

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: P191118

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191118
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-10-LED-E1-SL3-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA 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: 33924.1 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

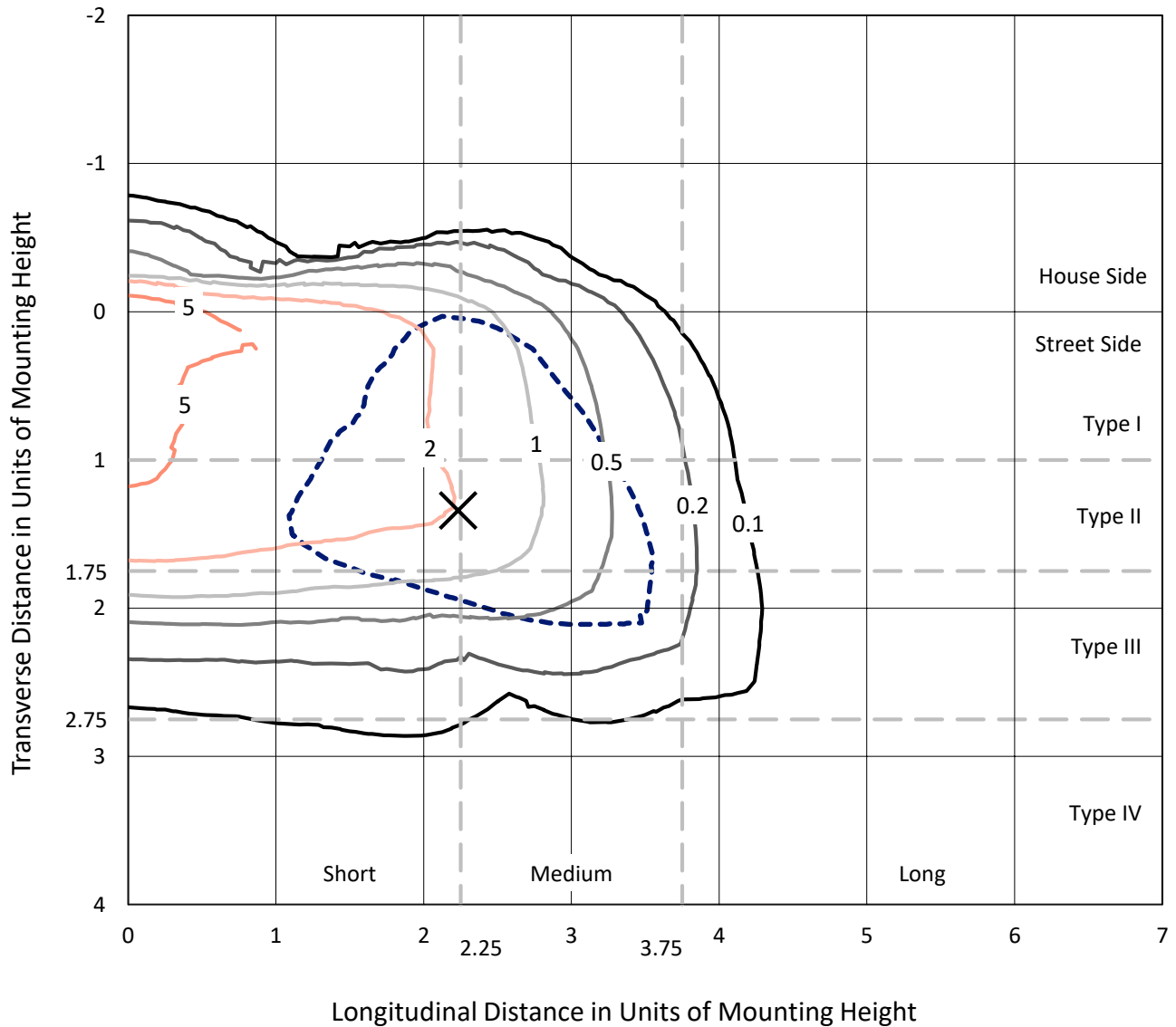
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191118
 CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

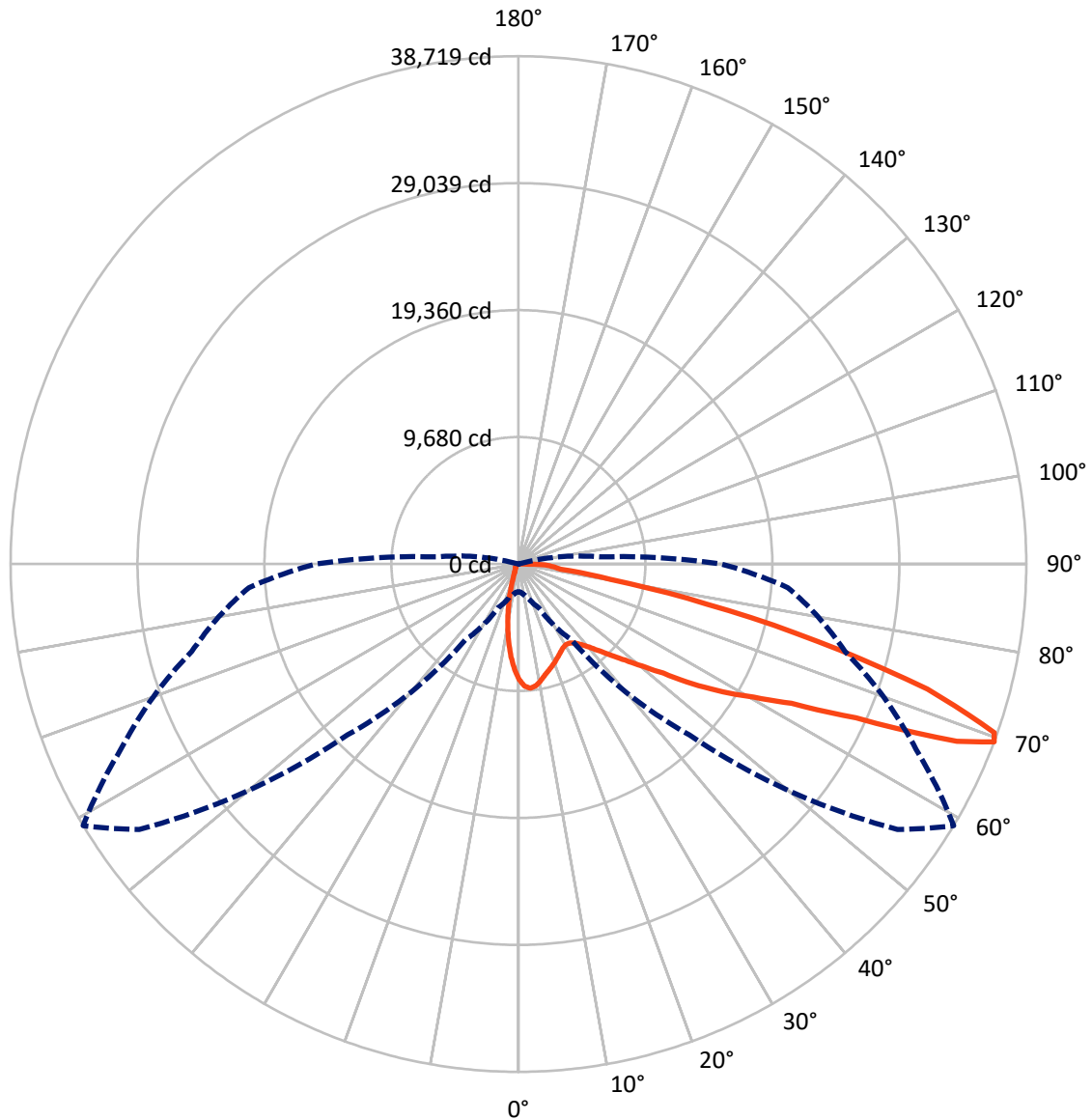
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P191118
CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-600-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P191118

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-600-HSS

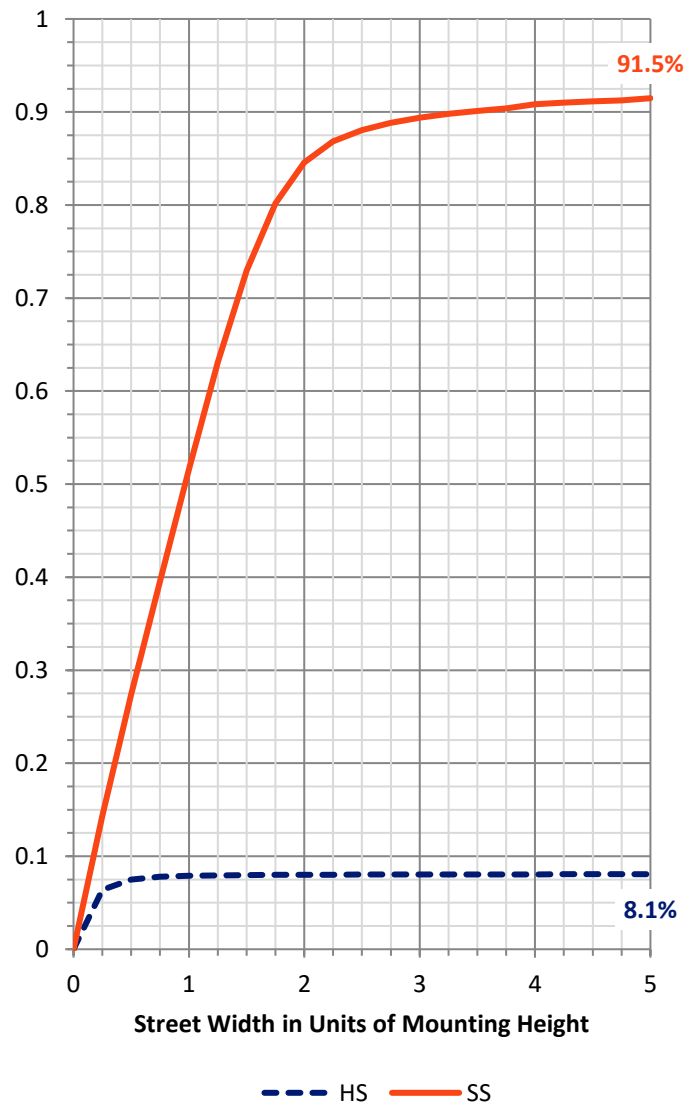
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2762.7	0.0	2762.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	31161.4	0.0	31161.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	33924.1	0.0	33924.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.7	2.1
10°-20°	1481.0	4.4
20°-30°	1992.8	5.9
30°-40°	2893.5	8.5
40°-50°	4817.8	14.2
50°-60°	7515.7	22.2
60°-70°	9300.2	27.4
70°-80°	4713.2	13.9
