

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: P193587

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL2-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29059 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 374
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

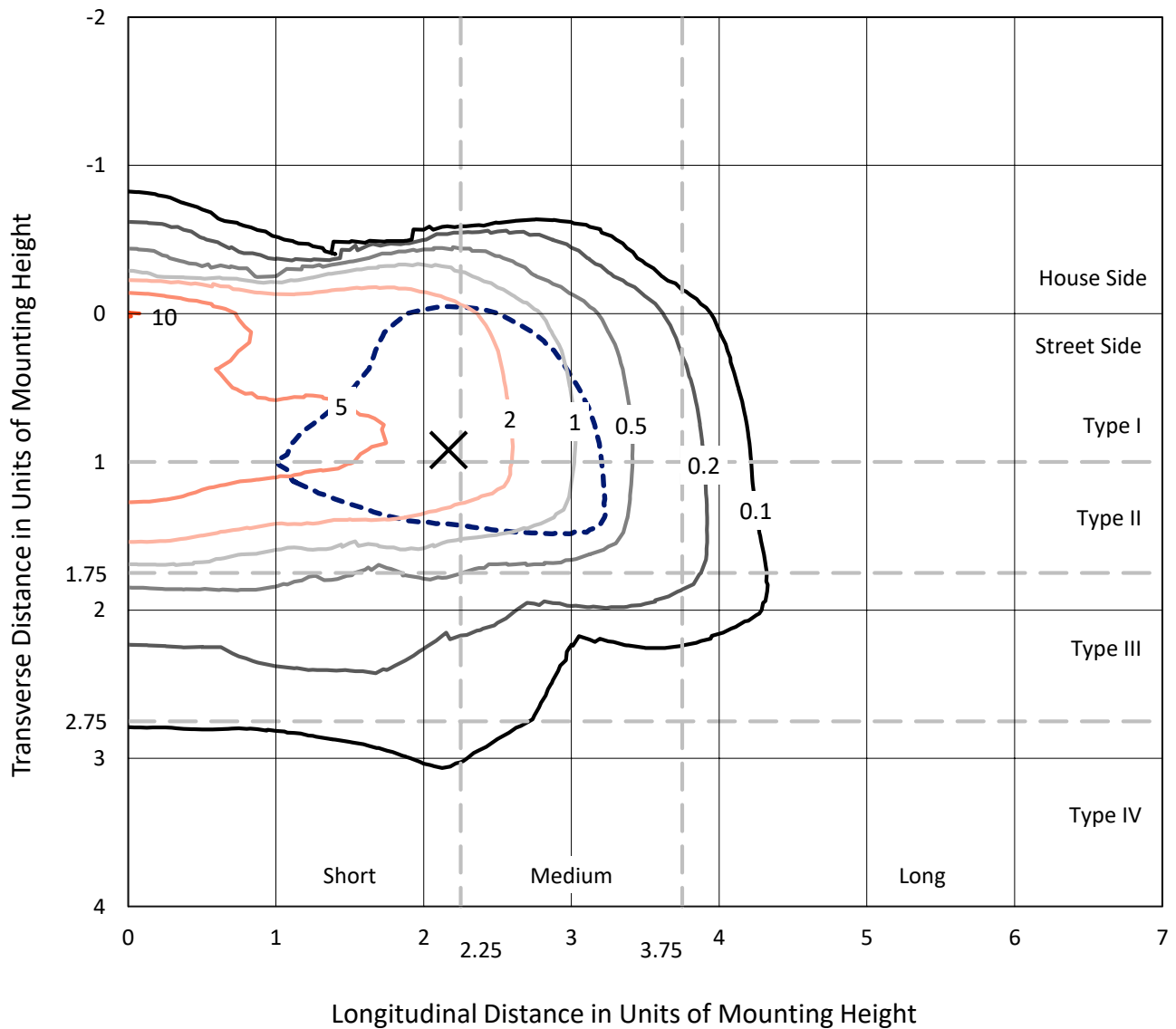


REPORT NUMBER: P193587

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-8030-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

