

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: P192866

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31846.9 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 334
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

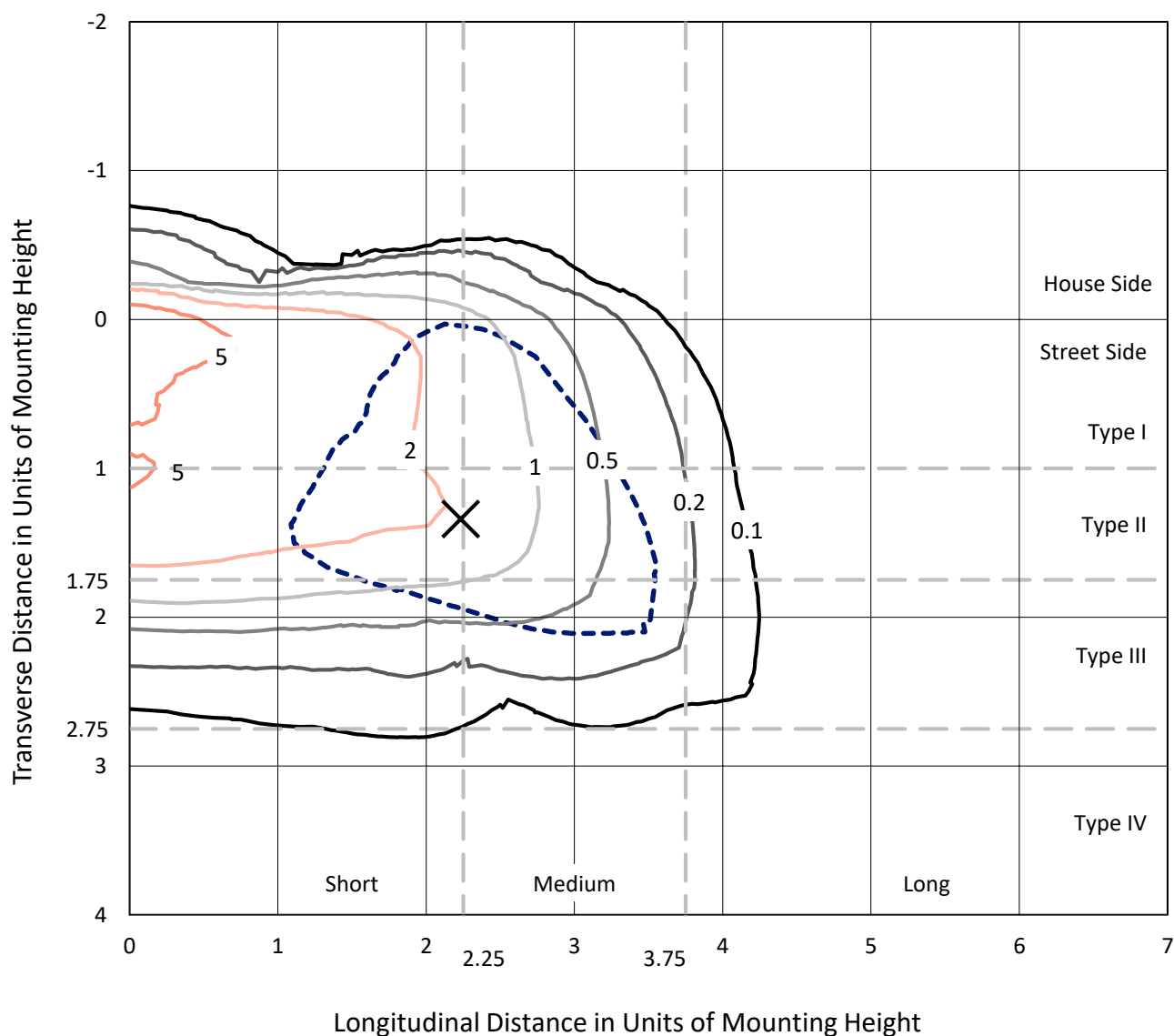


REPORT NUMBER: P192866

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7030-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

