

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: P192093

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192093
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 26145 lumens
Efficiency: N/A
Efficacy: 93.7 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

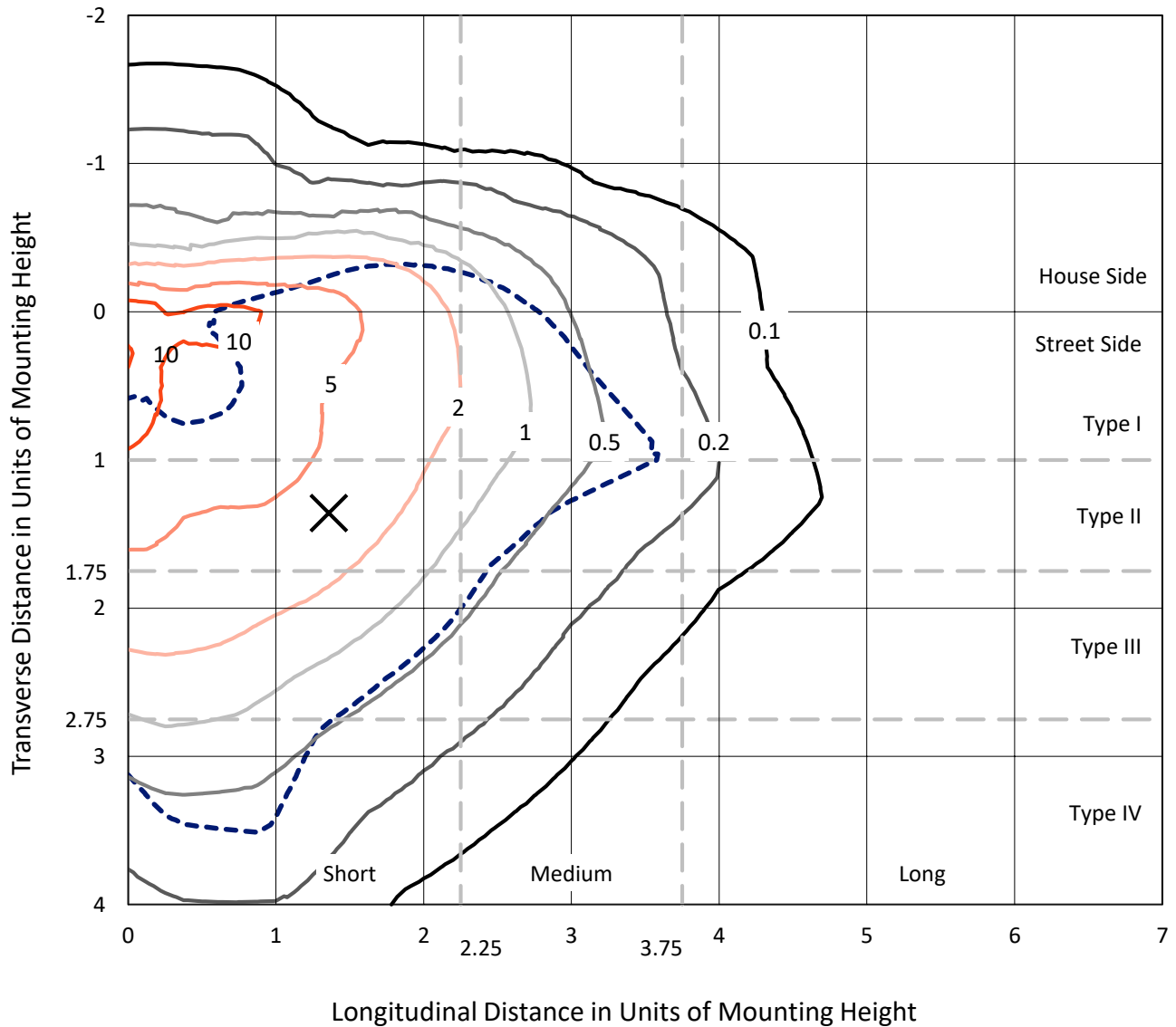
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

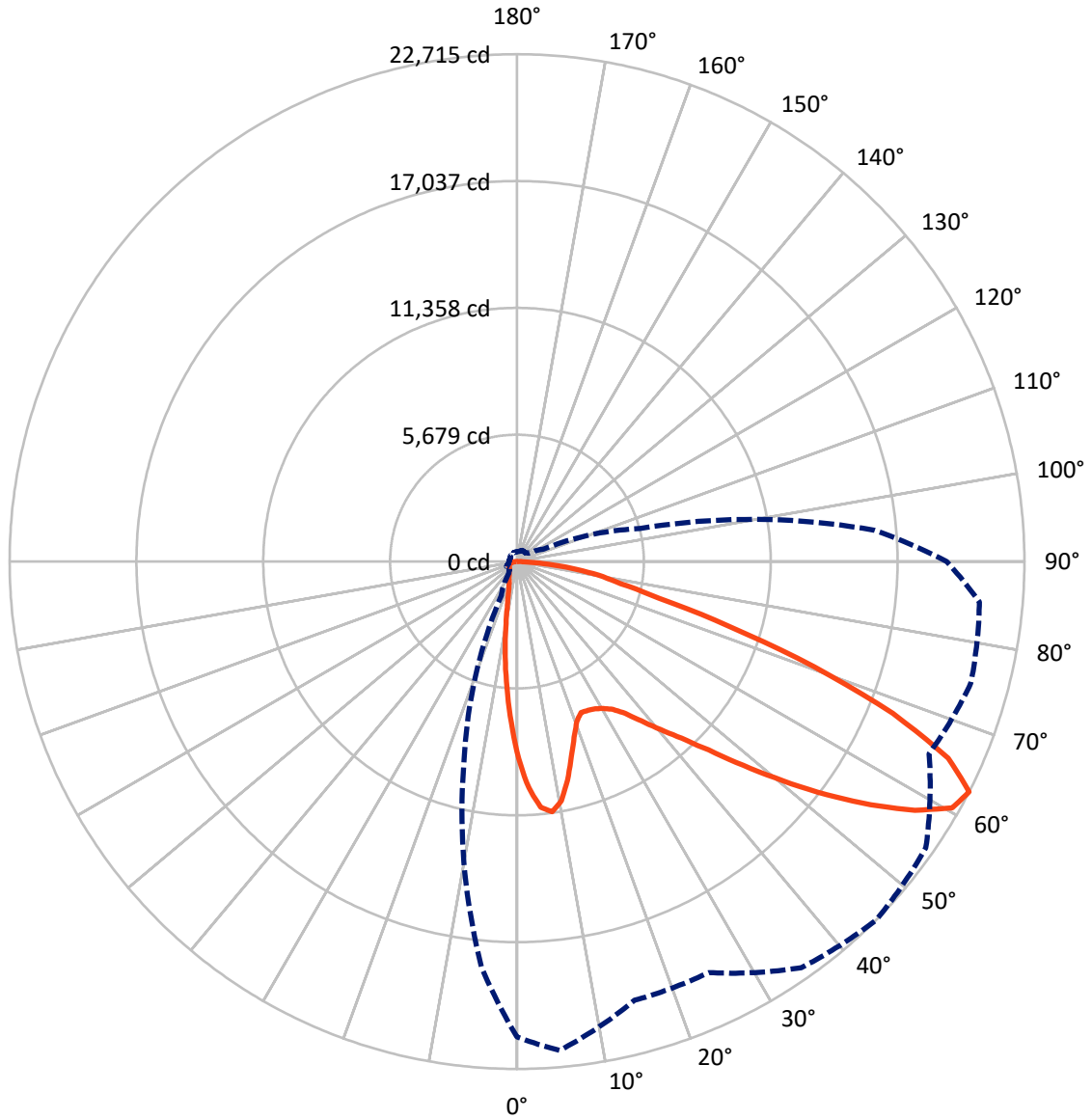
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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	4326.6	0.0	4326.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21818.4	0.0	21818.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	26145.0	0.0	26145.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.0	2.5
10°-20°	1179.1	4.5
20°-30°	1719.2	6.6
30°-40°	2647.7	10.1
40°-50°	3896.8	14.9
50°-60°	5715.7	21.9
60°-70°	6389.4	24.4
70°-80°	3128.2	12.0
80°-90°	825.9	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°	26145.0	100.0
0°-180°	26145.0	100.0



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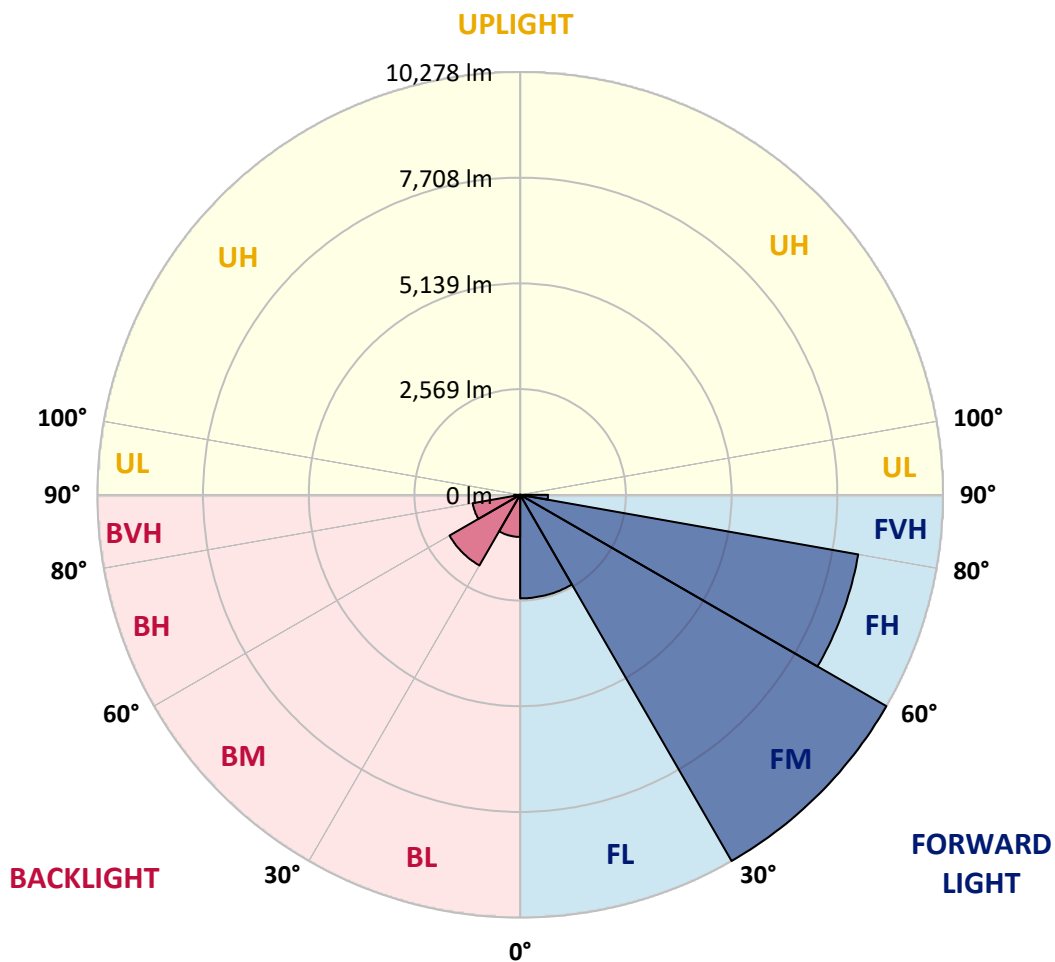
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2517.7	9.6			
FM	(30°-60°)	10277.8	39.3			
FH	(60°-80°)	8344.6	31.9			G4/12000
FVH	(80°-90°)	678.3	2.6			G4/750
BL	(0°-30°)	1023.6	3.9	B3/2500		
BM	(30°-60°)	1982.4	7.6	B2/2500		
BH	(60°-80°)	1173.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	147.6	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°	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2
2.5°	9178.1	9324.7	9610.7	9824.9	10085.0	10145.4	10228.7	10146.8	10001.7	9809.1	9745.8
5°	8630.5	8943.9	9638.0	10248.9	10792.1	11045.1	11115.5	10907.1	10486.0	9932.7	9594.9
