

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: P193948

Luminaire Tested: **GLEON-AF-10-LED-E1-T2R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193948
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-10-LED-E1-T2R-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 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: 40467 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 419
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

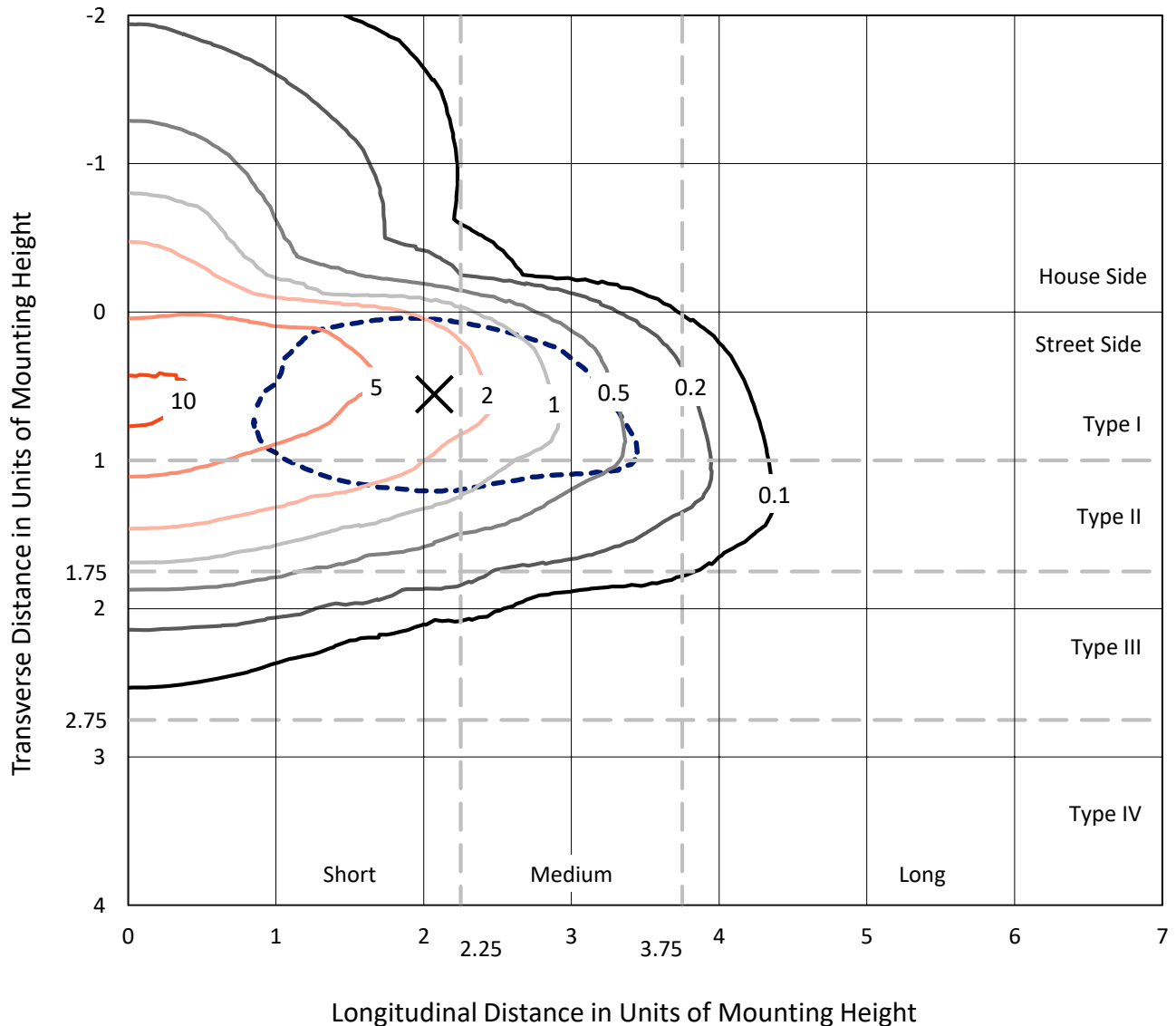


REPORT NUMBER: P193948

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-8030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

