

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: P193145

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T2R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34275.7 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 295
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

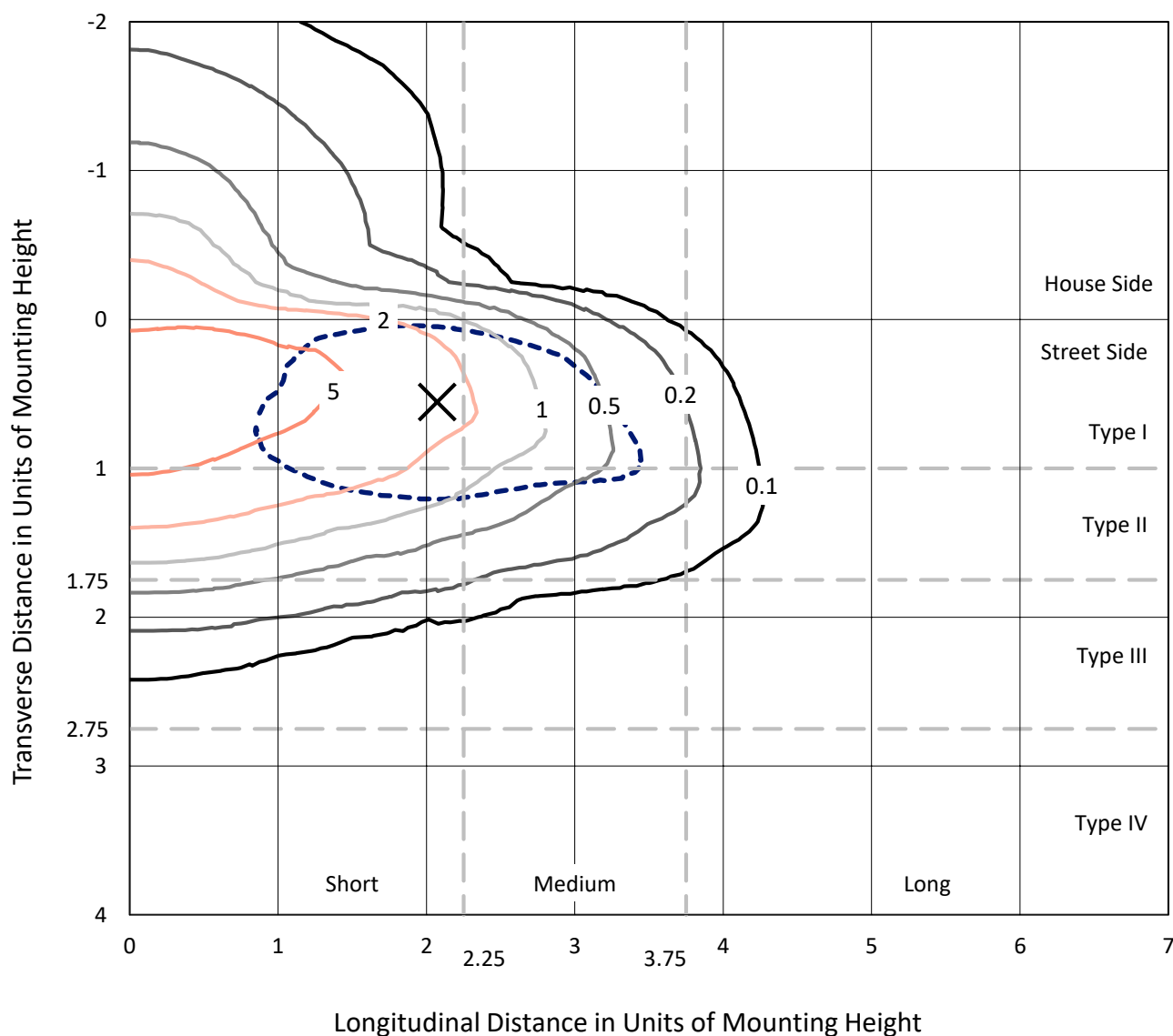


REPORT NUMBER: P193145

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

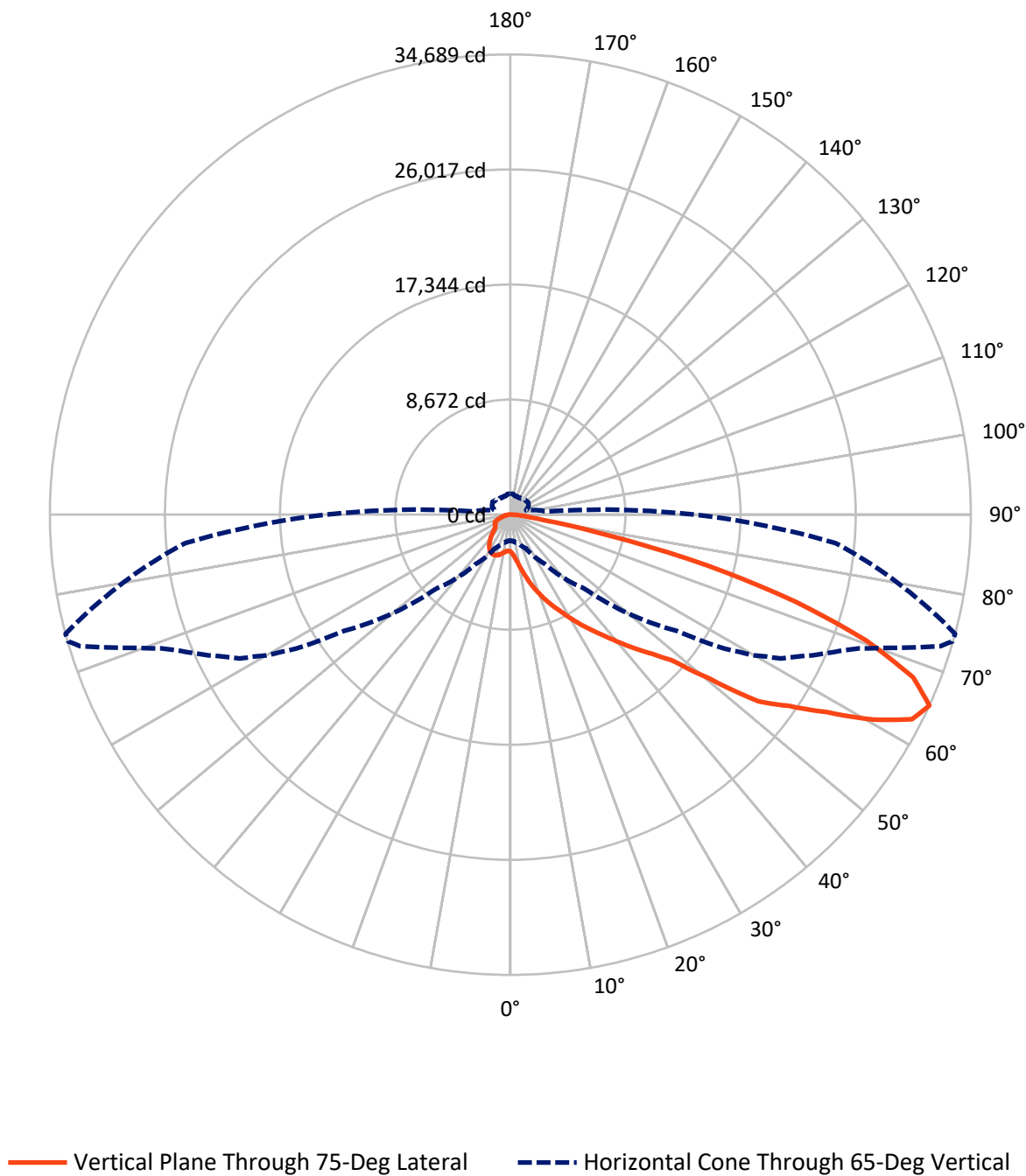


Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P193145

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7030-800

Luminous Intensity Polar Plot



REPORT NUMBER: P193145

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5284.5	0.0	5284.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	28991.2	0.0	28991.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	34275.7	0.0	34275.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.3	1.0
10°-20°	1345.3	3.9
20°-30°	2760.1	8.1
30°-40°	4643.7	13.5
40°-50°	6416.2	18.7
50°-60°	8009.4	23.4
60°-70°	7207.6	21.0
70°-80°	3021.4	8.8
80°-90°	527.8	1.5
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°	34275.7	100.0
0°-180°	34275.7	100.0