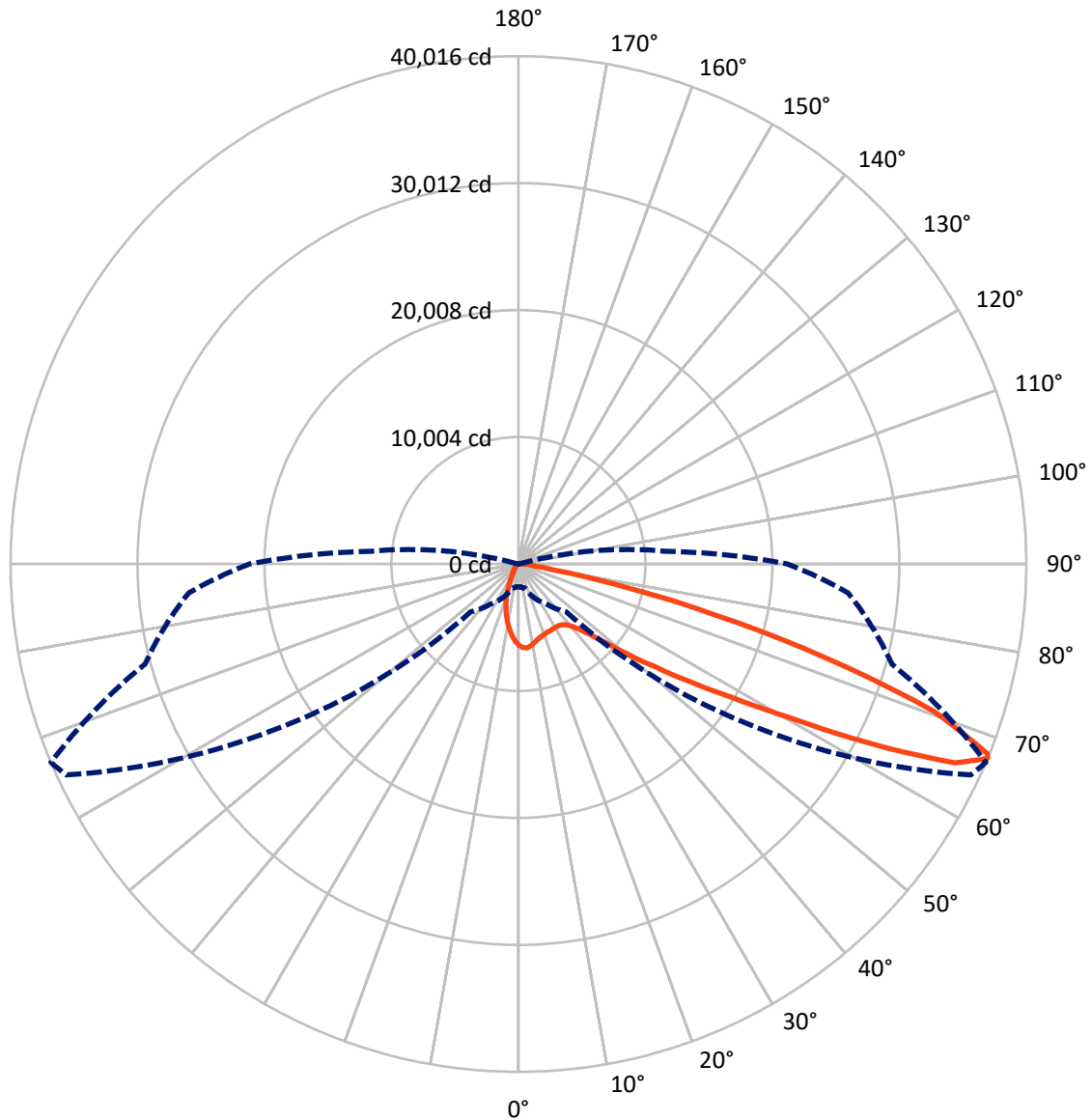


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P193587

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-8030-800-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P193587

