

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: P194834

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T3R-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36400 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 333
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

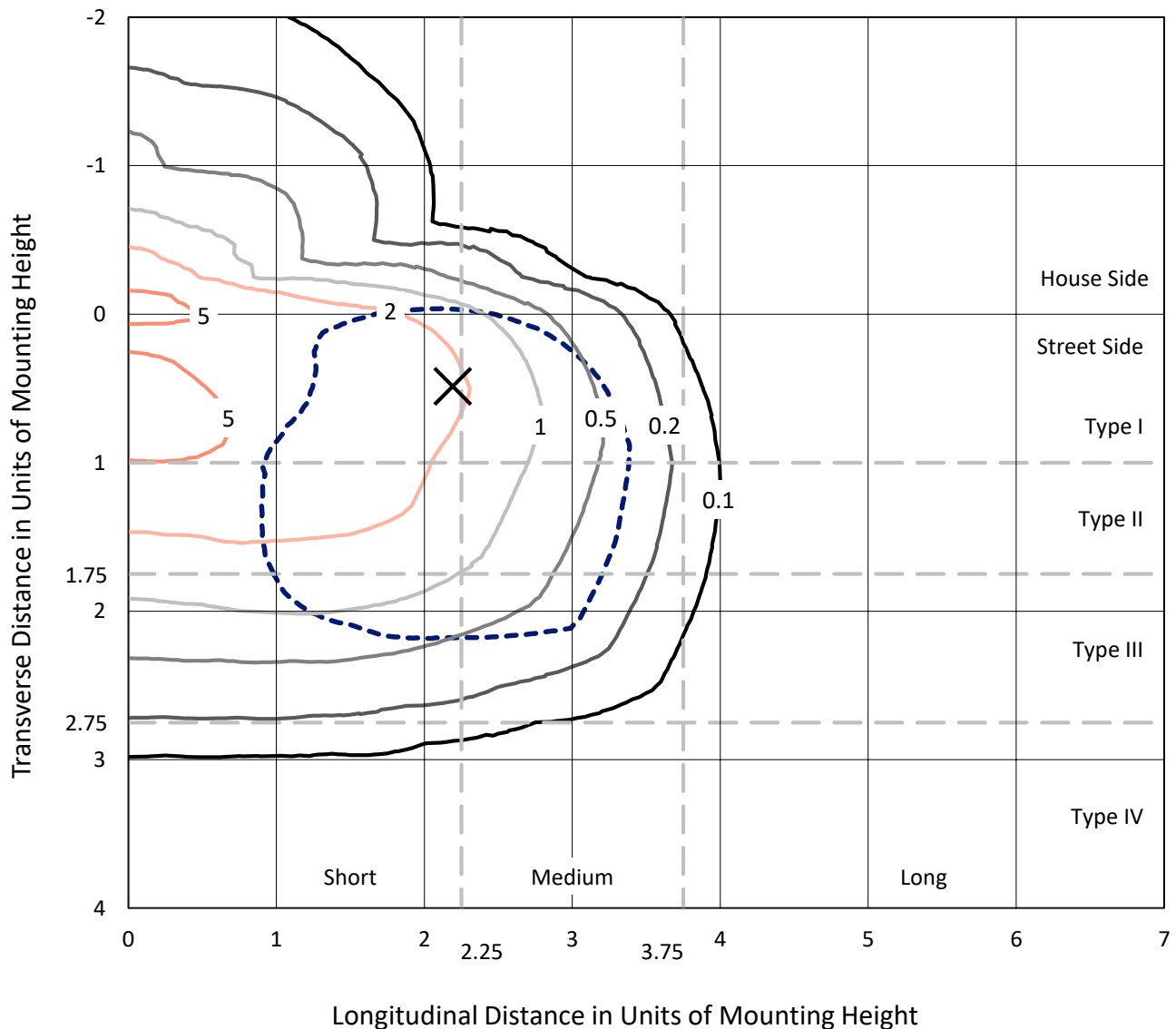


REPORT NUMBER: P194834

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

