	17919.5	15445.7	13420.7	12629.0	12981.1	15675.8	18833.1	20236.8	19369.3
35°	20611.9	20770.7	18658.2	16046.3	14269.8	13353.9	13791.2	16453.7	19629.3	21371.3	20731.6
37.5°	22273.4	22068.6	19355.5	16867.9	15367.5	14488.4	14849.7	17307.4	20285.2	22657.7	22123.8
40°	23916.5	23424.0	20229.9	18142.7	16969.1	15825.4	16253.4	18218.7	20897.3	23946.4	23483.9
42.5°	25313.3	24583.8	21092.9	19544.2	18460.3	17300.5	17811.4	19136.9	21481.8	25046.4	24664.4
45°	26346.6	25439.9	21914.4	20890.4	20515.3	19261.1	19502.8	20188.5	22114.6	25964.6	25635.5
47.5°	27269.3	26300.5	22844.1	22248.1	22312.5	21810.9	21422.0	21412.8	22860.2	26714.8	26553.7
50°	28505.1	27494.9	23842.8	23647.2	25009.6	24675.9	23817.5	22841.8	23803.7	27566.2	27547.8
52.5°	30208.0	29386.5	25062.5	25154.5	27527.1	27745.7	26682.5	24558.5	25281.1	29128.7	29018.3
55°	32221.5	31742.9	26724.0	26887.3	30615.3	30771.8	29715.5	26705.5	27453.4	31390.8	31084.7
57.5°	33793.3	33692.0	28546.5	28967.6	32921.1	33625.3	32654.2	29190.9	29901.9	33296.2	32527.6
60°	34419.2	34909.4	30486.4	31066.3	35054.3	35834.4	34983.0	31374.7	32072.0	34085.5	32428.7
62.5°	34080.9	35176.3	32552.9	32504.6	35530.7	36370.6	35772.3	32589.7	33680.5	33270.9	30787.9
65°	32518.4	34216.7	33751.9	32134.1	33901.4	33970.5	33777.2	32046.7	34060.2	30695.8	27616.8
67.5°	29114.9	31558.8	32173.2	28958.4	29506.1	29057.4	28732.9	29073.5	32081.2	26836.7	23210.0
70°	23714.0	27391.3	27685.9	23161.7	22913.2	22611.7	21965.1	23835.9	28176.0	21995.0	18416.6
72.5°	17436.3	21302.3	22206.7	16987.5	15836.9	15899.1	15388.2	17963.2	22908.5	16338.6	13749.7
75°	11929.5	15425.0	17374.1	11853.5	10472.8	10498.1	10433.7	12728.0	18246.3	11365.7	10288.7
77.5°	8714.7	11020.5	13103.1	7969.1	7736.7	7594.0	7559.5	8905.7	13989.1	8252.1	7989.8
80°	6993.4	8141.7	8802.1	5522.9	5939.4	5927.9	5736.9	6123.5	9135.8	6036.1	5976.2
82.5°	4851.0	6257.0	7131.5	4328.6	4008.7	3942.0	3988.0	4561.0	6457.2	4126.1	3923.6
85°	2558.9	4156.0	7062.4	3836.1	2379.5	1898.5	2361.0	3734.9	5594.2	2186.1	1914.6
87.5°	326.8	1201.2	4676.1	1530.3	938.9	506.3	1120.7	2103.3	3592.2	446.4	388.9
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: P193847

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2
2.5°	15344.5	15038.4	14638.0	14267.5	13883.2	13501.2	13001.8	12688.9	12472.6	12431.1	12339.1
5°	14971.7	13954.5	13185.9	12520.9	11918.0	11066.5	10594.8	10203.6	9994.2	9973.4	9922.8
7.5°	13252.7	11848.9	10811.1	9869.9	9016.1	8328.1	7568.7	7214.3	7069.3	7103.8	7138.4
10°	11464.6	9895.2	8703.2	7741.3	6988.8	6408.9	5799.0	5387.1	5101.8	5044.3	5032.7
