

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: P193833

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193833
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-05-LED-E1-SLL-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 21334 lumens
Efficiency: N/A
Efficacy: 76.5 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): 279
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

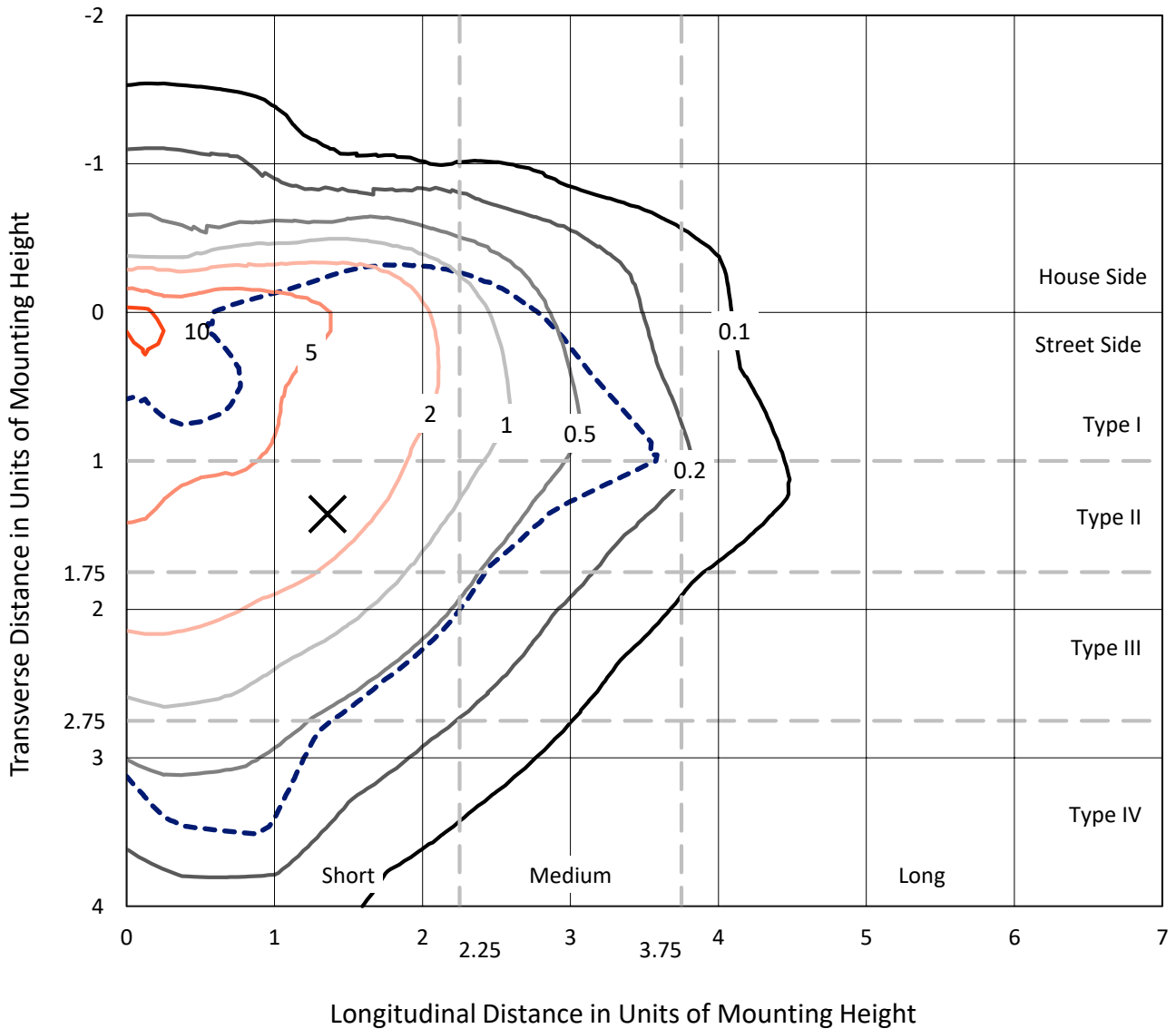


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Iso-Footcandle Lines of Horizontal Illumination

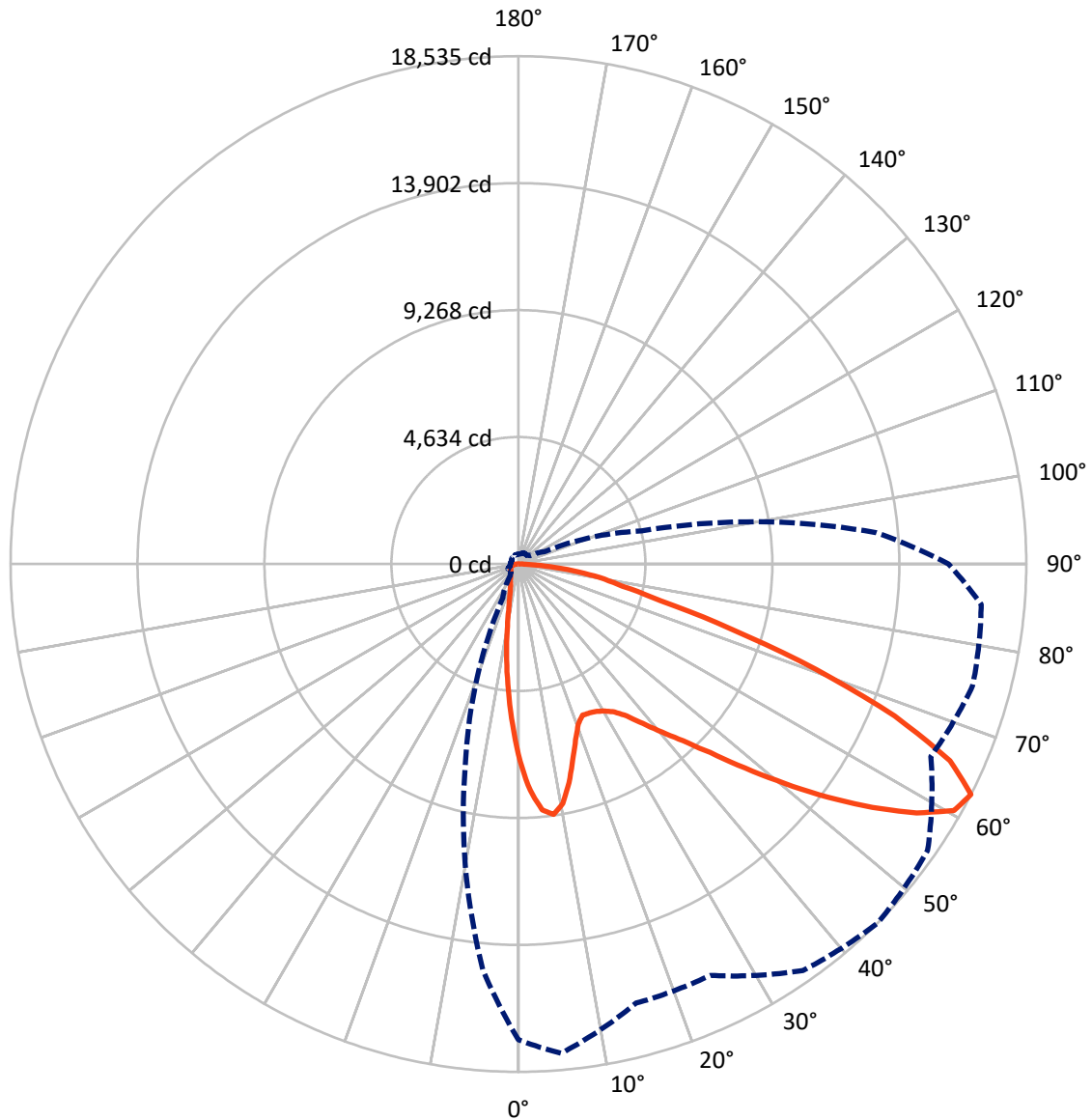
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	3530.5	0.0	3530.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17803.5	0.0	17803.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	21334.0	0.0	21334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.7	2.5
10°-20°	962.1	4.5
20°-30°	1402.8	6.6
30°-40°	2160.5	10.1
40°-50°	3179.7	14.9
50°-60°	4664.0	21.9
60°-70°	5213.7	24.4
70°-80°	2552.5	12.0
80°-90°	673.9	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°	21334.0	100.0
0°-180°	21334.0	100.0

Coefficient of Utilization



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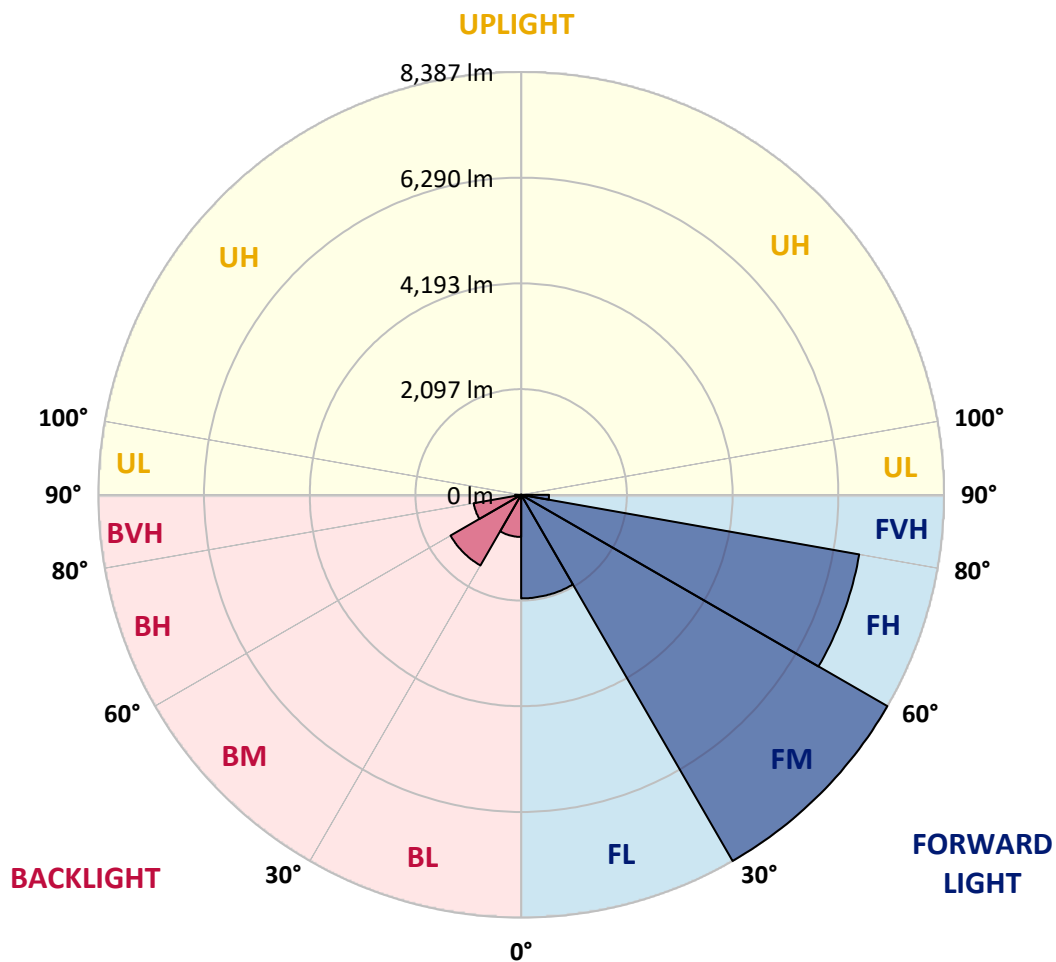
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2054.4	9.6			
FM	(30°-60°)	8386.6	39.3			
FH	(60°-80°)	6809.1	31.9			G3/7500
FVH	(80°-90°)	553.5	2.6			G4/750
BL	(0°-30°)	835.3	3.9	B2/1000		
BM	(30°-60°)	1617.6	7.6	B2/2500		
BH	(60°-80°)	957.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	120.5	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°	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8
2.5°	7489.2	7608.9	7842.2	8017.0	8229.2	8278.5	8346.5	8279.7	8161.2	8004.1	7952.5