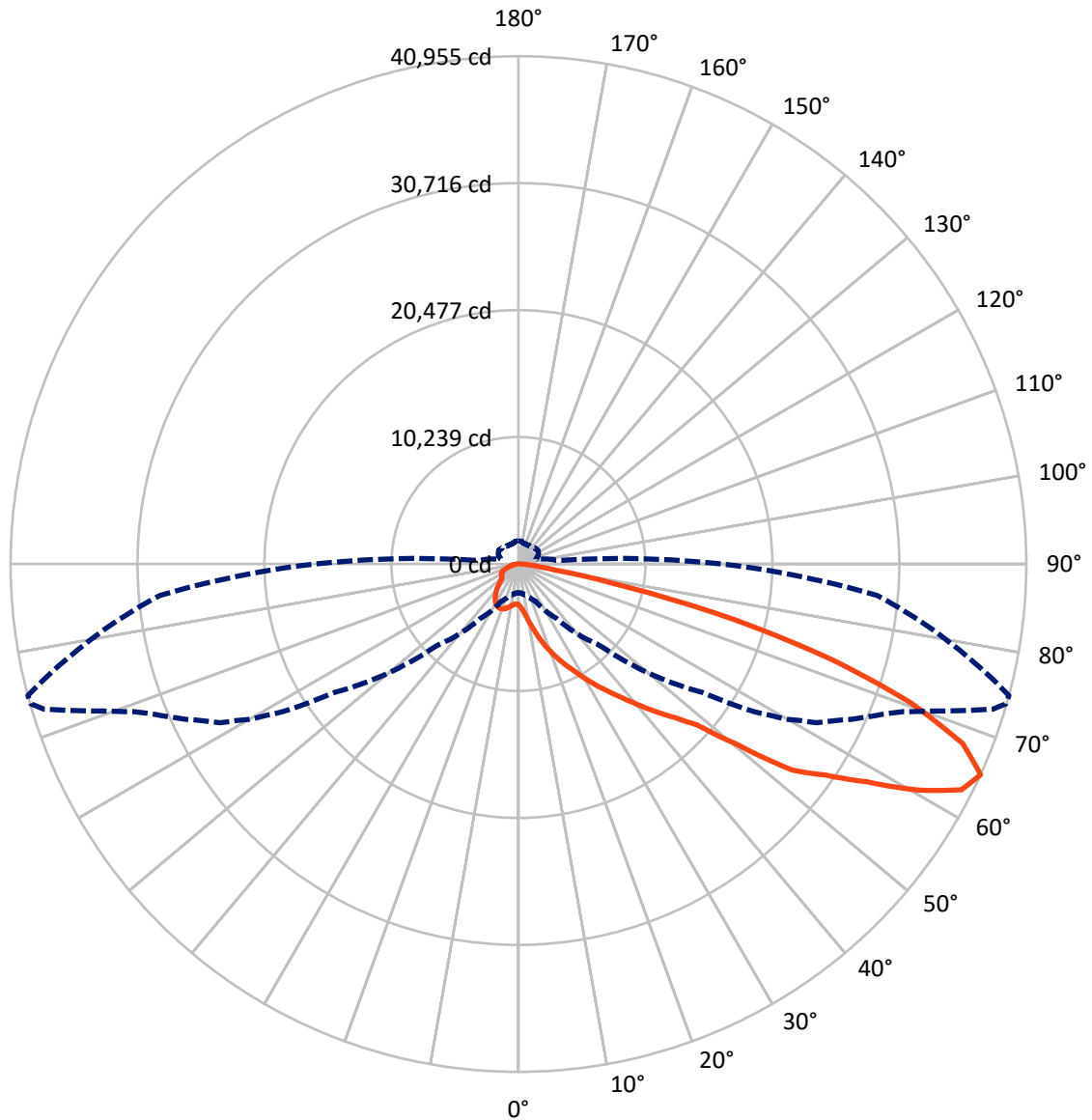


Based on 30 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P193948

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-8030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P193948

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6239.1	0.0	6239.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	34227.9	0.0	34227.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	40467.0	0.0	40467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.5	1.0
10°-20°	1588.3	3.9
20°-30°	3258.6	8.1
30°-40°	5482.5	13.5
40°-50°	7575.2	18.7
50°-60°	9456.1	23.4
60°-70°	8509.5	21.0
70°-80°	3567.1	8.8
80°-90°	623.2	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°	40467.0	100.0
0°-180°	40467.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193948