12.5°	10157.5	8436.2	7278.7	6599.9	6017.7	5472.3	4825.6	4340.1	3969.6	3843.0	3757.9
15°	9605.3	7722.9	6510.1	5778.3	5136.3	4443.6	3843.0	3334.5	2993.9	2883.4	2821.3
17.5°	9722.6	7525.0	5980.8	5044.3	4222.7	3500.1	2743.0	2308.1	2103.3	2050.4	2050.4
20°	10339.3	7488.1	5543.6	4367.7	3343.7	2506.0	1884.7	1636.2	1569.4	1562.5	1580.9
22.5°	11204.6	7617.0	5216.8	3780.9	2598.1	1829.5	1468.2	1376.1	1346.2	1353.1	1373.8
25°	12493.3	8051.9	4979.8	3258.5	2038.9	1498.1	1309.4	1254.2	1240.4	1258.8	1284.1
27.5°	14021.3	8486.9	4832.5	2865.0	1721.3	1369.2	1245.0	1187.4	1196.6	1219.6	1242.7
30°	15362.9	8843.6	4600.1	2584.3	1622.4	1376.1	1245.0	1166.7	1157.5	1162.1	1169.0
32.5°	16566.4	9085.2	4328.6	2317.3	1399.1	1221.9	1162.1	1150.6	1100.0	1081.6	1083.9
35°	17604.3	9085.2	4165.2	2160.8	1254.2	1083.9	987.2	929.7	904.4	906.7	932.0
37.5°	18605.3	8903.4	4084.6	2073.4	1175.9	1030.9	945.8	895.2	860.7	853.7	858.4
40°	19489.0	8638.7	3992.6	2036.6	1116.1	998.7	918.2	876.8	839.9	828.4	830.7
42.5°	20197.7	8424.7	3891.3	1988.2	1079.3	975.7	899.8	863.0	821.5	810.0	807.7
45°	20964.0	8353.4	3757.9	1891.6	1097.7	978.0	895.2	856.1	814.6	800.8	796.2
47.5°	21974.3	8576.6	3619.8	1776.5	1136.8	989.5	902.1	856.1	812.3	800.8	796.2
50°	23246.8	9101.3	3444.9	1608.5	1097.7	1021.7	899.8	849.1	812.3	800.8	791.6
52.5°	24880.7	9810.1	3214.8	1415.2	1074.7	1100.0	895.2	835.3	800.8	784.7	768.6
55°	26866.6	10390.0	2940.9	1256.5	1021.7	1079.3	888.3	819.2	782.4	759.4	745.6
57.5°	28321.0	10599.4	2588.9	1152.9	948.1	1044.7	879.1	798.5	759.4	741.0	722.6
60°	28033.3	10194.4	2292.0	1088.5	904.4	943.5	872.2	780.1	738.7	724.9	708.8
62.5°	25729.8	9135.8	2101.0	1058.6	876.8	860.7	879.1	761.7	720.3	706.5	701.9
65°	22275.7	7573.3	2025.1	1051.7	853.7	812.3	816.9	741.0	699.6	688.1	683.5
67.5°	18375.2	6112.0	1958.3	1074.7	823.8	777.8	754.8	713.4	678.9	667.4	658.1
70°	14490.7	5083.4	1928.4	1060.9	787.0	743.3	718.0	683.5	653.5	642.0	635.1
72.5°	11669.4	4294.1	1912.3	1047.1	738.7	697.3	674.3	644.3	612.1	607.5	600.6
75°	9874.5	3375.9	1751.2	1003.3	683.5	642.0	625.9	598.3	566.1	566.1	561.5
77.5°	7617.0	2441.6	1456.7	888.3	625.9	579.9	566.1	545.4	508.6	515.5	513.2
80°	5626.5	1592.4	1139.1	736.4	554.6	510.9	504.0	483.3	444.1	453.3	453.3
82.5°	3854.5	1044.7	819.2	602.9	474.0	432.6	432.6	411.9	368.2	372.8	386.6
85°	1935.3	718.0	612.1	467.1	368.2	347.5	347.5	331.4	287.7	290.0	308.4
87.5°	589.1	432.6	405.0	333.7	264.6	260.0	248.5	237.0	209.4	207.1	218.6
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: P193847

