

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: P192596

Luminaire Tested: **GLEON-AF-08-LED-E1-5NQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47592.2 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

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

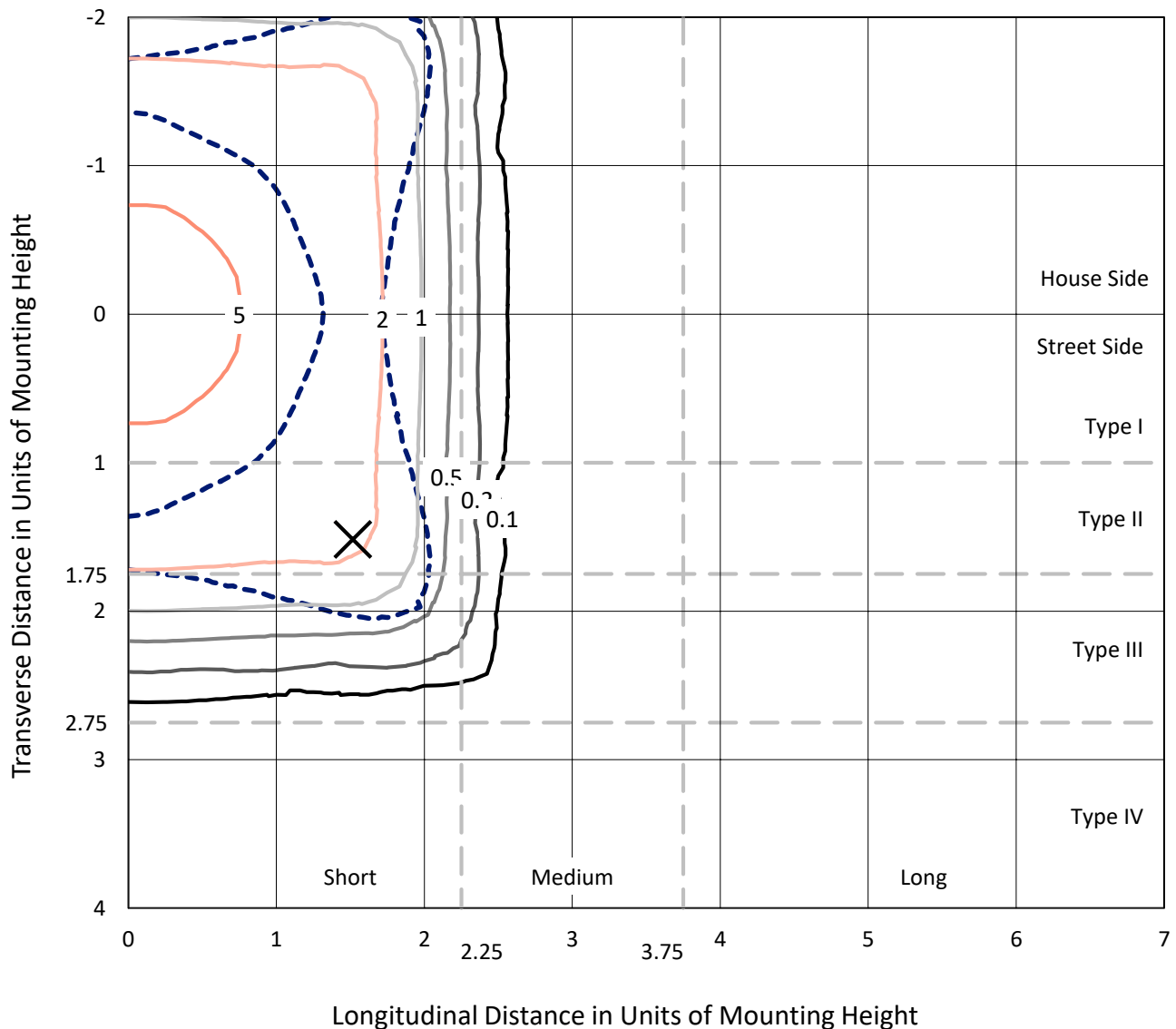


REPORT NUMBER: P192596

CATALOG NUMBER: GLEON-AF-08-LED-E1-5NQ-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