Coefficient of Utilization



REPORT NUMBER: P193145

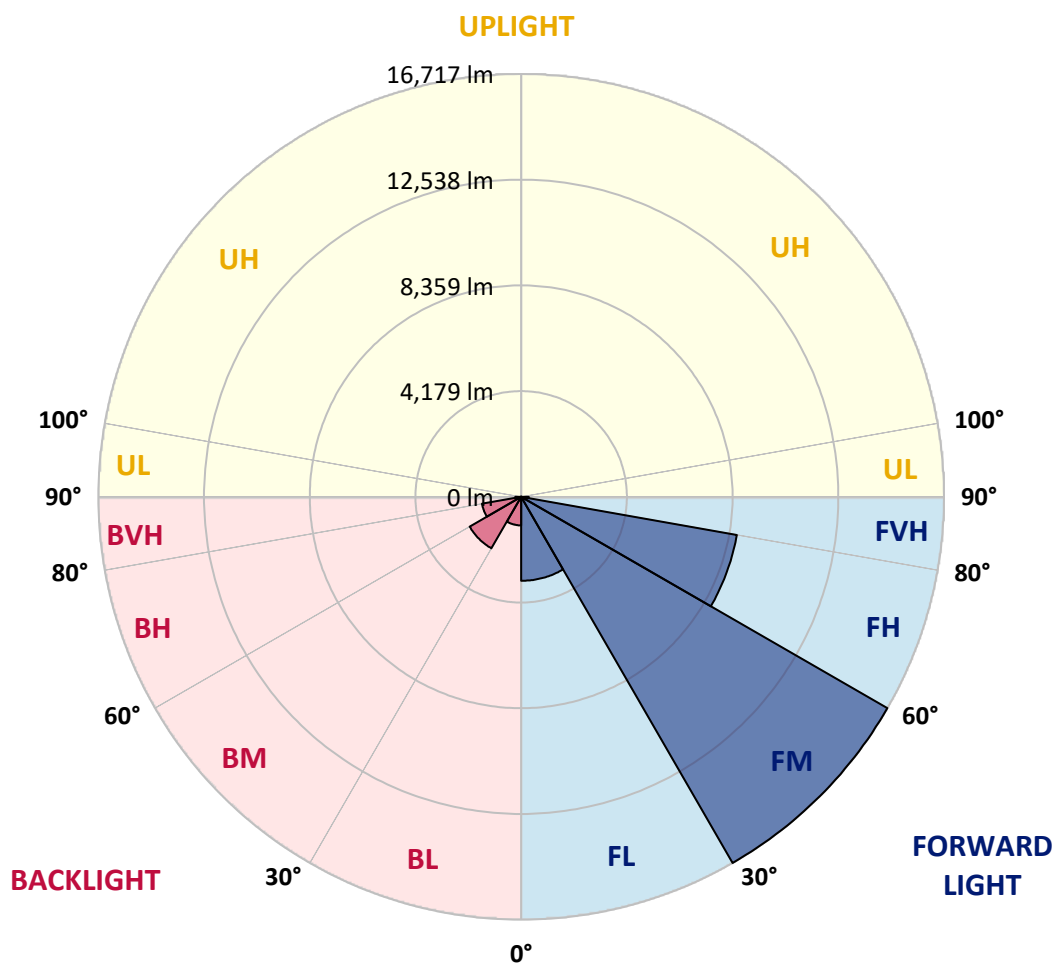
CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3319.5	9.7			
FM	(30°-60°)	16717.1	48.8			
FH	(60°-80°)	8657.9	25.3			G4/12000
FVH	(80°-90°)	296.7	0.9			G3/500
BL	(0°-30°)	1130.1	3.3	B3/2500		
BM	(30°-60°)	2352.2	6.9	B2/2500		
BH	(60°-80°)	1571.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	231.2	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



