

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: P193075

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193075
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-07-LED-E1-SLR-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA 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: 35785.6 lumens
Efficiency: N/A
Efficacy: 91.5 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): 391
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



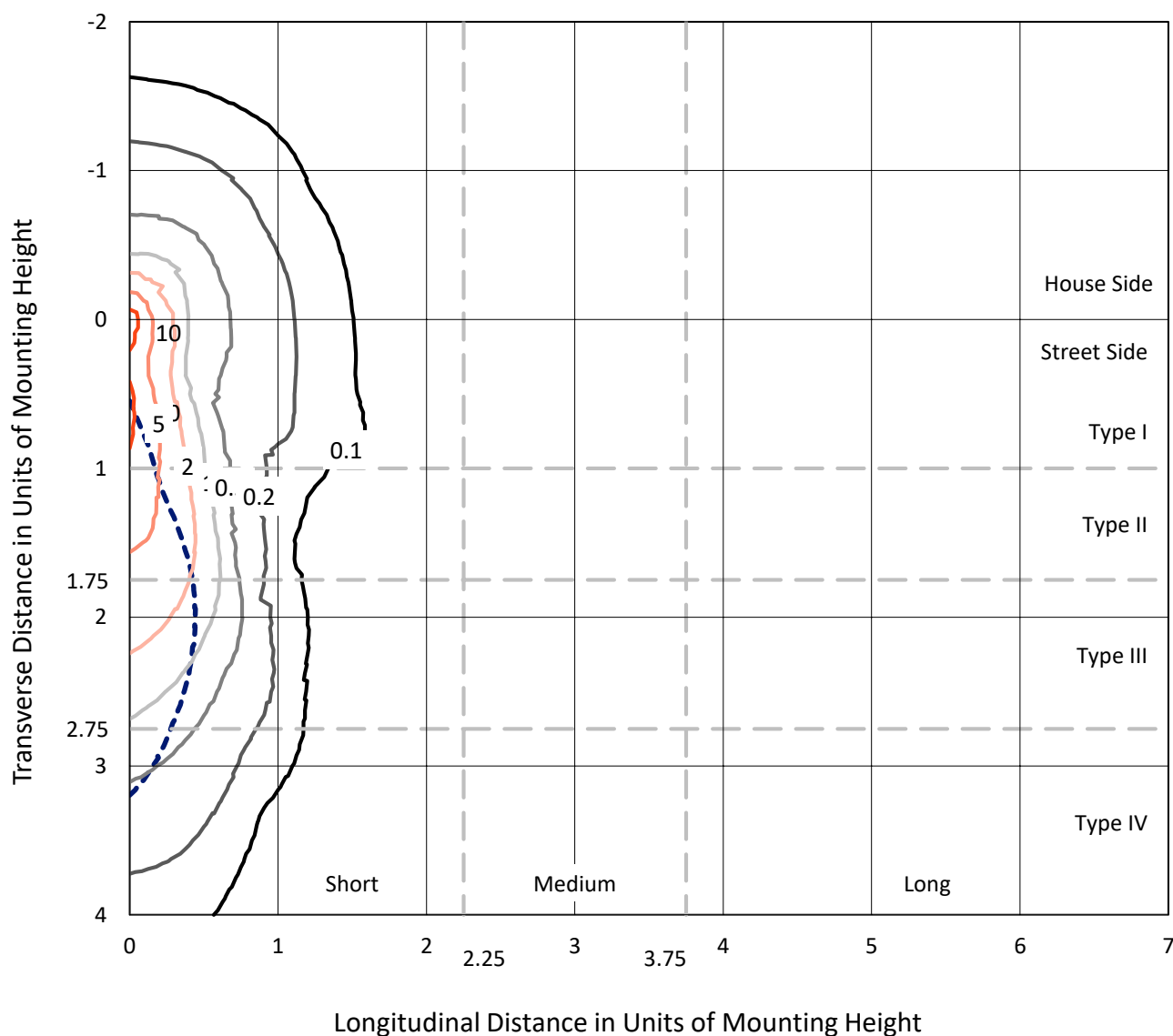
REPORT NUMBER: P193075

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

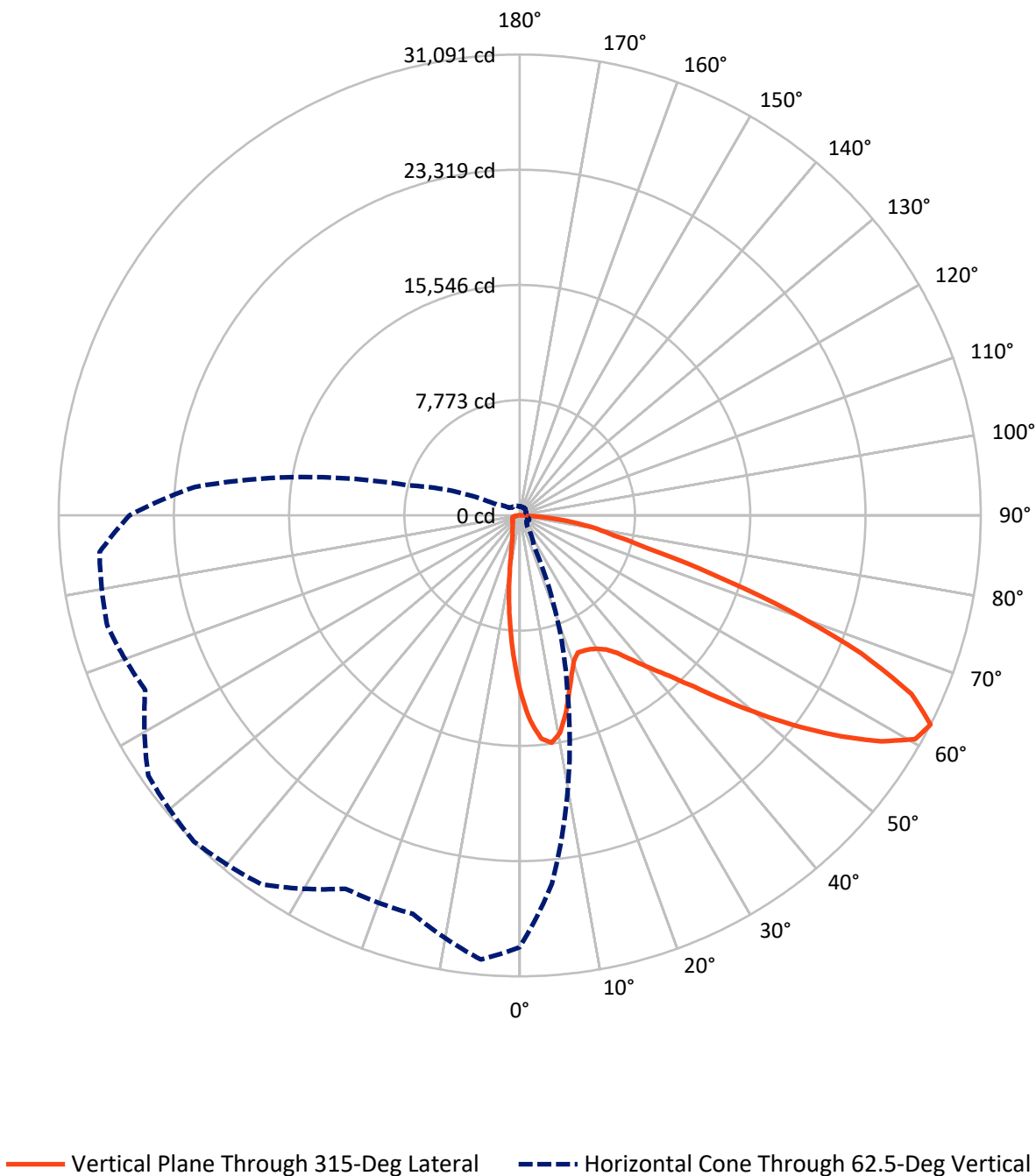


Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193075

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P193075

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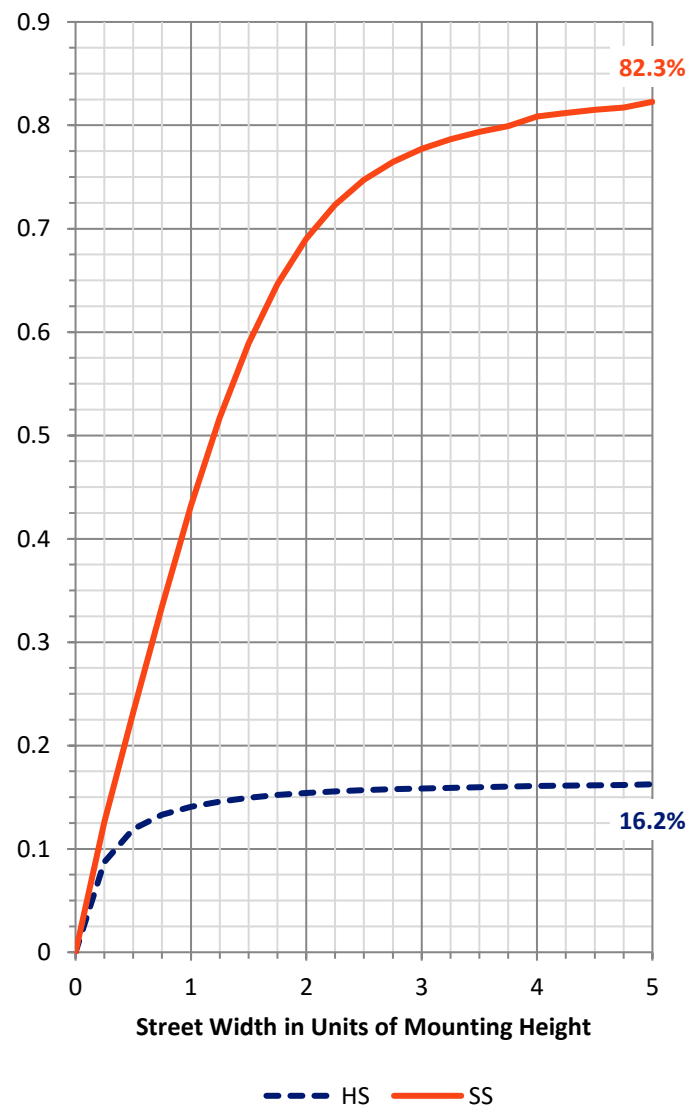
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5922.0	0.0	5922.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	29863.6	0.0	29863.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	35785.6	0.0	35785.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.1	2.5
10°-20°	1613.9	4.5
20°-30°	2353.1	6.6
30°-40°	3624.1	10.1
40°-50°	5333.7	14.9
50°-60°	7823.4	21.9
60°-70°	8745.4	24.4
70°-80°	4281.6	12.0
80°-90°	1130.4	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°	35785.6	100.0
0°-180°	35785.6	100.0

