

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: P269411

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269411
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 21961.6 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - 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

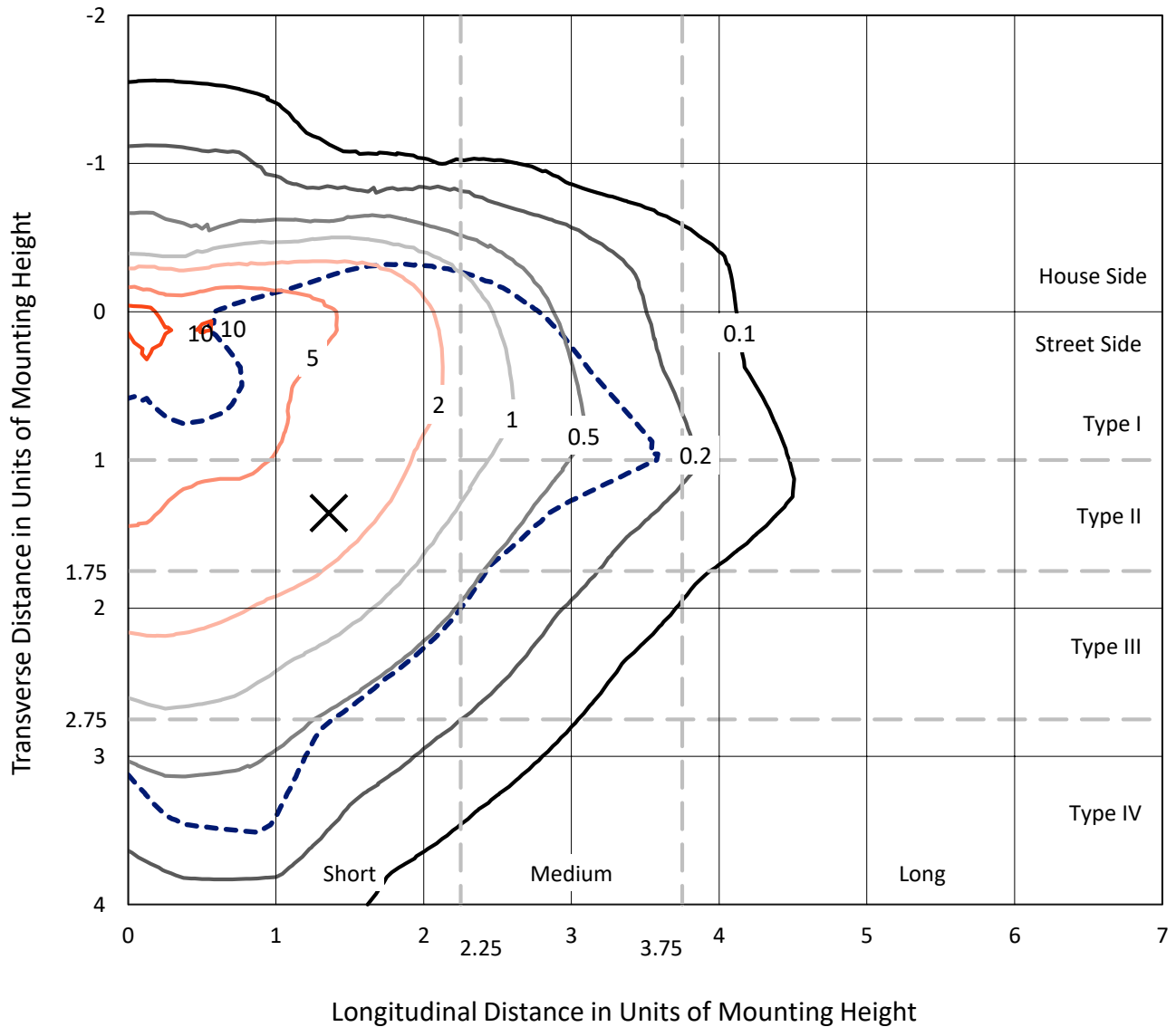


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Iso-Footcandle Lines of Horizontal Illumination

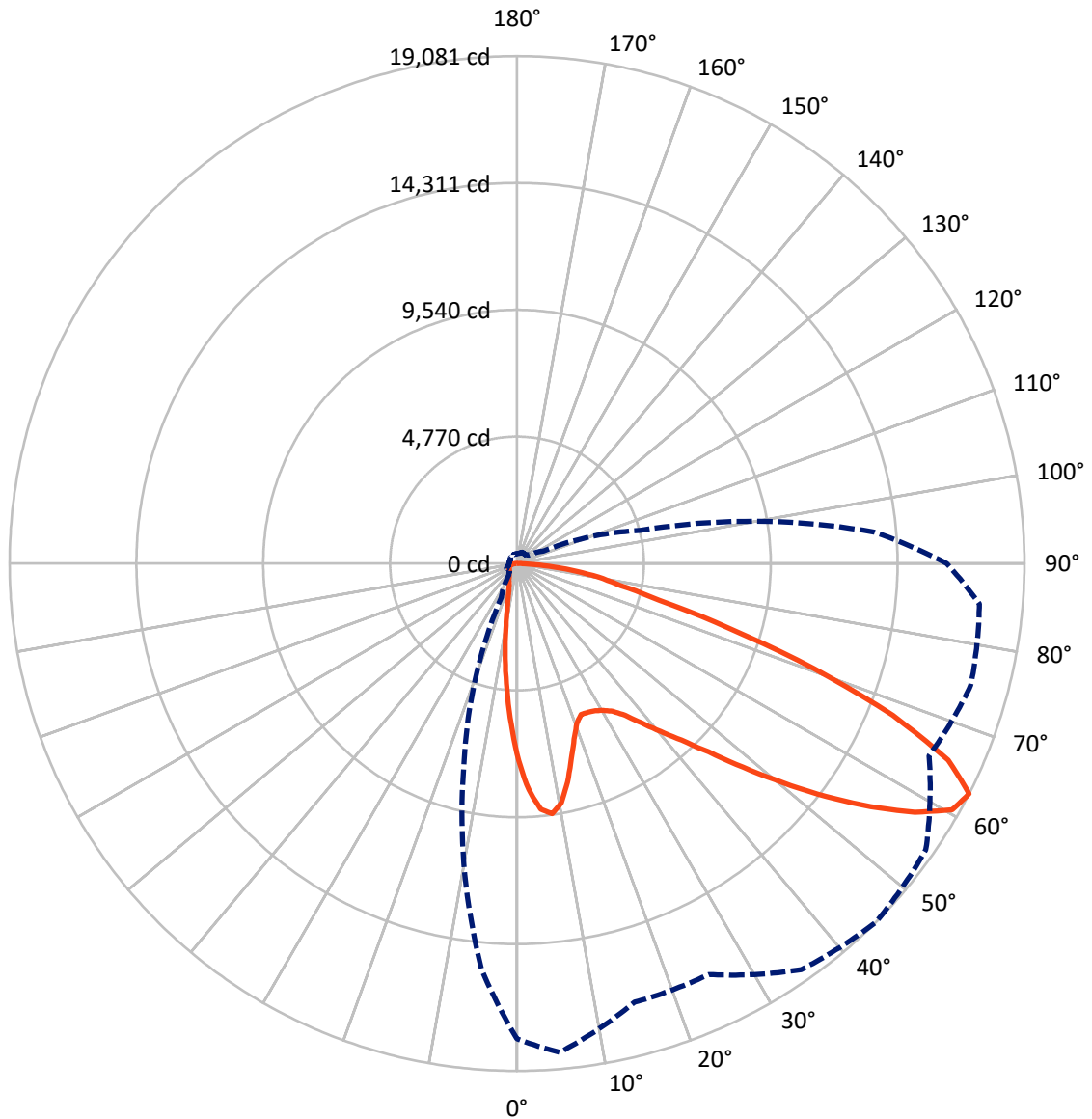
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	3634.3	0.0	3634.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18327.3	0.0	18327.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	21961.6	0.0	21961.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.1	2.5
10°-20°	990.5	4.5
20°-30°	1444.1	6.6
30°-40°	2224.1	10.1
40°-50°	3273.3	14.9
50°-60°	4801.2	21.9
60°-70°	5367.0	24.4
70°-80°	2627.6	12.0
80°-90°	693.8	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°	21961.6	100.0
0°-180°	21961.6	100.0



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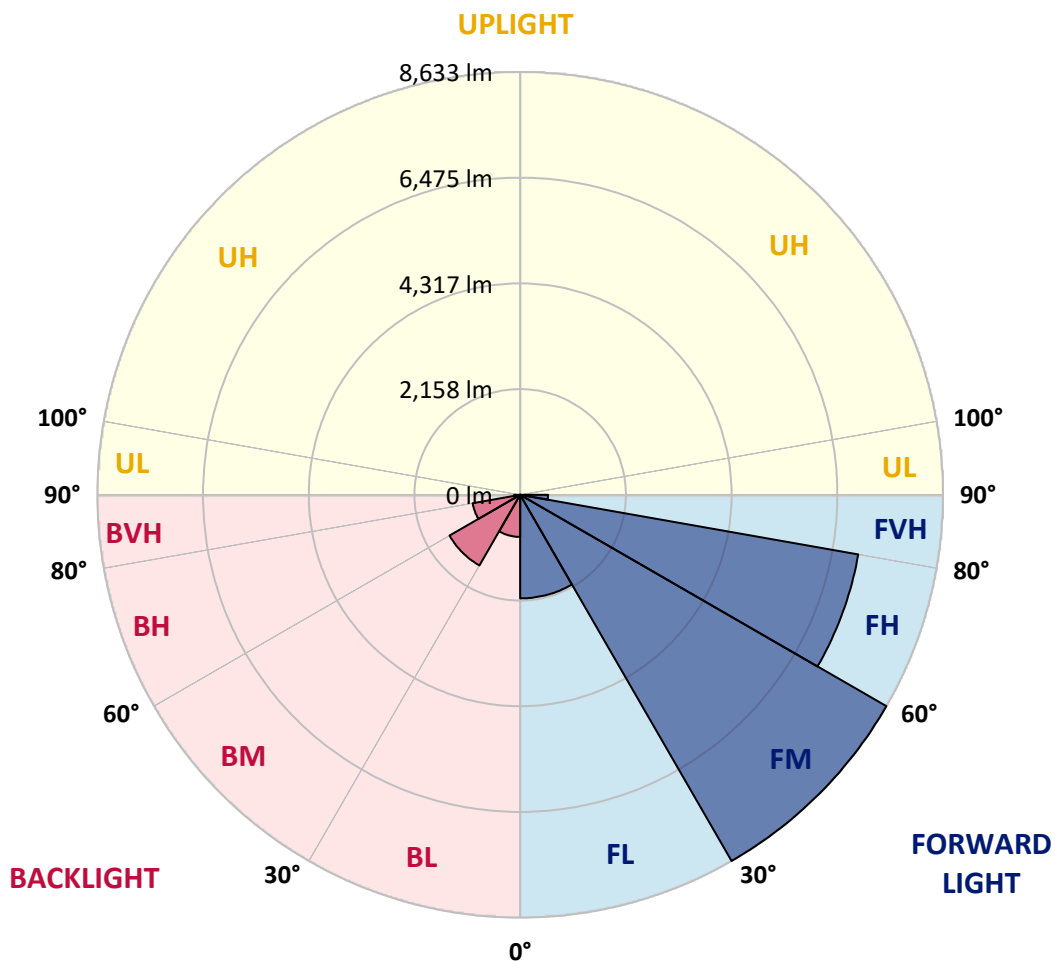
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2114.8	9.6			
FM (30°-60°)	8633.3	39.3			
FH (60°-80°)	7009.4	31.9			G3/7500
FVH (80°-90°)	569.7	2.6			G4/750
BL (0°-30°)	859.8	3.9	B2/1000		
BM (30°-60°)	1665.2	7.6	B2/2500		
BH (60°-80°)	985.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	124.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8
2.5°	7709.6	7832.7	8073.0	8252.8	8471.3	8522.0	8592.1	8523.3	8401.3	8239.6	8186.4
5°	7249.6	7512.7	8095.9	8608.9	9065.3	9277.8	9337.0	9162.0	8808.2	8343.4	8059.7
7.5°	6512.0	6886.1	7675.7	8431.5	9104.0	9501.2	9491.5	9084.6	8433.9	7676.9	7221.8
