

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: P193956

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193956
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-08-LED-E1-T2R-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40554 lumens
Efficiency: N/A
Efficacy: 91.1 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

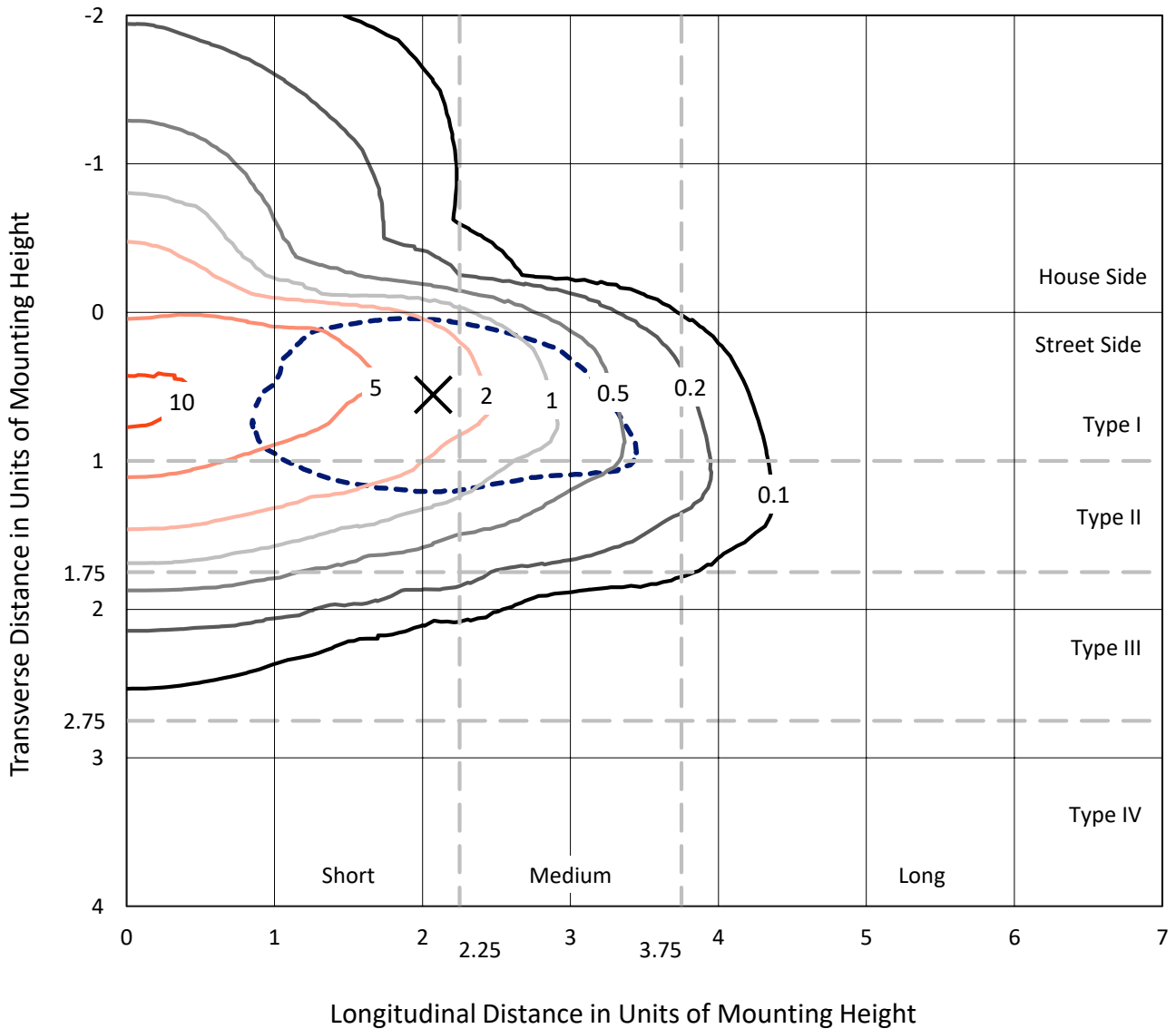
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193956
 CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-8030

Iso-Footcandle Lines of Horizontal Illumination

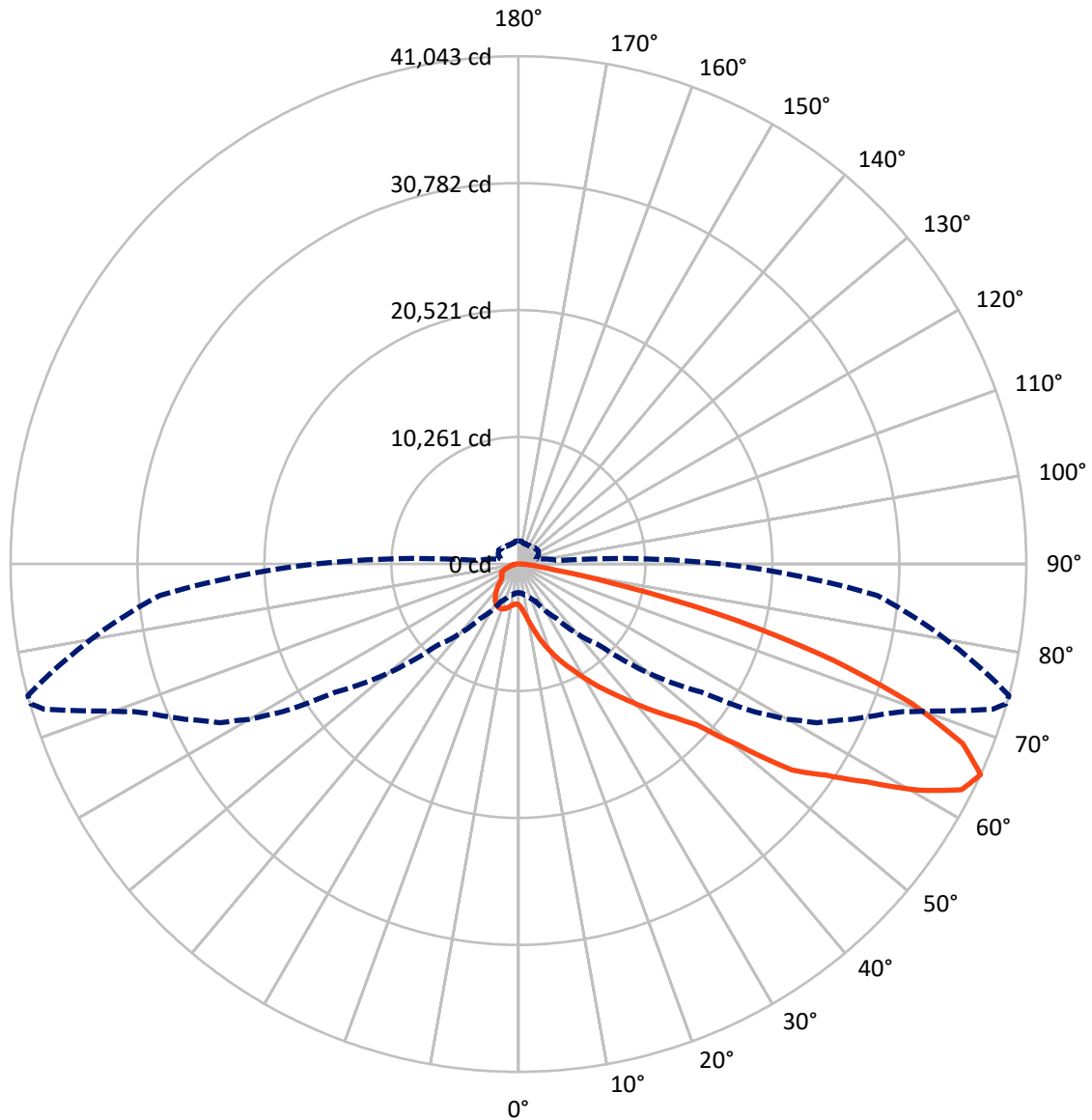
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P193956
CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193956

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6252.5	0.0	6252.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	34301.5	0.0	34301.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	40554.0	0.0	40554.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.4	1.0
10°-20°	1591.7	3.9
20°-30°	3265.6	8.1
30°-40°	5494.2	13.5
40°-50°	7591.5	18.7
50°-60°	9476.5	23.4
60°-70°	8527.8	21.0
70°-80°	3574.8	8.8
80°-90°	624.5	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°	40554.0	100.0
0°-180°	40554.0	100.0



REPORT NUMBER: P193956

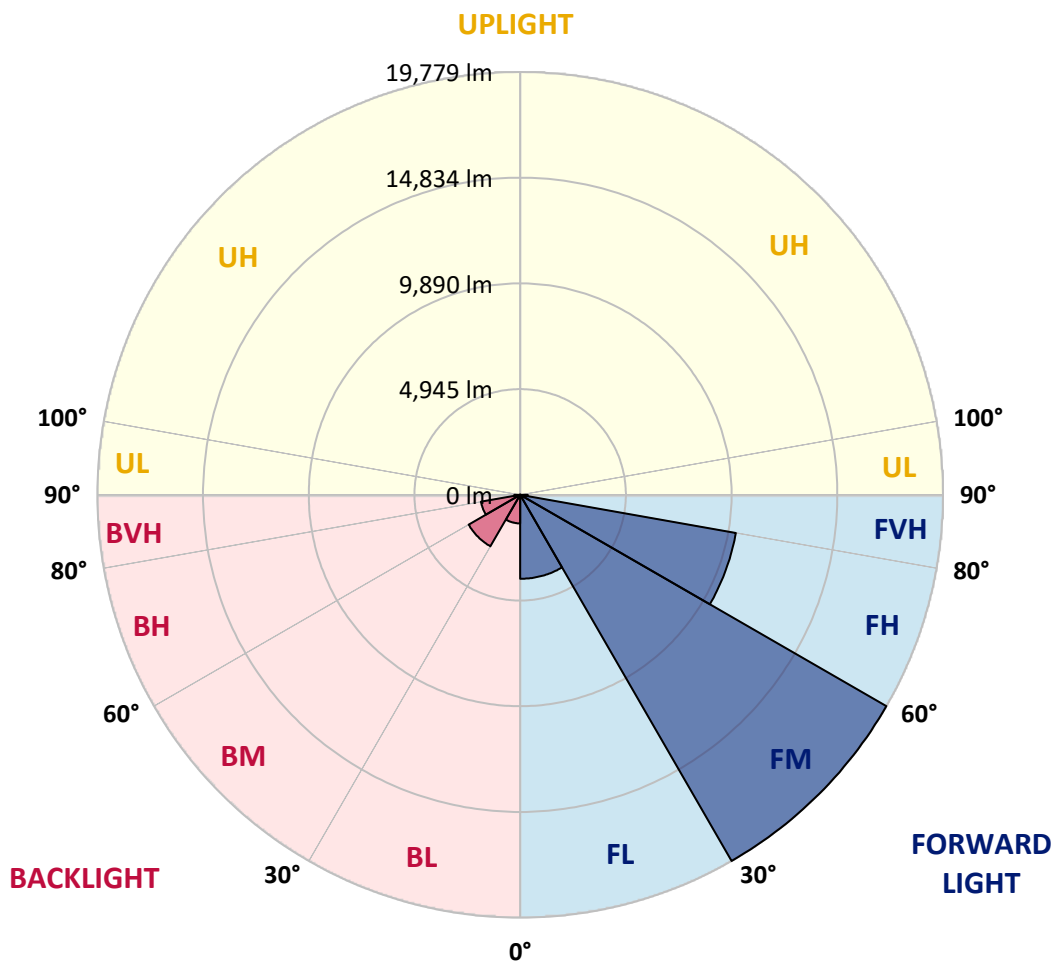
CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3927.5	9.7			
FM	(30°-60°)	19779.2	48.8			
FH	(60°-80°)	10243.8	25.3			G4/12000
FVH	(80°-90°)	351.0	0.9			G3/500
BL	(0°-30°)	1337.1	3.3	B3/2500		
BM	(30°-60°)	2783.1	6.9	B3/5000		
BH	(60°-80°)	1858.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	273.5	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: P193956
 CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8
2.5°	4184.5	4138.5	4150.0	4073.2	3979.1	3856.3	3720.0	3718.1	3720.0	3706.6	3656.7