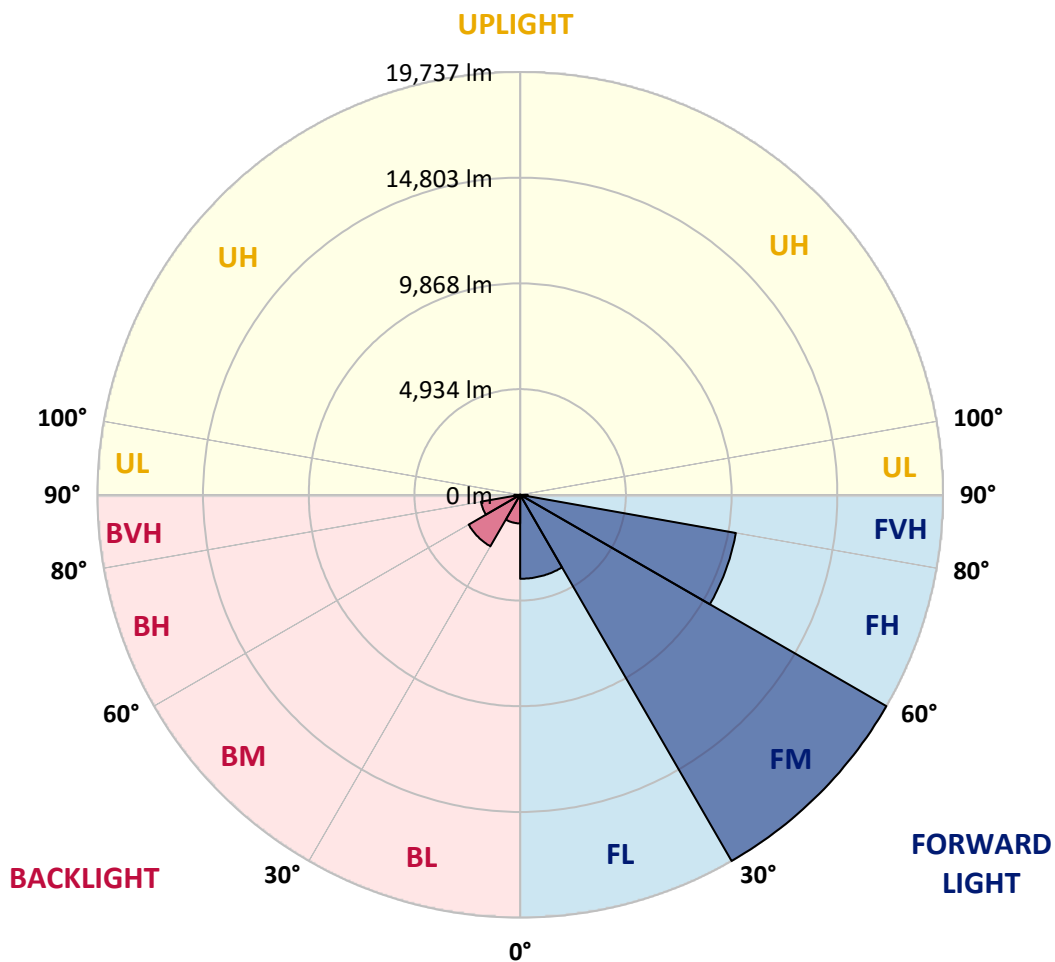
CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3919.1	9.7			
FM	(30°-60°)	19736.7	48.8			
FH	(60°-80°)	10221.8	25.3			G4/12000
FVH	(80°-90°)	350.3	0.9			G3/500
BL	(0°-30°)	1334.3	3.3	B3/2500		
BM	(30°-60°)	2777.1	6.9	B3/5000		
BH	(60°-80°)	1854.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	272.9	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: P193948