10°	5875.8	6303.0	7208.5	8053.7	8767.1	9152.2	9003.7	8483.5	7707.2	6835.6	6341.8
12.5°	5519.5	5938.5	6857.2	7705.9	8302.3	8435.2	8321.7	7812.2	7080.6	6199.3	5767.1
15°	5458.0	5917.9	6717.2	7407.8	7742.1	7626.3	7491.1	7262.8	6746.2	5994.0	5543.7
17.5°	5724.8	6231.9	6877.8	7200.2	7143.3	6941.7	6903.1	6928.4	6804.1	6222.2	5703.1
20°	6236.8	6845.2	7260.6	7102.3	6688.2	6410.6	6420.1	6807.7	7176.0	6800.4	6207.7
22.5°	6955.0	7649.2	7812.2	7154.2	6496.3	6166.7	6246.4	6874.1	7768.7	7645.6	6888.7
25°	7884.7	8517.2	8400.1	7342.6	6515.5	6196.9	6260.8	7103.4	8469.0	8490.7	7731.4
27.5°	8785.2	9371.9	8893.8	7592.5	6595.3	6268.2	6352.6	7464.5	9137.7	9408.2	8694.6
30°	9487.9	9895.9	9089.5	7820.6	6752.2	6406.9	6512.0	7807.3	9441.9	10027.5	9435.9
32.5°	10069.8	10363.1	9400.9	8103.2	7040.7	6625.4	6810.1	8223.9	9880.2	10616.7	10161.4
35°	10813.4	10896.7	9788.6	8418.2	7486.3	7005.7	7235.0	8632.0	10297.9	11211.8	10876.1
37.5°	11685.1	11577.6	10154.4	8849.3	8062.1	7600.9	7790.5	9079.8	10642.0	11886.7	11606.6
40°	12547.0	12288.8	10613.0	9518.0	8902.4	8302.3	8526.9	9557.8	10963.2	12562.7	12320.1
42.5°	13279.9	12897.1	11065.7	10253.3	9684.6	9076.1	9344.2	10039.5	11269.7	13139.8	12939.5
45°	13822.0	13346.3	11496.8	10959.5	10762.8	10104.8	10231.5	10591.2	11601.8	13621.4	13448.9
47.5°	14306.0	13797.7	11984.5	11671.8	11705.6	11442.4	11238.3	11233.6	11992.9	14015.0	13930.6
50°	14954.4	14424.4	12508.4	12405.9	13120.6	12945.5	12495.2	11983.3	12487.9	14461.8	14452.1
52.5°	15847.7	15416.7	13148.3	13196.6	14441.2	14556.0	13998.2	12883.9	13262.9	15281.4	15223.5
55°	16904.0	16653.0	14019.8	14105.6	16061.3	16143.5	15589.4	14010.2	14402.6	16468.3	16307.7
57.5°	17728.6	17675.5	14976.1	15196.9	17271.1	17640.5	17130.9	15314.0	15687.1	17467.8	17064.7
