

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: P191138

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191138
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA 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: 51489.2 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

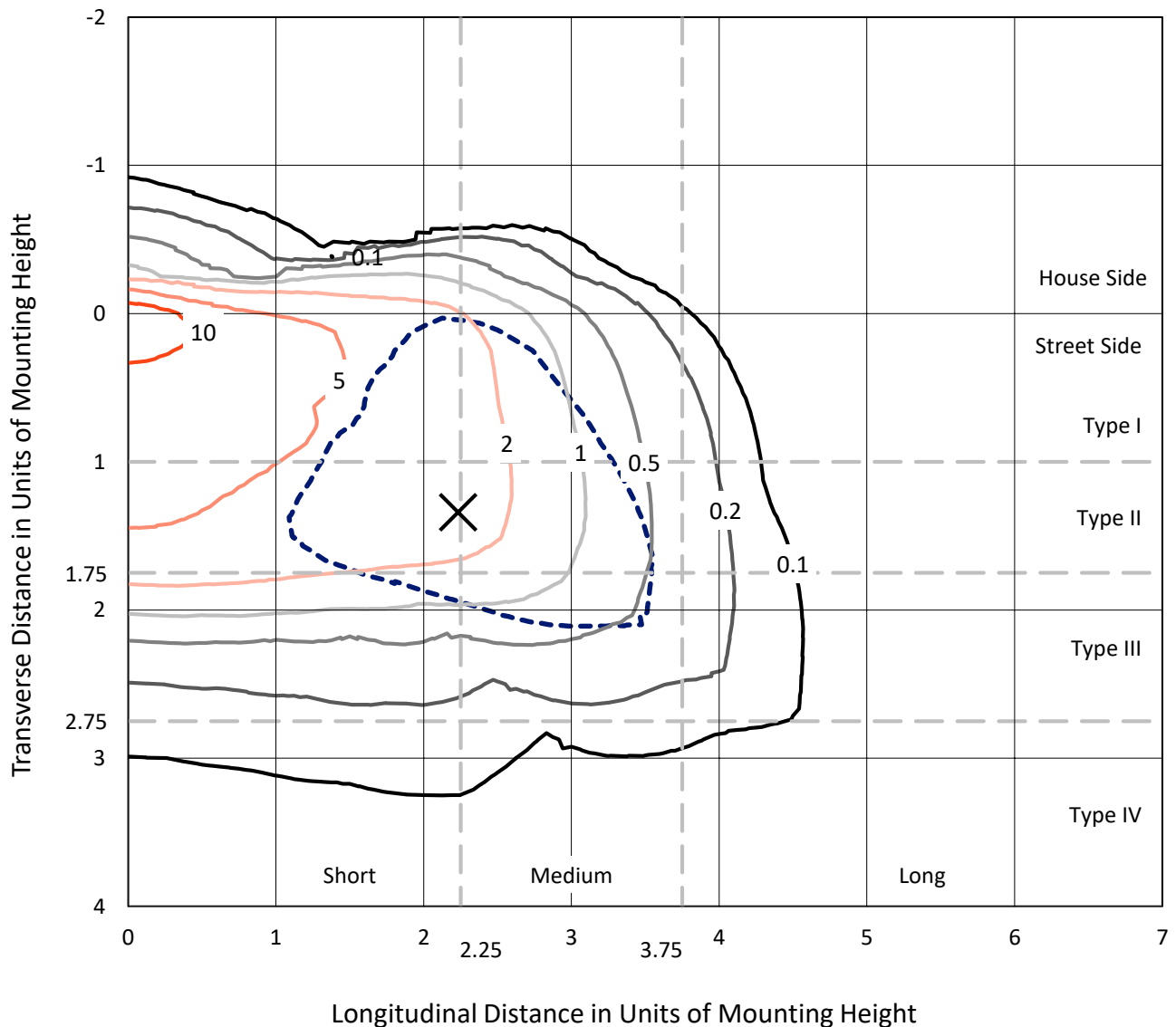
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191138
 CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

