

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: P194626

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194626
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-08-LED-E1-SLL-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 800mA 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: 33872 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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



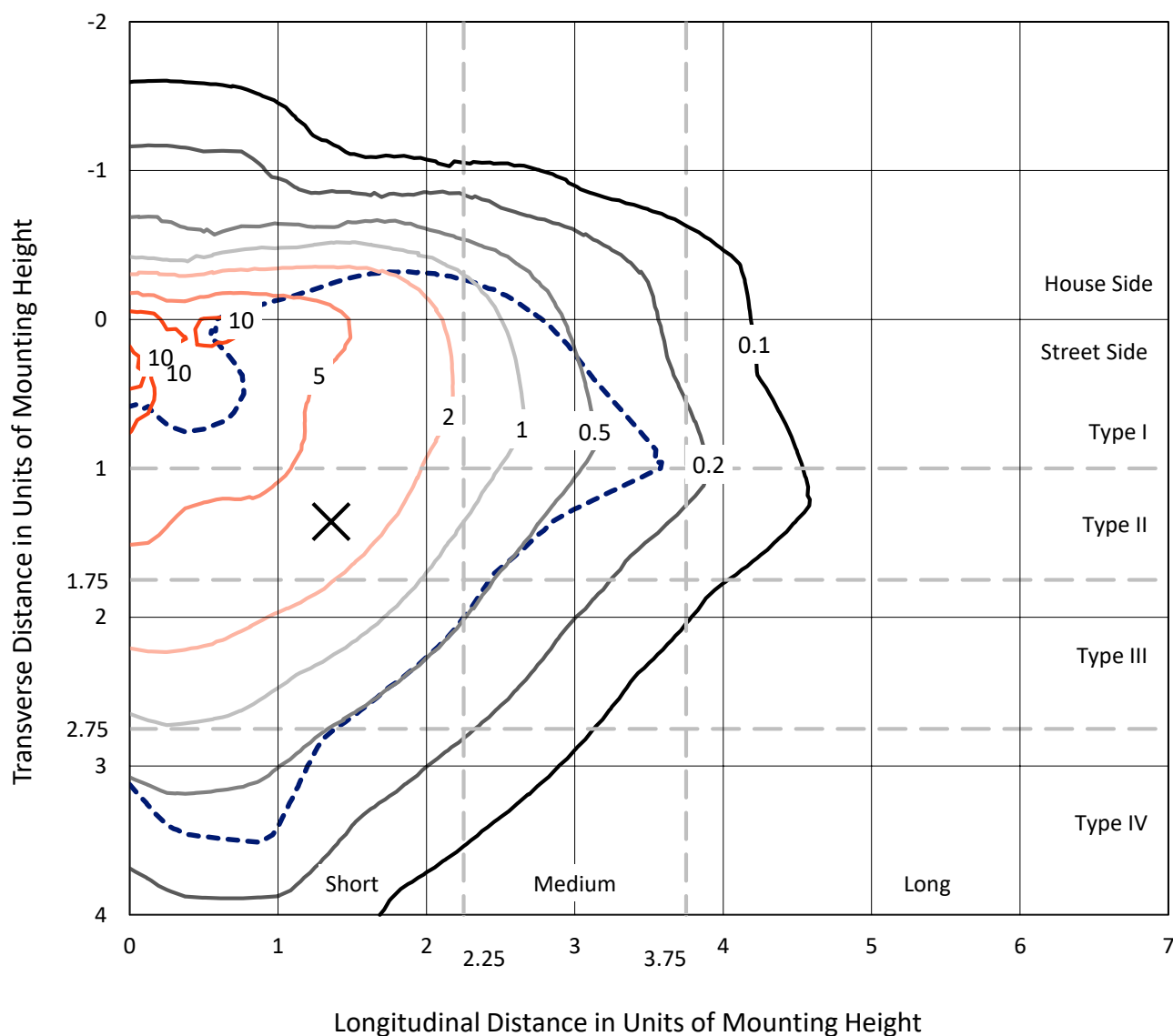
REPORT NUMBER: P194626

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7060-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