60°	18057.0	18314.1	15993.9	16297.9	18390.2	18799.5	18352.7	16459.7	16825.7	17881.9	17012.7
62.5°	17879.5	18454.2	17077.9	17052.5	18640.1	19080.8	18766.9	17097.3	17669.4	17454.5	16152.0
65°	17059.8	17950.7	17706.9	16858.2	17785.4	17821.6	17720.1	16812.3	17868.6	16103.6	14488.4
67.5°	15274.3	16556.4	16878.8	15192.1	15479.6	15244.1	15073.9	15252.5	16830.5	14079.0	12176.4
70°	12440.7	14370.0	14524.5	12151.1	12020.7	11862.6	11523.3	12504.8	14781.7	11539.0	9661.7
72.5°	9147.4	11175.6	11650.1	8911.9	8308.3	8340.9	8073.0	9423.8	12018.2	8571.5	7213.4
75°	6258.4	8092.2	9114.8	6218.5	5494.3	5507.5	5473.7	6677.3	9572.3	5962.7	5397.6
77.5°	4572.0	5781.6	6874.1	4180.7	4058.8	3984.0	3965.8	4672.1	7339.0	4329.2	4191.6
80°	3668.9	4271.4	4617.7	2897.5	3116.0	3109.9	3009.7	3212.5	4792.8	3166.6	3135.3
82.5°	2544.9	3282.5	3741.4	2270.8	2103.0	2068.1	2092.2	2392.7	3387.6	2164.6	2058.3
85°	1342.4	2180.2	3705.1	2012.6	1248.4	996.0	1238.7	1959.5	2934.9	1146.9	1004.5
87.5°	171.4	630.3	2453.1	802.8	492.6	265.5	587.9	1103.5	1884.6	234.2	204.1
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°	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8
2.5°	8050.0	7889.5	7679.4	7484.9	7283.4	7083.0	6821.0	6656.8	6543.3	6521.6	6473.4
5°	7854.4	7320.8	6917.6	6568.6	6252.5	5805.7	5558.3	5353.0	5243.1	5232.3	5205.7
7.5°	6952.6	6216.2	5671.7	5177.9	4730.0	4369.0	3970.7	3784.7	3708.7	3726.8	3744.9
10°	6014.6	5191.2	4565.8	4061.2	3666.4	3362.3	3042.3	2826.2	2676.5	2646.2	2640.3
12.5°	5328.8	4425.8	3818.5	3462.4	3157.1	2870.9	2531.7	2276.9	2082.5	2016.2	1971.5
15°	5039.1	4051.5	3415.4	3031.4	2694.6	2331.2	2016.2	1749.3	1570.6	1512.7	1480.0
17.5°	5100.7	3947.7	3137.7	2646.2	2215.3	1836.2	1439.1	1210.8	1103.5	1075.7	1075.7
20°	5424.2	3928.4	2908.4	2291.3	1754.1	1314.7	988.8	858.4	823.3	819.8	829.3