5°	5802.7	5747.0	5725.9	5553.1	5299.8	4938.9	4547.3	4505.1	4487.8	4443.7	4341.9
7.5°	6983.2	6952.4	6919.8	6789.3	6558.9	6155.8	5629.9	5539.7	5453.3	5432.2	5317.0
10°	7745.2	7737.5	7668.4	7633.9	7489.9	7140.6	6628.0	6541.7	6447.6	6415.0	6294.1
12.5°	8347.9	8346.0	8313.4	8323.0	8198.2	7944.8	7503.3	7424.6	7355.5	7255.7	7169.3
15°	8764.5	8766.4	8814.4	8868.1	8848.9	8678.1	8263.5	8228.9	8169.4	8100.3	7998.6
17.5°	9106.1	9115.7	9165.6	9263.5	9369.1	9355.7	9027.4	8998.6	8946.8	8852.8	8799.0
20°	9877.8	9914.2	9818.3	9818.3	9829.8	9881.6	9724.2	9701.2	9628.2	9578.3	9536.1
22.5°	11181.1	11223.3	11006.4	10785.7	10568.8	10411.4	10254.0	10282.8	10232.9	10198.3	10173.4
25°	12874.1	12906.7	12555.5	12183.1	11741.6	11165.8	10776.1	10758.8	10731.9	10710.8	10699.3
27.5°	14467.3	14480.7	14148.7	13603.5	13091.0	12263.7	11305.9	11284.8	11252.1	11211.8	11177.3
30°	15830.1	15826.3	15484.6	14964.5	14415.5	13499.9	12110.2	12044.9	11948.9	11839.5	11755.0
32.5°	17010.6	17004.9	16630.6	16091.2	15515.4	14724.5	13211.9	13077.6	12927.9	12714.8	12586.2
35°	17939.7	17935.8	17582.7	17020.2	16359.9	15878.1	14475.0	14309.9	14119.9	13833.9	13636.2
37.5°	18291.0	18291.0	18093.2	17709.3	17125.8	16795.7	15878.1	15678.5	15475.0	15150.6	14928.0
40°	18085.6	18089.4	18131.6	18060.6	17776.5	17523.2	17187.2	17068.2	16893.6	16601.8	16369.5
42.5°	17396.5	17417.6	17697.8	18041.4	18183.5	18143.2	18348.5	18294.8	18171.9	17947.4	17763.1
45°	16523.1	16588.4	16895.5	17544.3	18296.7	18678.7	19321.7	19327.5	19304.5	19183.5	19041.5
47.5°	15323.4	15415.5	15820.6	16697.8	18031.8	19198.9	20310.3	20362.1	20410.1	20331.4	20266.1
50°	13730.2	13839.6	14446.2	15609.4	17492.4	19738.3	22177.9	22412.1	22631.0	22604.1	22648.2
52.5°	12023.8	12152.4	12895.2	14190.9	16565.3	19863.0	23371.9	23753.9	24135.8	24448.7	24780.8
55°	10484.3	10415.2	11158.1	12522.8	15041.2	19300.6	24444.9	24905.6	25331.7	25715.6	26111.0