7.5°	7752.4	8197.9	9137.9	10037.6	10838.1	11311.0	11299.5	10815.1	10040.5	9139.3	8597.5
10°	6995.0	7503.8	8581.7	9587.7	10437.1	10895.6	10718.8	10099.4	9175.2	8137.6	7549.7
12.5°	6571.0	7069.7	8163.4	9173.8	9883.8	10041.9	9906.8	9300.3	8429.3	7380.2	6865.6
15°	6497.7	7045.3	7996.7	8818.8	9216.9	9079.0	8918.0	8646.4	8031.2	7135.8	6599.7
17.5°	6815.3	7419.0	8187.9	8571.6	8504.1	8264.0	8218.1	8248.2	8100.2	7407.5	6789.5
20°	7424.7	8149.1	8643.5	8455.2	7962.2	7631.7	7643.2	8104.5	8542.9	8095.9	7390.2
22.5°	8279.9	9106.3	9300.3	8517.0	7733.7	7341.3	7436.2	8183.6	9248.5	9102.0	8200.8
25°	9386.5	10139.6	10000.2	8741.2	7756.7	7377.3	7453.5	8456.6	10082.1	10108.0	9204.0
27.5°	10458.7	11157.2	10588.0	9038.7	7851.6	7462.1	7562.7	8886.4	10878.4	11200.3	10350.9
30°	11295.2	11780.9	10820.9	9310.3	8038.4	7627.4	7752.4	9294.5	11240.5	11937.6	11233.4
32.5°	11987.9	12337.1	11191.7	9646.7	8381.9	7887.5	8107.4	9790.4	11762.3	12639.0	12097.1
35°	12873.2	12972.4	11653.0	10021.8	8912.2	8340.2	8613.3	10276.2	12259.5	13347.5	12948.0
37.5°	13910.9	13783.0	12088.5	10534.9	9597.8	9048.8	9274.4	10809.4	12669.1	14150.9	13817.5
40°	14937.1	14629.5	12634.7	11331.1	10598.1	9883.8	10151.1	11378.5	13051.4	14955.8	14666.9
42.5°	15809.5	15353.9	13173.6	12206.4	11529.4	10805.1	11124.1	11952.0	13416.5	15642.8	15404.2
45°	16454.8	15888.5	13686.7	13047.1	12812.9	12029.6	12180.5	12608.8	13811.7	16216.2	16010.7
47.5°	17031.1	16426.1	14267.3	13895.1	13935.3	13622.0	13379.1	13373.4	14277.4	16684.8	16584.1
50°	17802.9	17172.0	14891.1	14768.9	15619.8	15411.4	14875.3	14265.9	14866.7	17216.5	17205.0
52.5°	18866.5	18353.4	15652.8	15710.3	17192.1	17328.6	16664.6	15338.1	15789.4	18192.4	18123.4