5°	7042.4	7298.1	7864.5	8362.9	8806.2	9012.6	9070.1	8900.1	8556.4	8104.9	7829.3
7.5°	6325.9	6689.4	7456.4	8190.5	8843.8	9229.6	9220.2	8825.0	8192.9	7457.6	7015.4
10°	5707.8	6123.0	7002.5	7823.5	8516.6	8890.7	8746.4	8241.0	7486.9	6640.2	6160.5
12.5°	5361.9	5768.8	6661.3	7485.7	8065.1	8194.1	8083.8	7588.9	6878.2	6022.1	5602.3
15°	5302.0	5748.9	6525.2	7196.0	7520.9	7408.3	7277.0	7055.3	6553.4	5822.7	5385.3
17.5°	5561.2	6053.8	6681.2	6994.3	6939.2	6743.4	6705.8	6730.5	6609.7	6044.4	5540.1
20°	6058.5	6649.5	7053.0	6899.3	6497.1	6227.3	6236.7	6613.2	6970.9	6606.1	6030.3
22.5°	6756.3	7430.6	7588.9	6949.8	6310.6	5990.5	6067.9	6677.7	7546.7	7427.1	6691.8
25°	7659.3	8273.8	8160.1	7132.7	6329.4	6019.8	6081.9	6900.5	8226.9	8248.0	7510.3
27.5°	8534.2	9104.1	8639.7	7375.5	6406.8	6089.0	6171.1	7251.2	8876.6	9139.3	8446.2
30°	9216.7	9613.1	8829.7	7597.1	6559.2	6223.8	6325.9	7584.2	9172.1	9740.9	9166.3
32.5°	9782.0	10067.0	9132.3	7871.6	6839.5	6436.1	6615.5	7988.8	9597.9	10313.2	9871.1
35°	10504.4	10585.3	9508.7	8177.6	7272.3	6805.5	7028.3	8385.2	10003.6	10891.4	10565.4
37.5°	11351.1	11246.8	9864.1	8596.3	7831.7	7383.7	7567.8	8820.3	10337.9	11547.0	11274.9
40°	12188.5	11937.5	10309.7	9246.0	8647.9	8065.1	8283.2	9284.7	10649.8	12203.7	11968.0
42.5°	12900.3	12528.6	10749.5	9960.2	9407.9	8816.8	9077.2	9752.7	10947.7	12764.3	12569.6
45°	13426.9	12964.8	11168.2	10646.3	10455.1	9816.0	9939.1	10288.6	11270.2	13232.2	13064.5
47.5°	13897.2	13403.5	11642.0	11338.2	11371.1	11115.4	10917.2	10912.5	11650.2	13614.6	13532.5
50°	14527.0	14012.1	12151.0	12051.3	12745.5	12575.5	12138.1	11640.8	12131.0	14048.5	14039.1
52.5°	15394.8	14976.1	12772.5	12819.4	14028.5	14140.0	13598.1	12515.7	12883.9	14844.8	14788.5
55°	16421.0	16177.0	13619.2	13702.5	15602.4	15682.1	15143.8	13609.9	13991.0	15997.6	15841.6