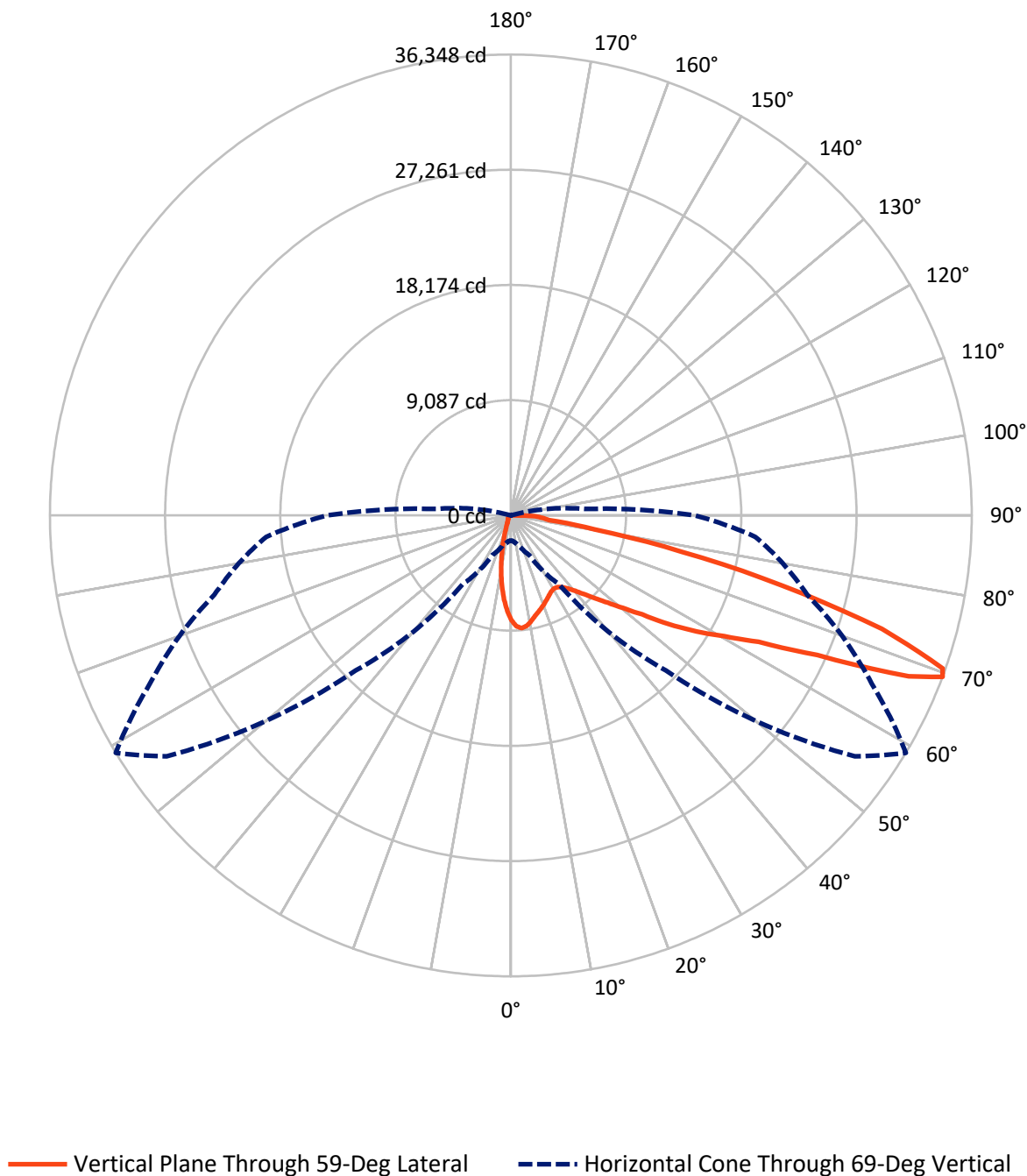


Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P192866

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7030-800-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P192866