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7
2.5°	4175.5	4129.6	4141.1	4064.4	3970.6	3848.0	3712.0	3710.1	3712.0	3698.6	3648.8
5°	5790.2	5734.7	5713.6	5541.2	5288.4	4928.3	4537.5	4495.4	4478.2	4434.1	4332.6
7.5°	6968.2	6937.5	6905.0	6774.7	6544.9	6142.6	5617.8	5527.8	5441.6	5420.5	5305.6
10°	7728.6	7720.9	7652.0	7617.5	7473.8	7125.2	6613.8	6527.6	6433.8	6401.2	6280.6
12.5°	8330.0	8328.1	8295.5	8305.1	8180.6	7927.8	7487.2	7408.7	7339.8	7240.2	7154.0
15°	8745.7	8747.6	8795.5	8849.1	8829.9	8659.5	8245.7	8211.3	8151.9	8082.9	7981.4
17.5°	9086.6	9096.2	9146.0	9243.7	9349.0	9335.6	9008.1	8979.3	8927.6	8833.8	8780.1
20°	9856.6	9893.0	9797.2	9797.2	9808.7	9860.4	9703.3	9680.4	9607.6	9557.8	9515.6
22.5°	11157.1	11199.3	10982.8	10762.6	10546.1	10389.1	10232.0	10260.7	10210.9	10176.4	10151.5
25°	12846.5	12879.1	12528.5	12157.0	11716.4	11141.8	10753.0	10735.7	10708.9	10687.9	10676.4
27.5°	14436.3	14449.7	14118.3	13574.3	13062.9	12237.4	11281.6	11260.6	11228.0	11187.8	11153.3
30°	15796.2	15792.4	15451.4	14932.3	14384.5	13470.9	12084.2	12019.0	11923.3	11814.1	11729.8
32.5°	16974.2	16968.4	16594.9	16056.7	15482.1	14692.9	13183.6	13049.5	12900.1	12687.5	12559.2
35°	17901.2	17897.4	17544.9	16983.7	16324.8	15844.1	14443.9	14279.2	14089.6	13804.2	13606.9
37.5°	18251.7	18251.7	18054.4	17671.4	17089.1	16759.6	15844.1	15644.9	15441.8	15118.1	14896.0
40°	18046.8	18050.6	18092.7	18021.9	17738.4	17485.6	17150.4	17031.6	16857.3	16566.2	16334.4
42.5°	17359.1	17380.2	17659.9	18002.7	18144.5	18104.2	18309.2	18255.5	18133.0	17908.9	17725.0
45°	16487.6	16552.8	16859.2	17506.6	18257.5	18638.6	19280.3	19286.0	19263.0	19142.4	19000.6
47.5°	15290.5	15382.5	15786.6	16661.9	17993.1	19157.7	20266.7	20318.4	20366.3	20287.8	20222.6
50°	13700.8	13809.9	14415.2	15575.9	17454.9	19695.9	22130.4	22364.0	22582.4	22555.6	22599.6
52.5°	11998.0	12126.3	12867.6	14160.4	16529.8	19820.4	23321.7	23702.9	24084.1	24396.3	24727.6
55°	10461.8	10392.9	11134.1	12496.0	15009.0	19259.2	24392.4	24852.1	25277.3	25660.4	26055.0
57.5°	8379.8	8492.8	9236.0	10582.5	12995.9	17675.2	25129.9	25802.2	26413.2	27047.2	27606.5
60°	6125.4	6238.4	7044.8	8412.4	10810.4	15273.3	24566.7	25585.7	26564.5	27535.6	28294.1
62.5°	3698.6	3782.9	4493.5	5796.0	8335.8	12425.1	22057.6	23394.5	24834.9	25995.6	27158.3
65°	2302.3	2350.2	2612.6	3328.9	5353.5	9276.2	18021.9	19479.5	21030.9	22503.9	23712.5
67.5°	1884.7	1902.0	1949.9	2103.1	2940.1	6048.8	13413.4	14704.4	16104.6	17529.6	18874.2
70°	1695.1	1683.6	1683.6	1693.2	1884.7	3252.3	8782.0	9622.9	10789.4	12028.6	13258.3
72.5°	1530.4	1518.9	1497.8	1469.1	1538.1	1984.3	4539.5	5173.5	6014.3	7115.7	8293.6
75°	1375.2	1359.9	1335.0	1298.6	1346.5	1497.8	2179.7	2445.9	2855.8	3441.9	4098.9
77.5°	1214.4	1195.2	1172.2	1145.4	1206.7	1164.6	1277.6	1373.3	1530.4	1718.1	1965.2
80°	1032.4	1015.2	1007.5	994.1	1066.9	886.8	902.1	961.5	1053.5	1155.0	1269.9
82.5°	808.3	808.3	838.9	844.7	925.1	637.8	674.2	725.9	773.8	827.4	881.1
85°	532.5	536.3	639.7	680.0	729.8	429.0	505.7	522.9	561.2	591.9	614.8
87.5°	166.6	180.0	390.7	432.9	419.5	243.3	310.3	318.0	344.8	365.8	385.0
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: P193948