REPORT NUMBER: P193145

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6
2.5°	3536.7	3497.7	3507.6	3442.6	3363.1	3259.3	3144.1	3142.6	3144.1	3132.8	3090.5
5°	4904.3	4857.3	4839.4	4693.4	4479.3	4174.2	3843.3	3807.6	3793.1	3755.7	3669.7
7.5°	5902.0	5876.1	5848.5	5738.2	5543.5	5202.8	4758.3	4682.1	4609.1	4591.2	4493.9
10°	6546.2	6539.6	6481.3	6452.1	6330.4	6035.2	5601.9	5528.9	5449.5	5421.9	5319.7
12.5°	7055.5	7053.9	7026.4	7034.4	6929.0	6714.8	6341.7	6275.2	6216.9	6132.4	6059.4
15°	7407.6	7409.2	7449.8	7495.1	7479.1	7334.6	6984.2	6955.0	6904.6	6846.3	6760.3
17.5°	7696.3	7704.5	7746.7	7829.4	7918.7	7907.3	7629.9	7605.5	7561.8	7482.2	7436.8
20°	8348.6	8379.4	8298.2	8298.2	8308.0	8351.8	8218.8	8199.4	8137.6	8095.4	8059.8
22.5°	9450.2	9485.8	9302.6	9115.9	8932.6	8799.5	8666.6	8690.9	8648.8	8619.5	8598.3
25°	10881.0	10908.7	10611.7	10297.0	9923.9	9437.2	9107.9	9093.2	9070.4	9052.6	9043.0
27.5°	12227.5	12238.9	11958.3	11497.6	11064.3	10365.1	9555.6	9537.8	9510.2	9476.0	9446.9
30°	13379.5	13376.2	13087.4	12647.8	12183.8	11410.0	10235.3	10180.2	10099.1	10006.6	9935.2
32.5°	14377.2	14372.3	14055.9	13600.0	13113.4	12444.9	11166.6	11053.0	10926.5	10746.4	10637.7
35°	15162.4	15159.1	14860.7	14385.3	13827.2	13420.0	12234.1	12094.6	11934.0	11692.2	11525.1
37.5°	15459.3	15459.3	15292.2	14967.8	14474.5	14195.5	13420.0	13251.3	13079.3	12805.1	12616.9
40°	15285.7	15288.9	15324.6	15264.6	15024.5	14810.3	14526.4	14425.8	14278.2	14031.6	13835.3
42.5°	14703.2	14721.1	14958.0	15248.3	15368.4	15334.3	15507.9	15462.5	15358.7	15168.9	15013.1
45°	13965.1	14020.2	14279.8	14828.2	15464.1	15787.0	16330.4	16335.4	16315.9	16213.6	16093.6
47.5°	12951.1	13029.0	13371.3	14112.7	15240.2	16226.6	17165.9	17209.8	17250.3	17183.9	17128.7
50°	11604.7	11697.1	12209.7	13192.8	14784.4	16682.6	18744.5	18942.5	19127.4	19104.6	19142.0
52.5°	10162.3	10271.0	10898.8	11993.9	14000.8	16788.0	19753.6	20076.5	20399.4	20663.7	20944.5
55°	8861.3	8802.8	9430.7	10584.2	12712.7	16312.6	20660.5	21049.9	21410.0	21734.5	22068.7
57.5°	7097.7	7193.4	7823.0	8963.4	11007.6	14970.9	21285.2	21854.6	22372.0	22909.1	23382.8
60°	5188.2	5284.0	5966.9	7125.4	9156.5	12936.6	20808.1	21671.2	22500.2	23322.8	23965.3
62.5°	3132.8	3204.1	3806.0	4909.2	7060.5	10524.1	18682.9	19815.3	21035.2	22018.4	23003.1
65°	1950.1	1990.6	2212.8	2819.7	4534.5	7857.0	15264.6	16499.2	17813.3	19060.9	20084.6
67.5°	1596.4	1611.0	1651.6	1781.4	2490.3	5123.3	11361.3	12454.7	13640.7	14847.7	15986.5
70°	1435.7	1426.1	1426.1	1434.1	1596.4	2754.8	7438.5	8150.6	9138.7	10188.3	11229.8
72.5°	1296.3	1286.5	1268.7	1244.4	1302.7	1680.7	3845.0	4382.0	5094.1	6027.0	7024.8
75°	1164.8	1151.8	1130.8	1099.9	1140.5	1268.7	1846.3	2071.8	2418.9	2915.4	3471.8
77.5°	1028.5	1012.3	992.8	970.1	1022.1	986.4	1082.1	1163.2	1296.3	1455.3	1664.6
80°	874.4	859.9	853.4	842.0	903.7	751.1	764.2	814.4	892.3	978.3	1075.6
82.5°	684.6	684.6	710.6	715.4	783.6	540.3	571.1	614.9	655.4	700.9	746.2
85°	451.0	454.3	541.8	575.9	618.1	363.4	428.3	442.9	475.4	501.3	520.7
87.5°	141.2	152.5	330.9	366.7	355.3	206.1	262.8	269.4	292.0	309.9	326.1
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: P193145