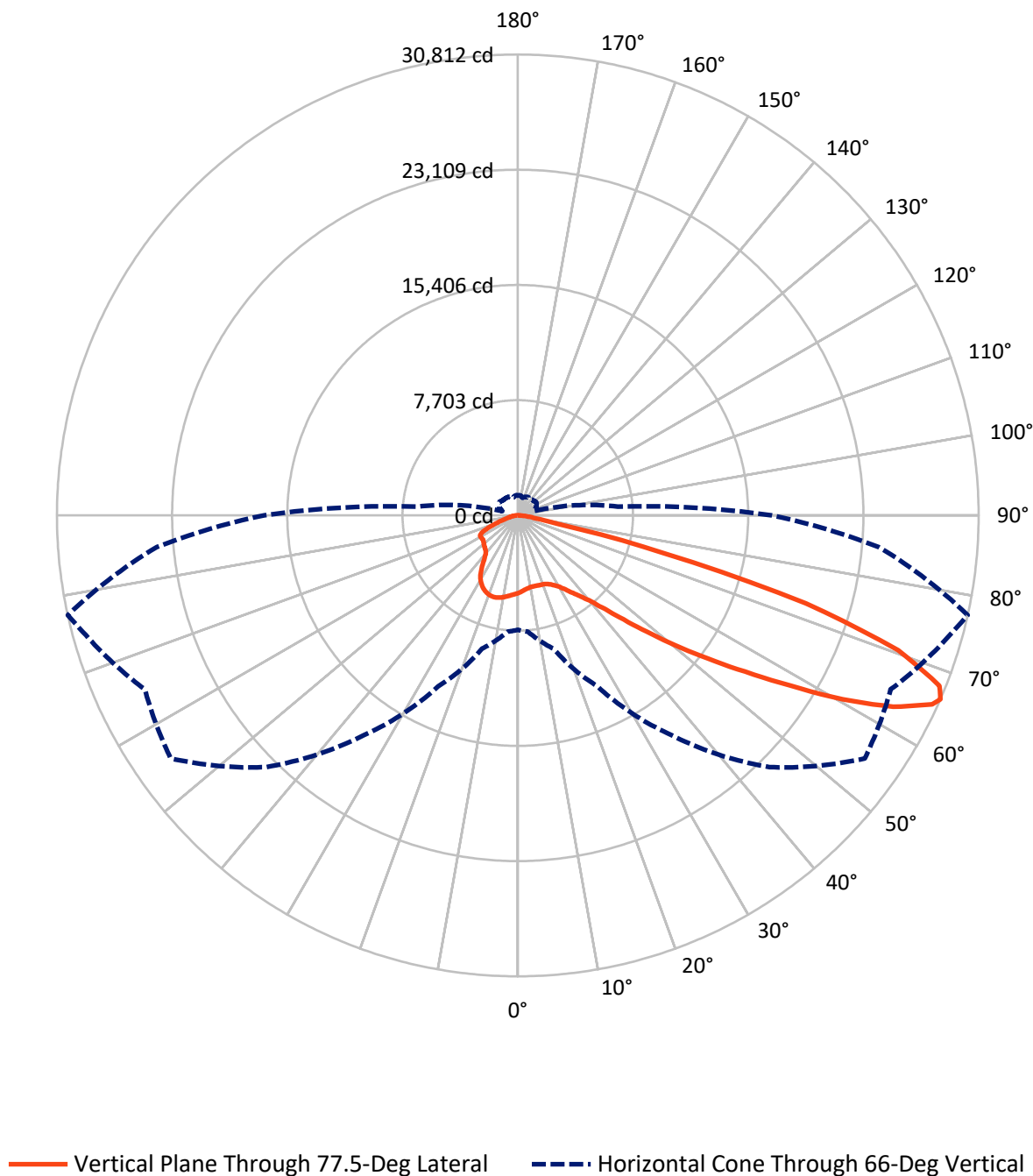


Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P194834

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P194834

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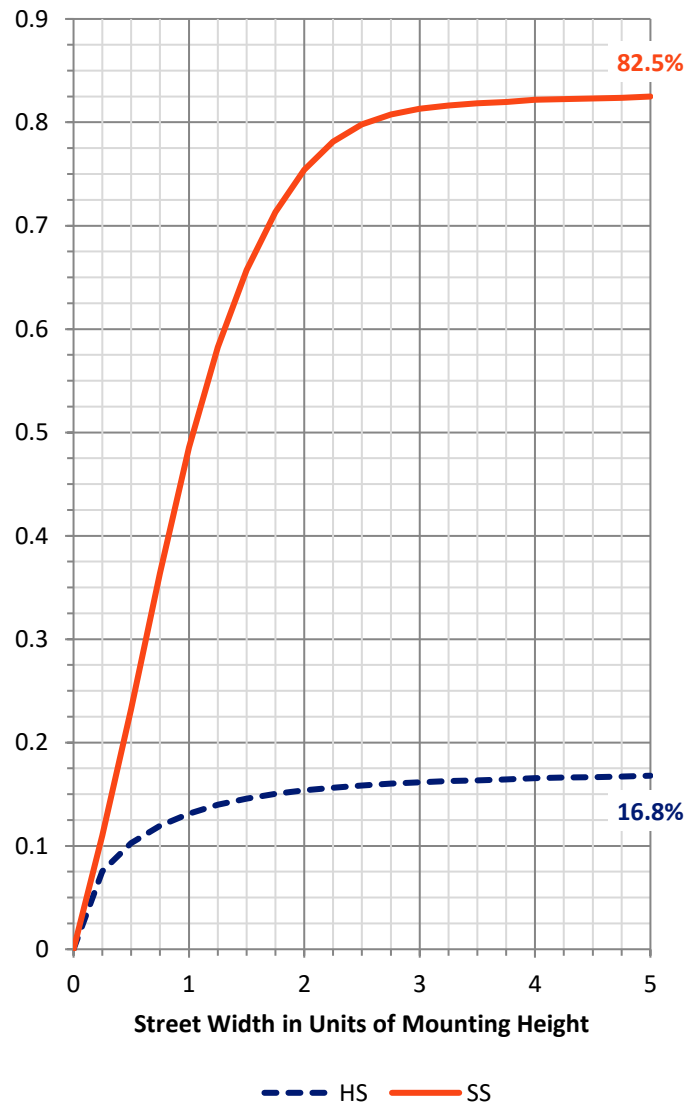
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6218.7	0.0	6218.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	30181.3	0.0	30181.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	36400.0	0.0	36400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.4	1.3
10°-20°	1307.4	3.6
20°-30°	2231.3	6.1
30°-40°	3571.9	9.8
40°-50°	5518.3	15.2
50°-60°	7826.8	21.5
60°-70°	10470.2	28.8
70°-80°	4547.0	12.5
80°-90°	463.6	1.3
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°	36400.0	100.0
0°-180°	36400.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194834