57.5°	17222.0	17170.4	14548.1	14762.7	16777.5	17136.3	16641.4	14876.4	15238.8	16968.6	16576.9
60°	17541.0	17790.7	15536.7	15832.2	17864.6	18262.2	17828.3	15989.4	16344.7	17370.9	16526.5
62.5°	17368.6	17926.8	16589.8	16565.2	18107.4	18535.4	18230.5	16608.6	17164.5	16955.7	15690.3
65°	16572.3	17437.7	17200.9	16376.4	17277.1	17312.3	17213.8	16331.8	17358.0	15643.4	14074.3
67.5°	14837.7	16083.2	16396.3	14758.0	15037.1	14808.4	14643.1	14816.6	16349.4	13676.7	11828.4
70°	12085.3	13959.3	14109.5	11803.8	11677.2	11523.5	11194.0	12147.4	14359.3	11209.2	9385.6
72.5°	8886.0	10856.2	11317.1	8657.3	8070.9	8102.6	7842.2	9154.6	11674.8	8326.6	7007.2
75°	6079.6	7861.0	8854.3	6040.9	5337.2	5350.1	5317.3	6486.5	9298.8	5792.3	5243.4
77.5°	4441.2	5616.3	6677.7	4061.3	3942.8	3870.1	3852.5	4538.6	7129.2	4205.5	4071.8
80°	3564.0	4149.2	4485.8	2814.6	3026.9	3021.0	2923.7	3120.7	4655.9	3076.1	3045.7
82.5°	2472.2	3188.7	3634.4	2206.0	2042.9	2008.9	2032.4	2324.4	3290.8	2102.8	1999.6
85°	1304.1	2118.0	3599.2	1955.0	1212.6	967.5	1203.3	1903.4	2851.0	1114.1	975.7
87.5°	166.5	612.2	2383.0	779.9	478.5	258.0	571.1	1071.9	1830.7	227.5	198.2
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°	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8
2.5°	7820.0	7664.0	7459.9	7271.1	7075.3	6880.6	6626.1	6466.6	6356.4	6335.2	6288.3
5°	7630.0	7111.6	6719.9	6381.0	6073.7	5639.8	5399.4	5200.0	5093.3	5082.7	5056.9
7.5°	6753.9	6038.5	5509.6	5030.0	4594.9	4244.2	3857.2	3676.6	3602.7	3620.3	3637.9
10°	5842.7	5042.9	4435.4	3945.2	3561.7	3266.1	2955.4	2745.4	2600.0	2570.7	2564.8
12.5°	5176.6	4299.3	3709.4	3363.5	3066.8	2788.8	2459.3	2211.8	2023.0	1958.5	1915.1
15°	4895.1	3935.8	3317.7	2944.8	2617.6	2264.6	1958.5	1699.3	1525.8	1469.5	1437.8