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7030-800

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6
2.5°	3090.5	3071.1	3053.2	3051.6	3038.6	3020.8	3027.2	2999.7	3001.4	2986.7	2970.5
5°	3634.1	3621.1	3556.2	3538.4	3489.6	3458.8	3454.0	3389.1	3380.9	3343.7	3303.1
7.5°	4416.0	4373.8	4283.0	4239.2	4156.4	4094.8	4065.5	3979.6	3937.3	3840.0	3796.3
10°	5235.2	5181.7	5069.8	5008.1	4928.6	4829.7	4776.2	4651.2	4602.5	4513.4	4406.3
12.5°	5994.5	5941.0	5825.8	5778.7	5673.3	5567.9	5509.5	5368.4	5305.1	5162.3	5078.0
15°	6697.0	6643.5	6542.9	6494.3	6388.8	6302.8	6224.9	6085.4	6010.8	5877.7	5767.5
17.5°	7378.4	7321.6	7234.0	7190.3	7087.9	7000.4	6916.0	6784.7	6708.4	6575.3	6476.4
20°	8011.1	7969.0	7905.7	7847.2	7745.1	7665.5	7565.0	7451.4	7341.1	7243.8	7149.7
22.5°	8562.7	8546.5	8478.3	8452.4	8364.8	8296.6	8209.0	8097.1	8017.6	7894.3	7806.7
25°	9038.0	9033.2	9000.8	8992.6	8931.0	8866.1	8846.6	8754.2	8681.2	8572.5	8481.6
27.5°	9446.9	9451.8	9443.6	9466.3	9450.2	9420.9	9422.5	9391.7	9349.6	9258.7	9179.2
30°	9901.2	9875.2	9889.8	9922.3	9932.0	9935.2	9988.7	10006.6	10003.3	9943.3	9904.4
32.5°	10543.6	10481.9	10425.2	10420.3	10452.8	10465.7	10556.5	10603.6	10644.1	10658.8	10665.3
35°	11362.9	11239.6	11121.2	11057.9	11002.7	11017.2	11082.1	11158.4	11247.7	11309.3	11382.3
37.5°	12394.7	12243.8	12034.5	11885.2	11848.0	11766.7	11809.1	11869.1	11956.7	12052.4	12178.9
40°	13645.5	13416.7	13181.5	12983.6	12876.5	12727.3	12725.7	12714.3	12767.8	12857.1	13035.5
42.5°	14849.3	14646.5	14396.6	14189.0	14049.4	13849.9	13809.4	13704.0	13728.2	13806.1	13979.7
45°	15976.8	15809.7	15657.2	15417.1	15298.7	15082.9	15014.7	14889.9	14820.0	14855.8	15029.3
47.5°	17068.6	16961.5	16802.6	16646.8	16555.9	16362.8	16275.4	16186.1	16096.8	16093.6	16275.4
50°	19197.2	19140.4	18952.2	18790.0	18833.8	18596.9	18611.4	18371.4	18480.1	18493.0	18874.3
52.5°	21197.5	21395.4	21534.9	21705.3	21815.6	21836.7	21909.6	22018.4	22149.8	22409.4	22763.1
55°	22342.9	22591.1	22735.4	22865.2	23079.4	23124.8	23246.5	23390.9	23506.0	23798.1	24098.2
57.5°	23704.1	24164.8	24388.7	24594.7	24883.5	24993.8	25196.6	25353.9	25503.2	25848.8	26212.2
60°	24542.8	25104.1	25560.0	25886.0	26247.8	26507.4	26814.1	27060.7	27411.1	27824.7	28366.7
62.5°	23876.0	24700.1	25305.2	25865.0	26356.5	26852.9	27292.6	27753.4	28285.5	28911.7	29752.1
65°	21220.3	22059.0	23095.7	23676.5	24327.0	25092.7	25761.1	26507.4	27232.7	28144.3	29387.0
67.5°	17083.2	18058.3	19223.1	19808.8	20556.7	21411.6	22161.2	23073.0	23919.8	25024.6	26560.9
70°	12313.5	13574.2	14554.0	15165.6	16038.5	16919.4	17642.9	18704.0	19404.8	20537.3	22125.4
72.5°	7797.0	8791.4	9992.0	10762.6	11538.1	12430.3	13170.1	14085.1	14739.0	15770.8	17209.8
75°	4192.2	4925.4	5980.0	6711.6	7542.2	8304.8	9171.1	9784.3	10267.7	11083.8	12251.9
77.5°	1964.7	2410.8	2944.5	3507.6	4070.5	4657.7	5228.8	5725.1	5932.9	6400.1	7089.7
80°	1192.4	1336.8	1492.6	1666.1	1901.3	2091.2	2342.6	2524.3	2537.3	2684.9	2895.9
82.5°	796.6	850.1	897.1	940.9	1001.1	1048.1	1101.6	1164.8	1190.8	1224.9	1293.0
85°	543.4	569.5	579.2	606.7	600.3	616.4	637.5	658.8	670.0	668.4	699.3
87.5°	334.3	347.2	353.7	360.1	355.3	348.7	358.6	369.9	373.1	363.4	366.7
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: P193145