55°	20124.0	19825.1	16690.5	16792.5	19120.9	19218.6	18558.9	16679.0	17146.1	19605.2	19414.0
57.5°	21105.7	21042.4	17828.8	18091.8	20561.0	21000.7	20394.2	18231.2	18675.3	20795.2	20315.2
60°	21496.6	21802.7	19040.4	19402.5	21893.3	22380.5	21848.7	19595.1	20030.6	21288.2	20253.4
62.5°	21285.3	21969.4	20331.0	20300.8	22190.8	22715.4	22341.7	20354.0	21035.2	20779.4	19228.6
65°	20309.4	21370.1	21079.8	20069.4	21173.2	21216.3	21095.6	20014.8	21272.4	19171.2	17248.1
67.5°	18183.8	19710.1	20093.9	18086.0	18428.1	18147.8	17945.2	18157.9	20036.4	16760.9	14495.9
70°	14810.6	17107.3	17291.3	14465.7	14310.5	14122.2	13718.3	14886.8	17597.4	13737.0	11502.1
72.5°	10889.9	13304.4	13869.2	10609.6	9891.0	9929.8	9610.7	11219.0	14307.6	10204.3	8587.4
75°	7450.6	9633.7	10851.1	7403.1	6540.8	6556.6	6516.4	7949.3	11395.8	7098.5	6425.8
77.5°	5442.8	6882.9	8183.6	4977.1	4832.0	4742.8	4721.3	5562.1	8736.9	5153.9	4990.0
80°	4367.7	5084.9	5497.4	3449.3	3709.5	3702.3	3583.0	3824.5	5705.8	3769.8	3732.5
82.5°	3029.7	3907.8	4454.0	2703.4	2503.6	2462.0	2490.7	2848.6	4032.9	2576.9	2450.5
85°	1598.2	2595.6	4410.8	2395.9	1486.1	1185.7	1474.6	2332.6	3493.9	1365.4	1195.8
87.5°	204.1	750.2	2920.4	955.8	586.4	316.2	699.9	1313.6	2243.5	278.8	242.9
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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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2
2.5°	9583.4	9392.3	9142.2	8910.8	8670.8	8432.2	8120.3	7924.9	7789.8	7763.9	7706.4
5°	9350.6	8715.3	8235.3	7819.9	7443.4	6911.6	6617.0	6372.7	6241.9	6228.9	6197.3
7.5°	8277.0	7400.3	6752.1	6164.3	5631.1	5201.3	4727.0	4505.7	4415.2	4436.7	4458.3
10°	7160.3	6180.1	5435.6	4834.8	4364.9	4002.7	3621.8	3364.5	3186.3	3150.4	3143.2