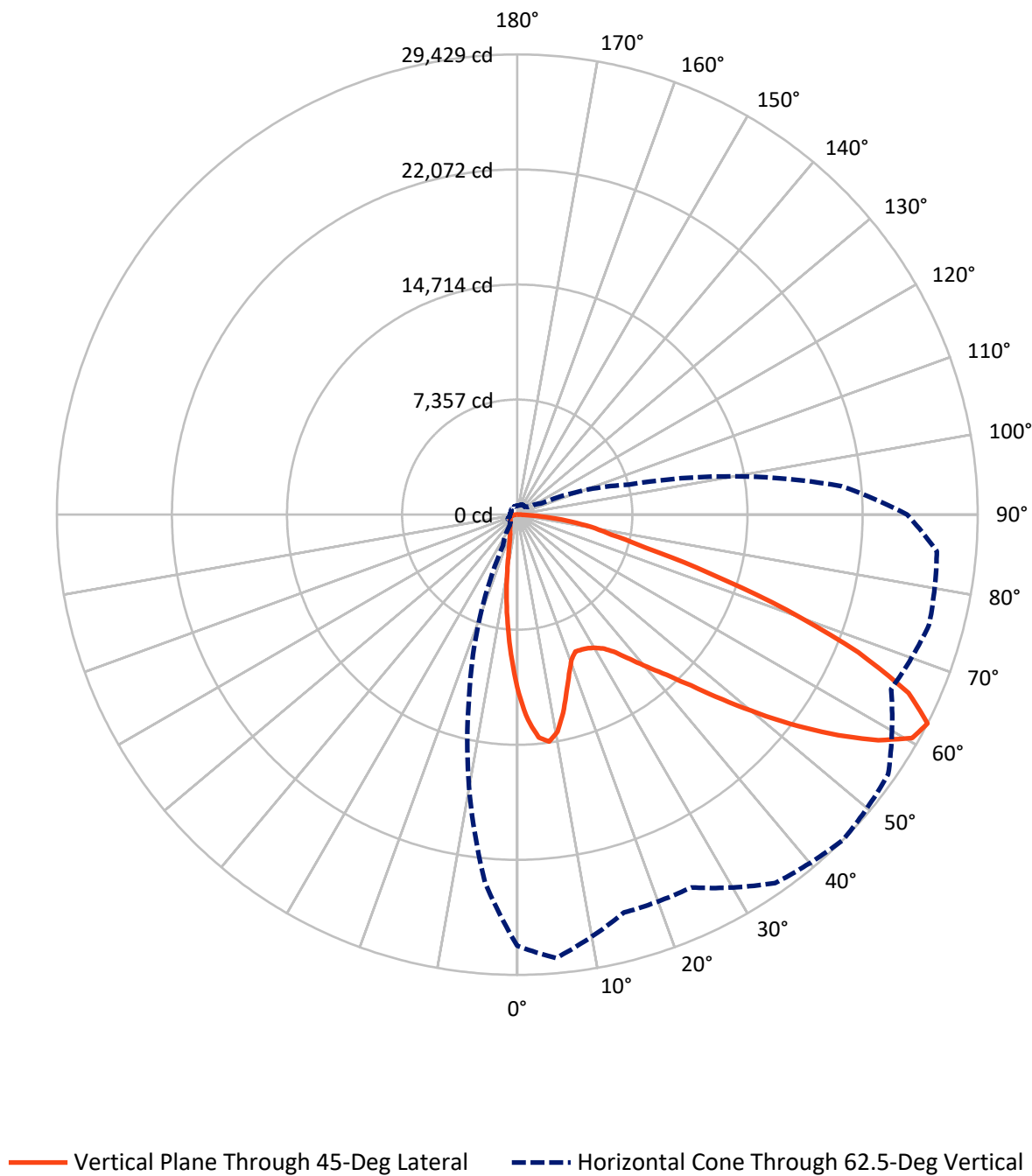


Based on 30 foot mounting height. Maximum calculated value = 15 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P194626

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7060-800

Luminous Intensity Polar Plot



REPORT NUMBER: P194626

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7060-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5605.3	0.0	5605.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	28266.7	0.0	28266.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	33872.0	0.0	33872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.1	2.5
10°-20°	1527.6	4.5
20°-30°	2227.2	6.6
30°-40°	3430.3	10.1
40°-50°	5048.5	14.9
50°-60°	7405.0	21.9
60°-70°	8277.7	24.4
70°-80°	4052.7	12.0
80°-90°	1070.0	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°	33872.0	100.0
0°-180°	33872.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194626

