

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: P194686

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194686
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-SLR-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 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: 45990 lumens
Efficiency: N/A
Efficacy: 90.0 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): 511
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



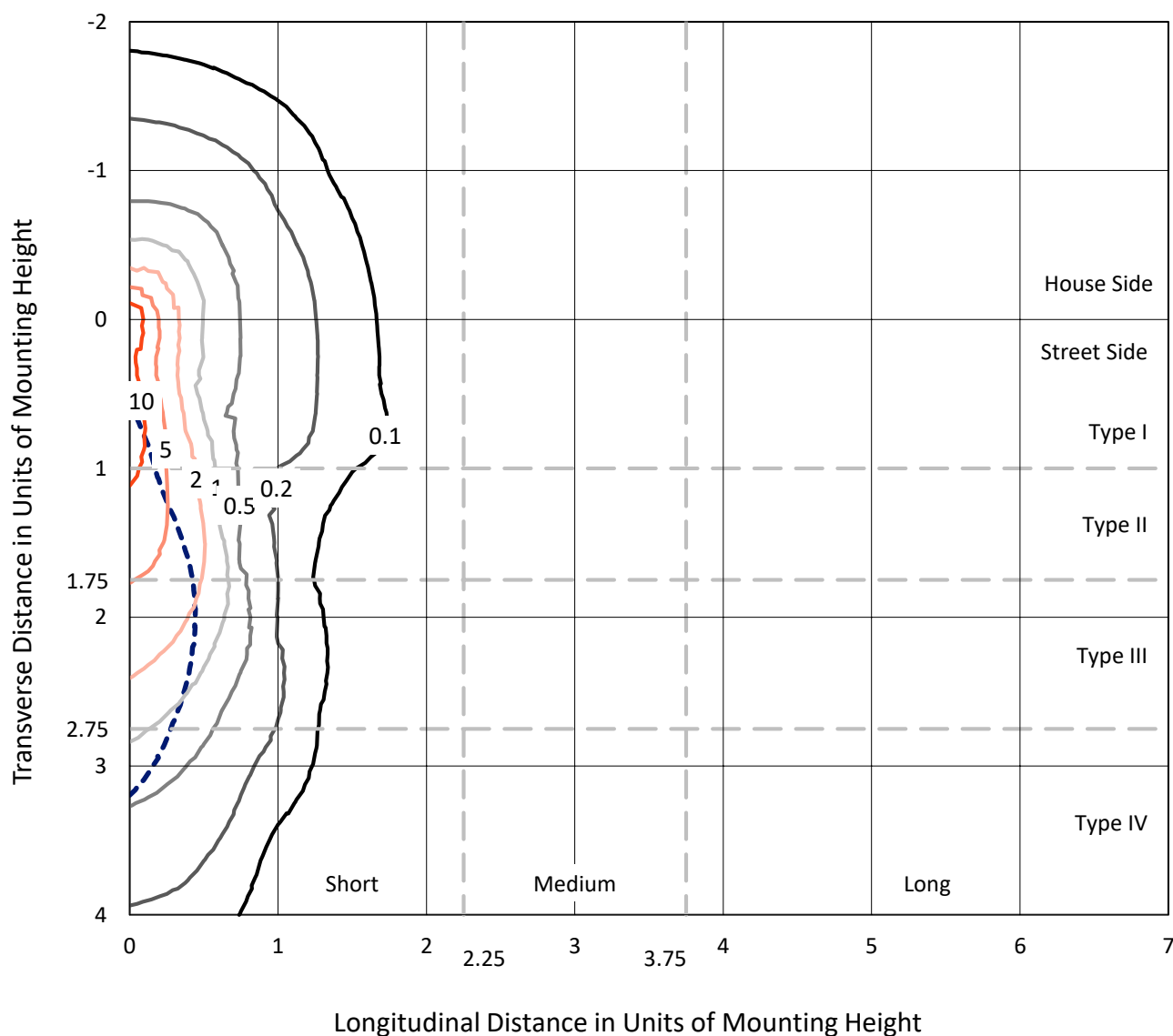
REPORT NUMBER: P194686

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7060-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