12.5°	6343.9	5268.9	4545.9	4122.0	3758.3	3417.7	3013.9	2710.6	2479.2	2400.2	2347.0
15°	5999.0	4823.3	4065.9	3608.9	3207.9	2775.3	2400.2	2082.5	1869.8	1800.8	1762.0
17.5°	6072.3	4699.7	3735.3	3150.4	2637.3	2186.0	1713.2	1441.5	1313.6	1280.6	1280.6
20°	6457.5	4676.7	3462.3	2727.9	2088.3	1565.1	1177.1	1021.9	980.2	975.9	987.4
22.5°	6997.9	4757.2	3258.2	2361.4	1622.6	1142.6	917.0	859.5	840.8	845.1	858.0
25°	7802.7	5028.9	3110.2	2035.1	1273.4	935.6	817.8	783.3	774.7	786.2	802.0
27.5°	8757.0	5300.5	3018.2	1789.3	1075.0	855.1	777.5	741.6	747.4	761.7	776.1
30°	9594.9	5523.3	2873.0	1614.0	1013.2	859.5	777.5	728.7	722.9	725.8	730.1
32.5°	10346.6	5674.2	2703.4	1447.3	873.8	763.2	725.8	718.6	687.0	675.5	676.9
35°	10994.8	5674.2	2601.4	1349.6	783.3	676.9	616.6	580.6	564.8	566.3	582.1
37.5°	11620.0	5560.6	2551.1	1294.9	734.4	643.9	590.7	559.1	537.5	533.2	536.1
40°	12171.9	5395.3	2493.6	1271.9	697.1	623.8	573.5	547.6	524.6	517.4	518.8
42.5°	12614.5	5261.7	2430.3	1241.8	674.1	609.4	562.0	539.0	513.1	505.9	504.5
45°	13093.1	5217.1	2347.0	1181.4	685.6	610.8	559.1	534.6	508.8	500.2	497.3
47.5°	13724.1	5356.5	2260.8	1109.5	710.0	618.0	563.4	534.6	507.3	500.2	497.3
50°	14518.9	5684.2	2151.5	1004.6	685.6	638.1	562.0	530.3	507.3	500.2	494.4
52.5°	15539.3	6126.9	2007.8	883.9	671.2	687.0	559.1	521.7	500.2	490.1	480.0
55°	16779.6	6489.1	1836.8	784.7	638.1	674.1	554.8	511.7	488.7	474.3	465.7
57.5°	17687.9	6619.9	1616.9	720.1	592.1	652.5	549.0	498.7	474.3	462.8	451.3
60°	17508.3	6366.9	1431.5	679.8	564.8	589.3	544.7	487.2	461.3	452.7	442.7
62.5°	16069.6	5705.8	1312.2	661.1	547.6	537.5	549.0	475.7	449.9	441.2	438.4