57.5°	8397.8	8511.1	9255.8	10605.3	13023.8	17713.2	25183.9	25857.6	26470.0	27105.3	27665.8
60°	6138.6	6251.8	7059.9	8430.5	10833.7	15306.1	24619.6	25640.7	26621.6	27594.8	28354.9
62.5°	3706.6	3791.0	4503.2	5808.4	8353.7	12451.8	22105.0	23444.8	24888.3	26051.5	27216.6
65°	2307.2	2355.2	2618.2	3336.1	5365.0	9296.2	18060.6	19521.4	21076.2	22552.3	23763.5
67.5°	1888.8	1906.1	1954.1	2107.6	2946.4	6061.8	13442.3	14736.0	16139.2	17567.3	18914.8
70°	1698.8	1687.2	1687.2	1696.8	1888.8	3259.3	8800.9	9643.6	10812.6	12054.5	13286.8
72.5°	1533.7	1522.2	1501.1	1472.3	1541.4	1988.6	4549.2	5184.6	6027.2	7131.0	8311.5
75°	1378.2	1362.8	1337.9	1301.4	1349.4	1501.1	2184.4	2451.2	2862.0	3449.3	4107.7
77.5°	1217.0	1197.8	1174.7	1147.9	1209.3	1167.1	1280.3	1376.3	1533.7	1721.8	1969.4
80°	1034.6	1017.3	1009.7	996.2	1069.2	888.7	904.1	963.6	1055.7	1157.5	1272.6
82.5°	810.0	810.0	840.7	846.5	927.1	639.2	675.7	727.5	775.5	829.2	883.0
85°	533.6	537.5	641.1	681.4	731.3	430.0	506.7	524.0	562.4	593.1	616.2
87.5°	167.0	180.4	391.6	433.8	420.4	243.8	311.0	318.6	345.5	366.6	385.8
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: P193956
 CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-8030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8
2.5°	3656.7	3633.6	3612.5	3610.6	3595.2	3574.1	3581.8	3549.2	3551.1	3533.8	3514.6
5°	4299.7	4284.3	4207.6	4186.4	4128.9	4092.4	4086.6	4009.8	4000.2	3956.1	3908.1
7.5°	5224.9	5175.0	5067.5	5015.7	4917.8	4844.8	4810.3	4708.5	4658.6	4543.5	4491.6
10°	6194.2	6130.9	5998.4	5925.5	5831.5	5714.4	5651.0	5503.2	5445.6	5340.1	5213.4
12.5°	7092.6	7029.2	6892.9	6837.3	6712.5	6587.7	6518.6	6351.6	6276.8	6107.9	6008.0
15°	7923.7	7860.4	7741.4	7683.8	7559.0	7457.3	7365.1	7200.1	7111.8	6954.4	6823.8
17.5°	8729.9	8662.7	8559.1	8507.2	8386.3	8282.7	8182.8	8027.4	7937.1	7779.7	7662.7
20°	9478.5	9428.6	9353.7	9284.6	9163.7	9069.7	8950.6	8816.3	8685.8	8570.6	8459.3