17.5°	4954.9	3834.9	3048.0	2570.7	2152.0	1783.8	1397.9	1176.3	1071.9	1044.9	1044.9
20°	5269.2	3816.2	2825.2	2225.9	1704.0	1277.1	960.5	833.8	799.8	796.3	805.7
22.5°	5710.2	3881.8	2658.6	1926.8	1324.0	932.3	748.2	701.3	686.1	689.6	700.1
25°	6366.9	4103.5	2537.8	1660.6	1039.1	763.5	667.3	639.2	632.1	641.5	654.4
27.5°	7145.6	4325.1	2462.8	1460.1	877.2	697.8	634.5	605.1	609.8	621.6	633.3
30°	7829.3	4506.9	2344.3	1317.0	826.8	701.3	634.5	594.6	589.9	592.2	595.8
32.5°	8442.7	4630.1	2206.0	1181.0	713.0	622.7	592.2	586.4	560.6	551.2	552.4
35°	8971.6	4630.1	2122.7	1101.2	639.2	552.4	503.1	473.8	460.9	462.1	475.0
37.5°	9481.8	4537.4	2081.6	1056.7	599.3	525.4	482.0	456.2	438.6	435.1	437.4
40°	9932.1	4402.5	2034.7	1037.9	568.8	509.0	467.9	446.8	428.1	422.2	423.4
42.5°	10293.3	4293.5	1983.1	1013.3	550.0	497.2	458.5	439.8	418.7	412.8	411.6
45°	10683.8	4257.1	1915.1	964.0	559.4	498.4	456.2	436.3	415.2	408.1	405.8
47.5°	11198.7	4370.9	1844.7	905.4	579.3	504.3	459.7	436.3	414.0	408.1	405.8
50°	11847.2	4638.3	1755.6	819.8	559.4	520.7	458.5	432.7	414.0	408.1	403.4
52.5°	12679.9	4999.5	1638.3	721.2	547.7	560.6	456.2	425.7	408.1	399.9	391.7
55°	13692.0	5295.0	1498.8	640.3	520.7	550.0	452.7	417.5	398.7	387.0	380.0
57.5°	14433.1	5401.7	1319.4	587.6	483.2	532.4	448.0	406.9	387.0	377.6	368.2
60°	14286.5	5195.3	1168.1	554.7	460.9	480.8	444.5	397.6	376.5	369.4	361.2
62.5°	13112.6	4655.9	1070.7	539.5	446.8	438.6	448.0	388.2	367.1	360.0	357.7
65°	11352.3	3859.5	1032.0	536.0	435.1	414.0	416.3	377.6	356.5	350.7	348.3
67.5°	9364.5	3114.8	998.0	547.7	419.8	396.4	384.7	363.6	346.0	340.1	335.4
70°	7384.9	2590.6	982.8	540.6	401.1	378.8	365.9	348.3	333.1	327.2	323.7
72.5°	5947.1	2188.4	974.6	533.6	376.5	355.3	343.6	328.4	312.0	309.6	306.1
75°	5032.3	1720.4	892.5	511.3	348.3	327.2	319.0	304.9	288.5	288.5	286.2