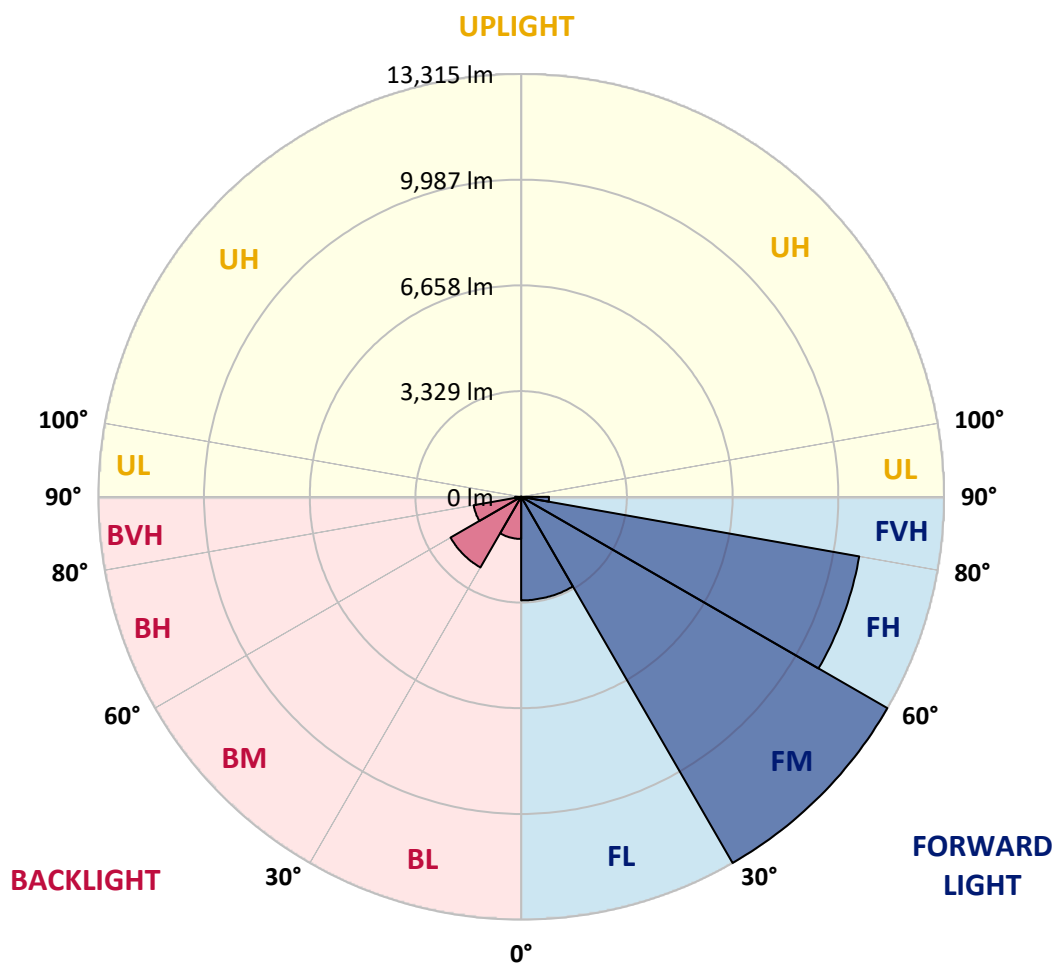
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7060-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3261.8	9.6			
FM	(30°-60°)	13315.4	39.3			
FH	(60°-80°)	10810.8	31.9			G4/12000
FVH	(80°-90°)	878.7	2.6			G5
BL	(0°-30°)	1326.1	3.9	B3/2500		
BM	(30°-60°)	2568.3	7.6	B3/5000		
BH	(60°-80°)	1519.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	191.3	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: P194626