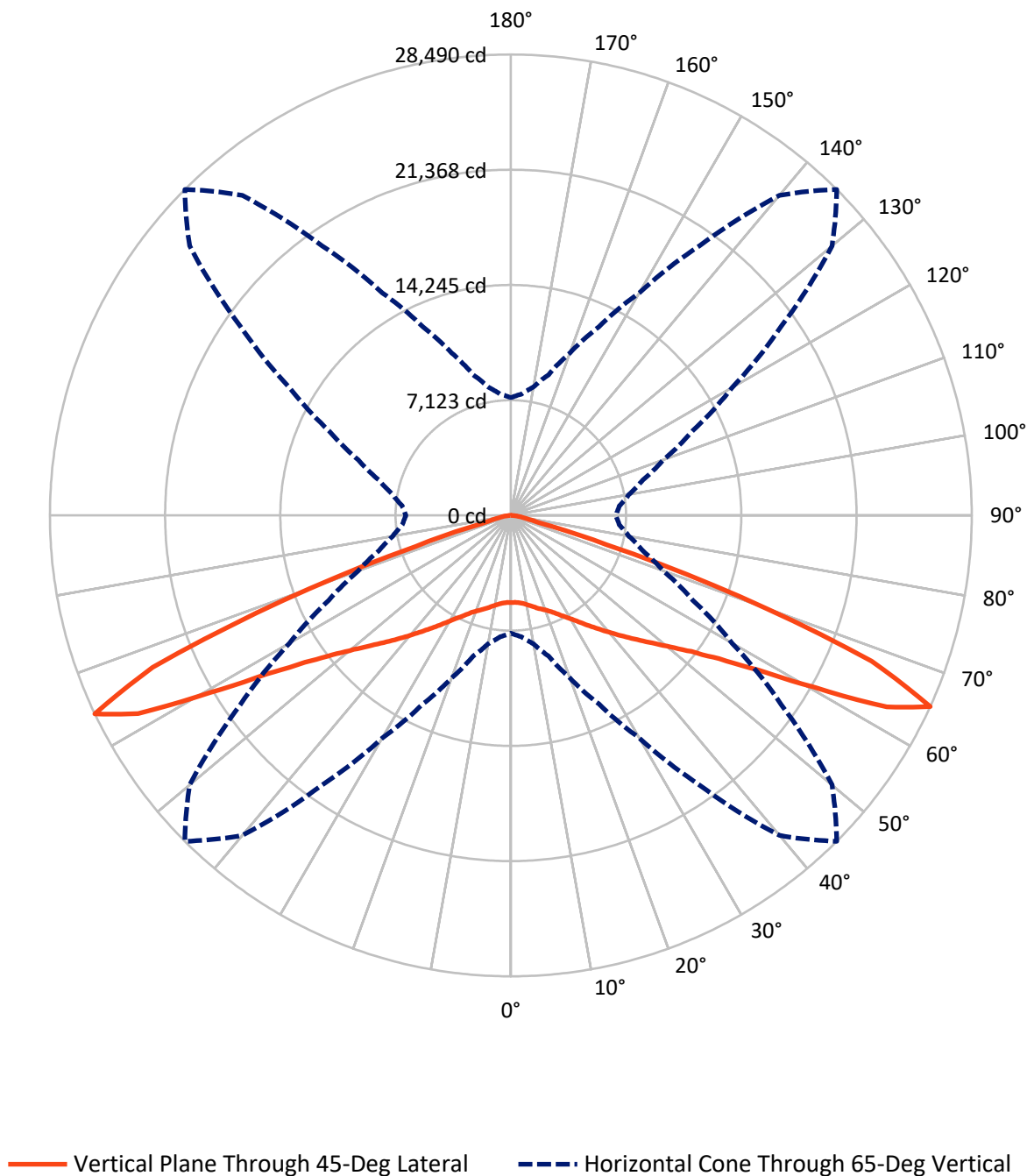


Based on 30 foot mounting height. Maximum calculated value = 6 fc
Type V - Short - Full Cutoff