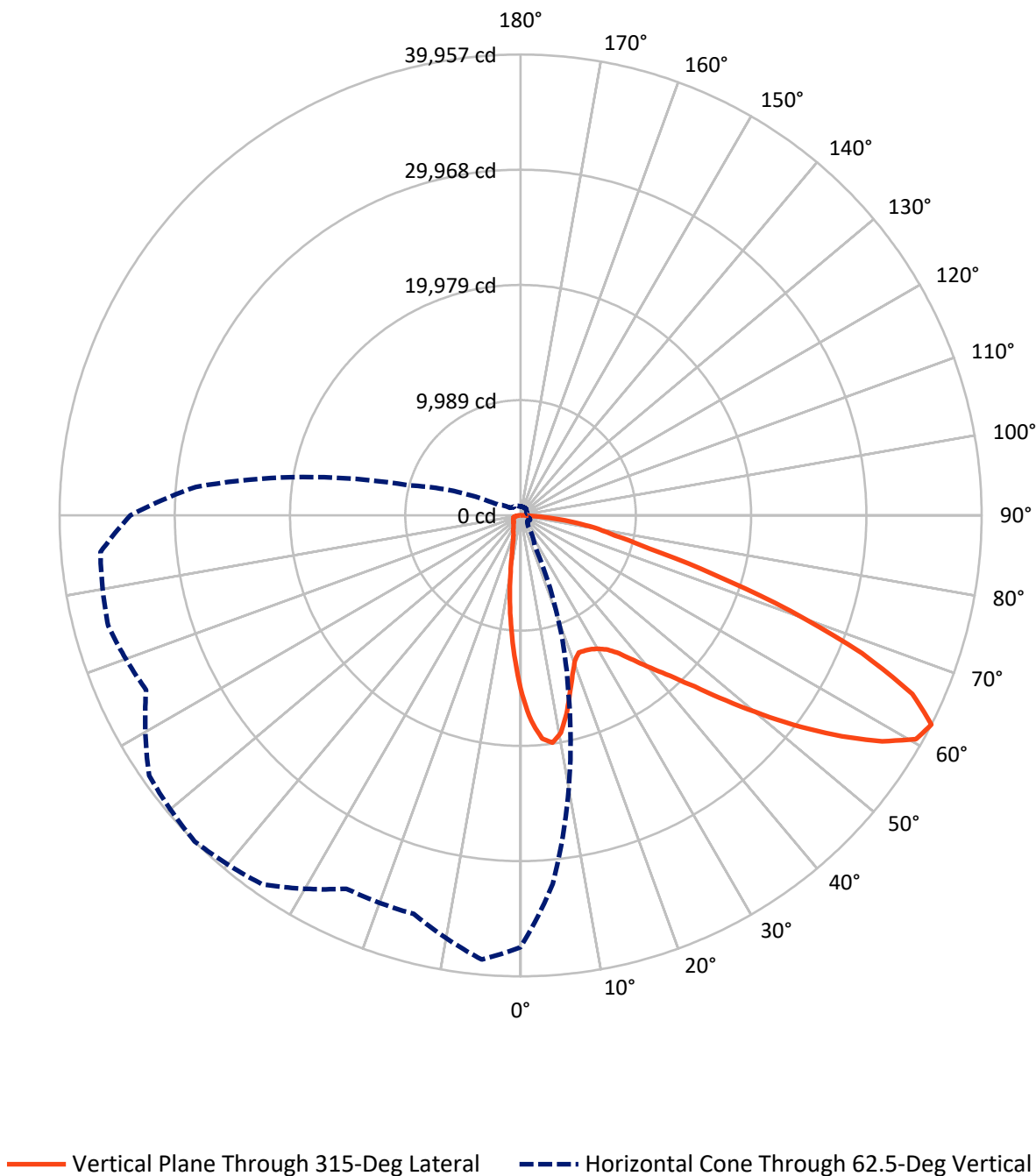


Based on 30 foot mounting height. Maximum calculated value = 17.3 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P194686

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7060-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P194686

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7610.7	0.0	7610.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	38379.3	0.0	38379.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	45990.0	0.0	45990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1131.1	2.5
10°-20°	2074.1	4.5
20°-30°	3024.0	6.6
30°-40°	4657.5	10.1
40°-50°	6854.6	14.9
50°-60°	10054.2	21.9
60°-70°	11239.2	24.4
70°-80°	5502.5	12.0
80°-90°	1452.8	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°	45990.0	100.0
0°-180°	45990.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194686