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2
2.5°	12198.7	12067.5	11908.8	11559.0	11441.6	11434.7	11540.6	11430.1	11641.8	11552.1	11651.0
5°	9837.7	9708.8	9531.6	9085.2	8813.6	8629.5	8542.1	8284.4	8470.8	8335.0	8447.7
7.5°	7235.0	7264.9	7147.6	6885.2	6293.8	5997.0	5822.1	5665.6	5801.4	5787.5	6003.9
10°	5085.7	5166.2	5083.4	4818.7	4340.1	4176.7	4208.9	4271.0	4448.2	4540.3	4874.0
12.5°	3661.2	3656.6	3603.7	3366.7	3051.4	3069.8	3201.0	3309.1	3472.5	3569.2	3909.8
15°	2733.8	2692.4	2669.4	2476.1	2296.6	2335.7	2400.2	2411.7	2515.2	2572.8	2848.9
17.5°	2066.5	2087.2	2112.5	1974.4	1838.7	1813.4	1762.7	1700.6	1730.5	1742.0	1880.1
20°	1640.8	1723.6	1785.7	1689.1	1551.0	1477.4	1412.9	1371.5	1371.5	1369.2	1408.3
22.5°	1433.7	1493.5	1560.2	1493.5	1369.2	1304.8	1268.0	1235.7	1231.1	1231.1	1268.0
25°	1320.9	1364.6	1429.1	1383.0	1291.0	1242.7	1208.1	1166.7	1150.6	1146.0	1171.3
27.5°	1265.7	1284.1	1316.3	1274.9	1196.6	1173.6	1164.4	1127.6	1106.9	1095.4	1120.7
30°	1171.3	1166.7	1169.0	1127.6	1065.5	1063.2	1079.3	1086.2	1079.3	1077.0	1116.1
32.5°	1083.9	1074.7	1072.4	1035.5	978.0	964.2	978.0	991.8	1007.9	1030.9	1077.0
35°	973.4	996.4	1010.2	978.0	909.0	867.6	851.4	826.1	812.3	812.3	865.3
37.5°	886.0	938.9	959.6	929.7	853.7	796.2	768.6	764.0	766.3	775.5	826.1
40°	856.1	895.2	913.6	883.7	807.7	754.8	738.7	734.1	738.7	752.5	803.1
42.5°	837.6	865.3	863.0	826.1	764.0	727.2	718.0	713.4	718.0	731.8	787.0
45°	821.5	839.9	821.5	777.8	720.3	701.9	704.2	701.9	706.5	720.3	773.2
47.5°	807.7	814.6	791.6	747.9	688.1	683.5	692.7	699.6	704.2	715.7	770.9
50°	787.0	787.0	766.3	720.3	660.4	662.7	674.3	690.4	692.7	706.5	750.2
52.5°	761.7	759.4	745.6	701.9	637.4	644.3	644.3	662.7	667.4	683.5	729.5
55°	741.0	736.4	729.5	688.1	616.7	628.2	621.3	628.2	639.7	655.8	706.5
57.5°	722.6	713.4	713.4	676.6	600.6	605.2	589.1	598.3	612.1	625.9	678.9
60°	704.2	695.0	699.6	660.4	575.3	570.7	563.8	582.2	586.8	602.9	655.8
62.5°	683.5	676.6	678.9	642.0	556.9	545.4	545.4	561.5	563.8	586.8	637.4
65°	667.4	658.1	655.8	623.6	536.2	522.4	529.3	536.2	540.8	563.8	612.1
67.5°	651.2	632.8	632.8	607.5	513.2	499.4	513.2	510.9	517.8	538.5	577.6
70°	630.5	605.2	607.5	596.0	490.2	474.0	485.6	483.3	487.9	501.7	540.8
72.5°	598.3	577.6	582.2	577.6	467.1	444.1	448.7	448.7	448.7	460.2	501.7
75°	556.9	540.8	554.6	566.1	439.5	407.3	411.9	411.9	405.0	411.9	462.5
77.5°	506.3	497.1	543.1	527.0	407.3	368.2	368.2	363.6	349.8	359.0	414.2
80°	451.0	444.1	501.7	441.8	370.5	319.9	315.3	303.8	290.0	296.9	352.1