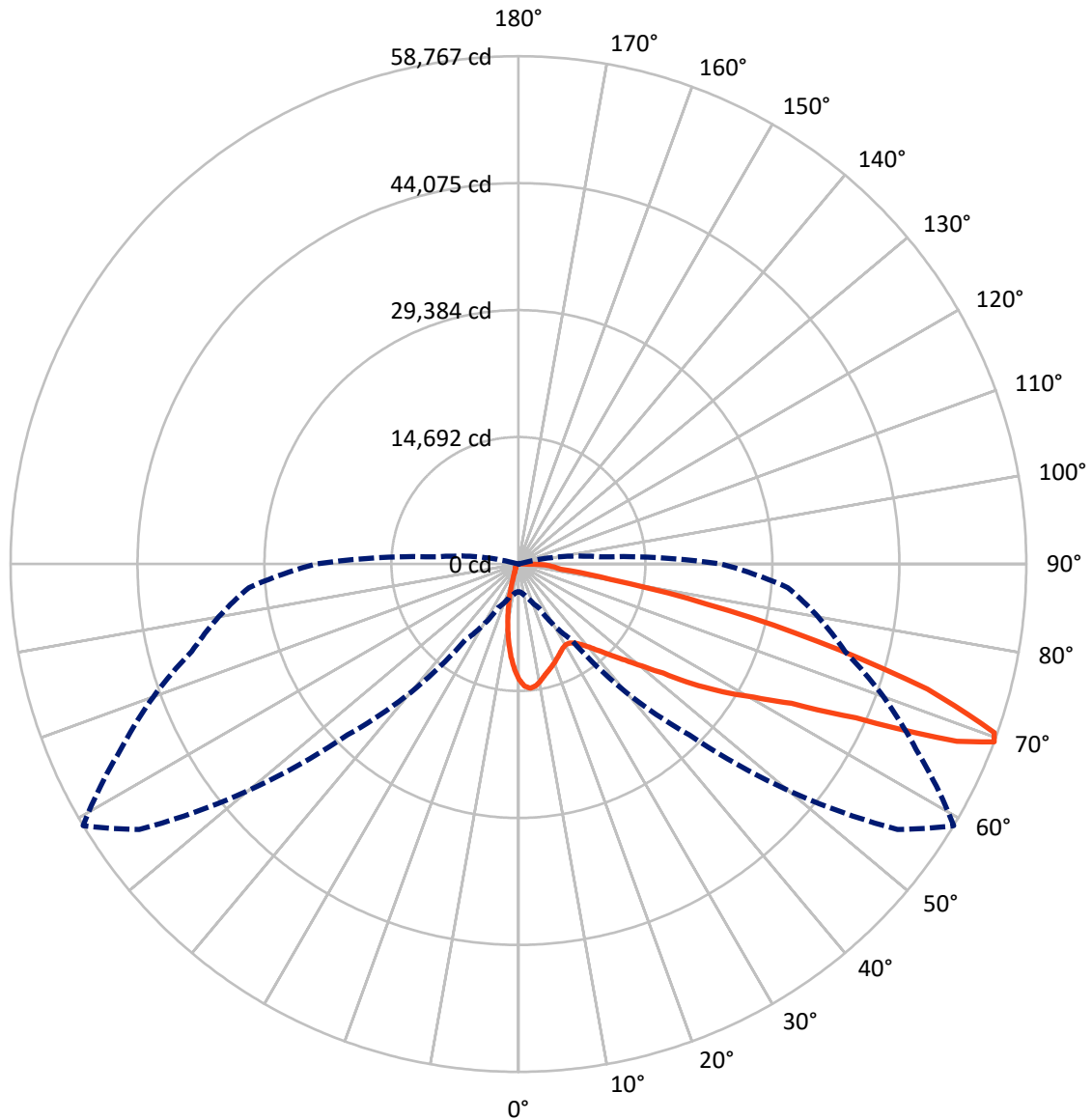


Based on 30 foot mounting height. Maximum calculated value = 15 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P191138