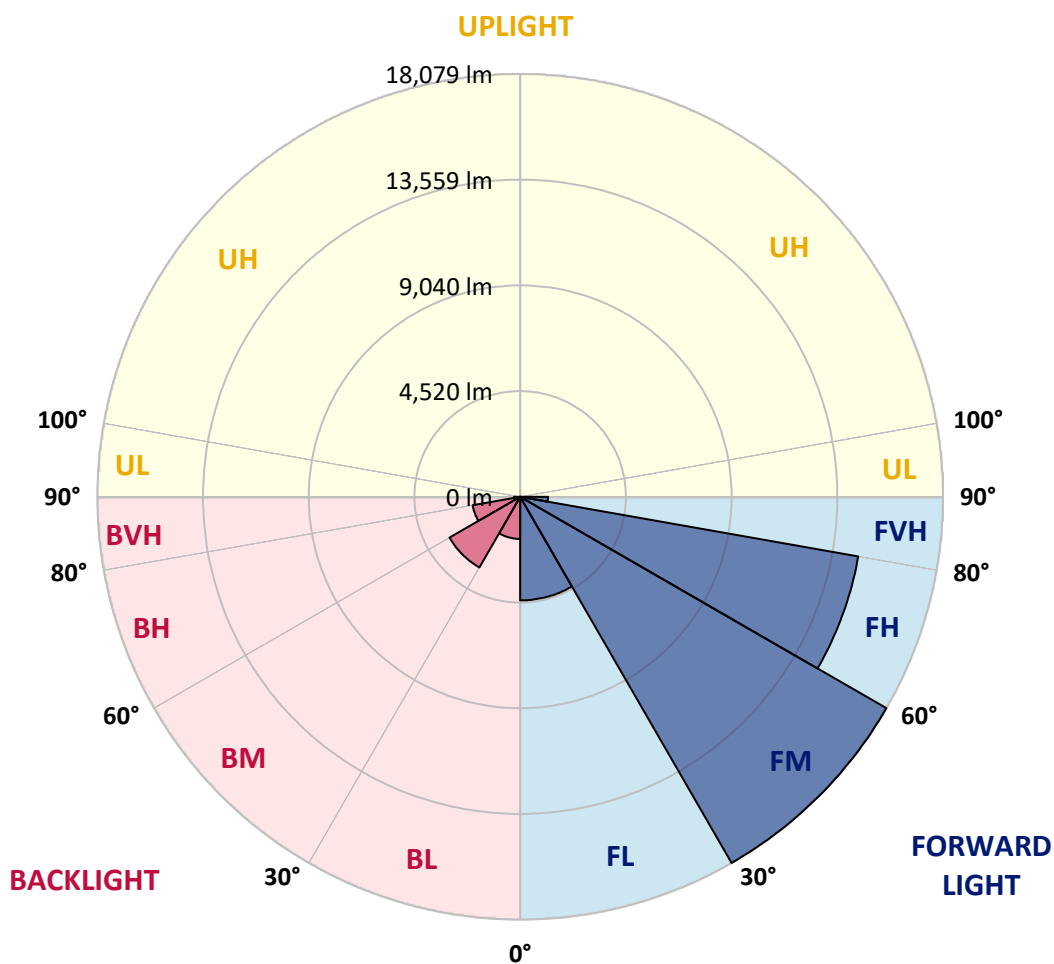
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7060-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4428.7	9.6			
FM	(30°-60°)	18079.1	39.3			
FH	(60°-80°)	14678.4	31.9			G5
FVH	(80°-90°)	1193.1	2.6			G5
BL	(0°-30°)	1800.6	3.9	B3/2500		
BM	(30°-60°)	3487.2	7.6	B3/5000		
BH	(60°-80°)	2063.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	259.7	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: P194686