REPORT NUMBER: P192596

CATALOG NUMBER: GLEON-AF-08-LED-E1-5NQ-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P192596

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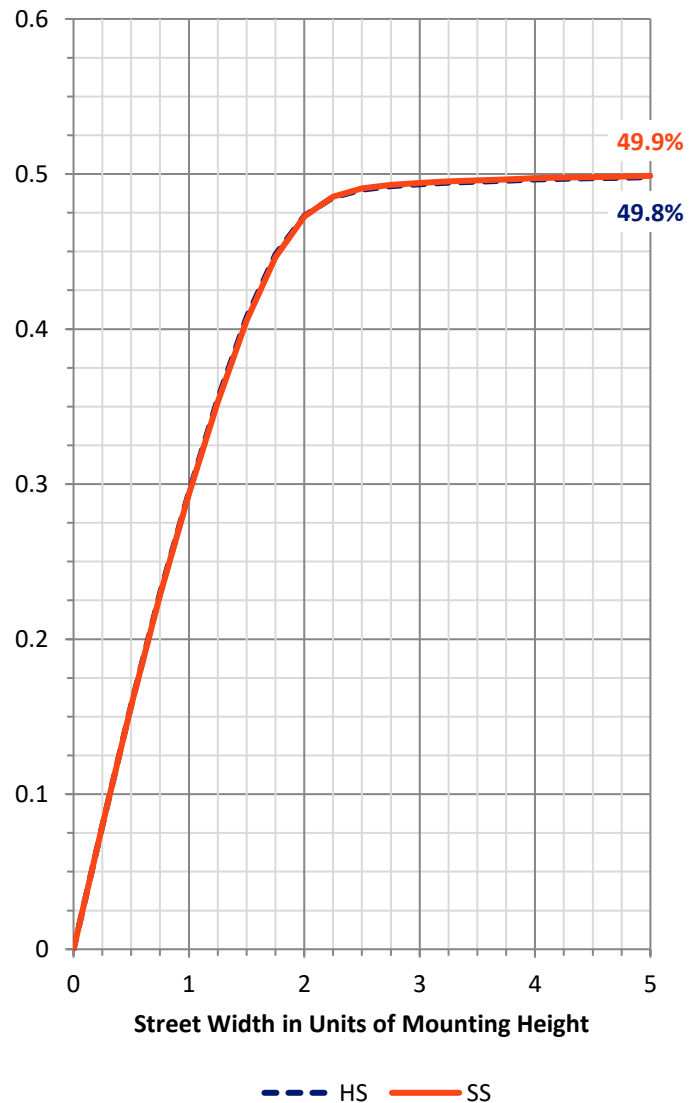
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23796.1	0.0	23796.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23796.1	0.0	23796.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	47592.2	0.0	47592.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.9	1.1
10°-20°	1683.4	3.5
20°-30°	3147.6	6.6
30°-40°	5323.4	11.2
40°-50°	8704.4	18.3
50°-60°	13841.3	29.1
60°-70°	12511.6	26.3
70°-80°	1583.4	3.3
80°-90°	272.4	0.6
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°	47592.2	100.0
0°-180°	47592.2	100.0