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7030-800-HSS

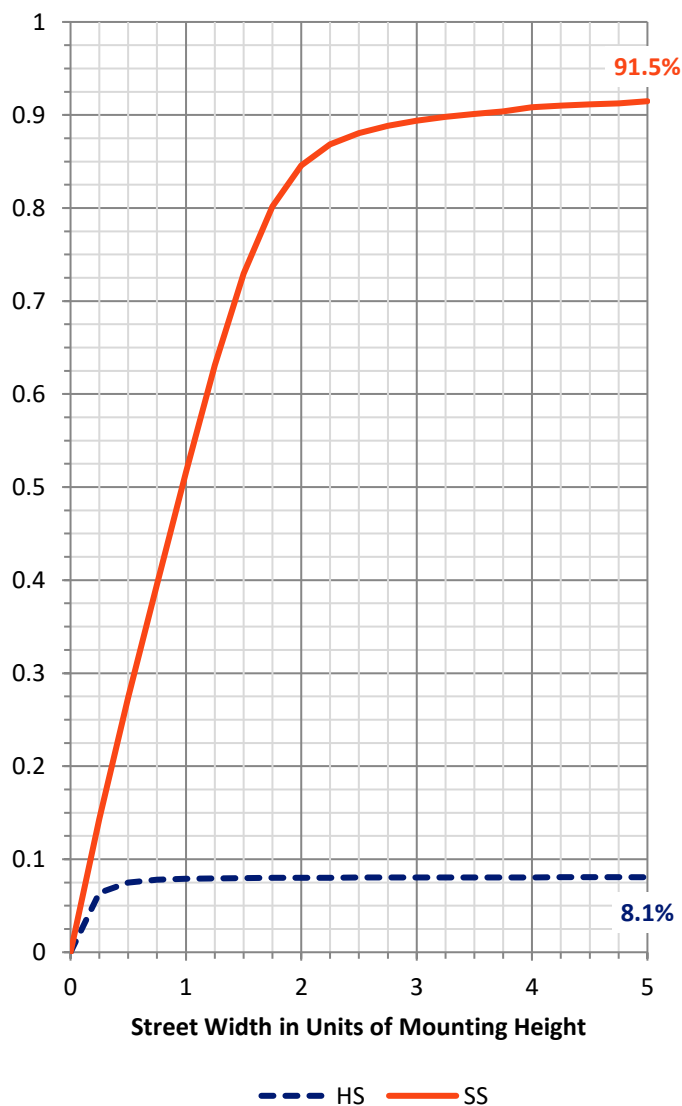
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2593.5	0.0	2593.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	29253.4	0.0	29253.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	31846.9	0.0	31846.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.8	2.1
10°-20°	1390.3	4.4
20°-30°	1870.8	5.9
30°-40°	2716.3	8.5
40°-50°	4522.8	14.2
50°-60°	7055.5	22.2
60°-70°	8730.7	27.4
70°-80°	4424.6	13.9
80°-90°	463.0	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°	31846.9	100.0
0°-180°	31846.9	100.0