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7060-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9
2.5°	16144.7	15816.0	15269.9	14701.1	14354.7	13950.2	13634.2	13356.1	12799.9	12691.2	12789.8
5°	15181.4	14521.6	13492.6	12456.1	11765.9	11025.2	10448.8	9986.1	9280.8	9156.9	9306.1
7.5°	13636.7	12848.0	11487.8	10165.6	9189.8	8264.5	7642.5	7147.0	6595.9	6358.3	6373.4
10°	12304.4	11414.5	9806.6	8368.1	7569.2	6944.8	6421.5	5913.3	5354.6	4988.0	4886.9
12.5°	11558.6	10534.7	8681.6	7397.3	6656.6	5999.3	5435.5	4891.9	4295.3	3921.1	3815.0
15°	11429.7	10317.3	8259.4	6775.4	5847.6	5015.8	4350.9	3744.2	3129.8	2826.5	2763.2
17.5°	11988.4	10706.6	8122.9	6221.7	5086.6	4060.2	3243.6	2566.1	2065.5	1913.8	1901.2
20°	13060.3	11455.0	8105.2	5700.9	4335.7	3132.4	2260.2	1767.2	1547.2	1504.2	1506.8
22.5°	14564.6	12615.4	8322.6	5309.1	3645.6	2336.0	1698.9	1479.0	1393.0	1352.6	1352.6
25°	16511.2	14213.2	8823.2	5023.4	3046.4	1865.8	1499.2	1367.7	1286.8	1259.0	1264.1
27.5°	18397.2	15768.0	9404.7	4798.4	2654.5	1693.8	1420.8	1302.0	1231.2	1203.4	1216.0
30°	19868.6	17148.3	9890.1	4492.5	2454.8	1645.8	1448.6	1327.3	1226.1	1183.2	1185.7
32.5°	21087.1	18356.8	10297.1	4272.5	2277.8	1410.7	1248.9	1195.8	1183.2	1132.6	1107.3
35°	22644.5	19673.9	10570.1	4277.6	2194.4	1259.0	1112.4	1018.8	950.6	892.4	892.4
37.5°	24469.8	21185.7	10860.9	4335.7	2164.1	1170.5	1064.3	970.8	907.6	852.0	841.9
40°	26274.9	22667.2	11126.3	4391.4	2146.4	1117.4	1026.4	940.5	882.3	826.7	811.5
42.5°	27809.5	23885.8	11364.0	4419.2	2085.7	1112.4	998.6	920.2	864.6	803.9	788.8
45°	28944.6	24907.2	11619.3	4462.2	2025.0	1132.6	998.6	917.7	849.5	791.3	776.1
47.5°	29958.4	26105.5	12046.5	4462.2	1951.7	1094.7	1031.5	920.2	846.9	786.2	773.6
50°	31316.0	27748.8	12855.6	4358.5	1848.1	1054.2	1087.1	910.1	824.2	776.1	761.0
52.5°	33186.8	29854.7	14139.8	4179.0	1688.8	975.9	1079.5	905.1	801.4	750.9	733.2
55°	35398.9	32109.8	15540.4	3969.2	1451.1	920.2	1041.6	892.4	776.1	720.5	702.8
57.5°	37125.6	33662.1	16526.4	3645.6	1243.8	889.9	922.8	879.8	745.8	687.7	672.5
60°	37813.3	33601.4	16796.9	3213.3	1142.7	864.6	806.5	986.0	720.5	662.4	644.7
62.5°	37441.6	32049.1	16038.5	2909.9	1120.0	831.8	755.9	912.7	700.3	644.7	619.4
65°	35725.0	29298.5	14028.6	2829.0	1185.7	798.9	723.0	715.5	672.5	619.4	594.1
67.5°	31985.9	25187.8	11232.5	2836.6	1269.1	766.0	690.2	654.8	634.6	591.6	568.8
70°	26052.4	19914.1	8373.2	2856.8	1312.1	728.1	654.8	616.9	594.1	551.1	536.0
72.5°	19155.7	15348.3	6082.7	2725.3	1319.7	685.1	606.8	573.9	551.1	505.6	493.0
75°	13105.8	11740.6	4219.5	2257.6	1150.3	624.4	553.7	523.3	508.2	452.5	445.0
77.5°	9574.0	8813.1	2700.0	1676.2	887.4	548.6	487.9	465.2	455.1	394.4	384.3
80°	7683.0	6972.6	1688.8	1147.8	649.7	460.1	409.6	396.9	386.8	326.1	318.5
82.5°	5329.3	4669.5	1084.6	745.8	487.9	356.5	323.6	318.5	303.4	247.8	240.2
85°	2811.3	2535.7	687.7	508.2	353.9	245.2	225.0	225.0	217.4	164.3	159.3
87.5°	359.0	584.0	348.9	265.5	194.7	108.7	108.7	106.2	113.8	93.5	80.9
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: P194686