22.5°	10131.1	10111.9	10031.3	10000.6	9897.0	9816.3	9712.7	9580.2	9486.2	9340.3	9236.7
25°	10693.6	10687.8	10649.4	10639.8	10566.9	10490.1	10467.1	10357.6	10271.3	10142.7	10035.2
27.5°	11177.3	11183.0	11173.4	11200.3	11181.1	11146.6	11148.5	11112.0	11062.1	10954.6	10860.6
30°	11714.7	11684.0	11701.3	11739.7	11751.2	11755.0	11818.4	11839.5	11835.7	11764.6	11718.6
32.5°	12474.9	12401.9	12334.7	12329.0	12367.4	12382.7	12490.2	12545.9	12593.9	12611.1	12618.8
35°	13444.2	13298.3	13158.2	13083.3	13018.1	13035.4	13112.1	13202.3	13307.9	13380.9	13467.2
37.5°	14665.0	14486.5	14238.9	14062.3	14018.1	13922.2	13972.1	14043.1	14146.7	14260.0	14409.7
40°	16144.9	15874.3	15596.0	15361.8	15235.1	15058.5	15056.6	15043.2	15106.5	15212.1	15423.2
42.5°	17569.2	17329.3	17033.7	16788.0	16622.9	16386.8	16338.8	16214.0	16242.8	16335.0	16540.4
45°	18903.3	18705.6	18525.1	18241.0	18100.9	17845.6	17765.0	17617.2	17534.7	17576.9	17782.3
47.5°	20195.1	20068.4	19880.3	19696.0	19588.5	19360.1	19256.5	19150.9	19045.3	19041.5	19256.5
50°	22713.5	22646.3	22423.6	22231.7	22283.5	22003.3	22020.5	21736.5	21865.1	21880.4	22331.5
52.5°	25080.2	25314.4	25479.5	25681.0	25811.6	25836.5	25922.9	26051.5	26207.0	26514.1	26932.6
55°	26435.4	26729.1	26899.9	27053.5	27306.9	27360.6	27504.6	27675.4	27811.7	28157.2	28512.3
57.5°	28045.9	28591.0	28855.9	29099.7	29441.4	29571.9	29811.8	29998.0	30174.6	30583.5	31013.4
60°	29038.3	29702.4	30241.8	30627.6	31055.7	31362.8	31725.6	32017.3	32431.9	32921.4	33562.5
62.5°	28249.3	29224.4	29940.4	30602.7	31184.3	31771.6	32291.8	32837.0	33466.6	34207.5	35201.8
65°	25107.1	26099.5	27326.1	28013.2	28783.0	29689.0	30479.8	31362.8	32220.8	33299.6	34769.9
67.5°	20212.4	21366.0	22744.2	23437.1	24322.0	25333.6	26220.4	27299.2	28301.2	29608.3	31426.1
70°	14569.0	16060.5	17219.9	17943.5	18976.2	20018.5	20874.6	22130.0	22959.2	24299.0	26178.2