Coefficient of Utilization



REPORT NUMBER: P192866

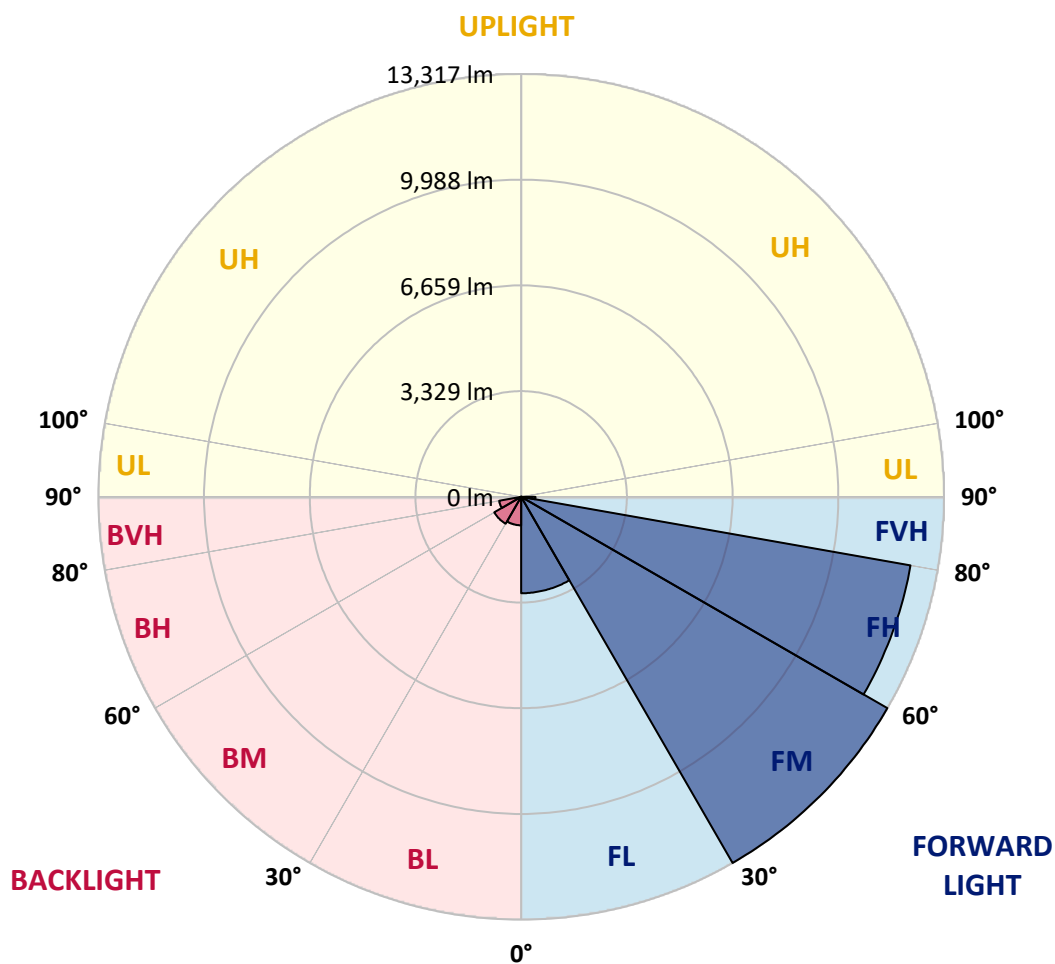
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7030-800-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3036.2	9.5			
FM	(30°-60°)	13317.4	41.8			
FH	(60°-80°)	12451.0	39.1			G5
FVH	(80°-90°)	448.7	1.4			G3/500
BL	(0°-30°)	897.7	2.8	B2/1000		
BM	(30°-60°)	977.2	3.1	B1/1000		
BH	(60°-80°)	704.3	2.2	B2/1000		G2/1000
BVH	(80°-90°)	14.2	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short