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7060-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9
2.5°	12557.2	12678.6	12562.3	12569.9	12698.8	13083.1	13257.5	13401.6	13555.8	13657.0	13702.5
5°	9101.3	9384.4	9480.5	9682.7	9981.1	10471.5	10666.2	10807.8	10901.3	10956.9	10979.7
7.5°	6224.3	6396.2	6588.3	6914.4	7564.2	7852.4	7981.3	7948.4	7842.3	7804.3	7766.4
10°	4692.2	4624.0	4588.6	4768.1	5293.9	5584.6	5675.7	5587.2	5529.0	5541.7	5604.9
12.5°	3635.5	3516.6	3372.5	3352.3	3698.7	3959.1	4017.2	4022.3	4128.4	4222.0	4361.0
15°	2649.5	2636.8	2566.1	2523.1	2720.3	2932.6	2957.9	3003.4	3099.5	3167.7	3289.1
17.5°	1868.3	1936.5	1992.2	2020.0	2169.1	2320.8	2293.0	2270.3	2252.6	2252.6	2310.7
20°	1506.8	1552.3	1623.1	1704.0	1855.6	1961.8	1893.6	1802.6	1736.8	1716.6	1724.2
22.5°	1357.6	1393.0	1433.5	1504.2	1640.8	1714.1	1640.8	1575.0	1509.3	1486.5	1479.0
25°	1281.8	1327.3	1365.2	1418.3	1519.4	1570.0	1499.2	1451.1	1410.7	1382.9	1362.7
27.5°	1238.8	1279.2	1289.3	1314.6	1400.6	1446.1	1410.7	1390.5	1365.2	1339.9	1314.6
30°	1193.3	1185.7	1168.0	1170.5	1238.8	1284.3	1281.8	1286.8	1284.3	1276.7	1271.7
32.5°	1089.6	1074.5	1059.3	1074.5	1137.7	1178.1	1180.6	1190.8	1190.8	1188.2	1208.4
35°	907.6	935.4	953.1	998.6	1074.5	1109.8	1094.7	1069.4	1023.9	996.1	993.6
37.5°	839.3	844.4	874.7	937.9	1021.4	1054.2	1031.5	973.3	943.0	937.9	945.5
40°	806.5	811.5	829.2	887.4	970.8	1003.7	983.4	940.5	912.7	910.1	922.8
42.5°	783.7	788.8	798.9	839.3	907.6	948.0	950.6	920.2	887.4	889.9	902.5
45°	771.1	773.6	771.1	791.3	854.5	902.5	922.8	902.5	874.7	879.8	895.0
47.5°	768.6	761.0	750.9	755.9	821.6	869.7	895.0	887.4	874.7	879.8	892.4
50°	758.4	740.7	728.1	725.6	791.3	841.9	864.6	864.6	869.7	879.8	892.4
52.5°	728.1	707.9	707.9	700.3	771.1	819.1	834.3	836.8	844.4	862.1	879.8
55°	690.2	682.6	690.2	677.5	755.9	801.4	809.0	814.1	819.1	834.3	859.6
57.5°	657.3	647.2	664.9	659.8	743.3	783.7	783.7	793.8	793.8	814.1	834.3
60°	639.6	619.4	627.0	632.0	725.6	768.6	763.5	773.6	778.7	796.4	811.5
62.5°	616.9	599.2	599.2	611.8	705.3	745.8	743.3	750.9	771.1	776.1	791.3
65°	589.1	581.5	573.9	589.1	685.1	720.5	723.0	733.2	750.9	755.9	768.6
67.5°	561.2	563.8	548.6	563.8	667.4	695.2	695.2	715.5	723.0	733.2	745.8
70°	530.9	533.4	520.8	538.5	654.8	667.4	664.9	692.7	697.8	705.3	718.0
72.5°	493.0	493.0	487.9	513.2	634.6	639.6	634.6	657.3	659.8	667.4	672.5
75°	452.5	452.5	447.5	482.9	621.9	609.3	594.1	611.8	616.9	621.9	621.9
77.5°	399.4	404.5	404.5	447.5	578.9	596.6	546.1	556.2	563.8	566.3	558.7
80°	333.7	346.4	351.4	407.0	485.4	551.1	487.9	495.5	498.0	498.0	487.9
82.5°	255.3	278.1	290.7	351.4	371.6	462.6	424.7	432.3	424.7	409.6	404.5
85°	177.0	207.3	222.5	268.0	280.6	356.5	353.9	353.9	338.8	318.5	316.0
87.5°	96.1	113.8	123.9	159.3	192.1	240.2	260.4	252.8	240.2	227.5	230.1
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: P194686