22.5°	5878.1	3996.0	2736.9	1983.5	1363.0	959.7	770.2	722.0	706.2	709.9	720.7
25°	6554.3	4224.2	2612.5	1709.5	1069.6	785.9	686.9	658.0	650.7	660.3	673.6
27.5°	7355.9	4452.4	2535.2	1503.0	903.1	718.4	653.2	623.0	627.7	639.9	651.9
30°	8059.7	4639.4	2413.2	1355.7	851.1	722.0	653.2	612.0	607.3	609.7	613.4
32.5°	8691.0	4766.2	2270.8	1215.6	734.0	641.1	609.7	603.7	577.2	567.4	568.5
35°	9235.6	4766.2	2185.1	1133.7	658.0	568.5	518.0	487.7	474.5	475.7	488.9
37.5°	9760.8	4670.8	2142.8	1087.8	616.9	540.9	496.1	469.6	451.5	447.9	450.3
40°	10224.2	4532.0	2094.6	1068.4	585.5	523.9	481.8	459.9	440.7	434.6	435.8
42.5°	10596.1	4419.8	2041.5	1043.1	566.2	511.9	472.0	452.7	430.9	425.0	423.7
45°	10998.2	4382.3	1971.5	992.4	575.9	513.1	469.6	449.2	427.4	420.1	417.7
47.5°	11528.0	4499.5	1899.0	932.0	596.4	519.1	473.2	449.2	426.2	420.1	417.7
50°	12195.7	4774.8	1807.3	843.9	575.9	536.0	472.0	445.5	426.2	420.1	415.2
52.5°	13052.9	5146.6	1686.6	742.4	563.7	577.2	469.6	438.3	420.1	411.7	403.2
55°	14094.8	5450.7	1542.8	659.1	536.0	566.2	466.0	429.7	410.4	398.4	391.1
57.5°	14857.7	5560.7	1358.1	604.7	497.4	548.1	461.2	418.9	398.4	388.7	379.1
60°	14706.8	5348.1	1202.4	571.1	474.5	495.0	457.5	409.3	387.4	380.3	371.9
62.5°	13498.4	4792.8	1102.2	555.3	459.9	451.5	461.2	399.6	377.8	370.6	368.2
65°	11686.3	3973.2	1062.3	551.6	447.9	426.2	428.6	388.7	367.0	360.9	358.6
67.5°	9640.0	3206.5	1027.4	563.7	432.3	408.1	396.1	374.2	356.2	350.1	345.3
70°	7602.1	2666.9	1011.8	556.5	413.0	390.0	376.7	358.6	342.9	336.9	333.2
72.5°	6121.9	2252.8	1003.2	549.4	387.4	365.8	353.8	338.0	321.1	318.7	315.0
75°	5180.3	1771.1	918.7	526.3	358.6	336.9	328.4	313.9	297.0	297.0	294.6
77.5°	3996.0	1281.0	764.2	466.0	328.4	304.3	297.0	286.1	266.7	270.4	269.2