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

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191138

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

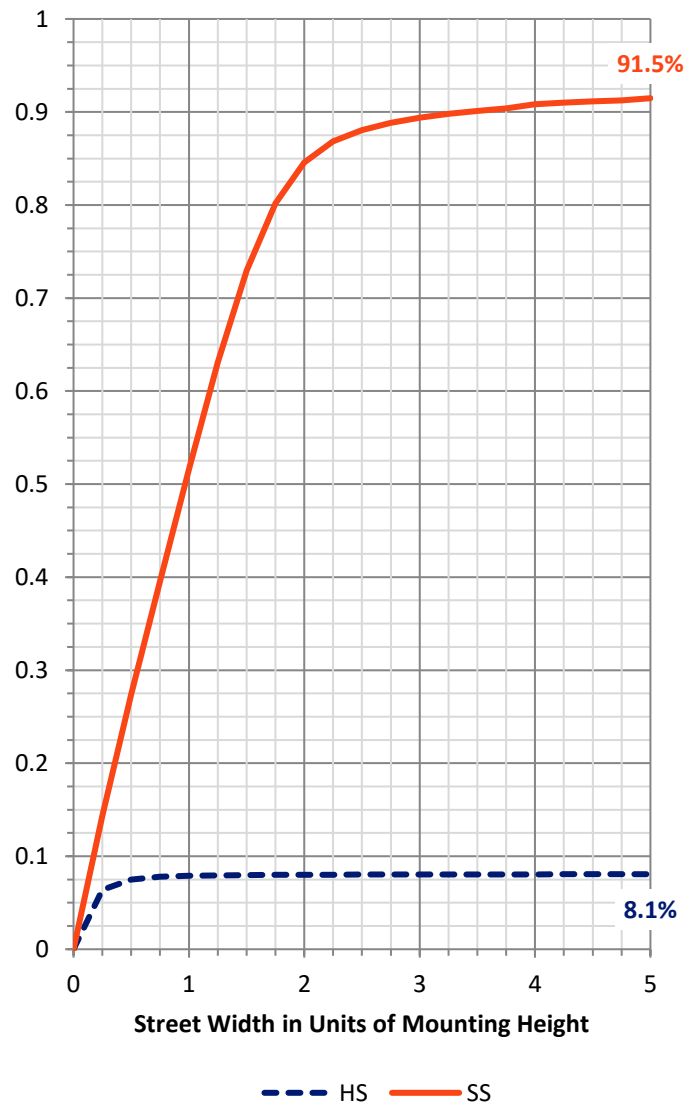
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4193.1	0.0	4193.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	47296.1	0.0	47296.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	51489.2	0.0	51489.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1087.8	2.1
10°-20°	2247.8	4.4
20°-30°	3024.7	5.9
30°-40°	4391.6	8.5
40°-50°	7312.4	14.2
50°-60°	11407.2	22.2
60°-70°	14115.5	27.4
70°-80°	7153.6	13.9
80°-90°	748.5	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°	51489.2	100.0
0°-180°	51489.2	100.0