Coefficient of Utilization



REPORT NUMBER: P193075

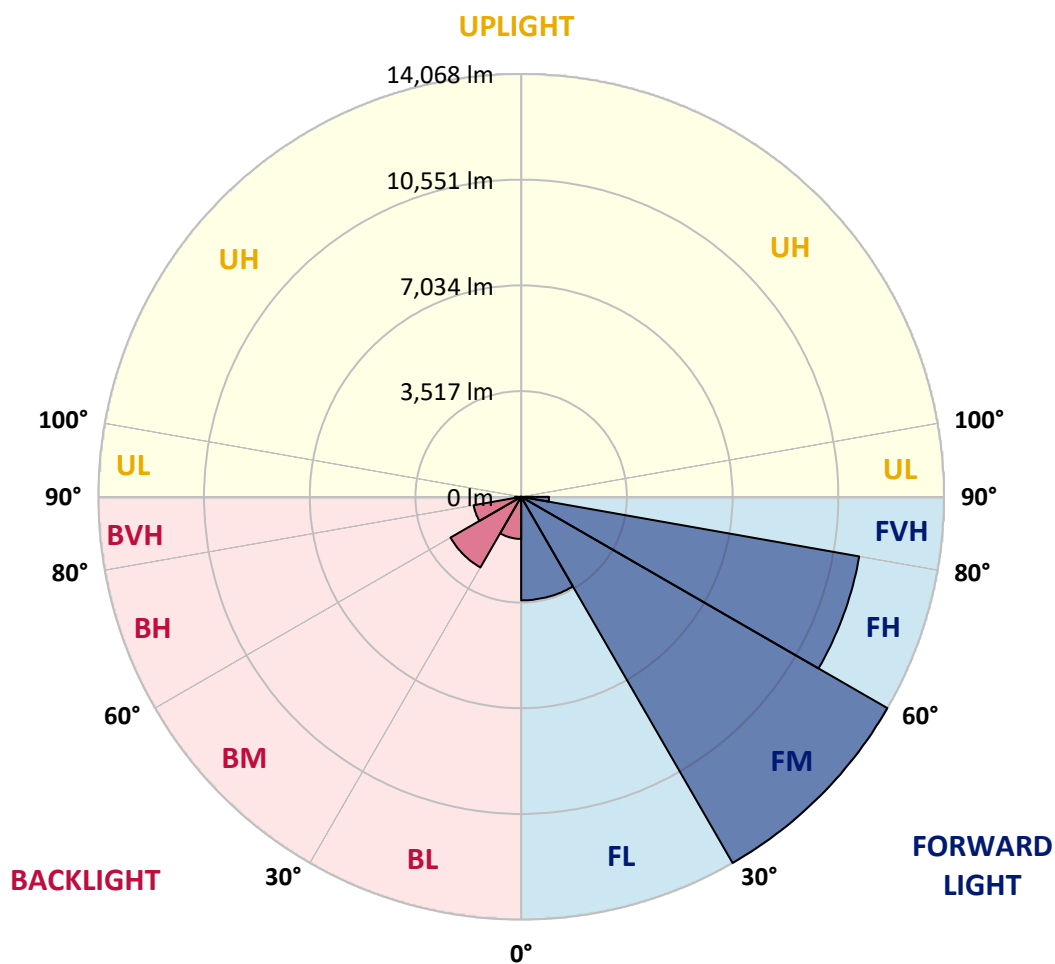
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3446.0	9.6			
FM	(30°-60°)	14067.7	39.3			
FH	(60°-80°)	11421.5	31.9			G4/12000
FVH	(80°-90°)	928.4	2.6			G5
BL	(0°-30°)	1401.1	3.9	B3/2500		
BM	(30°-60°)	2713.4	7.6	B3/5000		
BH	(60°-80°)	1605.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	202.1	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: P193075