65°	13912.3	4729.9	1264.8	656.8	533.2	507.3	510.2	462.8	436.9	429.7	426.9
67.5°	11476.2	3817.3	1223.1	671.2	514.5	485.8	471.4	445.5	424.0	416.8	411.0
70°	9050.2	3174.8	1204.4	662.6	491.5	464.2	448.4	426.9	408.2	401.0	396.7
72.5°	7288.2	2681.9	1194.3	653.9	461.3	435.5	421.1	402.4	382.3	379.4	375.1
75°	6167.1	2108.4	1093.7	626.6	426.9	401.0	390.9	373.7	353.6	353.6	350.7
77.5°	4757.2	1524.9	909.8	554.8	390.9	362.2	353.6	340.6	317.6	321.9	320.5
80°	3514.0	994.6	711.4	459.9	346.4	319.1	314.8	301.8	277.4	283.1	283.1
82.5°	2407.4	652.5	511.7	376.6	296.1	270.2	270.2	257.3	230.0	232.8	241.5
85°	1208.7	448.4	382.3	291.8	230.0	217.0	217.0	207.0	179.7	181.1	192.6
87.5°	367.9	270.2	253.0	208.4	165.3	162.4	155.2	148.0	130.8	129.4	136.5
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°	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2
2.5°	7618.7	7536.8	7437.6	7219.2	7145.9	7141.6	7207.7	7138.7	7270.9	7214.9	7276.7
5°	6144.1	6063.7	5953.0	5674.2	5504.6	5389.6	5335.0	5174.0	5290.4	5205.6	5276.1
7.5°	4518.6	4537.3	4464.0	4300.2	3930.8	3745.4	3636.2	3538.4	3623.2	3614.6	3749.7
10°	3176.3	3226.6	3174.8	3009.6	2710.6	2608.6	2628.7	2667.5	2778.2	2835.6	3044.0
12.5°	2286.6	2283.8	2250.7	2102.7	1905.8	1917.3	1999.2	2066.7	2168.8	2229.1	2441.8
15°	1707.4	1681.6	1667.2	1546.5	1434.4	1458.8	1499.0	1506.2	1570.9	1606.8	1779.3
17.5°	1290.6	1303.6	1319.4	1233.1	1148.3	1132.5	1100.9	1062.1	1080.8	1088.0	1174.2
20°	1024.7	1076.5	1115.3	1054.9	968.7	922.7	882.5	856.6	856.6	855.1	879.6
22.5°	895.4	932.8	974.4	932.8	855.1	814.9	791.9	771.8	768.9	768.9	791.9
25°	825.0	852.3	892.5	863.8	806.3	776.1	754.5	728.7	718.6	715.7	731.5
27.5°	790.5	802.0	822.1	796.2	747.4	733.0	727.2	704.2	691.3	684.1	699.9