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7060-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9
2.5°	13940.1	14283.9	14832.6	15252.2	15674.4	16081.4	16521.3	16857.6	17143.3	17254.5	17593.3
5°	11209.7	11639.5	12157.8	13093.2	13755.6	14486.2	15330.6	16448.0	16877.8	17471.9	18445.3
7.5°	7925.7	8315.0	9149.3	9905.2	10843.2	11877.2	13017.4	14559.5	15123.3	16076.4	17661.5
10°	5918.4	6370.9	7040.8	7677.9	8504.6	9561.4	10871.0	12595.2	13280.3	14314.3	16139.6
12.5°	4768.1	5301.5	6011.9	6611.1	7250.7	7996.5	9268.1	11159.2	12076.9	12982.0	14827.5
15°	3663.3	4222.0	4881.8	5642.8	6348.1	7152.1	8484.4	10552.4	11609.2	12552.2	14127.2
17.5°	2535.7	3013.5	3845.3	4639.1	5541.7	6570.6	8267.0	10681.4	11942.9	13030.0	14248.6
20°	1797.5	2070.5	2753.1	3673.4	4798.4	6090.3	8226.5	11358.9	12999.7	14241.0	15027.2
22.5°	1511.8	1612.9	2009.9	2854.3	4153.7	5731.3	8368.1	12309.5	14425.5	16010.7	16268.5
25°	1377.8	1438.5	1645.8	2239.9	3579.8	5470.9	8845.9	13725.2	16190.2	17780.4	17734.8
27.5°	1304.5	1367.7	1504.2	1891.0	3147.5	5309.1	9323.8	15403.9	18207.6	19701.7	19135.4
30°	1281.8	1367.7	1511.8	1782.3	2839.1	5053.7	9715.6	16877.8	19759.9	20998.7	19772.5
32.5°	1264.1	1276.7	1342.4	1537.1	2545.8	4755.4	9981.1	18200.0	21279.3	22232.4	20690.2
35°	1021.4	1084.6	1190.8	1377.8	2373.9	4575.9	9981.1	19340.2	22775.9	23478.8	21565.0
37.5°	983.4	1039.1	1132.6	1291.9	2277.8	4487.4	9781.3	20439.9	24305.5	24892.0	22285.5
40°	963.2	1008.7	1097.2	1226.1	2237.4	4386.3	9490.6	21410.8	25799.6	26307.7	22958.0
42.5°	948.0	988.5	1071.9	1185.7	2184.3	4275.1	9255.5	22189.4	27096.5	27516.2	23600.1
45°	940.5	983.4	1074.5	1205.9	2078.1	4128.4	9177.1	23031.3	28163.4	28524.9	24295.3
47.5°	940.5	991.0	1087.1	1248.9	1951.7	3976.8	9422.3	24141.1	29172.1	29349.1	25114.5
50°	932.9	988.5	1122.5	1205.9	1767.2	3784.6	9998.8	25539.2	30264.3	30284.5	26151.0
52.5°	917.7	983.4	1208.4	1180.6	1554.8	3531.8	10777.4	27334.2	31879.7	32001.1	27774.1
55°	900.0	975.9	1185.7	1122.5	1380.4	3231.0	11414.5	29515.9	34150.0	34486.2	30160.6
57.5°	877.3	965.7	1147.8	1041.6	1266.6	2844.1	11644.6	31113.7	35735.1	36579.5	32850.5
60°	857.0	958.2	1036.5	993.6	1195.8	2518.0	11199.6	30797.7	35626.4	37446.7	35234.6
62.5°	836.8	965.7	945.5	963.2	1162.9	2308.2	10036.7	28267.0	33823.9	36551.7	37001.7
65°	814.1	897.5	892.4	937.9	1155.4	2224.8	8320.1	24472.3	30340.1	33722.8	37418.9
67.5°	783.7	829.2	854.5	905.1	1180.6	2151.4	6714.7	20187.1	25498.7	29483.1	35244.7
70°	750.9	788.8	816.6	864.6	1165.5	2118.6	5584.6	15919.6	20232.6	24163.9	30954.4
72.5°	707.9	740.7	766.0	811.5	1150.3	2100.9	4717.5	12820.2	15105.6	17949.7	25167.6
75°	657.3	687.7	705.3	750.9	1102.3	1923.9	3708.8	10848.2	11303.3	12486.4	20045.6
77.5°	599.2	621.9	637.1	687.7	975.9	1600.3	2682.3	8368.1	8777.7	9065.9	15368.5
80°	530.9	553.7	561.2	609.3	809.0	1251.4	1749.5	6181.3	6565.6	6631.3	10036.7
82.5°	452.5	475.3	475.3	520.8	662.4	900.0	1147.8	4234.6	4310.5	4532.9	7093.9
85°	364.1	381.7	381.7	404.5	513.2	672.5	788.8	2126.2	2103.4	2401.7	6145.9
87.5°	260.4	273.0	285.7	290.7	366.6	445.0	475.3	647.2	427.3	490.5	3946.4
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: P194686