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7060-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8
2.5°	11890.7	12080.6	12451.1	12728.6	13065.6	13143.8	13251.8	13145.6	12957.6	12708.1	12626.1
5°	11181.2	11587.2	12486.5	13277.8	13981.7	14309.4	14400.6	14130.6	13585.1	12868.2	12430.6
7.5°	10043.6	10620.8	11838.5	13004.1	14041.3	14653.9	14639.0	14011.5	13007.9	11840.4	11138.4
10°	9062.3	9721.4	11117.9	12421.3	13521.8	14115.7	13886.7	13084.2	11886.9	10542.6	9781.0
12.5°	8513.0	9159.1	10576.1	11885.1	12804.9	13009.7	12834.7	12048.9	10920.6	9561.3	8894.7
15°	8418.1	9127.5	10360.1	11425.2	11940.9	11762.2	11553.6	11201.7	10404.8	9244.8	8550.3
17.5°	8829.6	9611.6	10607.8	11104.9	11017.4	10706.4	10646.9	10686.0	10494.2	9596.7	8796.0
20°	9619.0	10557.5	11198.0	10954.1	10315.4	9887.2	9902.1	10499.8	11067.7	10488.6	9574.3
22.5°	10726.9	11797.6	12048.9	11034.1	10019.4	9511.0	9633.9	10602.2	11981.9	11792.0	10624.5
25°	12160.7	13136.3	12955.7	11324.6	10049.2	9557.6	9656.3	10955.9	13061.9	13095.4	11924.2
27.5°	13549.7	14454.6	13717.3	11710.1	10172.0	9667.4	9797.8	11512.7	14093.4	14510.5	13410.0
30°	14633.4	15262.7	14018.9	12062.0	10414.1	9881.6	10043.6	12041.5	14562.6	15465.7	14553.3
32.5°	15530.9	15983.3	14499.3	12497.7	10859.1	10218.6	10503.5	12683.9	15238.5	16374.3	15672.4
35°	16677.8	16806.3	15097.0	12983.7	11546.2	10805.1	11158.9	13313.2	15882.8	17292.3	16774.7
37.5°	18022.2	17856.5	15661.2	13648.4	12434.4	11723.1	12015.4	14004.0	16413.4	18333.1	17901.2
40°	19351.7	18953.2	16368.7	14679.9	13730.3	12804.9	13151.2	14741.4	16908.7	19375.9	19001.6
42.5°	20481.9	19891.6	17067.0	15813.9	14936.9	13998.4	14411.8	15484.3	17381.7	20265.9	19956.8
45°	21317.9	20584.3	17731.7	16903.1	16599.6	15584.9	15780.4	16335.2	17893.7	21008.8	20742.6
47.5°	22064.6	21280.7	18484.0	18001.7	18053.8	17647.9	17333.3	17325.8	18497.0	21615.8	21485.5
50°	23064.5	22247.0	19292.1	19133.8	20236.1	19966.1	19271.6	18482.1	19260.4	22304.8	22289.9
52.5°	24442.3	23777.6	20278.9	20353.4	22273.1	22450.0	21589.8	19871.1	20455.8	23569.1	23479.7
55°	26071.6	25684.3	21623.3	21755.5	24771.9	24898.5	24043.9	21608.4	22213.5	25399.4	25151.8
57.5°	27343.3	27261.4	23098.0	23438.7	26637.6	27207.4	26421.6	23619.3	24194.7	26941.1	26319.2
60°	27849.8	28246.4	24667.6	25136.9	28363.7	28994.9	28306.0	25386.4	25950.5	27579.8	26239.2
62.5°	27576.1	28462.4	26339.7	26300.6	28749.1	29428.7	28944.6	26369.5	27252.1	26920.6	24911.6
65°	26311.8	27685.9	27309.8	26000.8	27430.8	27486.7	27330.3	25930.1	27559.3	24837.1	22345.7
67.5°	23557.9	25535.3	26032.5	23431.3	23874.4	23511.3	23248.8	23524.4	25958.0	21714.5	18780.0
70°	19187.8	22163.3	22401.6	18740.9	18539.8	18295.9	17772.7	19286.5	22798.2	17796.9	14901.5
72.5°	14108.3	17236.4	17968.2	13745.2	12814.2	12864.5	12451.1	14534.7	18536.1	13220.1	11125.4
75°	9652.6	12480.9	14058.0	9591.1	8473.9	8494.4	8442.3	10298.7	14763.7	9196.4	8325.0
77.5°	7051.4	8917.1	10602.2	6448.1	6260.0	6144.6	6116.6	7205.9	11319.0	6677.1	6464.8
80°	5658.6	6587.7	7122.1	4468.8	4805.8	4796.5	4641.9	4954.8	7392.1	4884.0	4835.6
82.5°	3925.1	5062.7	5770.3	3502.4	3243.6	3189.6	3226.8	3690.5	5224.7	3338.5	3174.7
85°	2070.5	3362.8	5714.4	3103.9	1925.3	1536.1	1910.4	3022.0	4526.5	1768.9	1549.2
87.5°	264.4	972.0	3783.6	1238.2	759.7	409.6	906.8	1701.9	2906.6	361.2	314.7
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: P194626