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-8030-800

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7
2.5°	3648.8	3625.8	3604.8	3602.8	3587.5	3566.4	3574.1	3541.5	3543.5	3526.2	3507.1
5°	4290.5	4275.1	4198.5	4177.5	4120.0	4083.6	4077.9	4001.2	3991.7	3947.6	3899.7
7.5°	5213.7	5163.9	5056.6	5004.9	4907.2	4834.4	4800.0	4698.4	4648.6	4533.7	4482.0
10°	6181.0	6117.7	5985.6	5912.8	5818.9	5702.1	5638.9	5491.4	5434.0	5328.6	5202.2
12.5°	7077.4	7014.1	6878.2	6822.6	6698.1	6573.6	6504.7	6338.0	6263.3	6094.8	5995.2
15°	7906.7	7843.5	7724.8	7667.3	7542.8	7441.3	7349.3	7184.6	7096.5	6939.4	6809.2
17.5°	8711.2	8644.1	8540.7	8489.0	8368.3	8264.9	8165.3	8010.1	7920.1	7763.1	7646.2
20°	9458.2	9408.4	9333.7	9264.7	9144.1	9050.2	8931.4	8797.4	8667.1	8552.2	8441.1
22.5°	10109.4	10090.3	10009.8	9979.2	9875.7	9795.3	9691.9	9559.7	9465.8	9320.3	9216.8
25°	10670.6	10664.9	10626.6	10617.0	10544.2	10467.6	10444.6	10335.4	10249.2	10120.9	10013.6
27.5°	11153.3	11159.0	11149.5	11176.3	11157.1	11122.6	11124.6	11088.2	11038.4	10931.1	10837.3
30°	11689.6	11659.0	11676.2	11714.5	11726.0	11729.8	11793.0	11814.1	11810.3	11739.4	11693.4
32.5°	12448.1	12375.3	12308.3	12302.5	12340.8	12356.2	12463.4	12519.0	12566.8	12584.1	12591.7
35°	13415.4	13269.8	13130.0	13055.3	12990.1	13007.4	13084.0	13174.0	13279.4	13352.2	13438.3
37.5°	14633.5	14455.4	14208.3	14032.1	13988.1	13892.3	13942.1	14013.0	14116.4	14229.4	14378.8
40°	16110.3	15840.2	15562.5	15328.8	15202.4	15026.2	15024.3	15010.9	15074.1	15179.4	15390.1
42.5°	17531.5	17292.1	16997.1	16752.0	16587.2	16351.7	16303.8	16179.3	16208.0	16299.9	16504.9
45°	18862.7	18665.4	18485.4	18201.9	18062.1	17807.3	17726.9	17579.4	17497.1	17539.2	17744.1
47.5°	20151.8	20025.4	19837.7	19653.8	19546.5	19318.6	19215.2	19109.8	19004.5	19000.6	19215.2
50°	22664.8	22597.7	22375.5	22184.0	22235.7	21956.1	21973.3	21689.8	21818.2	21833.5	22283.6
52.5°	25026.4	25260.1	25424.8	25625.9	25756.2	25781.1	25867.3	25995.6	26150.8	26457.2	26874.8
55°	26378.7	26671.8	26842.2	26995.5	27248.3	27301.9	27445.6	27616.0	27752.0	28096.8	28451.1
57.5°	27985.7	28529.7	28794.0	29037.3	29378.2	29508.4	29747.9	29933.7	30109.9	30517.8	30946.9
60°	28976.0	29638.7	30176.9	30561.9	30989.0	31295.5	31657.5	31948.6	32362.4	32850.8	33490.5
62.5°	28188.7	29161.8	29876.2	30537.0	31117.4	31703.5	32222.5	32766.5	33394.8	34134.1	35126.3
65°	25053.2	26043.5	27267.4	27953.1	28721.2	29625.3	30414.4	31295.5	32151.7	33228.1	34695.3
67.5°	20169.0	21320.2	22695.4	23386.9	24269.9	25279.3	26164.2	27240.6	28240.5	29544.8	31358.7
70°	14537.8	16026.0	17182.9	17905.0	18935.5	19975.6	20829.8	22082.5	22909.9	24246.9	26122.0
72.5°	9205.3	10379.5	11796.9	12706.7	13622.2	14675.7	15549.1	16629.4	17401.3	18619.5	20318.4
75°	4949.4	5815.1	7060.1	7924.0	8904.6	9804.9	10827.7	11551.7	12122.5	13085.9	14465.0
77.5°	2319.5	2846.3	3476.4	4141.1	4805.7	5499.1	6173.3	6759.4	7004.6	7556.2	8370.2
80°	1407.8	1578.3	1762.2	1967.1	2244.8	2468.9	2765.8	2980.3	2995.7	3170.0	3419.0
82.5°	940.5	1003.7	1059.2	1110.9	1181.8	1237.3	1300.5	1375.2	1405.9	1446.1	1526.6
85°	641.7	672.3	683.8	716.4	708.7	727.8	752.7	777.6	791.1	789.1	825.5
87.5°	394.6	409.9	417.6	425.2	419.5	411.8	423.3	436.7	440.5	429.0	432.9
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: P193948