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7060-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9	15537.9
2.5°	17848.6	17992.7	17846.1	17739.9	17282.3	16905.6	16402.5	16144.7
5°	19186.0	19552.6	19428.7	18983.7	18028.1	16953.7	15732.6	15181.4
7.5°	19024.2	19876.2	19896.4	19064.6	17656.5	16073.9	14420.5	13636.7
10°	17765.2	18854.8	19165.8	18359.3	16865.2	15095.5	13199.4	12304.4
12.5°	16359.5	17426.4	17664.1	17386.0	16137.1	14359.8	12435.9	11558.6
15°	15209.2	15687.1	15970.2	16212.9	15512.6	14066.5	12392.9	11429.7
17.5°	14508.9	14455.9	14536.8	14959.0	15077.8	14402.8	13050.2	11988.4
20°	14256.1	13444.6	13424.4	14005.9	14873.0	15204.2	14334.5	13060.3
22.5°	14395.2	13080.6	12913.7	13603.9	14981.7	16359.5	16018.2	14564.6
25°	14875.5	13110.9	12976.9	13644.3	15376.1	17590.7	17836.0	16511.2
27.5°	15631.4	13303.0	13126.1	13811.2	15899.4	18624.7	19625.9	18397.2
30°	16349.4	13636.7	13416.8	14139.8	16377.2	19034.3	20723.1	19868.6
32.5°	17221.6	14261.2	13874.4	14744.1	16968.8	19686.6	21701.5	21087.1
35°	18076.1	15151.1	14670.8	15676.9	17628.7	20498.1	22818.9	22644.5
37.5°	19014.1	16314.0	15917.1	16882.9	18531.2	21264.1	24244.8	24469.8
40°	20015.2	17856.2	17386.0	18642.4	19931.8	22224.8	25733.9	26274.9
42.5°	21023.9	19567.7	19006.5	20280.7	21471.4	23172.9	27008.0	27809.5
45°	22179.3	21425.9	21160.5	22538.3	22950.4	24075.4	27948.5	28944.6
47.5°	23524.3	23534.4	23961.6	24512.8	24442.0	25096.8	28894.0	29958.4
50°	25094.2	26166.2	27109.2	27475.7	25979.1	26194.0	30206.1	31316.0
52.5°	26980.2	29313.7	30481.7	30241.5	27635.0	27533.9	32284.2	33186.8
55°	29339.0	32645.8	33806.2	33634.3	29538.7	29359.2	34873.1	35398.9
57.5°	32069.4	35874.2	36941.1	36167.5	31824.1	31361.5	37014.4	37125.6
60°	34468.6	38432.7	39368.1	38511.0	34129.8	33492.7	38351.8	37813.3
62.5°	35803.4	39299.8	39957.1	39034.4	35709.9	35763.0	38645.0	37441.6
65°	35206.8	37107.9	37320.3	37244.4	35302.8	37080.1	37590.8	35725.0
67.5°	31940.4	31566.3	31922.7	32415.7	31814.0	35345.8	34670.8	31985.9
70°	26186.4	24131.0	24841.4	25172.6	25445.6	30416.0	30092.4	26052.4
72.5°	19734.6	16905.6	17466.9	17398.6	18662.7	24396.5	23402.9	19155.7
75°	13983.1	11462.6	11533.3	11505.5	13022.4	19087.4	16946.1	13105.8
77.5°	9783.9	8304.9	8342.8	8499.6	8754.9	14395.2	12107.2	9574.0
80°	6727.4	6302.6	6512.5	6525.1	6067.5	9670.1	8944.5	7683.0
82.5°	5010.8	4381.3	4330.7	4404.0	4755.4	7834.7	6874.0	5329.3
85°	4103.2	2593.9	2085.7	2614.1	4214.4	7758.8	4565.8	2811.3
87.5°	2310.7	1231.2	556.2	1031.5	1681.2	5137.2	1319.7	359.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)