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7060-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8
2.5°	12415.7	12168.1	11844.1	11544.3	11233.4	10924.3	10520.2	10267.0	10092.0	10058.5	9984.0
5°	12114.1	11291.1	10669.2	10131.1	9643.2	8954.3	8572.6	8256.1	8086.6	8069.9	8028.9
7.5°	10723.2	9587.4	8747.6	7986.1	7295.3	6738.5	6124.1	5837.3	5720.0	5748.0	5775.9
10°	9276.4	8006.6	7042.0	6263.7	5654.9	5185.6	4692.2	4358.9	4128.0	4081.5	4072.2
12.5°	8218.8	6826.1	5889.5	5340.2	4869.1	4427.8	3904.6	3511.7	3211.9	3109.5	3040.6
15°	7771.9	6248.8	5267.6	4675.5	4156.0	3595.5	3109.5	2698.0	2422.4	2333.1	2282.8
17.5°	7866.9	6088.7	4839.3	4081.5	3416.8	2832.1	2219.5	1867.6	1701.9	1659.0	1659.0
20°	8365.9	6058.9	4485.5	3534.1	2705.5	2027.7	1525.0	1323.9	1269.9	1264.3	1279.2
22.5°	9066.0	6163.2	4221.1	3059.2	2102.2	1480.3	1187.9	1113.5	1089.3	1094.8	1111.6
25°	10108.7	6515.1	4029.3	2636.6	1649.7	1212.2	1059.5	1014.8	1003.6	1018.5	1039.0
27.5°	11345.1	6867.0	3910.2	2318.2	1392.8	1107.9	1007.3	960.8	968.2	986.9	1005.5
30°	12430.6	7155.6	3722.1	2091.0	1312.7	1113.5	1007.3	944.0	936.6	940.3	945.9
32.5°	13404.5	7351.1	3502.4	1875.0	1132.1	988.7	940.3	931.0	890.0	875.1	877.0
35°	14244.2	7351.1	3370.2	1748.4	1014.8	877.0	798.8	752.2	731.8	733.6	754.1
37.5°	15054.2	7204.0	3305.0	1677.7	951.5	834.2	765.3	724.3	696.4	690.8	694.5
40°	15769.2	6989.9	3230.6	1647.9	903.1	808.1	742.9	709.4	679.6	670.3	672.2
42.5°	16342.7	6816.7	3148.6	1608.8	873.3	789.5	728.0	698.2	664.7	655.4	653.6
45°	16962.7	6759.0	3040.6	1530.6	888.2	791.3	724.3	692.7	659.1	648.0	644.2
47.5°	17780.1	6939.6	2928.9	1437.5	919.8	800.7	729.9	692.7	657.3	648.0	644.2
50°	18809.8	7364.2	2787.4	1301.5	888.2	826.7	728.0	687.1	657.3	648.0	640.5
52.5°	20131.8	7937.7	2601.2	1145.1	869.5	890.0	724.3	675.9	648.0	634.9	621.9
55°	21738.7	8406.9	2379.6	1016.6	826.7	873.3	718.7	662.9	633.1	614.5	603.3
57.5°	22915.5	8576.3	2094.7	932.9	767.1	845.3	711.3	646.1	614.5	599.6	584.7
60°	22682.8	8248.6	1854.5	880.7	731.8	763.4	705.7	631.2	597.7	586.5	573.5
62.5°	20818.9	7392.1	1700.0	856.5	709.4	696.4	711.3	616.3	582.8	571.6	567.9
65°	18024.1	6127.8	1638.6	850.9	690.8	657.3	661.0	599.6	566.0	556.7	553.0
67.5°	14868.0	4945.4	1584.6	869.5	666.6	629.4	610.7	577.2	549.3	540.0	532.5
70°	11724.9	4113.1	1560.3	858.4	636.8	601.4	580.9	553.0	528.8	519.5	513.9
72.5°	9442.1	3474.5	1547.3	847.2	597.7	564.2	545.6	521.4	495.3	491.6	486.0
75°	7989.8	2731.5	1417.0	811.8	553.0	519.5	506.5	484.1	458.0	458.0	454.3
77.5°	6163.2	1975.6	1178.6	718.7	506.5	469.2	458.0	441.3	411.5	417.1	415.2
80°	4552.6	1288.5	921.7	595.8	448.7	413.4	407.8	391.0	359.4	366.8	366.8
82.5°	3118.8	845.3	662.9	487.8	383.6	350.1	350.1	333.3	297.9	301.6	312.8
85°	1565.9	580.9	495.3	378.0	297.9	281.2	281.2	268.1	232.7	234.6	249.5
87.5°	476.7	350.1	327.7	270.0	214.1	210.4	201.1	191.8	169.4	167.6	176.9
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: P194626