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3
2.5°	12562.4	12306.8	11881.8	11439.2	11169.7	10854.9	10609.1	10392.6	9959.8	9875.3	9952.0
5°	11813.0	11299.5	10498.8	9692.3	9155.3	8578.9	8130.4	7770.4	7221.5	7125.2	7241.2
7.5°	10611.0	9997.2	8938.9	7910.1	7150.7	6430.8	5946.8	5561.2	5132.4	4947.5	4959.3
10°	9574.3	8881.9	7630.6	6511.5	5889.7	5403.9	4996.7	4601.2	4166.5	3881.2	3802.6
12.5°	8994.0	8197.2	6755.3	5756.0	5179.7	4668.1	4229.4	3806.5	3342.2	3051.1	2968.5
15°	8893.7	8028.1	6426.8	5272.1	4550.1	3902.8	3385.5	2913.4	2435.4	2199.3	2150.1
17.5°	9328.4	8331.0	6320.5	4841.3	3958.0	3159.3	2523.9	1996.7	1607.2	1489.2	1479.4
20°	10162.5	8913.4	6306.8	4436.0	3373.7	2437.3	1758.6	1375.0	1203.9	1170.5	1172.5
22.5°	11332.9	9816.3	6476.1	4131.1	2836.7	1817.6	1321.9	1150.8	1084.0	1052.5	1052.5
25°	12847.7	11059.6	6865.6	3908.7	2370.5	1451.8	1166.6	1064.3	1001.3	979.6	983.6
27.5°	14315.2	12269.4	7317.9	3733.7	2065.5	1318.0	1105.6	1013.1	957.9	936.4	946.1
30°	15460.0	13343.4	7695.6	3495.6	1910.2	1280.6	1127.2	1032.8	954.1	920.6	922.5
32.5°	16408.3	14283.8	8012.3	3324.5	1772.4	1097.7	971.8	930.5	920.6	881.2	861.6
35°	17620.1	15308.7	8224.8	3328.5	1707.5	979.6	865.6	792.7	739.6	694.5	694.5
37.5°	19040.4	16485.0	8450.9	3373.7	1683.9	910.7	828.1	755.4	706.3	662.9	655.1
40°	20445.0	17637.8	8657.6	3417.0	1670.1	869.4	798.6	731.8	686.5	643.3	631.5
42.5°	21639.1	18586.0	8842.5	3438.6	1622.9	865.6	777.1	716.0	672.8	625.6	613.7
45°	22522.3	19380.7	9041.2	3472.0	1575.7	881.2	777.1	714.1	661.0	615.6	603.8
47.5°	23311.1	20313.2	9373.7	3472.0	1518.7	851.7	802.6	716.0	659.1	611.8	601.9
50°	24367.5	21591.9	10003.1	3391.4	1438.0	820.3	845.8	708.2	641.4	603.8	592.0
52.5°	25823.3	23230.4	11002.5	3251.8	1314.1	759.4	839.9	704.2	623.7	584.2	570.5
55°	27544.6	24985.3	12092.3	3088.4	1129.2	716.0	810.4	694.5	603.8	560.6	546.9
57.5°	28888.1	26193.0	12859.5	2836.7	967.8	692.4	718.1	684.6	580.2	535.1	523.3
60°	29423.2	26145.8	13070.0	2500.3	889.2	672.8	627.5	767.2	560.6	515.3	501.6
62.5°	29134.1	24938.0	12479.8	2264.2	871.5	647.3	588.2	710.1	544.8	501.6	482.0
65°	27798.3	22797.7	10915.9	2201.2	922.5	621.6	562.5	556.6	523.3	482.0	462.2
67.5°	24888.8	19599.0	8740.2	2207.1	987.4	596.0	537.0	509.4	493.8	460.3	442.6
70°	20271.9	15495.5	6515.3	2222.9	1020.9	566.5	509.4	479.9	462.2	428.9	417.1
72.5°	14905.3	11942.8	4733.0	2120.6	1026.8	533.0	472.1	446.6	428.9	393.5	383.6
75°	10197.9	9135.6	3283.2	1756.7	895.1	485.8	430.8	407.2	395.4	352.2	346.3
77.5°	7449.8	6857.6	2100.9	1304.2	690.5	426.8	379.6	361.9	354.1	306.9	299.1
80°	5978.2	5425.5	1314.1	893.0	505.6	358.1	318.7	308.8	301.0	253.8	247.9
82.5°	4146.8	3633.4	843.9	580.2	379.6	277.4	251.9	247.9	236.1	192.8	186.9
85°	2187.5	1973.1	535.1	395.4	275.5	190.7	175.1	175.1	169.2	127.9	123.9
87.5°	279.3	454.4	271.5	206.6	151.5	84.5	84.5	82.6	88.5	72.7	63.0
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: P193075