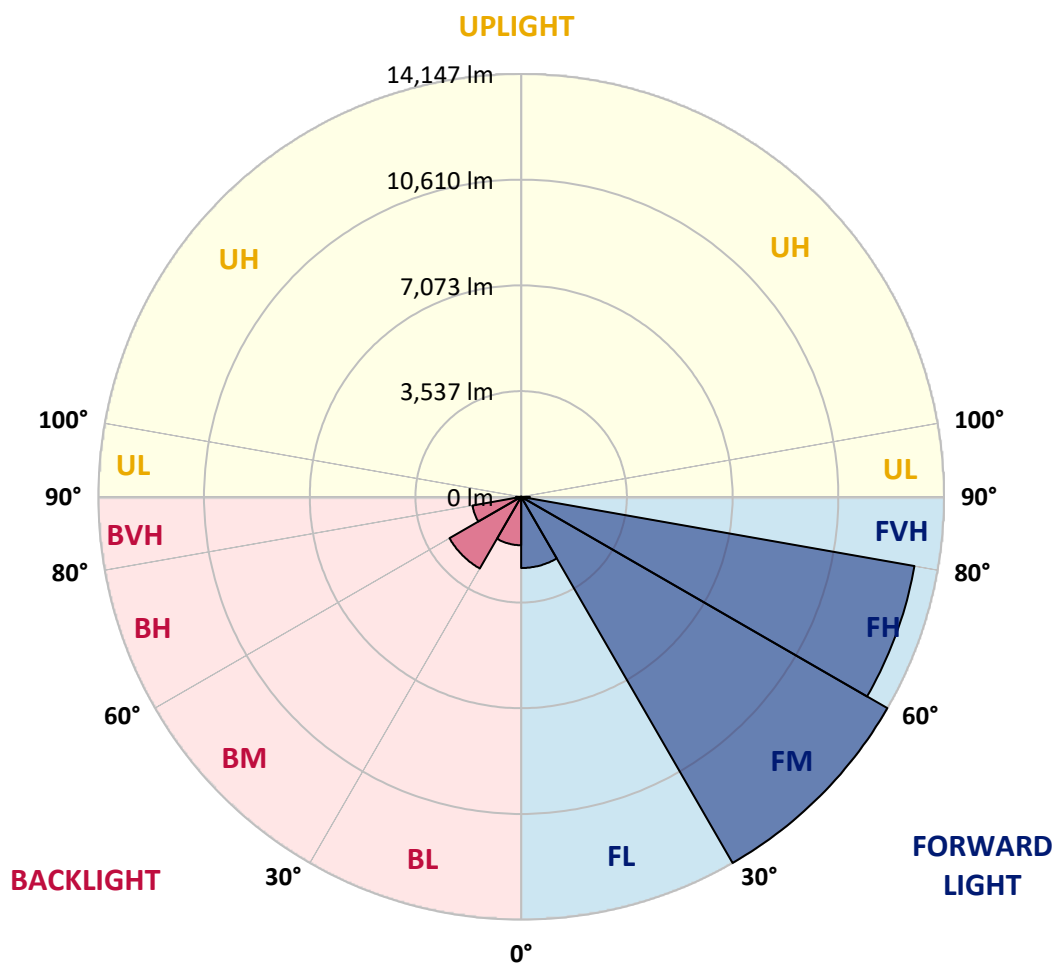
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2382.5	6.5			
FM	(30°-60°)	14146.9	38.9			
FH	(60°-80°)	13361.0	36.7			G5
FVH	(80°-90°)	290.8	0.8			G3/500
BL	(0°-30°)	1619.6	4.4	B3/2500		
BM	(30°-60°)	2770.1	7.6	B3/5000		
BH	(60°-80°)	1656.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	172.9	0.5			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 III Short