80°-90°	493.2	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°	33924.1	100.0
0°-180°	33924.1	100.0



REPORT NUMBER: P191118

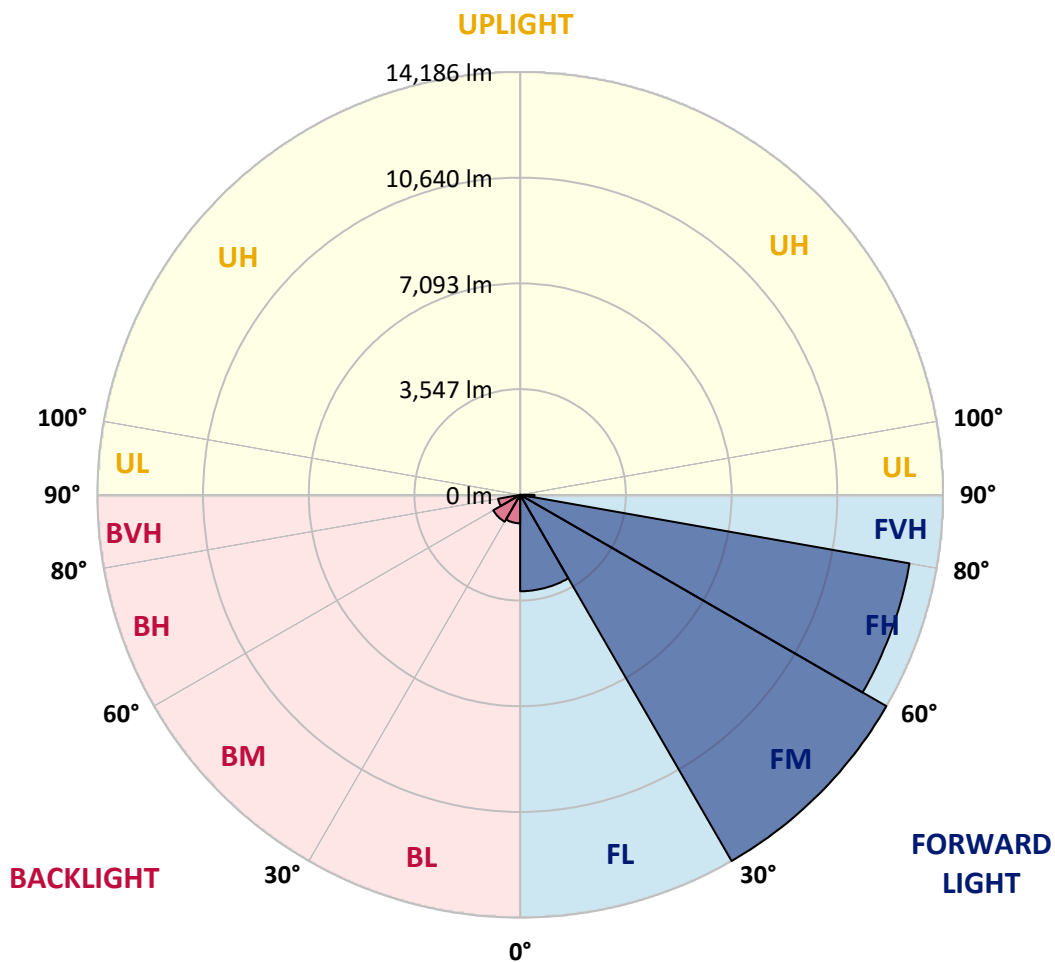
CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3234.3	9.5			
FM	(30°-60°)	14186.1	41.8			
FH	(60°-80°)	13263.1	39.1			G5
FVH	(80°-90°)	478.0	1.4			G3/500
BL	(0°-30°)	956.2	2.8	B2/1000		
BM	(30°-60°)	1041.0	3.1	B2/2500		
BH	(60°-80°)	750.3	2.2	B2/1000		G2/1000
BVH	(80°-90°)	15.2	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: P191118

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8830.0	8830.0	8830.0	8830.0	8830.0	8830.0	8830.0	8830.0	8830.0	8830.0	8830.0
2.5°	9677.8	9674.0	9631.8	9612.7	9578.1	9505.3	9392.0	9332.6	9236.6	9069.8	8845.4
5°	9589.7	9635.7	9660.6	9662.5	9687.4	9660.6	9559.0	9509.0	9376.7	9108.1	8705.3
7.5°	8991.1	9008.4	9079.4	9140.8	9259.6	9372.9	9409.3	9388.2	9309.6	9021.8	8486.6
10°	8350.4	8367.6	8452.0	8532.6	8693.8	8868.4	9052.5	9090.9	9123.5	8899.1	8275.6
12.5°	7798.0	7815.2	7901.5	8007.0	8195.1	8409.9	8695.7	8759.0	8902.8	8782.0	8106.8
15°	7322.2	7329.9	7414.2	7544.7	7769.1	8045.4	8369.6	8471.3	8691.9	8699.6	7959.1
17.5°	6917.4	6936.6	6988.4	7113.1	7358.6	7700.1	8078.0	8223.8	8482.7	8630.4	7815.2
20°	6669.9	6689.2	6687.2	6756.3	6976.9	7341.4	7786.4	7961.0	8275.6	8559.5	7686.7