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3
2.5°	9771.0	9865.4	9775.0	9780.9	9881.2	10180.2	10315.9	10428.0	10548.1	10626.8	10662.2
5°	7081.8	7302.3	7376.9	7534.3	7766.4	8148.1	8299.6	8409.6	8482.6	8525.8	8543.5
7.5°	4843.3	4977.0	5126.5	5380.3	5885.8	6110.1	6210.4	6184.8	6102.2	6072.7	6043.2
10°	3651.1	3598.0	3570.5	3710.1	4119.3	4345.6	4416.4	4347.5	4302.2	4312.0	4361.3
12.5°	2828.8	2736.4	2624.2	2608.4	2878.0	3080.6	3125.9	3129.8	3212.4	3285.2	3393.4
15°	2061.6	2051.8	1996.7	1963.3	2116.7	2282.0	2301.6	2337.0	2411.8	2464.9	2559.3
17.5°	1453.8	1506.9	1550.2	1571.8	1687.8	1805.8	1784.2	1766.5	1752.7	1752.7	1798.0
20°	1172.5	1207.9	1262.9	1325.9	1443.9	1526.6	1473.5	1402.6	1351.4	1335.7	1341.6
22.5°	1056.4	1084.0	1115.4	1170.5	1276.7	1333.7	1276.7	1225.6	1174.4	1156.7	1150.8
25°	997.3	1032.8	1062.3	1103.6	1182.3	1221.6	1166.6	1129.2	1097.7	1076.1	1060.4
27.5°	963.8	995.4	1003.2	1022.8	1089.9	1125.3	1097.7	1082.0	1062.3	1042.7	1022.8
30°	928.4	922.5	908.8	910.7	963.8	999.2	997.3	1001.3	999.2	993.3	989.5
32.5°	847.9	836.1	824.3	836.1	885.2	916.6	918.7	926.5	926.5	924.6	940.2
35°	706.3	727.8	741.7	777.1	836.1	863.5	851.7	832.1	796.7	775.0	773.1
37.5°	653.2	657.0	680.6	729.9	794.8	820.3	802.6	757.3	733.7	729.9	735.8
40°	627.5	631.5	645.2	690.5	755.4	780.9	765.3	731.8	710.1	708.2	718.1
42.5°	609.7	613.7	621.6	653.2	706.3	737.7	739.6	716.0	690.5	692.4	702.3
45°	600.0	601.9	600.0	615.6	665.0	702.3	718.1	702.3	680.6	684.6	696.4
47.5°	597.9	592.0	584.2	588.2	639.3	676.8	696.4	690.5	680.6	684.6	694.5
50°	590.1	576.4	566.5	564.6	615.6	655.1	672.8	672.8	676.8	684.6	694.5
52.5°	566.5	550.7	550.7	544.8	600.0	637.4	649.2	651.1	657.0	670.9	684.6
55°	537.0	531.1	537.0	527.1	588.2	623.7	629.6	633.4	637.4	649.2	668.8
57.5°	511.5	503.5	517.4	513.4	578.3	609.7	609.7	617.7	617.7	633.4	649.2
60°	497.6	482.0	487.9	491.7	564.6	597.9	594.1	601.9	605.9	619.7	631.5
62.5°	479.9	466.2	466.2	476.1	548.8	580.2	578.3	584.2	600.0	603.8	615.6
65°	458.4	452.5	446.6	458.4	533.0	560.6	562.5	570.5	584.2	588.2	597.9
67.5°	436.7	438.6	426.8	438.6	519.3	541.0	541.0	556.6	562.5	570.5	580.2
70°	413.1	415.0	405.3	419.0	509.4	519.3	517.4	538.9	542.9	548.8	558.7
72.5°	383.6	383.6	379.6	399.4	493.8	497.6	493.8	511.5	513.4	519.3	523.3
75°	352.2	352.2	348.2	375.8	483.9	474.0	462.2	476.1	479.9	483.9	483.9
77.5°	310.9	314.7	314.7	348.2	450.4	464.3	424.9	432.7	438.6	440.7	434.8
80°	259.7	269.6	273.4	316.8	377.7	428.9	379.6	385.5	387.6	387.6	379.6
82.5°	198.7	216.5	226.2	273.4	289.2	360.0	330.5	336.4	330.5	318.7	314.7
85°	137.6	161.2	173.0	208.5	218.4	277.4	275.5	275.5	263.7	247.9	246.0
87.5°	74.8	88.5	96.3	123.9	149.4	186.9	202.5	196.6	186.9	177.0	178.9
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: P193075