REPORT NUMBER: P194834

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	5187.2	5187.2	5187.2	5187.2	5187.2	5187.2	5187.2	5187.2	5187.2	5187.2	5187.2
2.5°	4588.7	4619.6	4645.4	4669.5	4717.6	4796.8	4887.9	4961.9	5068.5	5089.1	5145.9
5°	4167.3	4167.3	4187.9	4224.0	4289.4	4408.1	4531.9	4697.0	4929.2	4984.2	5135.6
7.5°	3962.6	3964.3	3976.4	4007.3	4064.1	4172.4	4308.3	4502.7	4817.4	4908.6	5166.5
10°	4038.3	4021.1	3995.3	3979.8	3988.4	4052.0	4181.0	4397.7	4748.6	4865.6	5235.3
12.5°	4461.4	4428.7	4339.3	4220.6	4107.1	4060.6	4136.3	4347.9	4719.4	4855.2	5326.5
15°	5152.8	5139.0	4972.2	4726.2	4451.1	4220.6	4169.0	4329.0	4722.8	4867.3	5434.8
17.5°	6019.6	6000.7	5780.5	5422.8	4973.9	4525.0	4284.2	4344.4	4734.8	4887.9	5539.7
20°	6895.0	6836.5	6599.2	6172.7	5596.5	4939.5	4475.1	4384.0	4750.3	4910.3	5649.8
22.5°	7548.6	7500.4	7287.2	6872.7	6208.8	5419.4	4731.4	4452.8	4800.2	4975.6	5785.7
25°	8123.0	8126.5	7914.9	7514.2	6827.9	5928.4	5061.6	4636.8	4927.5	5109.8	5971.4
27.5°	8833.3	8792.1	8594.3	8197.0	7440.2	6442.7	5460.6	4889.6	5116.7	5300.7	6215.7
30°	9683.0	9653.7	9425.0	8974.4	8119.6	6994.8	5916.4	5183.7	5360.9	5551.8	6535.6
32.5°	10682.2	10668.4	10431.1	9851.5	8903.8	7644.9	6451.3	5572.4	5725.5	5923.3	6994.8
35°	11855.2	11856.9	11576.5	10880.0	9762.1	8401.6	7058.4	6072.9	6169.2	6375.6	7541.7
37.5°	12577.5	12665.2	12560.3	11850.0	10733.8	9247.8	7846.1	6736.8	6674.9	6883.0	8128.2
40°	12732.3	12838.9	13170.9	12809.7	11820.8	10180.0	8544.4	7374.9	7297.5	7552.0	8883.2
42.5°	12515.6	12663.5	13365.2	13619.8	12974.8	11328.9	9483.4	8322.5	8224.5	8566.7	9822.3
45°	12386.6	12496.7	13308.5	14041.1	13975.8	12627.4	10678.8	9512.7	9476.6	9925.5	10905.8
47.5°	12163.0	12262.8	13043.6	14139.2	14564.0	13817.6	12114.9	10967.7	11038.2	11626.4	12128.6
50°	12283.4	12324.7	12747.8	13889.8	14734.3	14689.5	13719.5	12653.2	12894.0	13628.4	13513.1
52.5°	12266.2	12372.9	12713.4	13480.5	14756.6	15227.9	15300.1	14533.0	15040.4	15883.1	15049.0
55°	9916.9	10112.9	12309.2	13377.3	14835.7	15755.9	16707.0	16514.3	17460.3	18442.3	16782.6
57.5°	9469.7	9593.5	10811.2	13594.0	15255.4	16763.7	18272.1	18695.1	20277.4	21417.7	18894.7
60°	9382.0	9535.0	10795.7	13858.8	16106.7	18406.2	20592.2	21335.2	23705.2	24953.8	21343.8
62.5°	9108.5	9273.6	10694.2	13824.4	17315.8	20678.2	23562.4	24142.0	26955.8	28170.0	23392.2
65°	8241.7	8396.5	9867.0	13268.9	18131.0	23103.2	27077.9	26715.0	29521.8	30435.1	24413.8
66°	7648.3	7799.7	9215.1	12615.4	17941.8	23791.2	28323.1	27511.3	30096.3	30811.7	24214.3
67.5°	6563.1	6681.8	7949.3	11151.7	16935.7	23983.8	29370.5	28109.8	30156.5	30409.3	23074.0
70°	4146.6	4181.0	5166.5	7698.2	12820.0	20800.3	27776.1	26623.8	27669.5	26985.0	19343.5
72.5°	1799.0	1787.0	2480.1	3916.2	7257.9	13956.9	22468.6	21968.1	21704.9	20143.3	13540.7
75°	1001.0	1014.7	1288.2	1817.9	2949.6	6855.5	14698.1	14065.2	11875.8	10133.6	6140.0
77.5°	803.2	822.1	1068.0	1289.9	1324.3	2390.6	6877.8	5596.5	3369.3	2703.7	1706.1
80°	634.6	669.0	932.2	1004.4	892.6	985.5	2222.1	1776.6	1332.9	1222.8	884.0
82.5°	502.2	526.3	799.7	760.2	624.3	663.9	1064.6	1037.1	866.8	789.4	510.8
85°	361.2	405.9	657.0	572.7	409.3	447.2	706.9	677.6	497.0	405.9	225.3
87.5°	147.9	192.6	464.4	380.1	228.7	208.1	352.6	331.9	235.6	172.0	111.8
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: P194834