80°	2951.7	835.5	597.6	386.4	291.0	268.1	264.5	253.5	233.0	237.8	237.8
82.5°	2022.2	548.1	429.7	316.4	248.7	226.9	226.9	216.1	193.1	195.7	202.7
85°	1015.4	376.7	321.1	245.1	193.1	182.3	182.3	173.8	150.9	152.2	161.8
87.5°	309.0	226.9	212.4	175.1	138.9	136.5	130.3	124.3	109.9	108.7	114.8
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°	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8
2.5°	6399.6	6330.9	6247.6	6064.1	6002.6	5998.9	6054.3	5996.5	6107.5	6060.4	6112.3
5°	5161.0	5093.4	5000.4	4766.2	4623.8	4527.2	4481.4	4346.1	4443.9	4372.7	4431.9
7.5°	3795.6	3811.2	3749.7	3612.2	3301.9	3146.1	3054.3	2972.3	3043.5	3036.2	3149.7
10°	2668.1	2710.2	2666.9	2528.0	2276.9	2191.1	2208.0	2240.7	2333.6	2381.9	2556.9
12.5°	1920.8	1918.3	1890.6	1766.2	1600.8	1610.5	1679.3	1736.1	1821.8	1872.4	2051.1
15°	1434.2	1412.5	1400.4	1298.9	1204.8	1225.4	1259.2	1265.3	1319.5	1349.8	1494.6
17.5°	1084.2	1094.9	1108.2	1035.8	964.6	951.3	924.7	892.1	907.8	913.8	986.2
20°	860.8	904.2	936.8	886.1	813.7	775.1	741.2	719.5	719.5	718.4	738.9
22.5°	752.2	783.5	818.5	783.5	718.4	684.5	665.3	648.2	645.9	645.9	665.3
25°	693.0	715.9	749.7	725.7	677.3	651.9	633.8	612.0	603.7	601.2	614.5
27.5°	663.9	673.6	690.5	668.8	627.7	615.7	610.8	591.5	580.7	574.6	587.9
30°	614.5	612.0	613.4	591.5	558.9	557.8	566.2	569.9	566.2	565.0	585.5
32.5°	568.5	563.7	562.6	543.3	513.1	505.8	513.1	520.3	528.8	540.9	565.0
35°	510.6	522.8	530.0	513.1	476.9	455.1	446.6	433.4	426.2	426.2	454.0
37.5°	464.9	492.6	503.4	487.7	447.9	417.7	403.2	400.9	402.0	406.8	433.4
40°	449.2	469.6	479.2	463.5	423.7	396.1	387.4	385.2	387.4	394.7	421.3
42.5°	439.5	454.0	452.7	433.4	400.9	381.5	376.7	374.2	376.7	383.9	413.0
45°	430.9	440.7	430.9	408.1	377.8	368.2	369.5	368.2	370.6	377.8	405.7