Coefficient of Utilization



REPORT NUMBER: P192596

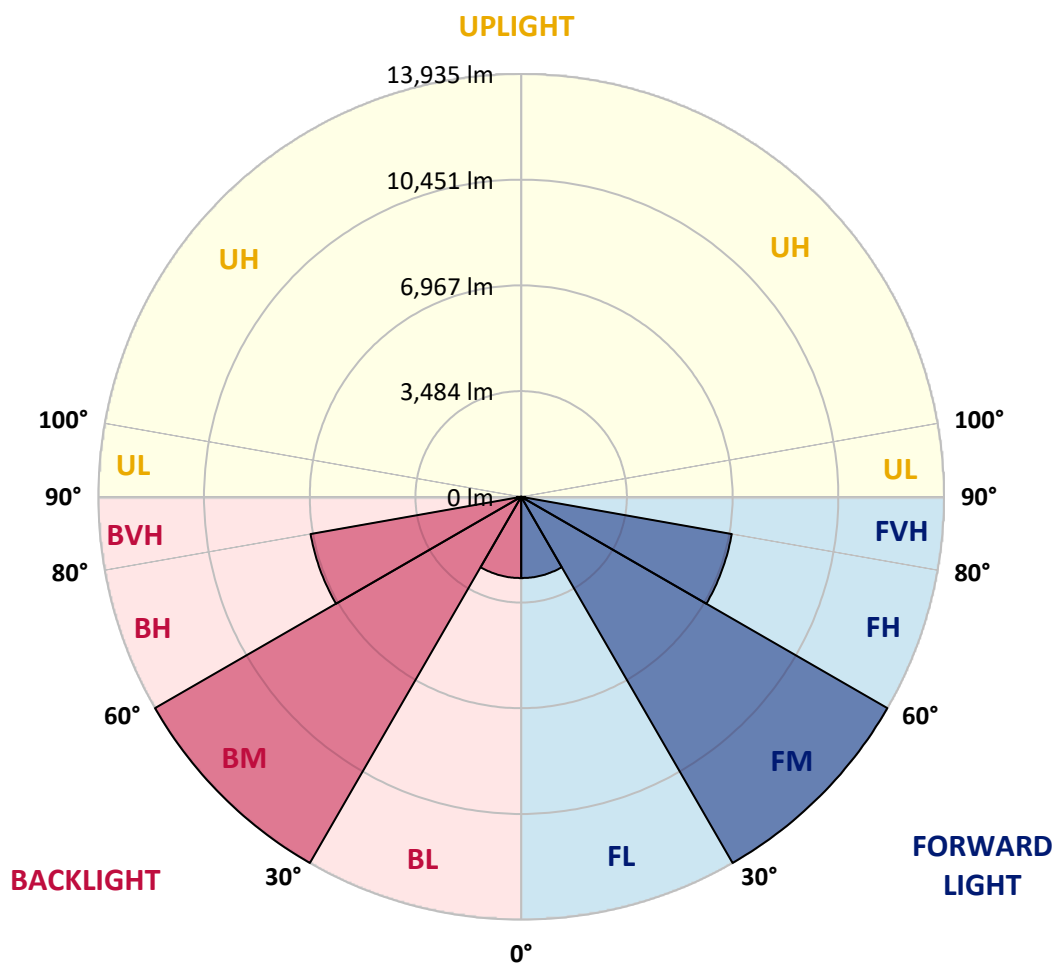
CATALOG NUMBER: GLEON-AF-08-LED-E1-5NQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2677.9	5.6			
FM	(30°-60°)	13934.5	29.3			
FH	(60°-80°)	7047.5	14.8			G3/7500
FVH	(80°-90°)	136.2	0.3			G2/225
BL	(0°-30°)	2677.9	5.6	B4/5000		
BM	(30°-60°)	13934.5	29.3	B5		
BH	(60°-80°)	7047.5	14.8	B5		G3/7500
BVH	(80°-90°)	136.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P192596