77.5°	3881.8	1244.3	742.4	452.7	319.0	295.5	288.5	277.9	259.2	262.7	261.5
80°	2867.4	811.5	580.5	375.3	282.6	260.4	256.8	246.3	226.3	231.0	231.0
82.5°	1964.4	532.4	417.5	307.3	241.6	220.5	220.5	209.9	187.6	190.0	197.0
85°	986.3	365.9	312.0	238.1	187.6	177.1	177.1	168.9	146.6	147.8	157.1
87.5°	300.2	220.5	206.4	170.0	134.9	132.5	126.7	120.8	106.7	105.5	111.4
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°	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8
2.5°	6216.8	6149.9	6069.0	5890.8	5831.0	5827.4	5881.4	5825.1	5933.0	5887.2	5937.7
5°	5013.5	4947.9	4857.6	4630.1	4491.7	4397.8	4353.3	4221.9	4316.9	4247.7	4305.2
7.5°	3687.2	3702.4	3642.6	3508.9	3207.5	3056.2	2967.1	2887.3	2956.5	2949.5	3059.7
10°	2591.8	2632.8	2590.6	2455.8	2211.8	2128.6	2145.0	2176.6	2266.9	2313.9	2483.9
12.5°	1865.9	1863.5	1836.5	1715.7	1555.1	1564.5	1631.3	1686.4	1769.7	1818.9	1992.5
15°	1393.2	1372.1	1360.4	1261.9	1170.4	1190.3	1223.2	1229.1	1281.8	1311.1	1451.9
17.5°	1053.1	1063.7	1076.6	1006.2	937.0	924.1	898.3	866.7	881.9	887.8	958.1
20°	836.2	878.4	910.1	860.8	790.4	752.9	720.1	699.0	699.0	697.8	717.7
22.5°	730.6	761.1	795.1	761.1	697.8	665.0	646.2	629.8	627.4	627.4	646.2
25°	673.2	695.4	728.3	704.8	657.9	633.3	615.7	594.6	586.4	584.0	596.9
27.5°	645.0	654.4	670.8	649.7	609.8	598.1	593.4	574.7	564.1	558.2	571.1
30°	596.9	594.6	595.8	574.7	543.0	541.8	550.0	553.5	550.0	548.9	568.8
32.5°	552.4	547.7	546.5	527.7	498.4	491.4	498.4	505.5	513.7	525.4	548.9
35°	496.1	507.8	514.8	498.4	463.2	442.1	433.9	421.0	414.0	414.0	441.0
37.5°	451.5	478.5	489.0	473.8	435.1	405.8	391.7	389.4	390.5	395.2	421.0
40°	436.3	456.2	465.6	450.3	411.6	384.7	376.5	374.1	376.5	383.5	409.3
42.5°	426.9	441.0	439.8	421.0	389.4	370.6	365.9	363.6	365.9	372.9	401.1
