

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: P191284

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SLL-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25858.2 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

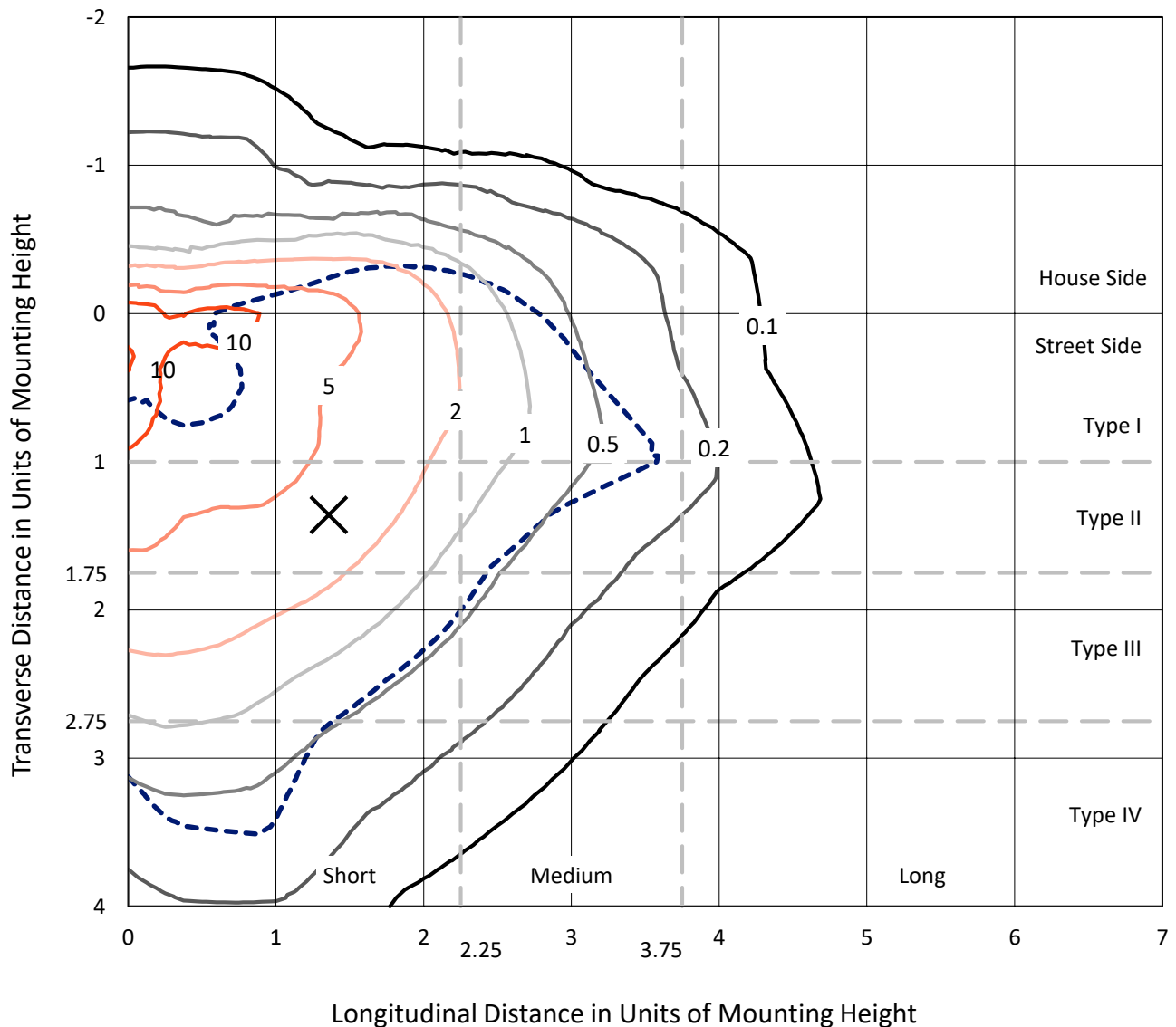
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

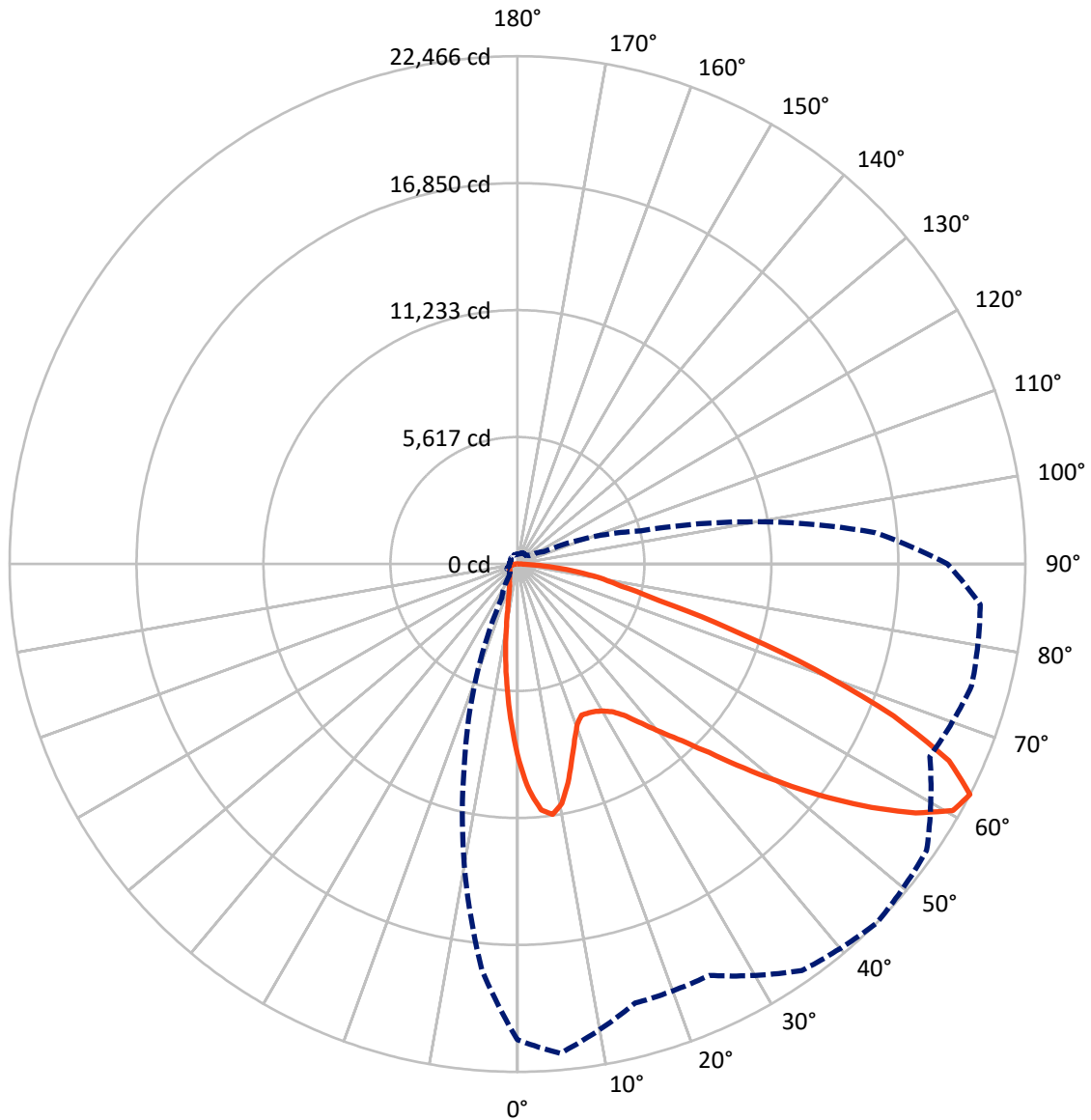
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4279.2	0.0	4279.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21579.0	0.0	21579.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	25858.2	0.0	25858.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.0	2.5
10°-20°	1166.2	4.5
20°-30°	1700.3	6.6
30°-40°	2618.7	10.1
40°-50°	3854.0	14.9
50°-60°	5653.0	21.9
60°-70°	6319.3	24.4
70°-80°	3093.8	12.0
80°-90°	816.8	3.2
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°	25858.2	100.0
0°-180°	25858.2	100.0



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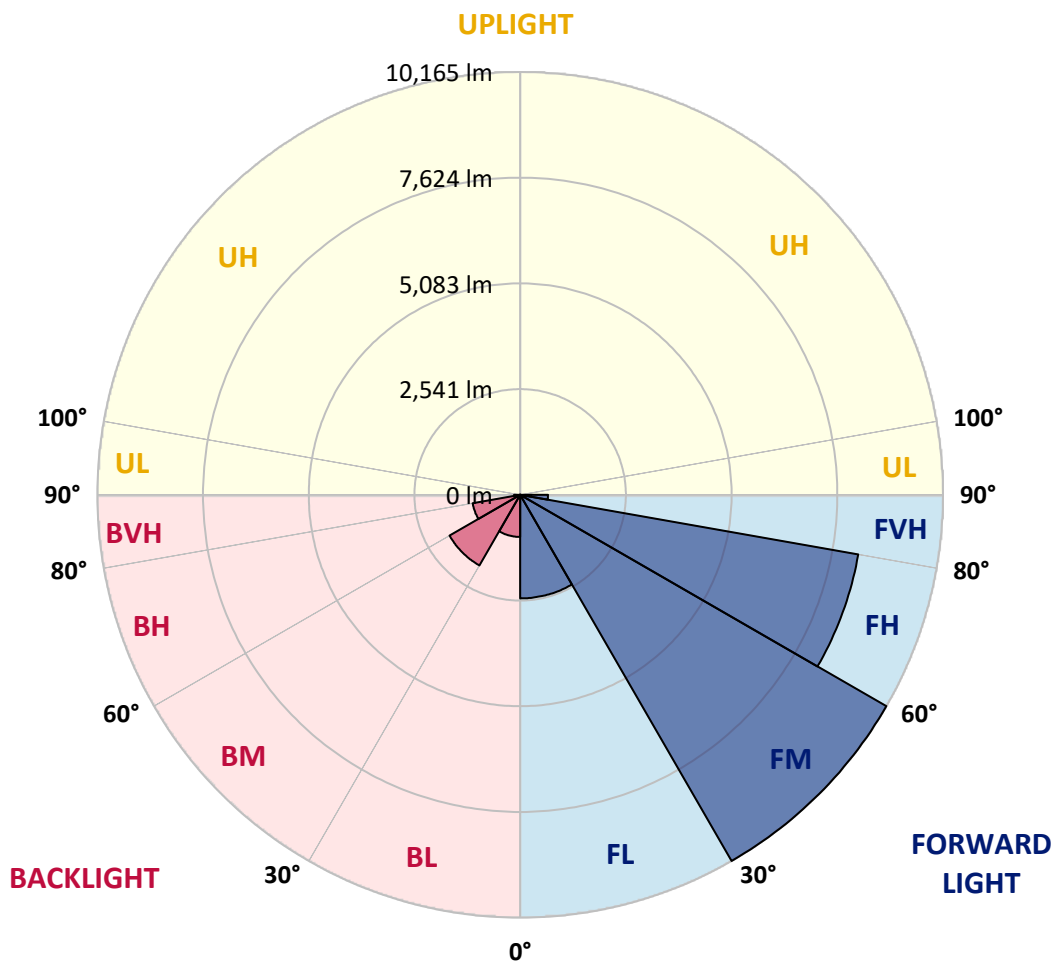
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2490.1	9.6			
FM	(30°-60°)	10165.1	39.3			
FH	(60°-80°)	8253.0	31.9			G4/12000
FVH	(80°-90°)	670.8	2.6			G4/750
BL	(0°-30°)	1012.4	3.9	B3/2500		
BM	(30°-60°)	1960.7	7.6	B2/2500		
BH	(60°-80°)	1160.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	146.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3
2.5°	9077.5	9222.4	9505.3	9717.1	9974.4	10034.0	10116.5	10035.5	9891.9	9701.5	9638.9
5°	8535.8	8845.8	9532.3	10136.4	10673.7	10923.9	10993.6	10787.4	10371.0	9823.7	9489.6
7.5°	7667.3	8108.0	9037.7	9927.4	10719.2	11186.9	11175.5	10696.5	9930.3	9039.0	8503.2
10°	6918.2	7421.4	8487.5	9482.5	10322.6	10776.1	10601.2	9988.6	9074.6	8048.3	7466.9