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3
2.5°	10847.0	11114.6	11541.5	11868.1	12196.6	12513.3	12855.6	13117.2	13339.5	13426.1	13689.6
5°	8722.5	9056.9	9460.2	10188.1	10703.5	11271.9	11929.0	12798.5	13133.0	13595.2	14352.7
7.5°	6167.1	6470.2	7119.3	7707.4	8437.2	9241.8	10129.1	11329.0	11767.7	12509.3	13742.7
10°	4605.2	4957.3	5478.6	5974.3	6617.7	7439.9	8458.9	9800.5	10333.6	11138.2	12558.5
12.5°	3710.1	4125.2	4677.9	5144.2	5641.9	6222.2	7211.6	8683.2	9397.3	10101.4	11537.6
15°	2850.5	3285.2	3798.6	4390.8	4939.6	5565.1	6601.9	8211.1	9033.3	9767.1	10992.7
17.5°	1973.1	2344.9	2992.1	3609.8	4312.0	5112.7	6432.7	8311.4	9293.0	10138.9	11087.1
20°	1398.6	1611.1	2142.2	2858.3	3733.7	4738.9	6401.3	8838.5	10115.2	11081.2	11692.9
22.5°	1176.4	1255.1	1563.9	2220.9	3232.1	4459.6	6511.5	9578.2	11224.8	12458.2	12658.9
25°	1072.2	1119.4	1280.6	1742.9	2785.6	4257.0	6883.3	10679.9	12597.9	13835.3	13799.8
27.5°	1015.0	1064.3	1170.5	1471.5	2449.1	4131.1	7255.1	11986.1	14167.6	15330.2	14889.7
30°	997.3	1064.3	1176.4	1386.8	2209.1	3932.5	7559.8	13133.0	15375.5	16339.5	15385.4
32.5°	983.6	993.3	1044.6	1196.1	1981.0	3700.3	7766.4	14161.7	16557.8	17299.4	16099.5
35°	794.8	843.9	926.5	1072.2	1847.1	3560.6	7766.4	15049.0	17722.4	18269.2	16780.1
37.5°	765.3	808.5	881.2	1005.1	1772.4	3491.7	7611.0	15904.8	18912.6	19368.9	17340.7
40°	749.5	784.9	853.8	954.1	1740.9	3413.0	7384.9	16660.1	20075.2	20470.6	17864.0
42.5°	737.7	769.1	834.0	922.5	1699.6	3326.5	7201.9	17266.0	21084.3	21410.9	18363.6
45°	731.8	765.3	836.1	938.3	1617.0	3212.4	7140.8	17921.0	21914.4	22195.8	18904.7
47.5°	731.8	771.2	845.8	971.8	1518.7	3094.3	7331.8	18784.6	22699.3	22837.1	19542.0
50°	725.9	769.1	873.4	938.3	1375.0	2944.9	7780.3	19872.5	23549.2	23564.9	20348.6
52.5°	714.1	765.3	940.2	918.7	1209.8	2748.2	8386.0	21269.3	24806.2	24900.6	21611.5
55°	700.4	759.4	922.5	873.4	1074.1	2514.0	8881.9	22967.0	26572.7	26834.4	23468.6
57.5°	682.7	751.4	893.0	810.4	985.5	2213.0	9060.9	24210.2	27806.2	28463.2	25561.6
60°	666.9	745.5	806.6	773.1	930.5	1959.3	8714.6	23964.3	27721.6	29138.1	27416.7
62.5°	651.1	751.4	735.8	749.5	904.8	1796.0	7809.8	21995.1	26319.0	28441.6	28791.8
65°	633.4	698.3	694.5	729.9	898.9	1731.1	6474.0	19042.4	23608.2	26240.4	29116.4
67.5°	609.7	645.2	665.0	704.2	918.7	1674.1	5224.9	15707.9	19841.1	22941.3	27424.5
70°	584.2	613.7	635.5	672.8	906.9	1648.5	4345.6	12387.4	15743.3	18802.4	24086.2
72.5°	550.7	576.4	596.0	631.5	895.1	1634.7	3670.8	9975.6	11753.9	13967.0	19583.3
75°	511.5	535.1	548.8	584.2	857.6	1497.1	2885.9	8441.2	8795.3	9716.0	15597.9
77.5°	466.2	483.9	495.7	535.1	759.4	1245.2	2087.2	6511.5	6830.2	7054.4	11958.5
80°	413.1	430.8	436.7	474.0	629.6	973.7	1361.3	4809.8	5108.8	5159.9	7809.8
82.5°	352.2	369.9	369.9	405.3	515.3	700.4	893.0	3295.0	3354.0	3527.2	5519.9
85°	283.3	297.0	297.0	314.7	399.4	523.3	613.7	1654.4	1636.7	1868.9	4782.3
87.5°	202.5	212.5	222.4	226.2	285.2	346.3	369.9	503.5	332.4	381.7	3070.7
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: P193075