22.5°	6622.0	6622.0	6572.2	6562.5	6693.0	6998.0	7483.3	7696.3	8089.5	8528.9	7596.5
25°	6792.7	6785.0	6660.3	6558.8	6564.5	6746.7	7189.8	7443.0	7932.2	8549.9	7548.6
27.5°	7153.4	7143.8	6986.4	6792.7	6637.3	6635.5	6967.3	7239.7	7807.6	8649.7	7567.7
30°	7652.2	7648.3	7477.6	7233.9	6952.0	6693.0	6890.6	7138.0	7727.0	8830.0	7611.9
32.5°	8196.9	8191.2	8062.7	7805.6	7448.8	6952.0	6971.1	7178.4	7750.0	9069.8	7719.3
35°	8774.4	8764.7	8709.1	8484.7	8091.4	7429.6	7235.8	7397.0	7895.7	9428.5	7930.3
37.5°	9399.7	9409.3	9449.6	9234.8	8822.3	8099.1	7679.0	7788.3	8189.2	9915.8	8273.6
40°	10322.4	10320.6	10334.0	10051.9	9654.8	8918.2	8298.6	8333.2	8680.4	10562.2	8795.4
42.5°	11997.1	11880.1	11525.2	10949.7	10550.7	9854.4	9079.4	9042.9	9280.8	11362.1	9526.3
45°	14247.2	13997.9	13077.1	11974.0	11463.8	10909.5	10040.5	9923.4	10074.9	12323.2	10428.0
47.5°	16182.9	15923.9	14621.3	13040.7	12432.5	11910.8	11166.4	10955.5	11005.3	13399.4	11571.2
50°	16840.8	16714.2	15576.7	13969.1	13370.6	13171.1	12472.8	12215.8	12144.8	14644.4	12896.8
52.5°	16612.5	16603.0	15845.2	14571.5	14230.1	14475.6	14116.8	13819.5	13558.6	15956.5	14245.4
55°	16246.2	16294.1	15954.6	15099.1	15087.5	15666.8	16365.1	16117.6	15361.9	17381.8	15407.9
57.5°	15235.2	15440.5	15893.2	16096.5	16568.4	17161.2	18237.4	18383.1	17489.2	18473.4	16372.7