82.5°	393.5	386.6	421.1	338.3	319.9	264.6	253.1	232.4	218.6	225.5	276.1
85°	322.2	322.2	324.5	255.4	243.9	202.5	188.7	161.1	145.0	149.6	197.9
87.5°	230.1	237.0	218.6	174.9	145.0	112.8	103.6	87.4	73.6	85.1	103.6
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: P193847

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2
2.5°	12157.3	12410.4	12698.1	13066.3	13381.5	13899.3	14396.4	14695.5
5°	9089.8	9510.9	10035.6	10709.8	11338.1	12281.6	13218.2	13818.8
7.5°	6505.5	6956.6	7522.7	8364.9	9253.2	10456.7	11694.8	12412.7
10°	5382.5	5845.1	6321.4	6889.8	7617.0	8926.4	10390.0	11200.0
12.5°	4452.8	4947.6	5460.8	6059.1	6733.3	7902.4	9589.1	10521.1
15°	3408.1	3960.4	4565.6	5322.7	6167.2	7518.1	9391.2	10403.8
17.5°	2335.7	2952.5	3695.7	4630.0	5663.3	7393.8	9745.6	10912.3
20°	1608.5	2057.3	2851.2	3946.6	5189.2	7377.7	10426.8	11888.1
22.5°	1346.2	1546.4	2126.3	3318.3	4832.5	7575.6	11483.0	13257.3
25°	1245.0	1364.6	1698.3	2773.0	4572.5	8031.2	12937.4	15029.2
27.5°	1185.1	1293.3	1541.8	2416.3	4367.7	8560.5	14352.6	16745.9
30°	1208.1	1318.6	1498.1	2234.5	4089.3	9002.3	15609.1	18085.2
32.5°	1088.5	1136.8	1284.1	2073.4	3889.0	9372.8	16709.1	19194.4
35°	927.4	1012.5	1146.0	1997.5	3893.6	9621.4	17908.0	20611.9
37.5°	883.7	968.8	1065.5	1969.8	3946.6	9886.0	19284.1	22273.4
40°	856.1	934.3	1017.1	1953.7	3997.2	10127.6	20632.7	23916.5
42.5°	837.6	909.0	1012.5	1898.5	4022.5	10343.9	21741.8	25313.3
45°	835.3	909.0	1030.9	1843.3	4061.6	10576.4	22671.5	26346.6
47.5°	837.6	938.9	996.4	1776.5	4061.6	10965.3	23762.3	27269.3
50°	828.4	989.5	959.6	1682.2	3967.3	11701.7	25258.1	28505.1
52.5°	823.8	982.6	888.3	1537.2	3803.9	12870.7	27175.0	30208.0
55°	812.3	948.1	837.6	1320.9	3612.9	14145.5	29227.7	32221.5
57.5°	800.8	839.9	810.0	1132.2	3318.3	15043.0	30640.6	33793.3
60°	897.5	734.1	787.0	1040.1	2924.8	15289.2	30585.4	34419.2
62.5°	830.7	688.1	757.1	1019.4	2648.7	14598.9	29172.4	34080.9
65°	651.2	658.1	727.2	1079.3	2575.1	12769.4	26668.7	32518.4
67.5°	596.0	628.2	697.3	1155.2	2582.0	10224.3	22927.0	29114.9
70°	561.5	596.0	662.7	1194.3	2600.4	7621.6	18126.6	23714.0
72.5°	522.4	552.3	623.6	1201.2	2480.7	5536.7	13970.6	17436.3
75°	476.4	504.0	568.4	1047.1	2055.0	3840.7	10686.8	11929.5
77.5°	423.4	444.1	499.4	807.7	1525.7	2457.7	8022.0	8714.7
80°	361.3	372.8	418.8	591.4	1044.7	1537.2	6346.7	6993.4
82.5°	290.0	294.6	324.5	444.1	678.9	987.2	4250.3	4851.0
85°	204.8	204.8	223.2	322.2	462.5	625.9	2308.1	2558.9
87.5°	96.7	99.0	99.0	177.2	241.6	317.6	531.6	326.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)