Coefficient of Utilization



REPORT NUMBER: P191138

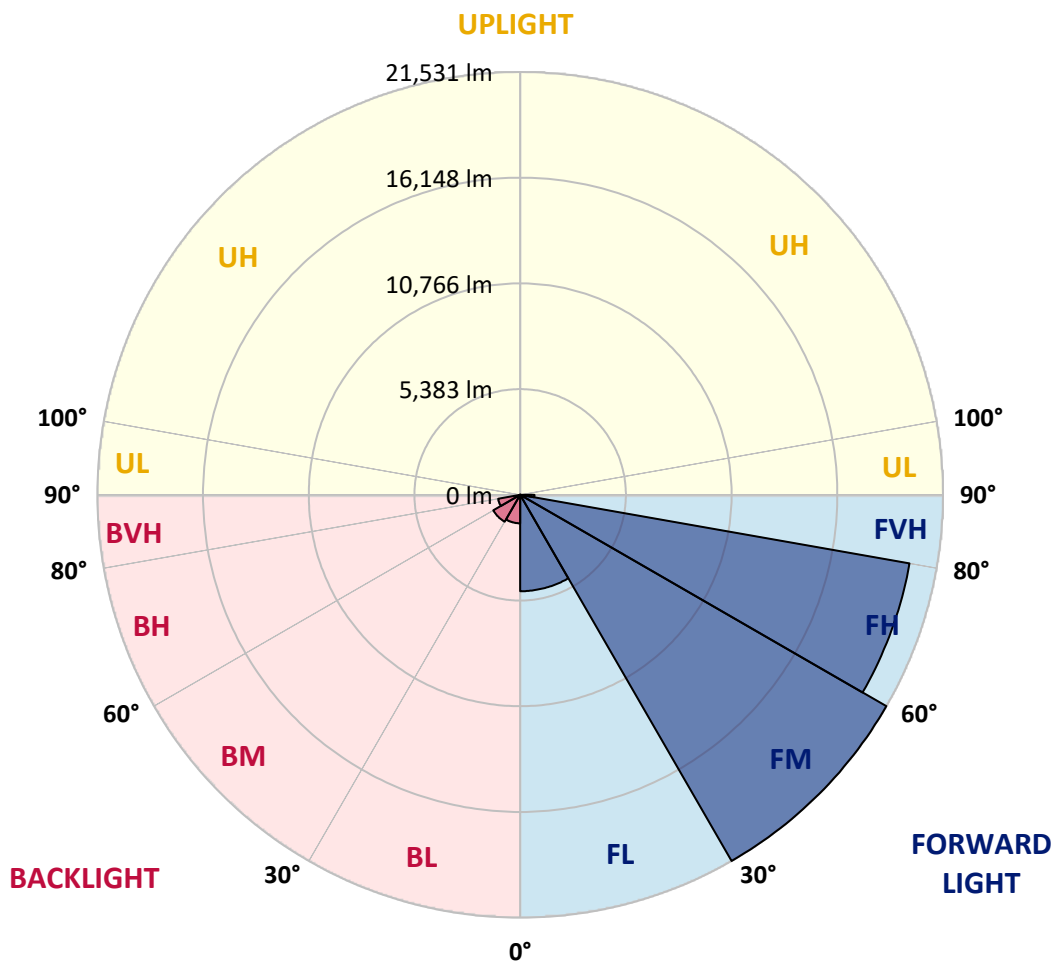
CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4908.9	9.5			
FM	(30°-60°)	21531.3	41.8			
FH	(60°-80°)	20130.4	39.1			G5
FVH	(80°-90°)	725.5	1.4			G4/750
BL	(0°-30°)	1451.4	2.8	B3/2500		
BM	(30°-60°)	1580.0	3.1	B2/2500		
BH	(60°-80°)	1138.7	2.2	B3/2500		G3/2500
BVH	(80°-90°)	23.0	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P191138