60°	12361.5	12812.4	14293.3	16240.4	18477.2	19954.3	20497.2	20621.9	19234.9	19380.7	17675.3
62.5°	8774.4	9234.8	11112.7	14406.5	18505.9	23624.0	23863.8	23374.6	21157.1	20725.4	19921.7
65°	4657.7	5012.6	6547.2	10399.1	16044.8	24475.7	29751.1	28293.2	24548.6	23370.7	22824.1
67.5°	2382.6	2490.0	3100.0	5089.3	11030.3	21740.2	35028.3	36054.6	30393.7	25995.0	22684.0
69°	2108.2	2171.5	2576.3	3679.3	7063.2	18413.8	35285.4	38719.2	33453.4	25776.3	20614.2
70°	2041.1	2096.7	2465.0	3330.2	5520.9	15442.4	34301.3	38485.1	34236.1	24943.7	19068.0
72.5°	1732.3	1780.2	2194.5	2942.7	4487.0	7665.6	27863.4	32611.3	30721.8	20779.1	13802.3
75°	1158.7	1315.9	2106.3	2758.5	4174.3	4354.6	18369.7	23566.4	21891.8	14015.1	7189.8
77.5°	278.1	299.2	594.6	2194.5	3817.4	3832.8	9447.7	14650.1	11949.2	4995.3	1699.6
80°	149.7	143.8	166.8	435.5	3554.7	3596.8	4252.9	7111.1	4266.3	828.7	560.2
82.5°	105.5	99.7	107.4	182.3	1118.4	3276.5	3076.9	3218.9	1768.7	318.4	251.3
85°	38.4	36.4	59.4	165.0	351.1	1883.8	3161.3	2655.0	1432.9	145.8	184.1
87.5°	13.4	11.6	23.0	90.1	107.4	801.9	1951.0	2006.5	564.0	88.3	86.3
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: P191118

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8830.0	8830.0	8830.0	8830.0	8830.0	8830.0	8830.0	8830.0	8830.0	8830.0	8830.0