12.5°	6498.9	6992.2	8073.8	9073.2	9775.3	9931.7	9798.1	9198.3	8336.8	7299.2	6790.3
15°	6426.4	6968.0	7908.9	8722.1	9115.8	8979.4	8820.2	8551.5	7943.1	7057.5	6527.3
17.5°	6740.5	7337.5	8098.1	8477.6	8410.8	8173.4	8127.9	8157.7	8011.3	7326.2	6715.0
20°	7343.3	8059.6	8548.6	8362.4	7874.9	7547.9	7559.3	8015.6	8449.2	8007.0	7309.1
22.5°	8189.0	9006.4	9198.3	8423.6	7648.9	7260.8	7354.6	8093.8	9147.1	9002.1	8110.9
25°	9283.6	10028.4	9890.5	8645.3	7671.6	7296.3	7371.7	8363.9	9971.5	9997.1	9103.0
27.5°	10344.0	11034.8	10471.8	8939.6	7765.4	7380.2	7479.7	8788.9	10759.0	11077.4	10237.4
30°	11171.2	11651.7	10702.1	9208.2	7950.2	7543.6	7667.3	9192.5	11117.2	11806.6	11110.1
32.5°	11856.4	12201.8	11068.8	9540.9	8289.9	7800.9	8018.4	9682.9	11633.2	12500.3	11964.4
35°	12732.0	12830.1	11525.2	9911.8	8814.5	8248.7	8518.8	10163.4	12125.0	13201.1	12805.9
37.5°	13758.3	13631.7	11955.8	10419.3	9492.5	8949.5	9172.7	10690.8	12530.1	13995.7	13665.9
40°	14773.3	14469.0	12496.1	11206.7	10481.9	9775.3	10039.8	11253.7	12908.2	14791.7	14506.0
42.5°	15636.0	15185.4	13029.1	12072.5	11402.9	10686.6	11002.0	11820.8	13269.3	15471.1	15235.2
45°	16274.2	15714.2	13536.5	12904.0	12672.3	11897.6	12046.9	12470.5	13660.2	16038.3	15835.1
47.5°	16844.3	16245.8	14110.8	13742.6	13782.4	13472.6	13232.4	13226.7	14120.7	16501.7	16402.2
50°	17607.5	16983.5	14727.7	14606.9	15448.4	15242.3	14712.1	14109.4	14703.6	17027.6	17016.3
52.5°	18659.4	18152.1	15481.1	15537.9	17003.5	17138.5	16481.8	15169.7	15616.2	17992.8	17924.6
55°	19903.2	19607.6	16507.4	16608.3	18911.1	19007.8	18355.3	16496.0	16958.0	19390.1	19201.1
57.5°	20874.1	20811.5	17633.2	17893.4	20335.3	20770.3	20170.4	18031.1	18470.4	20567.0	20092.3