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-8030-800-HSS

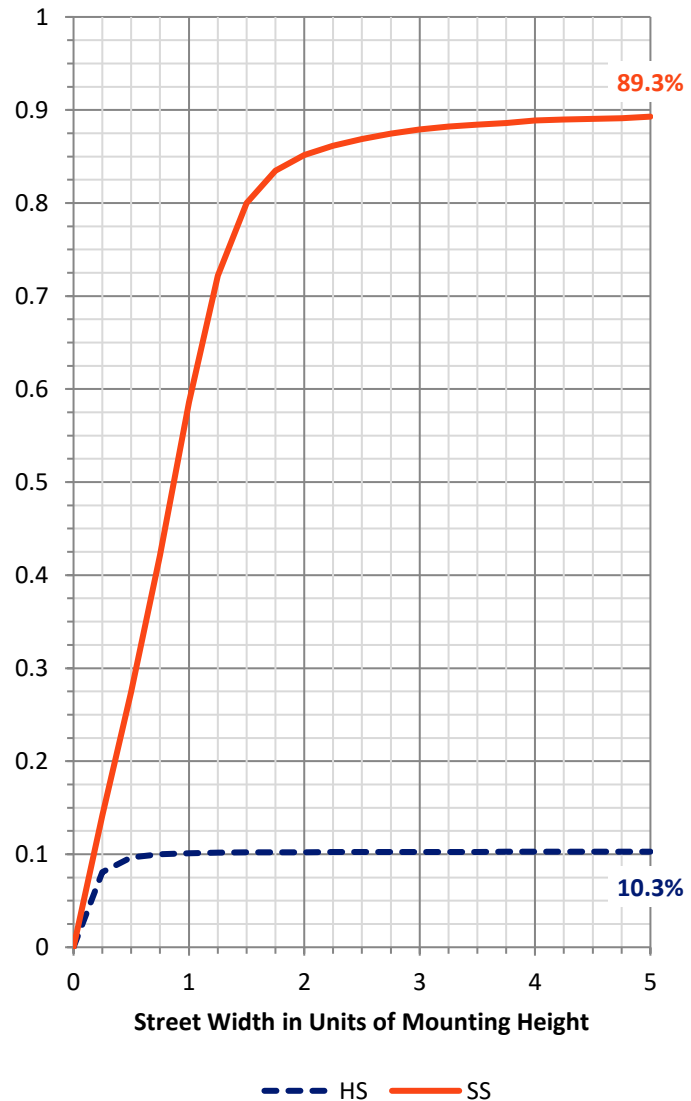
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3017.2	0.0	3017.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	26041.8	0.0	26041.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	29059.0	0.0	29059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.5	1.8
10°-20°	1109.9	3.8
20°-30°	1613.6	5.6
30°-40°	2517.3	8.7
40°-50°	4459.3	15.3
50°-60°	7056.5	24.3
60°-70°	8082.2	27.8
70°-80°	3352.4	11.5
80°-90°	346.3	1.2
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°	29059.0	100.0
0°-180°	29059.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193587