72.5°	9225.1	10401.8	11822.2	12734.0	13651.5	14707.2	15582.5	16665.1	17438.7	18659.5	20362.1
75°	4960.0	5827.6	7075.3	7941.0	8923.8	9825.9	10851.0	11576.5	12148.5	13114.1	14496.1
77.5°	2324.5	2852.4	3483.9	4150.0	4816.0	5510.9	6186.6	6773.9	7019.6	7572.4	8388.2
80°	1410.8	1581.7	1765.9	1971.3	2249.7	2474.2	2771.8	2986.7	3002.1	3176.8	3426.3
82.5°	942.5	1005.8	1061.5	1113.3	1184.3	1240.0	1303.3	1378.2	1408.9	1449.2	1529.8
85°	643.0	673.7	685.3	717.9	710.2	729.4	754.4	779.3	792.8	790.8	827.3
87.5°	395.4	410.8	418.5	426.1	420.4	412.7	424.2	437.6	441.5	430.0	433.8
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: P193956

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-8030

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8
2.5°	3518.5	3501.2	3483.9	3472.4	3468.5	3366.8	3322.7	3293.9	3232.4	3182.5	3142.2
5°	3881.2	3844.8	3816.0	3781.4	3762.2	3505.0	3411.0	3345.7	3238.2	3174.9	3117.3
7.5°	4464.8	4363.0	4303.5	4236.3	4178.8	3714.2	3558.8	3457.0	3307.3	3222.8	3157.6
10°	5127.0	5021.4	4927.4	4823.7	4733.5	3992.6	3766.1	3608.7	3411.0	3301.5	3215.2
12.5°	5866.0	5762.4	5643.3	5510.9	5395.7	4345.8	4031.0	3806.4	3535.7	3389.8	3268.9
15°	6739.4	6557.0	6413.1	6259.5	6125.1	4768.0	4340.0	4029.0	3668.2	3470.5	3309.2
17.5°	7551.3	7359.4	7163.6	7029.2	6873.7	5242.2	4651.0	4255.5	3777.6	3522.3	3316.9
20°	8344.1	8134.9	7965.9	7785.5	7622.4	5733.6	4983.0	4455.2	3848.6	3524.2	3268.9
22.5°	9042.8	8912.3	8724.1	8528.4	8363.3	6225.0	5294.0	4624.1	3875.5	3480.1	3184.5
25°	9837.5	9699.3	9468.9	9303.8	9119.6	6725.9	5599.2	4754.6	3860.1	3397.5	3053.9
27.5°	10685.9	10532.3	10296.2	10123.5	9900.8	7246.1	5879.4	4848.7	3802.5	3263.2	2879.3
30°	11570.8	11430.6	11198.4	11023.7	10799.1	7797.0	6192.3	4912.0	3687.4	3077.0	2675.8
32.5°	12520.9	12403.8	12173.5	11991.1	11751.2	8394.0	6484.1	4931.2	3512.7	2856.2	2460.8