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	13401.9	13401.9	13401.9	13401.9	13401.9	13401.9	13401.9	13401.9	13401.9	13401.9	13401.9
2.5°	14688.9	14683.0	14619.0	14589.8	14537.5	14426.8	14255.0	14164.8	14019.1	13765.8	13425.2
5°	14555.0	14624.8	14662.7	14665.5	14703.4	14662.7	14508.3	14432.6	14231.7	13824.1	13212.6
7.5°	13646.5	13672.7	13780.5	13873.6	14054.1	14225.9	14281.2	14249.2	14129.8	13693.1	12880.8
10°	12674.1	12700.2	12828.3	12950.7	13195.2	13460.2	13739.7	13797.9	13847.4	13506.7	12560.5
12.5°	11835.5	11861.7	11992.8	12152.9	12438.2	12764.3	13198.1	13294.2	13512.6	13329.2	12304.3
15°	11113.4	11125.1	11253.2	11451.2	11791.9	12211.1	12703.1	12857.5	13192.3	13203.9	12080.1
17.5°	10499.1	10528.2	10606.9	10796.1	11168.8	11687.0	12260.6	12481.8	12875.0	13099.1	11861.7
20°	10123.5	10152.6	10149.7	10254.6	10589.4	11142.6	11818.0	12083.0	12560.5	12991.4	11666.7
22.5°	10050.7	10050.7	9975.0	9960.5	10158.4	10621.4	11358.0	11681.2	12278.1	12944.8	11529.8
25°	10309.8	10298.3	10108.9	9954.6	9963.3	10239.9	10912.5	11296.9	12039.3	12976.8	11457.0
27.5°	10857.2	10842.7	10603.9	10309.8	10074.0	10071.1	10574.8	10988.2	11850.1	13128.2	11486.1
30°	11614.3	11608.4	11349.2	10979.5	10551.5	10158.4	10458.3	10834.0	11727.8	13401.9	11553.1
32.5°	12441.1	12432.3	12237.3	11847.2	11305.7	10551.5	10580.6	10895.0	11762.7	13765.8	11716.2
35°	13317.5	13303.0	13218.5	12877.8	12280.9	11276.5	10982.4	11227.0	11984.0	14310.4	12036.4
37.5°	14266.7	14281.2	14342.4	14016.3	13390.3	12292.6	11655.0	11820.9	12429.5	15049.9	12557.5
40°	15667.1	15664.2	15684.6	15256.6	14653.9	13535.9	12595.4	12647.9	13174.8	16031.1	13349.5
42.5°	18208.9	18031.3	17492.7	16619.2	16013.6	14956.7	13780.5	13725.1	14086.1	17245.2	14458.8
45°	21624.2	21245.7	19848.1	18173.9	17399.5	16558.1	15239.1	15061.5	15291.6	18703.8	15827.3
47.5°	24562.0	24168.8	22191.9	19792.8	18869.9	18077.9	16948.2	16628.0	16703.7	20337.3	17562.5
50°	25560.6	25368.5	23641.9	21202.0	20293.6	19990.8	18931.0	18540.9	18433.1	22226.9	19574.5
52.5°	25214.1	25199.6	24049.5	22116.2	21598.0	21970.6	21426.2	20974.9	20578.9	24218.4	21621.3
55°	24658.0	24730.9	24215.5	22917.0	22899.5	23778.7	24838.6	24462.9	23315.8	26381.7	23385.7
57.5°	23123.6	23435.2	24122.3	24430.9	25147.2	26046.9	27680.2	27901.5	26544.8	28038.4	24850.2
60°	18762.1	19446.3	21694.0	24649.3	28044.2	30286.1	31110.1	31299.3	29194.3	29415.6	26827.2
62.5°	13317.5	14016.3	16866.7	21865.9	28087.9	35855.9	36219.8	35477.4	32111.7	31456.6	30236.6
65°	7069.3	7607.9	9937.1	15783.6	24352.4	37148.7	45155.4	42942.7	37259.2	35471.5	34641.8
67.5°	3616.1	3779.2	4705.1	7724.4	16741.5	32996.7	53165.1	54722.9	46130.8	39454.6	34429.3
69°	3199.8	3295.8	3910.2	5584.4	10720.4	27948.1	53555.3	58767.0	50774.8	39122.7	31287.7
70°	3097.9	3182.3	3741.3	5054.5	8379.5	23438.1	52061.6	58411.8	51962.7	37859.1	28940.9
72.5°	2629.2	2701.9	3330.8	4466.3	6810.2	11634.6	42290.4	49496.6	46628.7	31538.1	20948.7
75°	1758.6	1997.3	3196.9	4186.8	6335.5	6609.3	27881.1	35768.6	33226.8	21271.9	10912.5
77.5°	422.2	454.2	902.5	3330.8	5794.0	5817.3	14339.4	22235.6	18136.1	7581.7	2579.7
80°	227.1	218.4	253.3	660.9	5395.1	5459.2	6454.9	10793.2	6475.3	1257.8	850.2
82.5°	160.1	151.4	163.1	276.6	1697.5	4973.0	4670.2	4885.6	2684.4	483.3	381.5
85°	58.2	55.3	90.2	250.4	532.9	2859.1	4798.3	4029.6	2174.9	221.3	279.5
87.5°	20.4	17.5	35.0	136.9	163.1	1217.0	2961.0	3045.5	856.0	133.9	131.0
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: P191138