REPORT NUMBER: P192866

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8289.3	8289.3	8289.3	8289.3	8289.3	8289.3	8289.3	8289.3	8289.3	8289.3	8289.3
2.5°	9085.2	9081.6	9042.1	9024.0	8991.6	8923.2	8817.0	8761.2	8671.1	8514.5	8303.7
5°	9002.4	9045.7	9069.1	9070.9	9094.3	9069.1	8973.7	8926.8	8802.6	8550.4	8172.3
7.5°	8440.6	8456.7	8523.5	8581.0	8692.6	8798.9	8833.2	8813.4	8739.5	8469.3	7966.9
10°	7839.2	7855.3	7934.5	8010.2	8161.4	8325.3	8498.1	8534.2	8564.9	8354.2	7768.9
12.5°	7320.5	7336.6	7417.7	7516.7	7693.3	7895.0	8163.2	8222.7	8357.8	8244.2	7610.4
15°	6873.8	6881.0	6960.3	7082.7	7293.4	7552.8	7857.1	7952.6	8159.6	8166.8	7471.7
17.5°	6493.9	6511.9	6560.5	6677.6	6908.0	7228.6	7583.3	7720.3	7963.4	8102.0	7336.6
20°	6261.5	6279.5	6277.7	6342.6	6549.6	6891.8	7309.7	7473.6	7768.9	8035.4	7216.0
22.5°	6216.6	6216.6	6169.7	6160.7	6283.2	6569.5	7025.2	7225.0	7594.2	8006.5	7131.4
25°	6376.8	6369.6	6252.6	6157.1	6162.6	6333.5	6749.6	6987.2	7446.4	8026.4	7086.3
27.5°	6715.4	6706.4	6558.8	6376.8	6230.9	6229.1	6540.7	6796.4	7329.4	8120.0	7104.4
30°	7183.6	7180.0	7019.7	6791.0	6526.3	6283.2	6468.7	6701.0	7253.8	8289.3	7145.8
32.5°	7695.0	7689.6	7568.9	7327.7	6992.7	6526.3	6544.3	6738.8	7275.5	8514.5	7246.6
35°	8237.0	8228.1	8175.9	7965.1	7596.0	6974.7	6792.7	6944.1	7412.2	8851.2	7444.7
37.5°	8824.1	8833.2	8871.0	8669.2	8282.1	7603.2	7208.8	7311.4	7687.8	9308.6	7767.0
40°	9690.3	9688.6	9701.1	9436.4	9063.7	8372.1	7790.5	7822.9	8148.9	9915.5	8256.9
42.5°	11262.6	11152.6	10819.5	10279.2	9904.7	9251.0	8523.5	8489.2	8712.6	10666.4	8943.0
45°	13374.9	13140.8	12276.4	11240.9	10761.8	10241.4	9425.7	9315.8	9458.0	11568.7	9789.4
47.5°	15192.0	14948.9	13726.0	12242.2	11671.3	11181.5	10482.8	10284.7	10331.4	12578.9	10862.7
50°	15809.6	15690.8	14622.9	13113.8	12551.9	12364.7	11709.1	11467.9	11401.2	13747.6	12107.1
52.5°	15595.3	15586.4	14875.0	13679.3	13358.7	13589.2	13252.5	12973.3	12728.3	14979.5	13373.2
55°	15251.4	15296.4	14977.7	14174.5	14163.8	14707.5	15363.1	15130.8	14421.2	16317.5	14464.4
57.5°	14302.4	14495.0	14920.0	15110.9	15553.9	16110.4	17120.7	17257.5	16418.4	17342.1	15370.3
60°	11604.7	12028.0	13418.1	15245.9	17345.8	18732.4	19242.0	19359.1	18057.1	18194.0	16592.9
62.5°	8237.0	8669.2	10432.3	13524.3	17372.8	22177.5	22402.5	21943.3	19861.5	19456.4	18701.8
65°	4372.4	4705.6	6146.3	9762.5	15062.3	22977.0	27929.4	26560.7	23045.5	21939.7	21426.5
67.5°	2236.6	2337.5	2910.1	4777.7	10354.8	20409.0	32883.5	33847.0	28532.6	24403.3	21295.0
69°	1979.1	2038.6	2418.6	3454.0	6630.7	17286.4	33124.7	36348.4	31405.1	24197.9	19351.9
70°	1916.1	1968.3	2314.1	3126.2	5182.8	14496.8	32201.0	36128.6	32139.7	23416.5	17900.4
72.5°	1626.3	1671.2	2060.2	2762.5	4212.2	7196.2	26157.3	30614.5	28840.6	19506.8	12957.0
75°	1087.6	1235.4	1977.4	2589.7	3918.7	4087.9	17244.9	22123.5	20551.2	13157.0	6749.6
77.5°	261.1	280.9	558.4	2060.2	3583.7	3598.1	8869.2	13753.1	11217.5	4689.4	1595.5
80°	140.5	135.1	156.7	408.7	3337.0	3376.5	3992.5	6675.7	4005.1	777.9	525.9
82.5°	99.1	93.6	100.8	171.1	1049.9	3075.8	2888.6	3021.8	1660.4	299.0	235.9
85°	36.0	34.2	55.8	154.8	329.5	1768.5	2967.8	2492.4	1345.2	136.9	172.8
87.5°	12.6	10.8	21.7	84.6	100.8	752.8	1831.5	1883.7	529.5	82.8	81.1
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: P192866