35°	13423.1	13342.5	13148.6	12977.8	12728.2	8958.3	6793.1	4921.6	3305.4	2614.4	2265.0
37.5°	14438.5	14390.5	14294.5	14077.6	13772.4	9724.2	7163.6	4881.3	3052.0	2374.4	2115.3
40°	15521.1	15524.9	15421.3	15273.5	14989.4	10653.2	7605.1	4802.6	2775.6	2163.3	1979.0
42.5°	16667.1	16726.6	16676.7	16571.1	16298.5	11590.0	8132.9	4706.6	2506.9	1957.9	1844.6
45°	17980.0	18052.9	18129.7	17974.2	17709.3	12826.1	8827.8	4581.9	2217.0	1787.1	1752.5
47.5°	19494.5	19609.7	19678.8	19680.7	19415.8	14357.9	9956.5	4507.0	1959.8	1671.9	1708.4
50°	22690.5	22726.9	22890.1	23174.2	22970.7	17903.2	11927.8	4460.9	1785.1	1600.9	1675.7
52.5°	27295.3	27696.5	27978.7	27959.5	27683.1	20154.8	13014.2	4222.9	1681.5	1574.0	1660.4
55°	29170.7	29671.7	30193.8	30332.0	30117.0	22076.2	14041.2	3984.9	1631.6	1593.2	1666.1
57.5°	31669.9	32514.5	33230.5	33531.8	33220.9	24535.1	15392.5	3860.1	1616.2	1645.0	1702.6
60°	34589.5	35633.7	36574.2	37115.5	37115.5	27360.6	16793.7	3808.3	1595.1	1721.8	1764.0
62.5°	36464.8	37998.5	39418.9	40211.7	40188.7	29328.1	17415.7	3631.7	1547.1	1775.5	1848.5
65°	36472.5	38296.0	40106.1	40996.8	41042.8	29086.2	16388.7	3207.5	1458.8	1783.2	1932.9
67.5°	33432.0	35376.5	37486.0	38482.2	38712.6	26775.2	14187.1	2637.4	1314.9	1706.4	1963.7
70°	28235.9	30134.3	32288.0	33266.9	33675.8	22824.8	11426.8	2032.8	1130.6	1537.5	1900.3
72.5°	22245.1	24107.0	25606.2	26322.2	26640.8	17446.4	8321.0	1535.6	927.1	1295.7	1729.5
75°	15749.5	17146.9	17943.5	18102.8	18152.7	10517.0	5056.0	1142.1	764.0	1007.7	1460.7
77.5°	8889.2	9488.1	9422.8	9493.9	8902.7	4059.8	2201.7	817.7	629.6	765.9	1132.5
80°	3470.5	3578.0	3361.1	3293.9	3021.3	1510.6	971.3	570.1	502.9	579.7	792.8
82.5°	1529.8	1579.8	1533.7	1545.2	1478.0	779.3	581.6	412.7	383.9	424.2	525.9
85°	842.7	858.0	854.2	879.1	842.7	311.0	276.4	253.4	268.7	287.9	337.8
87.5°	410.8	414.6	401.2	422.3	408.9	157.4	136.3	144.0	157.4	161.2	161.2