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-8030-800

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7
2.5°	3510.9	3493.7	3476.4	3464.9	3461.1	3359.6	3315.5	3286.8	3225.5	3175.7	3135.5
5°	3872.9	3836.5	3807.8	3773.3	3754.2	3497.5	3403.6	3338.5	3231.3	3168.0	3110.6
7.5°	4455.2	4353.7	4294.3	4227.3	4169.8	3706.3	3551.1	3449.6	3300.2	3215.9	3150.8
10°	5116.0	5010.6	4916.8	4813.4	4723.3	3984.0	3758.0	3600.9	3403.6	3294.5	3208.3
12.5°	5853.4	5750.0	5631.2	5499.1	5384.2	4336.4	4022.3	3798.2	3528.1	3382.6	3261.9
15°	6724.9	6543.0	6399.3	6246.1	6112.0	4757.8	4330.7	4020.4	3660.3	3463.0	3302.1
17.5°	7535.1	7343.6	7148.2	7014.1	6859.0	5230.9	4641.0	4246.4	3769.5	3514.7	3309.8
20°	8326.2	8117.4	7948.9	7768.8	7606.0	5721.3	4972.3	4445.6	3840.3	3516.6	3261.9
22.5°	9023.4	8893.1	8705.4	8510.1	8345.3	6211.6	5282.6	4614.2	3867.2	3472.6	3177.6
25°	9816.4	9678.4	9448.6	9283.9	9100.0	6711.5	5587.2	4744.4	3851.8	3390.2	3047.4
27.5°	10663.0	10509.7	10274.1	10101.7	9879.6	7230.6	5866.8	4838.3	3794.4	3256.2	2873.1
30°	11545.9	11406.1	11174.4	11000.1	10776.0	7780.3	6179.0	4901.5	3679.5	3070.4	2670.0
32.5°	12494.1	12377.2	12147.4	11965.4	11726.0	8376.0	6470.2	4920.6	3505.2	2850.1	2455.5
35°	13394.3	13313.8	13120.4	12949.9	12700.9	8939.1	6778.6	4911.0	3298.3	2608.8	2260.2
37.5°	14407.5	14359.6	14263.9	14047.4	13742.9	9703.3	7148.2	4870.8	3045.5	2369.3	2110.8
40°	15487.8	15491.6	15388.2	15240.7	14957.2	10630.4	7588.8	4792.3	2769.6	2158.6	1974.8
42.5°	16631.3	16690.7	16640.9	16535.5	16263.5	11565.1	8115.5	4696.5	2501.5	1953.7	1840.7
45°	17941.4	18014.2	18090.8	17935.7	17671.4	12798.6	8808.9	4572.0	2212.3	1783.2	1748.7
47.5°	19452.7	19567.6	19636.5	19638.5	19374.1	14327.1	9935.1	4497.3	1955.6	1668.3	1704.7
50°	22641.8	22678.2	22841.0	23124.5	22921.4	17864.8	11902.2	4451.4	1781.3	1597.4	1672.1
52.5°	27236.8	27637.1	27918.7	27899.5	27623.7	20111.6	12986.3	4213.8	1677.9	1570.6	1656.8
55°	29108.1	29608.0	30129.0	30266.9	30052.4	22028.9	14011.0	3976.3	1628.1	1589.8	1662.6
57.5°	31602.0	32444.7	33159.2	33459.9	33149.6	24482.5	15359.5	3851.8	1612.8	1641.5	1698.9
60°	34515.3	35557.2	36495.8	37035.9	37035.9	27301.9	16757.7	3800.1	1591.7	1718.1	1760.2
62.5°	36386.6	37917.0	39334.4	40125.4	40102.4	29265.2	17378.3	3623.9	1543.8	1771.7	1844.5
65°	36394.3	38213.9	40020.1	40908.8	40954.8	29023.8	16353.6	3200.6	1455.7	1779.4	1928.8
67.5°	33360.3	35300.6	37405.6	38399.7	38629.5	26717.7	14156.6	2631.7	1312.0	1702.8	1959.4
70°	28175.3	30069.6	32218.7	33195.6	33603.5	22775.9	11402.3	2028.4	1128.2	1534.2	1896.2
72.5°	22197.4	24055.3	25551.2	26265.7	26583.6	17408.9	8303.2	1532.3	925.1	1292.9	1725.8
75°	15715.7	17110.1	17905.0	18064.0	18113.8	10494.4	5045.1	1139.7	762.3	1005.6	1457.6
77.5°	8870.2	9467.8	9402.6	9473.5	8883.6	4051.0	2196.9	816.0	628.2	764.2	1130.1
80°	3463.0	3570.3	3353.8	3286.8	3014.8	1507.4	969.2	568.9	501.8	578.4	791.1
82.5°	1526.6	1576.4	1530.4	1541.9	1474.8	777.6	580.4	411.8	383.1	423.3	524.8
85°	840.9	856.2	852.3	877.2	840.9	310.3	275.8	252.8	268.2	287.3	337.1
87.5°	409.9	413.7	400.3	421.4	408.0	157.1	136.0	143.7	157.1	160.9	160.9
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: P193948