2.5°	8751.3	8632.4	8413.7	8189.2	7982.1	7732.7	7608.0	7485.2	7433.5	7414.2	7324.1
5°	8498.1	8296.6	7832.4	7366.3	6936.6	6480.1	6178.8	5937.2	5795.2	5726.2	5616.8
7.5°	8173.9	7844.0	7140.0	6420.6	5751.1	5091.2	4602.1	4226.0	3967.1	3842.4	3729.2
10°	7859.3	7420.0	6418.7	5438.4	4529.1	3654.4	2979.1	2490.0	2177.2	2033.4	1941.4
12.5°	7577.3	7007.6	5722.3	4481.1	3339.7	2315.4	1628.6	1239.2	1045.5	978.4	945.7
15°	7326.1	6627.8	5064.3	3571.9	2261.6	1323.6	890.1	757.7	727.0	727.0	723.2
17.5°	7088.1	6255.7	4429.4	2718.3	1419.5	809.6	677.2	659.9	659.9	667.6	667.6
20°	6859.9	5900.7	3815.5	1951.0	894.0	642.6	611.9	608.1	611.9	621.5	621.5
22.5°	6664.2	5578.5	3241.9	1338.9	663.7	579.3	564.0	558.2	560.2	565.9	569.8
25°	6518.4	5306.0	2701.0	907.4	571.6	527.5	510.2	500.6	493.0	493.0	496.8
27.5°	6426.4	5075.9	2177.2	659.9	514.1	479.6	452.8	437.4	420.1	410.5	414.4
30°	6359.2	4857.2	1686.2	539.1	460.4	425.9	391.4	366.4	341.5	329.9	333.8
32.5°	6334.2	4680.7	1260.4	475.8	412.5	374.1	331.8	299.2	272.4	262.8	264.7
35°	6401.4	4540.7	922.7	429.7	374.1	326.1	278.1	241.7	220.7	214.8	216.8
37.5°	6577.9	4465.8	690.6	391.4	339.5	285.8	232.1	197.6	184.1	184.1	186.1
40°	6911.7	4464.0	554.4	364.5	308.8	247.5	191.8	166.8	159.2	163.1	165.0
42.5°	7398.9	4565.5	483.4	339.5	282.0	211.0	159.2	142.0	140.0	143.8	145.8