CATALOG NUMBER: GLEON-AF-08-LED-E1-5NQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5385.1	5385.1	5385.1	5385.1	5385.1	5385.1	5385.1	5385.1	5385.1	5385.1	5385.1
2.5°	5389.5	5394.0	5398.5	5394.0	5398.5	5391.7	5387.3	5394.0	5387.3	5380.6	5385.1
5°	5436.3	5438.6	5438.6	5432.0	5438.6	5434.1	5427.5	5436.3	5429.6	5423.0	5427.5
7.5°	5514.4	5523.3	5516.6	5510.0	5514.4	5510.0	5505.5	5507.6	5505.5	5498.8	5500.9
10°	5619.1	5625.8	5621.4	5619.1	5623.6	5621.4	5616.9	5614.7	5616.9	5610.3	5610.3
12.5°	5746.2	5744.0	5741.7	5744.0	5750.7	5750.7	5748.3	5750.7	5755.1	5757.3	5752.8
15°	5871.0	5875.4	5875.4	5875.4	5888.8	5900.0	5906.7	5911.2	5920.0	5922.3	5913.3
17.5°	6027.1	6027.1	6024.8	6027.1	6040.4	6058.2	6064.9	6073.8	6082.8	6089.4	6078.3
20°	6200.9	6205.4	6205.4	6209.7	6227.7	6247.7	6247.7	6252.2	6247.7	6252.2	6245.5
22.5°	6412.7	6426.0	6426.0	6428.3	6446.1	6470.6	6463.9	6470.6	6459.4	6468.3	6459.4
25°	6689.0	6709.1	6704.5	6704.5	6718.1	6733.5	6735.9	6749.2	6747.0	6758.1	6751.4
27.5°	7001.0	7032.3	7041.2	7038.9	7047.9	7063.5	7068.0	7083.5	7074.6	7083.5	7079.1
30°	7375.5	7388.8	7406.6	7413.5	7424.6	7440.1	7440.1	7442.4	7431.3	7444.6	7451.3
32.5°	7763.3	7787.9	7805.7	7845.8	7865.9	7877.0	7874.8	7879.2	7868.1	7885.9	7899.3
35°	8276.0	8293.9	8322.9	8354.1	8380.7	8378.5	8371.9	8374.0	8374.0	8389.7	8403.0
37.5°	8893.3	8897.8	8935.8	8980.3	8993.6	8980.3	8940.2	8931.3	8911.3	8931.3	8953.6
40°	9546.5	9562.1	9637.9	9666.8	9673.6	9649.0	9591.1	9557.7	9513.1	9537.6	9568.8
42.5°	10230.8	10261.9	10331.1	10382.4	10404.6	10389.0	10308.8	10257.5	10199.6	10212.9	10244.1
45°	10988.6	11026.6	11124.6	11173.6	11216.0	11191.4	11113.5	11035.4	10944.1	10950.7	10999.7
47.5°	11835.6	11873.5	12000.5	12083.0	12105.3	12100.8	12013.9	11907.0	11782.1	11777.6	11820.0
50°	12785.1	12823.0	12981.3	13108.3	13173.0	13166.3	13063.7	12912.1	12760.6	12762.8	12816.3
52.5°	13712.4	13759.1	13924.1	14142.5	14269.6	14360.9	14298.5	14155.9	13970.9	13975.4	14024.4
55°	14581.6	14659.7	14849.1	15145.5	15381.8	15638.2	15711.7	15707.2	15595.7	15627.1	15676.1
57.5°	15002.9	15118.9	15410.8	15878.8	16360.4	16881.8	17323.3	17653.1	17793.5	18005.3	17956.2
60°	14204.9	14390.0	14820.2	15509.0	16460.7	17548.3	18714.0	19853.1	20824.9	21558.2	21137.0
62.5°	11630.5	11871.2	12392.8	13275.4	14715.4	16456.2	18687.3	21379.9	24313.1	26082.9	24819.2
65°	7277.4	7527.1	8057.6	9002.6	10687.7	12851.9	15878.8	20341.3	25822.2	28490.1	25917.9
67.5°	2837.5	2973.4	3261.0	3864.9	5131.1	7056.8	10094.8	15158.9	21714.1	24052.4	21310.8
70°	1422.0	1435.4	1488.8	1600.3	1872.2	2431.8	3700.1	7027.8	12453.1	15040.8	12005.0
72.5°	1027.6	1029.8	1056.5	1105.6	1192.4	1317.3	1558.0	2150.9	4049.9	6189.7	3795.8
75°	786.7	795.7	811.4	838.1	884.9	947.3	1034.2	1239.3	1535.7	1780.9	1497.8
77.5°	606.3	624.1	635.3	659.8	688.8	731.1	755.6	833.6	969.5	1020.8	1005.3
80°	461.4	477.0	501.5	521.6	541.6	561.7	552.8	588.5	659.8	702.1	679.8
82.5°	294.2	312.1	383.4	401.2	410.2	423.5	407.9	410.2	441.3	468.0	441.3
85°	189.4	200.6	243.0	265.3	267.4	276.4	269.7	254.1	254.1	231.8	260.8
87.5°	87.0	89.1	109.3	129.3	133.8	120.4	118.1	113.6	91.3	87.0	93.6
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: P192596