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7030-800

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6
2.5°	2973.7	2959.2	2944.5	2934.8	2931.5	2845.5	2808.3	2783.9	2732.0	2689.9	2655.8
5°	3280.4	3249.6	3225.3	3196.1	3179.8	2962.3	2883.0	2827.7	2736.8	2683.3	2634.7
7.5°	3773.6	3687.6	3637.2	3580.5	3531.8	3139.2	3007.8	2921.8	2795.3	2724.0	2668.7
10°	4333.2	4244.0	4164.5	4076.9	4000.6	3374.5	3183.0	3050.0	2883.0	2790.4	2717.4
12.5°	4957.8	4870.2	4769.7	4657.7	4560.4	3673.0	3406.9	3217.1	2988.3	2865.1	2762.8
15°	5696.0	5541.9	5420.3	5290.5	5176.9	4029.9	3668.2	3405.3	3100.3	2933.2	2796.9
17.5°	6382.3	6220.0	6054.6	5941.0	5809.7	4430.6	3930.9	3596.7	3192.8	2977.0	2803.4
20°	7052.3	6875.4	6732.7	6580.2	6442.4	4845.9	4211.6	3765.4	3252.7	2978.6	2762.8
22.5°	7642.8	7532.6	7373.6	7208.1	7068.5	5261.3	4474.3	3908.2	3275.5	2941.3	2691.5
25°	8314.5	8197.7	8003.0	7863.5	7707.7	5684.6	4732.3	4018.5	3262.5	2871.6	2581.1
27.5°	9031.6	8901.8	8702.3	8556.2	8368.0	6124.3	4969.2	4098.0	3213.9	2758.0	2433.5
30°	9779.5	9661.0	9464.7	9317.1	9127.3	6590.0	5233.6	4151.6	3116.5	2600.6	2261.5
32.5°	10582.6	10483.5	10288.8	10134.8	9932.0	7094.5	5480.2	4167.8	2968.9	2414.1	2079.9
35°	11345.1	11276.8	11113.0	10968.6	10757.7	7571.4	5741.5	4159.7	2793.6	2209.7	1914.3
37.5°	12203.2	12162.6	12081.6	11898.3	11640.3	8218.8	6054.6	4125.6	2579.5	2006.9	1787.8
40°	13118.2	13121.5	13033.9	12909.0	12668.8	9003.9	6427.7	4059.1	2345.9	1828.4	1672.6
42.5°	14086.8	14137.0	14094.9	14005.6	13775.3	9795.6	6873.8	3978.0	2118.7	1654.8	1559.0
45°	15196.5	15258.0	15322.9	15191.6	14967.8	10840.4	7461.1	3872.4	1873.8	1510.4	1481.2
47.5°	16476.6	16573.9	16632.2	16633.8	16409.9	12135.1	8415.0	3809.3	1656.4	1413.0	1443.9
50°	19177.7	19208.6	19346.4	19586.5	19414.5	15131.6	10081.3	3770.3	1508.8	1353.0	1416.3
52.5°	23069.6	23408.8	23647.2	23631.0	23397.5	17034.6	10999.4	3569.2	1421.1	1330.3	1403.3
55°	24654.7	25078.2	25519.3	25636.3	25454.5	18658.5	11867.4	3368.0	1379.0	1346.5	1408.3
57.5°	26767.0	27480.8	28085.9	28340.6	28077.9	20736.8	13009.5	3262.5	1366.0	1390.4	1439.1
60°	29234.6	30117.1	30912.0	31369.5	31369.5	23124.8	14193.9	3218.7	1348.1	1455.3	1491.0
62.5°	30819.7	32115.8	33316.4	33986.4	33966.9	24787.7	14719.5	3069.4	1307.7	1500.6	1562.3
65°	30826.1	32367.3	33897.1	34649.9	34688.8	24583.4	13851.6	2710.9	1233.0	1507.1	1633.7
67.5°	28256.3	29899.8	31682.7	32524.7	32719.4	22630.0	11990.7	2229.1	1111.2	1442.2	1659.6
70°	23864.6	25469.1	27289.3	28116.8	28462.4	19291.3	9657.8	1718.1	955.6	1299.5	1606.1
72.5°	18801.4	20375.0	21642.0	22247.2	22516.4	14745.4	7032.8	1297.9	783.6	1095.1	1461.8
75°	13311.3	14492.3	15165.6	15300.3	15342.5	8888.8	4273.2	965.3	645.7	851.6	1234.6
77.5°	7513.1	8019.2	7964.0	8024.1	7524.4	3431.3	1860.8	691.1	532.1	647.4	957.2
80°	2933.2	3024.1	2840.7	2783.9	2553.6	1276.8	820.9	481.9	425.0	489.9	670.0
82.5°	1293.0	1335.1	1296.3	1305.9	1249.2	658.8	491.5	348.7	324.5	358.6	444.4
85°	712.3	725.2	721.9	743.1	712.3	262.8	233.6	214.1	227.2	243.3	285.5
87.5°	347.2	350.4	339.0	356.9	345.6	133.1	115.2	121.8	133.1	136.2	136.2
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: P193145