45°	8064.5	4751.6	445.1	318.4	253.2	176.5	134.3	122.8	122.8	128.5	130.4
47.5°	8879.8	5024.0	412.5	297.4	224.4	147.7	115.1	107.4	109.4	115.1	117.0
50°	9862.1	5367.4	379.8	274.4	203.4	122.8	99.7	94.0	96.0	103.6	105.5
52.5°	10980.4	5829.7	352.9	253.2	176.5	101.7	84.4	80.6	84.4	92.1	94.0
55°	11939.6	6244.1	320.4	236.0	142.0	84.4	69.0	69.0	72.9	82.4	84.4
57.5°	12862.3	6677.6	291.5	203.4	111.3	67.1	57.6	59.4	65.3	74.8	76.7
60°	14216.6	7412.3	257.1	170.7	84.4	53.7	48.0	49.9	57.6	67.1	69.0
62.5°	16516.7	8530.7	222.5	142.0	65.3	42.2	38.4	42.2	51.8	63.3	65.3
65°	18592.2	8985.4	182.3	119.0	49.9	32.6	32.6	38.4	49.9	61.4	63.3
67.5°	17435.5	7563.9	142.0	94.0	38.4	25.0	26.9	36.4	48.0	61.4	63.3
69°	15419.3	6184.7	120.8	74.8	32.6	23.0	25.0	36.4	48.0	59.4	61.4
70°	13848.3	5221.7	107.4	63.3	28.7	23.0	25.0	34.6	48.0	59.4	61.4
72.5°	9275.0	2819.9	86.3	46.0	26.9	21.1	21.1	34.6	46.0	57.6	59.4
75°	3986.2	778.9	69.0	32.6	23.0	19.2	19.2	32.6	44.1	55.6	59.4
77.5°	729.0	197.6	55.6	28.7	23.0	19.2	17.3	30.7	42.2	53.7	55.6
80°	289.7	97.8	44.1	25.0	21.1	17.3	15.3	28.7	40.3	51.8	53.7
82.5°	174.5	55.6	36.4	23.0	21.1	15.3	13.4	25.0	38.4	49.9	51.8
85°	142.0	38.4	28.7	23.0	19.2	15.3	11.6	23.0	34.6	48.0	49.9
87.5°	69.0	26.9	26.9	21.1	19.2	15.3	11.6	21.1	32.6	46.0	48.0
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)