60°	21260.7	21563.5	18831.5	19189.6	21653.1	22134.9	21609.0	19380.1	19810.9	21054.6	20031.2
62.5°	21051.8	21728.4	20107.9	20078.1	21947.3	22466.1	22096.6	20130.6	20804.5	20551.4	19017.7
65°	20086.7	21135.7	20848.6	19849.2	20940.9	20983.6	20864.1	19795.2	21039.0	18960.8	17058.9
67.5°	17984.3	19493.9	19873.4	17887.6	18225.9	17948.7	17748.3	17958.7	19816.5	16577.0	14336.9
70°	14648.1	16919.6	17101.6	14307.0	14153.4	13967.3	13567.8	14723.4	17404.3	13586.3	11375.9
72.5°	10770.3	13158.4	13717.1	10493.2	9782.5	9820.8	9505.3	11095.8	14150.6	10092.3	8493.3
75°	7368.8	9528.1	10732.0	7322.0	6469.0	6484.7	6444.9	7862.1	11270.8	7020.6	6355.3
77.5°	5383.1	6807.3	8093.8	4922.5	4778.9	4690.8	4669.5	5501.0	8641.1	5097.4	4935.3
80°	4319.8	5029.1	5437.1	3411.5	3668.8	3661.7	3543.7	3782.5	5643.2	3728.5	3691.5
82.5°	2996.4	3864.9	4405.1	2673.8	2476.2	2434.9	2463.4	2817.3	3988.6	2548.7	2423.6
85°	1580.7	2567.2	4362.5	2369.6	1469.8	1172.7	1458.4	2307.1	3455.5	1350.4	1182.6
87.5°	201.8	742.0	2888.4	945.3	579.9	312.7	692.2	1299.2	2218.9	275.8	240.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3
2.5°	9478.3	9289.2	9041.9	8813.0	8575.6	8339.7	8031.2	7838.0	7704.3	7678.7	7621.9
5°	9248.0	8619.7	8144.9	7734.1	7361.8	6835.8	6544.4	6302.7	6173.4	6160.6	6129.3
7.5°	8186.2	7319.1	6678.0	6096.6	5569.3	5144.2	4675.2	4456.3	4366.7	4388.0	4409.3
10°	7081.7	6112.2	5375.9	4781.8	4317.0	3958.7	3582.1	3327.7	3151.4	3115.8	3108.7
12.5°	6274.3	5211.0	4496.1	4076.8	3717.1	3380.2	2980.8	2680.8	2452.0	2373.9	2321.3
15°	5933.1	4770.4	4021.3	3569.3	3172.7	2744.9	2373.9	2059.7	1849.3	1781.1	1742.7
17.5°	6005.6	4648.2	3694.4	3115.8	2608.4	2162.0	1694.4	1425.7	1299.2	1266.5	1266.5
20°	6386.6	4625.4	3424.3	2697.9	2065.3	1547.9	1164.2	1010.7	969.5	965.2	976.5