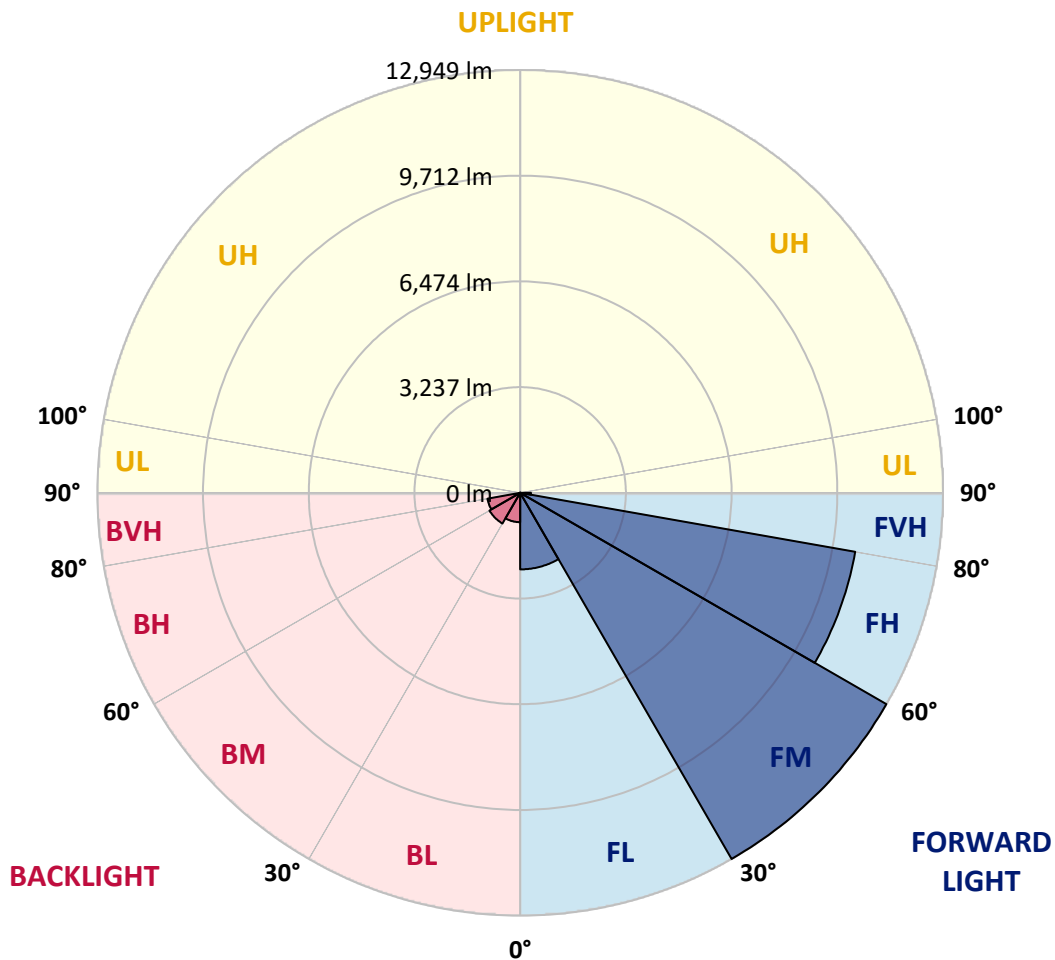
CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-8030-800-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2344.6	8.1			
FM (30°-60°)	12948.8	44.6			
FH (60°-80°)	10417.7	35.9			G4/12000
FVH (80°-90°)	330.7	1.1			G3/500
BL (0°-30°)	900.3	3.1	B2/1000		
BM (30°-60°)	1084.4	3.7	B2/2500		
BH (60°-80°)	1016.9	3.5	B3/2500		G3/2500
BVH (80°-90°)	15.6	0.1			G1/100
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: P193587