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7060-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8
2.5°	9870.4	9764.3	9635.8	9352.8	9257.8	9252.2	9337.9	9248.5	9419.8	9347.2	9427.3
5°	7960.0	7855.7	7712.4	7351.1	7131.4	6982.5	6911.7	6703.2	6854.0	6744.1	6835.4
7.5°	5854.1	5878.3	5783.3	5571.1	5092.5	4852.3	4710.8	4584.2	4694.1	4682.9	4857.9
10°	4115.0	4180.2	4113.1	3899.0	3511.7	3379.5	3405.6	3455.9	3599.2	3673.7	3943.7
12.5°	2962.4	2958.7	2915.9	2724.1	2469.0	2483.9	2590.0	2677.5	2809.7	2887.9	3163.5
15°	2212.0	2178.5	2159.9	2003.5	1858.3	1889.9	1942.1	1951.4	2035.2	2081.7	2305.1
17.5°	1672.1	1688.8	1709.3	1597.6	1487.7	1467.2	1426.3	1376.0	1400.2	1409.5	1521.2
20°	1327.6	1394.6	1444.9	1366.7	1255.0	1195.4	1143.3	1109.7	1109.7	1107.9	1139.5
22.5°	1160.0	1208.4	1262.4	1208.4	1107.9	1055.7	1026.0	999.9	996.2	996.2	1026.0
25°	1068.8	1104.2	1156.3	1119.1	1044.6	1005.5	977.5	944.0	931.0	927.3	947.8
27.5°	1024.1	1039.0	1065.1	1031.5	968.2	949.6	942.2	912.4	895.6	886.3	906.8
30°	947.8	944.0	945.9	912.4	862.1	860.2	873.3	878.9	873.3	871.4	903.1
32.5°	877.0	869.5	867.7	837.9	791.3	780.2	791.3	802.5	815.6	834.2	871.4
35°	787.6	806.2	817.4	791.3	735.5	702.0	688.9	668.5	657.3	657.3	700.1
37.5°	716.9	759.7	776.4	752.2	690.8	644.2	621.9	618.2	620.0	627.5	668.5
40°	692.7	724.3	739.2	715.0	653.6	610.7	597.7	594.0	597.7	608.9	649.8
42.5°	677.8	700.1	698.2	668.5	618.2	588.4	580.9	577.2	580.9	592.1	636.8
45°	664.7	679.6	664.7	629.4	582.8	567.9	569.8	567.9	571.6	582.8	625.6
47.5°	653.6	659.1	640.5	605.1	556.7	553.0	560.5	566.0	569.8	579.1	623.8
50°	636.8	636.8	620.0	582.8	534.4	536.3	545.6	558.6	560.5	571.6	607.0
52.5°	616.3	614.5	603.3	567.9	515.8	521.4	521.4	536.3	540.0	553.0	590.3
55°	599.6	595.8	590.3	556.7	499.0	508.3	502.7	508.3	517.6	530.7	571.6
57.5°	584.7	577.2	577.2	547.4	486.0	489.7	476.7	484.1	495.3	506.5	549.3
60°	569.8	562.3	566.0	534.4	465.5	461.8	456.2	471.1	474.8	487.8	530.7
62.5°	553.0	547.4	549.3	519.5	450.6	441.3	441.3	454.3	456.2	474.8	515.8
65°	540.0	532.5	530.7	504.6	433.8	422.7	428.3	433.8	437.6	456.2	495.3
67.5°	526.9	512.0	512.0	491.6	415.2	404.1	415.2	413.4	418.9	435.7	467.4
70°	510.2	489.7	491.6	482.3	396.6	383.6	392.9	391.0	394.7	405.9	437.6
72.5°	484.1	467.4	471.1	467.4	378.0	359.4	363.1	363.1	363.1	372.4	405.9
75°	450.6	437.6	448.7	458.0	355.6	329.6	333.3	333.3	327.7	333.3	374.3
77.5°	409.6	402.2	439.4	426.4	329.6	297.9	297.9	294.2	283.0	290.5	335.2
80°	364.9	359.4	405.9	357.5	299.8	258.8	255.1	245.8	234.6	240.2	284.9
82.5°	318.4	312.8	340.7	273.7	258.8	214.1	204.8	188.1	176.9	182.5	223.4
85°	260.7	260.7	262.5	206.7	197.4	163.9	152.7	130.3	117.3	121.0	160.1
87.5°	186.2	191.8	176.9	141.5	117.3	91.2	83.8	70.8	59.6	68.9	83.8
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: P194626