22.5°	6921.1	4705.1	3222.4	2335.5	1604.8	1130.1	906.8	850.1	831.6	835.9	848.6
25°	7717.1	4973.7	3076.0	2012.8	1259.5	925.4	808.8	774.7	766.2	777.5	793.2
27.5°	8660.9	5242.3	2985.1	1769.7	1063.3	845.8	769.1	733.5	739.2	753.4	767.6
30°	9489.6	5462.7	2841.5	1596.3	1002.1	850.1	769.1	720.7	715.0	717.8	722.1
32.5°	10233.1	5611.9	2673.8	1431.4	864.3	754.8	717.8	710.7	679.4	668.1	669.5
35°	10874.2	5611.9	2572.8	1334.7	774.7	669.5	609.8	574.3	558.6	560.1	575.7
37.5°	11492.4	5499.6	2523.1	1280.7	726.4	636.8	584.2	552.9	531.6	527.3	530.2
40°	12038.3	5336.1	2466.2	1258.0	689.4	616.9	567.1	541.6	518.8	511.7	513.1
42.5°	12476.1	5204.0	2403.7	1228.2	666.7	602.7	555.8	533.1	507.5	500.3	498.9
45°	12949.4	5159.9	2321.3	1168.4	678.0	604.2	552.9	528.8	503.2	494.7	491.8
47.5°	13573.5	5297.8	2236.0	1097.3	702.2	611.2	557.2	528.8	501.8	494.7	491.8
50°	14359.6	5621.8	2127.9	993.6	678.0	631.2	555.8	524.5	501.8	494.7	489.0
52.5°	15368.8	6059.7	1985.8	874.2	663.8	679.4	552.9	516.0	494.7	484.7	474.8
55°	16595.5	6417.9	1816.7	776.1	631.2	666.7	548.7	506.1	483.3	469.1	460.5
57.5°	17493.9	6547.2	1599.2	712.2	585.6	645.4	543.0	493.3	469.1	457.7	446.3
60°	17316.2	6297.1	1415.8	672.4	558.6	582.8	538.7	481.9	456.3	447.7	437.8
62.5°	15893.3	5643.2	1297.8	653.9	541.6	531.6	543.0	470.5	444.9	436.4	433.5
65°	13759.7	4678.1	1250.9	649.6	527.3	501.8	504.6	457.7	432.1	425.0	422.2
67.5°	11350.4	3775.4	1209.6	663.8	508.9	480.5	466.3	440.7	419.3	412.2	406.5
70°	8950.9	3140.0	1191.2	655.3	486.1	459.1	443.4	422.2	403.7	396.6	392.3
72.5°	7208.2	2652.4	1181.2	646.8	456.3	430.7	416.4	398.0	378.1	375.2	371.0
75°	6099.4	2085.3	1081.8	619.8	422.2	396.6	386.7	369.6	349.6	349.6	346.9