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-8030-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6408.6	6408.6	6408.6	6408.6	6408.6	6408.6	6408.6	6408.6	6408.6	6408.6	6408.6
2.5°	6625.5	6639.1	6637.4	6647.6	6671.3	6673.0	6649.3	6603.5	6593.3	6534.0	6430.6
5°	6110.3	6149.3	6173.0	6269.6	6378.1	6508.6	6606.9	6642.5	6637.4	6595.0	6439.1
7.5°	5522.1	5561.1	5588.2	5701.8	5845.9	6069.6	6325.5	6535.7	6554.3	6600.1	6432.3
10°	5130.6	5137.4	5174.7	5283.1	5434.0	5662.8	5967.9	6335.7	6391.6	6559.4	6415.4
12.5°	4808.6	4813.6	4862.8	4979.7	5140.8	5371.3	5691.6	6117.1	6203.5	6508.6	6412.0
15°	4579.7	4598.4	4642.5	4764.5	4935.7	5164.5	5493.3	5956.0	6059.4	6489.9	6442.5
17.5°	4503.5	4523.8	4537.4	4625.5	4781.4	5005.2	5342.5	5850.9	5967.9	6500.1	6501.8
20°	4583.1	4598.4	4567.9	4589.9	4686.5	4886.5	5215.3	5761.1	5900.1	6512.0	6578.1
22.5°	4879.7	4886.5	4803.5	4706.9	4689.9	4800.1	5115.3	5689.9	5839.1	6544.2	6667.9
25°	5388.2	5376.4	5240.8	5032.3	4835.7	4784.8	5056.0	5645.9	5808.6	6578.1	6761.1
27.5°	6001.8	6018.7	5832.3	5528.9	5154.3	4886.5	5047.5	5627.2	5795.0	6601.8	6842.5
30°	6747.6	6771.3	6557.7	6176.4	5639.1	5137.4	5125.5	5623.8	5786.5	6586.6	6849.3
32.5°	7508.6	7537.4	7369.6	6976.4	6286.5	5557.7	5301.8	5661.1	5803.5	6534.0	6810.3
35°	8305.2	8345.9	8234.0	7896.7	7164.5	6164.5	5612.0	5774.7	5883.2	6528.9	6771.3
37.5°	9405.2	9442.5	9232.4	8874.7	8227.3	6978.1	6110.3	5988.2	6071.3	6610.3	6781.5
40°	11047.6	11042.6	10500.2	9952.7	9395.1	8012.0	6810.3	6374.7	6417.1	6856.0	6906.9
42.5°	12837.5	12829.0	12027.3	11195.1	10691.7	9284.9	7730.6	7042.5	7013.7	7308.6	7232.3
45°	14217.2	14215.5	13561.2	12623.9	12252.7	10745.9	8920.5	7971.3	7927.3	8044.2	7832.3
47.5°	14805.3	14815.5	14486.7	13827.4	13983.3	12722.2	10420.5	9317.1	9251.0	9203.5	8881.5
50°	14347.7	14368.0	14395.2	14266.3	15252.8	15378.2	12432.4	11213.7	11181.5	10969.7	10466.3
52.5°	12852.8	12956.2	13274.8	13683.3	15693.5	17927.4	15586.7	13569.7	13396.8	13171.4	12617.2
55°	10334.1	10447.6	11052.7	12044.3	15037.5	19602.0	20007.1	16607.1	16318.9	15646.0	14846.0
57.5°	6839.1	7015.4	7893.4	9154.4	13132.4	19871.5	24417.4	20822.4	19819.0	17976.6	17074.9
60°	3767.9	3937.4	4889.9	6032.3	9484.9	18539.3	27383.5	26310.6	24537.7	20581.7	19781.7
62.5°	2320.4	2411.9	3115.3	4178.0	5688.2	14632.5	27997.1	33207.3	31154.8	23936.0	23051.2
65°	1847.5	1886.5	2230.5	3415.3	4078.0	8703.5	26015.7	38465.1	37780.3	27997.1	25978.4
67°	1793.3	1808.5	1971.2	2932.3	3844.1	5335.7	21795.3	39321.0	40015.9	30454.8	26069.9
67.5°	1805.1	1822.1	1976.3	2798.4	3837.4	4903.5	20341.0	38983.7	39861.7	30649.7	25664.8
70°	1740.7	1793.3	2262.8	2796.7	3649.2	4074.6	12181.6	33776.8	34690.4	28478.4	21776.6
72.5°	617.0	620.3	978.0	2262.8	3967.9	4118.7	6117.1	24761.4	25437.7	21785.1	15700.3
75°	366.1	311.9	325.4	644.1	3791.6	4000.1	3528.9	15822.3	16074.8	12483.3	7951.0
77.5°	252.5	220.3	227.1	284.8	1444.1	3944.1	2803.4	8251.0	7981.5	4378.0	1693.2
80°	144.1	127.1	135.6	249.2	525.4	3679.7	2644.1	3345.8	2852.6	742.4	467.8
82.5°	76.3	64.4	78.0	205.1	366.1	2293.3	2649.2	1617.0	1281.4	250.9	318.6
85°	27.1	22.0	37.3	140.7	244.1	703.4	2456.0	1359.3	1067.8	122.0	242.4
87.5°	5.1	5.1	15.3	57.6	98.3	215.3	1452.6	806.8	540.7	72.9	166.1
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: P193587