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: P193956

CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-8030

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8
2.5°	3113.4	3098.1	3100.0	3096.2	3088.5	3088.5
5°	3086.6	3071.2	3071.2	3067.4	3057.8	3059.7
7.5°	3113.4	3088.5	3078.9	3065.4	3052.0	3052.0
10°	3144.1	3100.0	3073.1	3050.1	3032.8	3032.8
12.5°	3167.2	3098.1	3053.9	3023.2	3005.9	3005.9
15°	3174.9	3084.6	3023.2	2986.7	2971.4	2969.5
17.5°	3149.9	3032.8	2958.0	2915.7	2896.5	2890.8
20°	3073.1	2938.8	2848.5	2800.6	2773.7	2764.1
22.5°	2958.0	2804.4	2698.8	2648.9	2614.4	2608.6
25°	2796.7	2631.6	2528.0	2480.0	2460.8	2455.0
27.5°	2608.6	2455.0	2366.7	2336.0	2318.8	2316.8
30°	2430.1	2299.6	2234.3	2211.3	2190.2	2186.3
32.5°	2263.1	2180.6	2155.6	2123.0	2073.1	2067.3
35°	2144.1	2136.4	2119.1	2046.2	1984.8	1967.5
37.5°	2071.1	2142.2	2053.9	1909.9	1865.8	1861.9
40°	2028.9	2082.7	1931.0	1881.1	1885.0	1881.1
42.5°	1932.9	1988.6	1934.9	1911.8	1927.2	1931.0
45°	1837.0	1898.4	1963.7	1948.3	1984.8	1984.8
47.5°	1783.2	1875.4	1961.7	1961.7	2015.5	2034.7
50°	1721.8	1856.2	1931.0	1957.9	2000.1	1984.8
52.5°	1718.0	1823.5	1886.9	1934.9	1954.1	1936.8
55°	1723.7	1796.7	1842.7	1896.5	1919.5	1921.4
57.5°	1731.4	1781.3	1812.0	1837.0	1906.1	1906.1
60°	1750.6	1767.9	1785.1	1798.6	1888.8	1890.7
62.5°	1781.3	1754.4	1750.6	1764.0	1879.2	1871.5
65°	1829.3	1735.2	1706.4	1719.9	1869.6	1846.6
67.5°	1894.6	1706.4	1650.8	1660.4	1861.9	1812.0
70°	1954.1	1660.4	1581.7	1572.1	1789.0	1700.7
72.5°	1959.8	1606.6	1485.7	1456.9	1554.8	1470.3
75°	1863.8	1570.2	1380.1	1295.7	1284.1	1272.6
77.5°	1679.6	1549.0	1257.3	1124.8	1101.8	1109.5
80°	1405.1	1470.3	1109.5	952.1	1076.8	1063.4
82.5°	1050.0	1297.6	942.5	842.7	840.7	742.8
85°	583.5	1011.6	767.8	631.5	439.6	426.1
87.5°	163.2	562.4	537.5	357.0	243.8	253.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)