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7030-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8289.3	8289.3	8289.3	8289.3	8289.3	8289.3	8289.3	8289.3	8289.3	8289.3	8289.3
2.5°	8215.4	8103.9	7898.6	7687.8	7493.3	7259.1	7142.2	7026.9	6978.3	6960.3	6875.6
5°	7977.8	7788.6	7352.8	6915.2	6511.9	6083.2	5800.6	5573.7	5440.3	5375.5	5272.9
7.5°	7673.4	7363.6	6702.7	6027.4	5398.9	4779.4	4320.2	3967.3	3724.1	3607.0	3500.8
10°	7378.1	6965.8	6025.6	5105.3	4251.9	3430.6	2796.7	2337.5	2043.9	1908.9	1822.5
12.5°	7113.4	6578.5	5371.9	4206.8	3135.3	2173.6	1529.0	1163.4	981.4	918.5	887.8
15°	6877.5	6221.9	4754.2	3353.1	2123.2	1242.6	835.7	711.4	682.6	682.6	678.9
17.5°	6654.1	5872.5	4158.2	2551.8	1332.6	760.0	635.7	619.5	619.5	626.7	626.7
20°	6439.8	5539.5	3581.8	1831.5	839.2	603.3	574.4	570.9	574.4	583.5	583.5
22.5°	6256.1	5236.9	3043.4	1257.0	623.1	543.9	529.5	524.0	525.9	531.2	534.9
25°	6119.3	4981.1	2535.6	851.7	536.7	495.3	479.0	470.1	462.8	462.8	466.4
27.5°	6032.9	4765.1	2043.9	619.5	482.6	450.2	425.0	410.6	394.4	385.3	389.0
30°	5969.8	4559.7	1582.9	506.1	432.2	399.8	367.3	343.9	320.5	309.8	313.3
32.5°	5946.4	4394.1	1183.2	446.7	387.3	351.2	311.5	280.9	255.6	246.7	248.6
35°	6009.5	4262.6	866.2	403.3	351.2	306.2	261.1	226.9	207.0	201.7	203.5
37.5°	6175.2	4192.4	648.4	367.3	318.7	268.3	217.9	185.5	172.8	172.8	174.7
40°	6488.5	4190.5	520.4	342.2	290.0	232.2	180.1	156.7	149.4	153.1	154.8
42.5°	6945.8	4286.0	453.9	318.7	264.7	198.1	149.4	133.3	131.4	135.1	136.9
45°	7570.8	4460.7	417.8	299.0	237.7	165.6	126.0	115.3	115.3	120.6	122.5
47.5°	8336.2	4716.4	387.3	279.1	210.7	138.6	108.0	100.8	102.6	108.0	109.8
50°	9258.2	5038.8	356.6	257.6	190.8	115.3	93.6	88.3	90.0	97.2	99.1
52.5°	10308.1	5472.8	331.4	237.7	165.6	95.5	79.2	75.6	79.2	86.5	88.3
55°	11208.5	5861.8	300.8	221.5	133.3	79.2	64.8	64.8	68.4	77.5	79.2
57.5°	12074.7	6268.7	273.7	190.8	104.5	63.1	54.0	55.8	61.1	70.3	72.0
60°	13346.1	6958.5	241.4	160.3	79.2	50.5	45.1	46.9	54.0	63.1	64.8
62.5°	15505.3	8008.3	208.9	133.3	61.1	39.7	36.0	39.7	48.6	59.4	61.1
65°	17453.8	8435.2	171.1	111.7	46.9	30.6	30.6	36.0	46.9	57.6	59.4
67.5°	16367.9	7100.8	133.3	88.3	36.0	23.4	25.2	34.2	45.1	57.6	59.4
69°	14475.2	5805.9	113.4	70.3	30.6	21.7	23.4	34.2	45.1	55.8	57.6
70°	13000.3	4901.9	100.8	59.4	27.0	21.7	23.4	32.4	45.1	55.8	57.6
72.5°	8707.1	2647.3	81.1	43.2	25.2	19.7	19.7	32.4	43.2	54.0	55.8
75°	3742.1	731.2	64.8	30.6	21.7	18.0	18.0	30.6	41.4	52.2	55.8
77.5°	684.3	185.5	52.2	27.0	21.7	18.0	16.2	28.9	39.7	50.5	52.2
80°	271.9	91.9	41.4	23.4	19.7	16.2	14.4	27.0	37.8	48.6	50.5
82.5°	163.9	52.2	34.2	21.7	19.7	14.4	12.6	23.4	36.0	46.9	48.6
85°	133.3	36.0	27.0	21.7	18.0	14.4	10.8	21.7	32.4	45.1	46.9
87.5°	64.8	25.2	25.2	19.7	18.0	14.4	10.8	19.7	30.6	43.2	45.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)