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-8030-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6408.6	6408.6	6408.6	6408.6	6408.6	6408.6	6408.6	6408.6	6408.6	6408.6	6408.6
2.5°	6388.2	6315.4	6217.1	6096.7	5954.3	5828.9	5735.7	5639.1	5618.7	5584.8	5579.8
5°	6345.9	6220.4	5976.4	5696.7	5398.4	5128.9	4910.3	4715.3	4628.9	4554.3	4545.8
7.5°	6283.2	6095.0	5679.8	5228.9	4762.8	4339.1	3979.7	3725.5	3491.6	3379.7	3362.8
10°	6210.3	5940.8	5345.9	4720.4	4076.3	3478.0	2944.1	2496.7	2225.5	2064.4	2044.1
12.5°	6142.5	5789.9	5005.2	4193.3	3337.3	2537.3	1850.9	1423.8	1139.0	1023.7	1010.2
15°	6110.3	5667.9	4686.5	3654.3	2564.5	1615.3	1011.9	783.1	689.8	662.7	661.0
17.5°	6106.9	5564.5	4374.7	3096.7	1796.6	939.0	659.3	601.7	583.1	576.3	576.3
20°	6105.2	5466.2	4062.8	2518.7	1140.7	625.4	549.2	535.6	522.0	513.6	513.6
22.5°	6123.8	5378.1	3737.4	1928.8	718.7	506.8	483.1	469.5	452.6	440.7	439.0
25°	6142.5	5310.3	3405.1	1372.9	520.3	440.7	417.0	398.3	374.6	359.3	357.6
27.5°	6145.9	5225.5	3049.2	918.7	435.6	384.8	354.2	325.4	298.3	283.1	281.4
30°	6095.0	5083.1	2654.3	620.3	384.8	333.9	293.2	262.7	237.3	225.4	225.4
32.5°	5995.0	4906.9	2220.4	467.8	342.4	286.4	242.4	213.6	196.6	191.5	189.8
35°	5905.2	4717.0	1774.6	396.6	306.8	242.4	198.3	179.7	169.5	167.8	166.1
37.5°	5852.6	4564.5	1356.0	359.3	272.9	203.4	167.8	154.2	149.2	145.8	147.5
40°	5893.3	4437.4	1001.7	328.8	239.0	169.5	142.4	135.6	130.5	128.8	128.8
42.5°	6071.3	4415.3	744.1	301.7	206.8	140.7	123.7	118.6	115.3	113.6	115.3
45°	6539.1	4550.9	578.0	276.3	174.6	118.6	105.1	103.4	101.7	101.7	101.7
47.5°	7242.5	4830.6	481.4	247.5	145.8	101.7	91.5	89.8	88.1	89.8	89.8
50°	8434.0	5342.5	430.5	218.6	120.3	86.4	78.0	78.0	78.0	78.0	79.7
52.5°	10245.9	6349.3	396.6	189.8	98.3	72.9	66.1	66.1	67.8	67.8	69.5
55°	12264.6	7684.9	366.1	161.0	83.1	61.0	54.2	55.9	57.6	59.3	59.3
57.5°	14454.5	9164.6	340.7	132.2	71.2	49.2	45.8	47.5	49.2	52.5	52.5
60°	17096.9	10766.3	303.4	103.4	59.3	39.0	35.6	39.0	44.1	47.5	49.2
62.5°	19998.6	12315.5	255.9	81.4	49.2	30.5	28.8	35.6	42.4	45.8	47.5
65°	21981.7	12801.9	196.6	66.1	37.3	22.0	23.7	32.2	40.7	45.8	45.8
67°	21178.3	11607.0	161.0	55.9	30.5	16.9	22.0	32.2	40.7	44.1	45.8
67.5°	20620.7	11139.2	154.2	54.2	28.8	16.9	22.0	32.2	40.7	45.8	45.8
70°	16778.2	8367.9	128.8	40.7	23.7	15.3	18.6	30.5	39.0	44.1	44.1
72.5°	11657.8	5159.4	115.3	28.8	20.3	13.6	16.9	28.8	37.3	42.4	44.1
75°	5542.5	1867.8	98.3	22.0	18.6	11.9	15.3	28.8	37.3	42.4	42.4
77.5°	1130.5	433.9	79.7	18.6	15.3	11.9	13.6	27.1	35.6	40.7	40.7
80°	371.2	167.8	59.3	16.9	15.3	11.9	13.6	25.4	35.6	39.0	40.7
82.5°	267.8	84.7	39.0	16.9	15.3	11.9	11.9	25.4	33.9	39.0	39.0
85°	205.1	59.3	25.4	16.9	15.3	11.9	11.9	23.7	32.2	37.3	37.3
87.5°	135.6	23.7	20.3	16.9	15.3	11.9	11.9	23.7	30.5	35.6	37.3
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)