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3
2.5°	13888.4	14000.5	13886.5	13803.7	13447.7	13154.6	12763.1	12562.4
5°	14928.9	15214.3	15117.8	14771.7	14028.1	13192.0	12241.9	11813.0
7.5°	14803.1	15465.9	15481.7	14834.5	13738.8	12507.4	11220.8	10611.0
10°	13823.4	14671.4	14913.3	14285.7	13123.1	11746.0	10270.7	9574.3
12.5°	12729.7	13559.8	13744.7	13528.4	12556.5	11173.6	9676.5	8994.0
15°	11834.6	12206.5	12426.7	12615.6	12070.6	10945.5	9643.1	8893.7
17.5°	11289.6	11248.4	11311.3	11639.8	11732.3	11207.0	10154.7	9328.4
20°	11093.0	10461.5	10445.7	10898.2	11573.0	11830.7	11153.9	10162.5
22.5°	11201.1	10178.3	10048.3	10585.5	11657.5	12729.7	12464.1	11332.9
25°	11574.9	10201.9	10097.5	10616.9	11964.4	13687.7	13878.5	12847.7
27.5°	12163.1	10351.3	10213.7	10746.7	12371.7	14492.2	15271.2	14315.2
30°	12721.8	10611.0	10439.8	11002.5	12743.5	14810.9	16125.0	15460.0
32.5°	13400.4	11096.9	10795.9	11472.7	13203.8	15318.4	16886.3	16408.3
35°	14065.4	11789.4	11415.6	12198.6	13717.2	15950.0	17755.8	17620.1
37.5°	14795.3	12694.3	12385.4	13136.9	14419.5	16546.0	18865.4	19040.4
40°	15574.3	13894.3	13528.4	14506.1	15509.4	17293.5	20024.0	20445.0
42.5°	16359.2	15226.1	14789.4	15780.8	16707.3	18031.3	21015.5	21639.1
45°	17258.1	16671.9	16465.4	17537.4	17858.1	18733.5	21747.3	22522.3
47.5°	18304.6	18312.5	18645.0	19073.8	19018.8	19528.2	22483.0	23311.1
50°	19526.3	20360.4	21094.1	21379.5	20214.8	20382.0	23504.0	24367.5
52.5°	20993.8	22809.5	23718.3	23531.5	21503.4	21424.6	25121.0	25823.3
55°	22829.1	25402.3	26305.3	26171.4	22984.7	22844.9	27135.4	27544.6
57.5°	24953.7	27914.4	28744.6	28142.6	24762.9	24402.9	28801.7	28888.1
60°	26820.6	29905.2	30633.0	29966.2	26557.0	26061.3	29842.2	29423.2
62.5°	27859.3	30579.9	31091.4	30373.4	27786.5	27827.8	30070.5	29134.1
65°	27395.0	28874.4	29039.6	28980.6	27469.9	28852.7	29250.2	27798.3
67.5°	24853.4	24562.2	24839.6	25223.3	24755.1	27503.3	26978.0	24888.8
70°	20376.1	18776.8	19329.6	19587.2	19799.8	23667.2	23415.5	20271.9
72.5°	15355.9	13154.6	13591.3	13538.2	14521.7	18983.4	18210.2	14905.3
75°	10880.5	8919.3	8974.3	8952.7	10133.0	14852.2	13186.1	10197.9
77.5°	7612.9	6462.2	6491.7	6613.7	6812.4	11201.1	9420.9	7449.8
80°	5234.7	4904.2	5067.5	5077.3	4721.2	7524.4	6960.0	5978.2
82.5°	3898.9	3409.1	3369.8	3426.8	3700.3	6096.3	5348.8	4146.8
85°	3192.8	2018.3	1622.9	2034.1	3279.3	6037.3	3552.8	2187.5
87.5°	1798.0	957.9	432.7	802.6	1308.2	3997.4	1026.8	279.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)