CATALOG NUMBER: GLEON-AF-10-LED-E1-T2R-8030-800

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7
2.5°	3106.8	3091.4	3093.3	3089.5	3081.9	3081.9
5°	3079.9	3064.6	3064.6	3060.8	3051.2	3053.1
7.5°	3106.8	3081.9	3072.3	3058.9	3045.5	3045.5
10°	3137.4	3093.3	3066.5	3043.5	3026.3	3026.3
12.5°	3160.4	3091.4	3047.4	3016.7	2999.5	2999.5
15°	3168.0	3078.0	3016.7	2980.3	2965.0	2963.1
17.5°	3143.1	3026.3	2951.6	2909.5	2890.3	2884.6
20°	3066.5	2932.5	2842.4	2794.5	2767.7	2758.2
22.5°	2951.6	2798.4	2693.0	2643.2	2608.8	2603.0
25°	2790.7	2626.0	2522.6	2474.7	2455.5	2449.8
27.5°	2603.0	2449.8	2361.7	2331.0	2313.8	2311.9
30°	2424.9	2294.6	2229.5	2206.5	2185.5	2181.6
32.5°	2258.2	2175.9	2151.0	2118.4	2068.6	2062.9
35°	2139.5	2131.8	2114.6	2041.8	1980.5	1963.3
37.5°	2066.7	2137.6	2049.5	1905.8	1861.8	1857.9
40°	2024.6	2078.2	1926.9	1877.1	1880.9	1877.1
42.5°	1928.8	1984.3	1930.7	1907.7	1923.0	1926.9
45°	1833.0	1894.3	1959.4	1944.1	1980.5	1980.5
47.5°	1779.4	1871.3	1957.5	1957.5	2011.2	2030.3
50°	1718.1	1852.2	1926.9	1953.7	1995.8	1980.5
52.5°	1714.3	1819.6	1882.8	1930.7	1949.9	1932.6
55°	1720.0	1792.8	1838.8	1892.4	1915.4	1917.3
57.5°	1727.7	1777.5	1808.1	1833.0	1902.0	1902.0
60°	1746.8	1764.1	1781.3	1794.7	1884.7	1886.7
62.5°	1777.5	1750.7	1746.8	1760.2	1875.2	1867.5
65°	1825.4	1731.5	1702.8	1716.2	1865.6	1842.6
67.5°	1890.5	1702.8	1647.2	1656.8	1857.9	1808.1
70°	1949.9	1656.8	1578.3	1568.7	1785.1	1697.0
72.5°	1955.6	1603.2	1482.5	1453.8	1551.5	1467.2
75°	1859.8	1566.8	1377.2	1292.9	1281.4	1269.9
77.5°	1676.0	1545.7	1254.6	1122.4	1099.4	1107.1
80°	1402.1	1467.2	1107.1	950.0	1074.5	1061.1
82.5°	1047.7	1294.8	940.5	840.9	838.9	741.3
85°	582.3	1009.4	766.2	630.2	438.6	425.2
87.5°	162.8	561.2	536.3	356.3	243.3	252.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)