77.5°	4705.1	1508.1	899.8	548.7	386.7	358.2	349.6	336.9	314.1	318.4	317.0
80°	3475.5	983.7	703.6	454.9	342.6	315.6	311.3	298.5	274.4	280.0	280.0
82.5°	2380.9	645.4	506.1	372.5	292.9	267.2	267.2	254.4	227.4	230.3	238.8
85°	1195.4	443.4	378.1	288.6	227.4	214.6	214.6	204.7	177.7	179.1	190.5
87.5°	363.9	267.2	250.2	206.1	163.5	160.6	153.5	146.4	129.4	128.0	135.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3
2.5°	7535.2	7454.1	7356.0	7140.0	7067.5	7063.3	7128.6	7060.4	7191.1	7135.7	7196.9
5°	6076.7	5997.2	5887.7	5611.9	5444.1	5330.5	5276.5	5117.2	5232.4	5148.5	5218.2
7.5°	4469.1	4487.6	4415.1	4253.0	3887.7	3704.3	3596.3	3499.6	3583.5	3575.0	3708.6
10°	3141.4	3191.2	3140.0	2976.6	2680.8	2580.0	2599.8	2638.2	2747.6	2804.5	3010.6
12.5°	2261.5	2258.7	2226.0	2079.6	1884.9	1896.2	1977.3	2044.1	2145.0	2204.7	2415.1
15°	1688.7	1663.1	1648.9	1529.5	1418.6	1442.8	1482.6	1489.7	1553.7	1589.2	1759.8
17.5°	1276.4	1289.2	1304.9	1219.6	1135.8	1120.1	1088.8	1050.5	1069.0	1076.0	1161.4
20°	1013.5	1064.7	1103.0	1043.3	958.1	912.6	872.8	847.2	847.2	845.8	869.9
22.5°	885.6	922.5	963.7	922.5	845.8	806.0	783.3	763.3	760.5	760.5	783.3
25°	815.9	842.9	882.7	854.3	797.4	767.6	746.2	720.7	710.7	707.9	723.5
27.5°	781.8	793.2	813.0	787.5	739.2	725.0	719.2	696.5	683.7	676.6	692.2
30°	723.5	720.7	722.1	696.5	658.2	656.7	666.7	671.0	666.7	665.2	689.4
32.5°	669.5	663.8	662.4	639.7	604.2	595.6	604.2	612.6	622.6	636.8	665.2
35°	601.3	615.5	624.0	604.2	561.5	535.9	525.9	510.4	501.8	501.8	534.5
37.5°	547.3	579.9	592.7	574.3	527.3	491.8	474.8	471.9	473.3	479.0	510.4
40°	528.8	552.9	564.4	545.8	498.9	466.3	456.3	453.5	456.3	464.8	496.1
42.5°	517.4	534.5	533.1	510.4	471.9	449.2	443.4	440.7	443.4	452.0	486.1