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7060-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8	11443.8
2.5°	9836.9	10041.7	10274.5	10572.4	10827.5	11246.4	11648.6	11890.7
5°	7354.9	7695.6	8120.1	8665.7	9174.0	9937.4	10695.3	11181.2
7.5°	5263.8	5628.8	6086.8	6768.3	7487.1	8460.9	9462.6	10043.6
10°	4355.2	4729.5	5114.9	5574.8	6163.2	7222.7	8406.9	9062.3
12.5°	3602.9	4003.3	4418.5	4902.6	5448.2	6394.1	7758.9	8513.0
15°	2757.6	3204.5	3694.2	4306.8	4990.1	6083.1	7598.8	8418.1
17.5°	1889.9	2388.9	2990.4	3746.3	4582.4	5982.6	7885.5	8829.6
20°	1301.5	1664.6	2307.0	3193.3	4198.8	5969.5	8436.7	9619.0
22.5°	1089.3	1251.3	1720.5	2685.0	3910.2	6129.7	9291.3	10726.9
25°	1007.3	1104.2	1374.1	2243.7	3699.8	6498.3	10468.1	12160.7
27.5°	958.9	1046.4	1247.5	1955.1	3534.1	6926.6	11613.2	13549.7
30°	977.5	1066.9	1212.2	1808.0	3308.8	7284.1	12629.9	14633.4
32.5°	880.7	919.8	1039.0	1677.7	3146.8	7583.9	13519.9	15530.9
35°	750.4	819.3	927.3	1616.2	3150.5	7785.0	14490.0	16677.8
37.5°	715.0	783.9	862.1	1593.9	3193.3	7999.1	15603.5	18022.2
40°	692.7	756.0	823.0	1580.8	3234.3	8194.6	16694.6	19351.7
42.5°	677.8	735.5	819.3	1536.1	3254.8	8369.6	17592.1	20481.9
45°	675.9	735.5	834.2	1491.5	3286.4	8557.7	18344.3	21317.9
47.5°	677.8	759.7	806.2	1437.5	3286.4	8872.4	19226.9	22064.6
50°	670.3	800.7	776.4	1361.1	3210.1	9468.2	20437.2	23064.5
52.5°	666.6	795.1	718.7	1243.8	3077.9	10414.1	21988.2	24442.3
55°	657.3	767.1	677.8	1068.8	2923.3	11445.6	23649.1	26071.6
57.5°	648.0	679.6	655.4	916.1	2685.0	12171.8	24792.4	27343.3
60°	726.2	594.0	636.8	841.6	2366.6	12371.1	24747.7	27849.8
62.5°	672.2	556.7	612.6	824.9	2143.1	11812.5	23604.4	27576.1
65°	526.9	532.5	588.4	873.3	2083.6	10332.2	21578.6	26311.8
67.5°	482.3	508.3	564.2	934.7	2089.2	8272.8	18551.0	23557.9
70°	454.3	482.3	536.3	966.4	2104.0	6166.9	14666.9	19187.8
72.5°	422.7	446.9	504.6	972.0	2007.2	4479.9	11304.1	14108.3
75°	385.4	407.8	459.9	847.2	1662.8	3107.7	8647.1	9652.6
77.5°	342.6	359.4	404.1	653.6	1234.5	1988.6	6490.9	7051.4
80°	292.3	301.6	338.9	478.5	845.3	1243.8	5135.4	5658.6
82.5°	234.6	238.3	262.5	359.4	549.3	798.8	3439.1	3925.1
85°	165.7	165.7	180.6	260.7	374.3	506.5	1867.6	2070.5
87.5°	78.2	80.1	80.1	143.4	195.5	257.0	430.1	264.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)