47.5°	423.7	427.4	415.2	392.4	360.9	358.6	363.4	367.0	369.5	375.4	404.4
50°	413.0	413.0	402.0	377.8	346.4	347.7	353.8	362.1	363.4	370.6	393.5
52.5°	399.6	398.4	391.1	368.2	334.3	338.0	338.0	347.7	350.1	358.6	382.7
55°	388.7	386.4	382.7	360.9	323.6	329.6	325.9	329.6	335.6	344.1	370.6
57.5°	379.1	374.2	374.2	354.9	315.0	317.6	309.0	313.9	321.1	328.4	356.2
60°	369.5	364.6	367.0	346.4	301.8	299.3	295.8	305.5	307.8	316.4	344.1
62.5°	358.6	354.9	356.2	336.9	292.2	286.1	286.1	294.6	295.8	307.8	334.3
65°	350.1	345.3	344.1	327.2	281.3	274.1	277.7	281.3	283.8	295.8	321.1
67.5°	341.6	332.1	332.1	318.7	269.2	261.9	269.2	268.1	271.6	282.4	303.0
70°	330.8	317.6	318.7	312.7	257.2	248.7	254.7	253.5	255.9	263.2	283.8
72.5°	313.9	303.0	305.5	303.0	245.1	233.0	235.4	235.4	235.4	241.5	263.2
75°	292.2	283.8	291.0	297.0	230.5	213.6	216.1	216.1	212.4	216.1	242.6
77.5°	265.5	260.8	284.9	276.5	213.6	193.1	193.1	190.7	183.6	188.4	217.3
80°	236.7	233.0	263.2	231.9	194.4	167.9	165.4	159.4	152.2	155.8	184.7
82.5°	206.4	202.7	221.0	177.4	167.9	138.9	132.8	121.9	114.8	118.2	144.8
85°	169.1	169.1	170.1	133.9	128.0	106.2	99.1	84.5	76.0	78.5	103.8
87.5°	120.7	124.3	114.8	91.7	76.0	59.2	54.3	45.9	38.6	44.6	54.3
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: P269411

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7027-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8
2.5°	6378.0	6510.7	6661.7	6854.8	7020.3	7291.8	7552.6	7709.6
5°	4768.7	4989.6	5264.8	5618.5	5948.1	6443.2	6934.5	7249.6
7.5°	3412.9	3649.5	3946.6	4388.4	4854.4	5485.8	6135.3	6512.0
10°	2823.8	3066.5	3316.4	3614.5	3996.0	4683.0	5450.7	5875.8
12.5°	2336.0	2595.7	2864.9	3178.7	3532.4	4145.8	5030.7	5519.5
15°	1787.9	2077.7	2395.2	2792.4	3235.4	3944.1	4926.8	5458.0