45°	418.7	428.1	418.7	396.4	367.1	357.7	358.9	357.7	360.0	367.1	394.0
47.5°	411.6	415.2	403.4	381.1	350.7	348.3	353.0	356.5	358.9	364.7	392.9
50°	401.1	401.1	390.5	367.1	336.6	337.8	343.6	351.8	353.0	360.0	382.3
52.5°	388.2	387.0	380.0	357.7	324.9	328.4	328.4	337.8	340.1	348.3	371.8
55°	377.6	375.3	371.8	350.7	314.3	320.2	316.6	320.2	326.0	334.2	360.0
57.5°	368.2	363.6	363.6	344.8	306.1	308.4	300.2	304.9	312.0	319.0	346.0
60°	358.9	354.2	356.5	336.6	293.2	290.8	287.3	296.7	299.1	307.3	334.2
62.5°	348.3	344.8	346.0	327.2	283.8	277.9	277.9	286.2	287.3	299.1	324.9
65°	340.1	335.4	334.2	317.8	273.3	266.2	269.7	273.3	275.6	287.3	312.0
67.5°	331.9	322.5	322.5	309.6	261.5	254.5	261.5	260.4	263.9	274.4	294.4
70°	321.3	308.4	309.6	303.7	249.8	241.6	247.5	246.3	248.6	255.7	275.6
72.5°	304.9	294.4	296.7	294.4	238.1	226.3	228.7	228.7	228.7	234.6	255.7
75°	283.8	275.6	282.6	288.5	224.0	207.6	209.9	209.9	206.4	209.9	235.7
77.5°	258.0	253.3	276.8	268.6	207.6	187.6	187.6	185.3	178.3	183.0	211.1
80°	229.9	226.3	255.7	225.2	188.8	163.0	160.7	154.8	147.8	151.3	179.4
82.5°	200.5	197.0	214.6	172.4	163.0	134.9	129.0	118.4	111.4	114.9	140.7
85°	164.2	164.2	165.4	130.2	124.3	103.2	96.2	82.1	73.9	76.2	100.9
87.5°	117.3	120.8	111.4	89.1	73.9	57.5	52.8	44.6	37.5	43.4	52.8
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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CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8
2.5°	6195.7	6324.7	6471.3	6658.9	6819.6	7083.5	7336.8	7489.2
5°	4632.4	4847.0	5114.4	5458.0	5778.2	6259.0	6736.3	7042.4
7.5°	3315.4	3545.2	3833.7	4263.0	4715.7	5329.0	5960.0	6325.9
10°	2743.1	2978.8	3221.6	3511.2	3881.8	4549.1	5295.0	5707.8
12.5°	2269.3	2521.4	2783.0	3087.9	3431.5	4027.3	4886.9	5361.9
15°	1736.9	2018.3	2326.8	2712.6	3143.0	3831.4	4786.0	5302.0