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13401.9	13401.9	13401.9	13401.9	13401.9	13401.9	13401.9	13401.9	13401.9	13401.9	13401.9
2.5°	13282.5	13102.1	12770.1	12429.5	12115.0	11736.5	11547.3	11360.9	11282.3	11253.2	11116.3
5°	12898.2	12592.5	11887.9	11180.4	10528.2	9835.3	9378.1	9011.3	8795.8	8691.0	8525.1
7.5°	12406.1	11905.4	10836.8	9745.0	8728.8	7727.3	6984.8	6414.2	6021.1	5831.8	5660.1
10°	11928.6	11262.0	9742.1	8254.3	6874.2	5546.5	4521.6	3779.2	3304.6	3086.2	2946.5
12.5°	11500.6	10635.9	8685.2	6801.4	5069.0	3514.2	2472.0	1880.9	1586.8	1484.9	1435.4
15°	11119.3	10059.5	7686.6	5421.3	3432.7	2009.0	1351.0	1150.1	1103.5	1103.5	1097.6
17.5°	10758.3	9494.6	6722.8	4125.7	2154.5	1228.7	1027.8	1001.6	1001.6	1013.2	1013.2
20°	10411.8	8955.9	5791.1	2961.0	1356.7	975.4	928.8	923.0	928.8	943.4	943.4
22.5°	10114.7	8466.9	4920.5	2032.3	1007.4	879.3	856.0	847.3	850.2	858.9	864.7
25°	9893.5	8053.4	4099.5	1377.2	867.7	800.7	774.5	760.0	748.3	748.3	754.1
27.5°	9753.7	7704.0	3304.6	1001.6	780.3	727.9	687.1	663.8	637.6	623.1	628.9
30°	9651.8	7372.1	2559.2	818.2	698.8	646.4	593.9	556.1	518.2	500.8	506.6
32.5°	9614.0	7104.2	1912.9	722.1	625.9	567.7	503.7	454.2	413.5	398.8	401.8
35°	9715.9	6891.7	1400.4	652.2	567.7	495.0	422.2	366.8	334.8	326.1	329.0
37.5°	9983.8	6778.1	1048.1	593.9	515.4	433.8	352.3	299.9	279.5	279.5	282.4
40°	10490.4	6775.2	841.5	553.2	468.7	375.6	291.1	253.3	241.6	247.5	250.4
42.5°	11229.9	6929.6	733.8	515.4	428.0	320.3	241.6	215.4	212.6	218.4	221.3
45°	12240.2	7211.9	675.5	483.3	384.3	267.9	203.8	186.4	186.4	195.1	197.9
47.5°	13477.6	7625.4	625.9	451.3	340.6	224.2	174.7	163.1	165.9	174.7	177.6
50°	14968.3	8146.6	576.5	416.3	308.6	186.4	151.4	142.7	145.6	157.2	160.1
52.5°	16665.8	8848.2	535.7	384.3	267.9	154.4	128.1	122.2	128.1	139.7	142.7
55°	18121.6	9477.1	486.2	358.1	215.4	128.1	104.9	104.9	110.7	125.2	128.1
57.5°	19522.0	10135.2	442.5	308.6	168.9	101.9	87.4	90.2	99.0	113.5	116.4
60°	21577.6	11250.3	390.2	259.1	128.1	81.5	72.8	75.7	87.4	101.9	104.9
62.5°	25068.5	12947.7	337.8	215.4	99.0	64.0	58.2	64.0	78.6	96.1	99.0
65°	28218.9	13637.8	276.6	180.6	75.7	49.5	49.5	58.2	75.7	93.2	96.1
67.5°	26463.2	11480.3	215.4	142.7	58.2	37.8	40.7	55.3	72.8	93.2	96.1
69°	23403.2	9386.9	183.4	113.5	49.5	35.0	37.8	55.3	72.8	90.2	93.2
70°	21018.6	7925.3	163.1	96.1	43.7	35.0	37.8	52.4	72.8	90.2	93.2
72.5°	14077.4	4280.0	131.0	69.9	40.7	32.0	32.0	52.4	69.9	87.4	90.2
75°	6050.2	1182.1	104.9	49.5	35.0	29.2	29.2	49.5	67.0	84.4	90.2
77.5°	1106.4	299.9	84.4	43.7	35.0	29.2	26.2	46.5	64.0	81.5	84.4
80°	439.7	148.5	67.0	37.8	32.0	26.2	23.3	43.7	61.2	78.6	81.5
82.5°	264.9	84.4	55.3	35.0	32.0	23.3	20.4	37.8	58.2	75.7	78.6
85°	215.4	58.2	43.7	35.0	29.2	23.3	17.5	35.0	52.4	72.8	75.7
87.5°	104.9	40.7	40.7	32.0	29.2	23.3	17.5	32.0	49.5	69.9	72.8
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)