45°	507.5	518.8	507.5	480.5	444.9	433.5	435.0	433.5	436.4	444.9	477.6
47.5°	498.9	503.2	489.0	462.0	425.0	422.2	427.9	432.1	435.0	442.1	476.2
50°	486.1	486.1	473.3	444.9	408.0	409.4	416.4	426.5	427.9	436.4	463.4
52.5°	470.5	469.1	460.5	433.5	393.7	398.0	398.0	409.4	412.2	422.2	450.6
55°	457.7	454.9	450.6	425.0	380.9	388.1	383.8	388.1	395.2	405.1	436.4
57.5°	446.3	440.7	440.7	417.9	371.0	373.9	363.9	369.6	378.1	386.7	419.3
60°	435.0	429.2	432.1	408.0	355.4	352.5	348.2	359.7	362.4	372.5	405.1
62.5°	422.2	417.9	419.3	396.6	344.0	336.9	336.9	346.9	348.2	362.4	393.7
65°	412.2	406.5	405.1	385.2	331.2	322.6	326.9	331.2	334.0	348.2	378.1
67.5°	402.2	390.9	390.9	375.2	317.0	308.4	317.0	315.6	319.9	332.7	356.8
70°	389.4	373.9	375.2	368.2	302.8	292.9	299.9	298.5	301.4	309.9	334.0
72.5°	369.6	356.8	359.7	356.8	288.6	274.4	277.2	277.2	277.2	284.3	309.9
75°	344.0	334.0	342.6	349.6	271.5	251.6	254.4	254.4	250.2	254.4	285.7
77.5°	312.7	307.0	335.4	325.5	251.6	227.4	227.4	224.6	216.0	221.8	255.8
80°	278.7	274.4	309.9	272.9	228.8	197.5	194.8	187.6	179.1	183.4	217.5
82.5°	243.1	238.8	260.1	209.0	197.5	163.5	156.4	143.5	135.0	139.3	170.5
85°	199.0	199.0	200.4	157.7	150.7	125.1	116.5	99.5	89.5	92.4	122.2
87.5°	142.2	146.4	135.0	108.0	89.5	69.7	63.9	54.0	45.5	52.6	63.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3	8736.3
2.5°	7509.6	7665.9	7843.6	8071.1	8265.7	8585.6	8892.6	9077.5
5°	5614.8	5874.9	6199.0	6615.4	7003.5	7586.3	8164.9	8535.8
7.5°	4018.5	4297.1	4646.8	5167.0	5715.6	6459.1	7223.9	7667.3
10°	3324.8	3610.5	3904.7	4255.9	4705.1	5513.8	6417.9	6918.2
12.5°	2750.5	3056.2	3373.1	3742.7	4159.2	4881.3	5923.2	6498.9
15°	2105.1	2446.3	2820.2	3287.9	3809.5	4643.9	5800.9	6426.4
17.5°	1442.8	1823.7	2282.8	2860.0	3498.2	4567.2	6019.9	6740.5