CATALOG NUMBER: GLEON-AF-08-LED-E1-5NQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5385.1	5385.1	5385.1	5385.1	5385.1	5385.1	5385.1	5385.1
2.5°	5382.8	5387.3	5389.5	5396.2	5398.5	5398.5	5400.6	5405.2
5°	5425.2	5432.0	5434.1	5443.1	5445.3	5443.1	5447.4	5449.8
7.5°	5500.9	5512.1	5516.6	5525.5	5518.8	5527.8	5529.9	5529.9
10°	5612.4	5623.6	5625.8	5634.7	5630.2	5634.7	5634.7	5630.2
12.5°	5759.6	5761.8	5755.1	5761.8	5752.8	5757.3	5750.7	5746.2
15°	5922.3	5915.7	5900.0	5900.0	5886.6	5888.8	5886.6	5884.3
17.5°	6080.5	6067.1	6056.0	6051.6	6040.4	6038.2	6031.4	6031.4
20°	6254.3	6247.7	6241.0	6232.0	6220.9	6209.7	6207.6	6212.1
22.5°	6463.9	6461.7	6461.7	6457.2	6441.6	6430.5	6423.8	6423.8
25°	6744.7	6724.7	6724.7	6722.4	6715.7	6709.1	6695.7	6702.4
27.5°	7061.2	7050.1	7059.0	7056.8	7050.1	7050.1	7041.2	7041.2
30°	7451.3	7446.9	7460.2	7449.1	7426.8	7424.6	7415.7	7404.5
32.5°	7901.5	7897.0	7917.2	7903.9	7868.1	7848.1	7830.2	7821.4
35°	8403.0	8405.4	8429.8	8420.9	8380.7	8367.4	8336.2	8331.8
37.5°	8951.4	8987.0	9029.4	9038.3	9004.8	8996.0	8962.5	8944.7
40°	9595.5	9642.3	9707.0	9722.6	9686.9	9680.3	9633.4	9609.0
42.5°	10282.1	10362.2	10442.6	10455.9	10420.3	10384.5	10340.0	10322.2
45°	11048.9	11144.7	11249.5	11276.1	11222.7	11180.3	11122.4	11122.4
47.5°	11909.1	12029.6	12147.7	12221.2	12172.1	12127.6	12058.5	12013.9
50°	12925.6	13090.5	13244.3	13320.1	13242.0	13157.3	13037.1	12996.8
52.5°	14200.5	14378.8	14512.6	14472.4	14352.1	14234.0	14102.4	14048.9
55°	15827.7	15887.8	15887.8	15736.2	15495.4	15297.2	15089.8	15020.8
57.5°	17862.6	17630.8	17274.2	16821.7	16253.3	15758.5	15424.1	15265.9
60°	20254.3	19139.8	17880.5	16643.4	15627.1	14788.9	14291.8	14064.5
62.5°	21847.9	18932.6	16409.3	14423.5	12961.2	11951.6	11264.9	10997.5
65°	20419.3	15789.7	12410.6	10034.6	8441.0	7413.5	6733.5	6484.0
67.5°	14956.1	9894.2	6608.8	4736.5	3470.4	2768.3	2489.7	2373.7
70°	6713.6	3483.8	2135.4	1667.2	1437.7	1319.6	1268.3	1250.5
72.5°	2023.9	1464.4	1234.8	1114.5	1023.1	965.1	922.8	918.4
75°	1221.4	1016.4	902.7	831.4	773.4	726.7	704.4	697.6
77.5°	853.7	746.7	693.2	641.9	597.3	561.7	541.6	526.0
80°	599.7	548.3	523.8	494.8	465.9	432.4	403.3	390.0
82.5°	401.2	390.0	390.0	372.2	347.7	316.6	258.5	245.2
85°	258.5	256.3	260.8	254.1	236.2	202.7	167.1	158.2
87.5°	120.4	122.6	135.9	133.8	129.3	107.0	84.6	80.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)