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3R-7060

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5187.2	5187.2	5187.2	5187.2	5187.2	5187.2	5187.2	5187.2	5187.2	5187.2	5187.2
2.5°	5182.0	5223.3	5276.6	5309.3	5326.5	5338.5	5357.4	5355.7	5360.9	5362.6	5369.5
5°	5216.4	5285.2	5362.6	5383.2	5383.2	5364.3	5345.4	5314.4	5302.4	5299.0	5302.4
7.5°	5305.8	5381.5	5448.6	5424.5	5372.9	5297.2	5199.2	5113.2	5066.8	5051.3	5047.9
10°	5419.4	5510.5	5538.0	5446.9	5295.5	5113.2	4918.9	4777.8	4697.0	4674.6	4667.8
12.5°	5556.9	5642.9	5605.1	5412.5	5132.1	4838.0	4569.7	4344.4	4175.9	4122.6	4119.1
15°	5708.3	5775.4	5642.9	5305.8	4887.9	4454.5	3976.4	3587.7	3377.9	3310.8	3305.6
17.5°	5849.3	5883.7	5620.6	5120.1	4528.5	3826.7	3192.1	2892.8	2820.6	2837.8	2841.2
20°	5969.7	5969.7	5544.9	4853.5	3962.6	2999.5	2598.7	2593.6	2645.2	2696.8	2707.1
22.5°	6102.2	6023.0	5412.5	4476.9	3161.1	2454.3	2395.8	2444.0	2502.4	2559.2	2567.8
25°	6265.5	6066.0	5228.5	3905.9	2485.2	2229.0	2251.3	2290.9	2320.1	2356.2	2361.4
27.5°	6447.8	6121.1	4985.9	3119.9	2156.7	2087.9	2105.1	2118.9	2115.5	2129.2	2132.7
30°	6666.3	6184.7	4654.0	2438.8	2020.9	1967.5	1936.6	1924.6	1924.6	1946.9	1955.5
32.5°	6958.7	6279.3	4177.6	2089.7	1955.5	1881.6	1781.8	1737.1	1754.3	1830.0	1847.2
35°	7280.3	6380.8	3532.6	1971.0	1941.8	1842.0	1687.2	1604.7	1606.4	1676.9	1699.2
37.5°	7631.1	6509.8	2825.8	1948.6	1972.7	1843.7	1637.3	1523.8	1477.4	1477.4	1486.0
40°	8080.0	6642.2	2287.4	1964.1	2038.1	1864.4	1611.5	1460.2	1329.5	1332.9	1339.8
42.5°	8664.8	6755.7	1998.5	1996.8	2117.2	1891.9	1609.8	1375.9	1262.4	1339.8	1410.3
45°	9314.9	6812.5	1871.2	2026.0	2180.8	1909.1	1582.3	1362.1	1271.0	1501.5	1635.6
47.5°	10063.0	6779.8	1800.7	2036.3	2196.3	1909.1	1551.3	1394.8	1331.2	1738.8	1895.3
50°	10883.4	6685.2	1731.9	2015.7	2191.1	1905.6	1580.6	1427.5	1353.5	1780.1	1888.4
52.5°	11848.3	6606.1	1659.7	1971.0	2155.0	1886.7	1615.0	1413.7	1283.0	1618.4	1694.1
55°	12949.0	6628.4	1578.9	1907.4	2098.3	1850.6	1602.9	1358.7	1209.1	1425.8	1472.2
57.5°	14355.9	6895.0	1482.5	1826.5	2020.9	1790.4	1559.9	1332.9	1186.7	1293.4	1320.9
60°	15926.1	7359.4	1362.1	1745.7	1924.6	1694.1	1527.3	1345.0	1197.0	1283.0	1296.8
62.5°	17078.5	7629.4	1259.0	1627.0	1793.8	1587.5	1486.0	1360.4	1224.6	1319.2	1315.7
65°	17391.5	7185.7	1130.0	1453.3	1616.7	1475.7	1434.4	1377.6	1236.6	1348.4	1332.9
66°	16952.9	6707.6	1073.2	1372.5	1527.3	1420.6	1408.6	1375.9	1231.4	1351.8	1326.0
67.5°	15888.3	5727.2	975.2	1253.8	1384.5	1338.1	1367.3	1360.4	1217.7	1348.4	1312.3
70°	12957.6	3907.6	834.1	1044.0	1152.3	1178.1	1288.2	1305.4	1173.0	1288.2	1209.1
72.5°	9053.5	2380.3	737.8	810.1	932.2	1004.4	1179.8	1229.7	1112.8	1124.8	1049.1
75°	4375.4	1264.1	669.0	627.8	724.1	839.3	1049.1	1126.5	1018.2	940.8	913.3
77.5°	1363.9	772.2	567.6	505.6	567.6	677.6	877.1	987.2	906.4	787.7	777.4
80°	732.7	567.6	436.9	405.9	448.9	531.4	689.7	823.8	779.1	706.9	631.2
82.5°	483.3	368.1	323.3	314.7	342.3	405.9	512.5	682.8	682.8	605.4	440.3
85°	249.4	225.3	221.9	221.9	239.1	270.0	349.1	526.3	560.7	319.9	264.9
87.5°	123.8	129.0	120.4	125.6	134.2	132.4	166.8	264.9	316.5	194.3	161.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)