20°	993.6	1270.8	1761.2	2437.8	3205.4	4557.1	6440.6	7343.3
22.5°	831.6	955.2	1313.5	2049.8	2985.1	4679.4	7093.0	8189.0
25°	769.1	842.9	1049.0	1712.8	2824.5	4960.9	7991.4	9283.6
27.5°	732.0	798.8	952.4	1492.5	2697.9	5287.8	8865.6	10344.0
30°	746.2	814.5	925.4	1380.3	2526.0	5560.8	9641.7	11171.2
32.5°	672.4	702.2	793.2	1280.7	2402.3	5789.6	10321.2	11856.4
35°	572.9	625.4	707.9	1233.8	2405.1	5943.1	11061.8	12732.0
37.5°	545.8	598.4	658.2	1216.8	2437.8	6106.6	11911.9	13758.3
40°	528.8	577.1	628.3	1206.8	2469.1	6255.9	12744.7	14773.3
42.5°	517.4	561.5	625.4	1172.7	2484.7	6389.5	13429.9	15636.0
45°	516.0	561.5	636.8	1138.5	2508.9	6533.0	14004.2	16274.2
47.5°	517.4	579.9	615.5	1097.3	2508.9	6773.3	14678.0	16844.3
50°	511.7	611.2	592.7	1039.1	2450.6	7228.1	15601.9	17607.5
52.5°	508.9	606.9	548.7	949.5	2349.7	7950.2	16786.0	18659.4
55°	501.8	585.6	517.4	815.9	2231.7	8737.7	18054.0	19903.2
57.5°	494.7	518.8	500.3	699.4	2049.8	9292.1	18926.7	20874.1
60°	554.3	453.5	486.1	642.5	1806.6	9444.2	18892.6	21260.7
62.5°	513.1	425.0	467.7	629.7	1636.1	9017.7	18019.8	21051.8
65°	402.2	406.5	449.2	666.7	1590.6	7887.7	16473.3	20086.7
67.5°	368.2	388.1	430.7	713.6	1594.9	6315.5	14161.9	17984.3
70°	346.9	368.2	409.4	737.8	1606.2	4707.8	11196.8	14648.1
72.5°	322.6	341.2	385.2	742.0	1532.4	3420.0	8629.7	10770.3
75°	294.2	311.3	351.1	646.8	1269.4	2372.4	6601.2	7368.8
77.5°	261.6	274.4	308.4	498.9	942.4	1518.2	4955.2	5383.1
80°	223.2	230.3	258.7	365.3	645.4	949.5	3920.4	4319.8
82.5°	179.1	182.0	200.4	274.4	419.3	609.8	2625.4	2996.4
85°	126.5	126.5	137.9	199.0	285.7	386.7	1425.7	1580.7
87.5°	59.7	61.2	61.2	109.5	149.2	196.2	328.4	201.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)