17.5°	1190.3	1504.6	1883.5	2359.6	2886.2	3768.1	4966.6	5561.2
20°	819.8	1048.4	1453.0	2011.3	2644.6	3759.9	5313.8	6058.5
22.5°	686.1	788.1	1083.6	1691.1	2462.8	3860.7	5852.1	6756.3
25°	634.5	695.4	865.5	1413.2	2330.3	4092.9	6593.2	7659.3
27.5°	604.0	659.1	785.7	1231.4	2225.9	4362.7	7314.5	8534.2
30°	615.7	672.0	763.5	1138.7	2084.0	4587.8	7954.8	9216.7
32.5°	554.7	579.3	654.4	1056.7	1982.0	4776.6	8515.4	9782.0
35°	472.6	516.0	584.0	1018.0	1984.3	4903.3	9126.4	10504.4
37.5°	450.3	493.7	543.0	1003.9	2011.3	5038.2	9827.7	11351.1
40°	436.3	476.1	518.4	995.7	2037.1	5161.3	10515.0	12188.5
42.5°	426.9	463.2	516.0	967.5	2050.0	5271.5	11080.2	12900.3
45°	425.7	463.2	525.4	939.4	2069.9	5390.0	11554.0	13426.9
47.5°	426.9	478.5	507.8	905.4	2069.9	5588.2	12109.9	13897.2
50°	422.2	504.3	489.0	857.3	2021.8	5963.5	12872.2	14527.0
52.5°	419.8	500.8	452.7	783.4	1938.6	6559.2	13849.1	15394.8
55°	414.0	483.2	426.9	673.2	1841.2	7208.9	14895.2	16421.0
57.5°	408.1	428.1	412.8	577.0	1691.1	7666.3	15615.3	17222.0
60°	457.4	374.1	401.1	530.1	1490.6	7791.8	15587.1	17541.0
62.5°	423.4	350.7	385.8	519.5	1349.8	7440.0	14867.1	17368.6
65°	331.9	335.4	370.6	550.0	1312.3	6507.6	13591.1	16572.3
67.5°	303.7	320.2	355.3	588.7	1315.8	5210.6	11684.2	14837.7
70°	286.2	303.7	337.8	608.7	1325.2	3884.2	9237.8	12085.3
72.5°	266.2	281.5	317.8	612.2	1264.2	2821.7	7119.8	8886.0
75°	242.8	256.8	289.7	533.6	1047.3	1957.3	5446.3	6079.6
77.5°	215.8	226.3	254.5	411.6	777.5	1252.5	4088.2	4441.2
80°	184.1	190.0	213.4	301.4	532.4	783.4	3234.5	3564.0
82.5°	147.8	150.1	165.4	226.3	346.0	503.1	2166.1	2472.2
85°	104.4	104.4	113.8	164.2	235.7	319.0	1176.3	1304.1
87.5°	49.3	50.4	50.4	90.3	123.1	161.8	270.9	166.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)