17.5°	1225.4	1548.9	1938.8	2428.9	2971.1	3878.9	5112.8	5724.8
20°	843.9	1079.4	1495.8	2070.5	2722.4	3870.4	5470.0	6236.8
22.5°	706.2	811.3	1115.5	1740.8	2535.2	3974.3	6024.3	6955.0
25°	653.2	715.9	890.9	1454.7	2398.8	4213.3	6787.2	7884.7
27.5°	621.7	678.5	808.8	1267.6	2291.3	4490.9	7529.8	8785.2
30°	633.8	691.8	785.9	1172.3	2145.3	4722.7	8188.9	9487.9
32.5°	571.1	596.4	673.6	1087.8	2040.3	4917.1	8765.9	10069.8
35°	486.5	531.2	601.2	1048.0	2042.7	5047.5	9395.0	10813.4
37.5°	463.5	508.3	558.9	1033.4	2070.5	5186.4	10116.8	11685.1
40°	449.2	490.1	533.7	1025.0	2097.1	5313.1	10824.2	12547.0
42.5°	439.5	476.9	531.2	996.0	2110.3	5426.7	11406.1	13279.9
45°	438.3	476.9	540.9	967.0	2130.8	5548.7	11893.9	13822.0
47.5°	439.5	492.6	522.8	932.0	2130.8	5752.6	12466.1	14306.0
50°	434.6	519.1	503.4	882.6	2081.4	6138.8	13250.9	14954.4
52.5°	432.3	515.4	466.0	806.5	1995.7	6752.2	14256.6	15847.7
55°	426.2	497.4	439.5	693.0	1895.5	7421.0	15333.3	16904.0
57.5°	420.1	440.7	425.0	594.0	1740.8	7891.9	16074.7	17728.6
60°	470.8	385.2	413.0	545.7	1534.5	8021.1	16045.6	18057.0
62.5°	435.8	360.9	397.2	534.9	1389.6	7658.9	15304.5	17879.5
65°	341.6	345.3	381.5	566.2	1351.0	6699.1	13990.9	17059.8
67.5°	312.7	329.6	365.8	606.0	1354.6	5363.9	12027.9	15274.3
70°	294.6	312.7	347.7	626.6	1364.2	3998.4	9509.5	12440.7
72.5°	274.1	289.8	327.2	630.3	1301.5	2904.7	7329.4	9147.4
75°	249.9	264.5	298.1	549.4	1078.1	2014.9	5606.5	6258.4
77.5°	222.2	233.0	261.9	423.7	800.4	1289.3	4208.5	4572.0
80°	189.5	195.7	219.7	310.3	548.1	806.5	3329.6	3668.9
82.5°	152.2	154.5	170.1	233.0	356.2	518.0	2229.9	2544.9
85°	107.4	107.4	117.0	169.1	242.6	328.4	1210.8	1342.4
87.5°	50.8	51.9	51.9	93.0	126.8	166.5	278.8	171.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)