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7030-800

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	2785.6	2785.6	2785.6	2785.6	2785.6	2785.6
2.5°	2631.4	2618.5	2620.0	2616.9	2610.3	2610.3
5°	2608.7	2595.8	2595.8	2592.5	2584.4	2586.0
7.5°	2631.4	2610.3	2602.2	2590.9	2579.5	2579.5
10°	2657.4	2620.0	2597.4	2577.9	2563.3	2563.3
12.5°	2676.9	2618.5	2581.1	2555.1	2540.6	2540.6
15°	2683.3	2607.2	2555.1	2524.3	2511.5	2509.8
17.5°	2662.2	2563.3	2500.1	2464.4	2448.1	2443.2
20°	2597.4	2483.8	2407.5	2367.0	2344.2	2336.2
22.5°	2500.1	2370.3	2281.0	2238.8	2209.7	2204.8
25°	2363.8	2224.2	2136.7	2096.0	2079.9	2075.0
27.5°	2204.8	2075.0	2000.3	1974.5	1959.8	1958.2
30°	2053.8	1943.6	1888.4	1869.0	1851.1	1847.8
32.5°	1912.7	1842.9	1821.9	1794.2	1752.1	1747.3
35°	1812.2	1805.6	1791.1	1729.5	1677.4	1662.9
37.5°	1750.6	1810.5	1735.9	1614.2	1576.9	1573.7
40°	1714.9	1760.2	1632.2	1589.9	1593.1	1589.9
42.5°	1633.7	1680.7	1635.3	1615.8	1628.8	1632.2
45°	1552.6	1604.5	1659.6	1646.6	1677.4	1677.4
47.5°	1507.1	1585.1	1658.0	1658.0	1703.5	1719.6
50°	1455.3	1568.9	1632.2	1654.8	1690.5	1677.4
52.5°	1451.9	1541.2	1594.7	1635.3	1651.6	1636.9
55°	1456.9	1518.4	1557.5	1602.9	1622.4	1623.9
57.5°	1463.3	1505.5	1531.5	1552.6	1611.0	1611.0
60°	1479.6	1494.2	1508.8	1520.2	1596.4	1598.0
62.5°	1505.5	1482.8	1479.6	1491.0	1588.3	1581.7
65°	1546.1	1466.6	1442.2	1453.5	1580.1	1560.7
67.5°	1601.3	1442.2	1395.2	1403.3	1573.7	1531.5
70°	1651.6	1403.3	1336.8	1328.7	1512.0	1437.5
72.5°	1656.4	1357.9	1255.7	1231.4	1314.1	1242.8
75°	1575.3	1327.1	1166.5	1095.1	1085.4	1075.6
77.5°	1419.5	1309.3	1062.6	950.7	931.2	937.7
80°	1187.5	1242.8	937.7	804.7	910.1	898.7
82.5°	887.4	1096.8	796.6	712.3	710.6	627.8
85°	493.2	855.0	648.9	533.7	371.5	360.1
87.5°	137.8	475.4	454.3	301.8	206.1	214.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)