30°	731.5	728.7	730.1	704.2	665.4	664.0	674.1	678.4	674.1	672.6	697.1
32.5°	676.9	671.2	669.7	646.8	610.8	602.2	610.8	619.4	629.5	643.9	672.6
35°	607.9	622.3	630.9	610.8	567.7	541.8	531.8	516.0	507.3	507.3	540.4
37.5°	553.3	586.4	599.3	580.6	533.2	497.3	480.0	477.2	478.6	484.3	516.0
40°	534.6	559.1	570.6	551.9	504.5	471.4	461.3	458.5	461.3	470.0	501.6
42.5°	523.2	540.4	539.0	516.0	477.2	454.2	448.4	445.5	448.4	457.0	491.5
45°	513.1	524.6	513.1	485.8	449.9	438.4	439.8	438.4	441.2	449.9	482.9
47.5°	504.5	508.8	494.4	467.1	429.7	426.9	432.6	436.9	439.8	447.0	481.5
50°	491.5	491.5	478.6	449.9	412.5	413.9	421.1	431.2	432.6	441.2	468.5
52.5°	475.7	474.3	465.7	438.4	398.1	402.4	402.4	413.9	416.8	426.9	455.6
55°	462.8	459.9	455.6	429.7	385.2	392.4	388.1	392.4	399.5	409.6	441.2
57.5°	451.3	445.5	445.5	422.5	375.1	378.0	367.9	373.7	382.3	390.9	424.0
60°	439.8	434.0	436.9	412.5	359.3	356.4	352.1	363.6	366.5	376.6	409.6
62.5°	426.9	422.5	424.0	401.0	347.8	340.6	340.6	350.7	352.1	366.5	398.1
65°	416.8	411.0	409.6	389.5	334.9	326.3	330.6	334.9	337.7	352.1	382.3
67.5°	406.7	395.2	395.2	379.4	320.5	311.9	320.5	319.1	323.4	336.3	360.7
70°	393.8	378.0	379.4	372.2	306.1	296.1	303.3	301.8	304.7	313.3	337.7
72.5°	373.7	360.7	363.6	360.7	291.8	277.4	280.3	280.3	280.3	287.4	313.3
75°	347.8	337.7	346.4	353.6	274.5	254.4	257.3	257.3	253.0	257.3	288.9
77.5°	316.2	310.4	339.2	329.1	254.4	230.0	230.0	227.1	218.5	224.2	258.7
80°	281.7	277.4	313.3	275.9	231.4	199.8	196.9	189.7	181.1	185.4	219.9
82.5°	245.8	241.5	263.0	211.3	199.8	165.3	158.1	145.2	136.5	140.8	172.5
85°	201.2	201.2	202.6	159.5	152.3	126.5	117.9	100.6	90.5	93.4	123.6
87.5°	143.7	148.0	136.5	109.2	90.5	70.4	64.7	54.6	46.0	53.2	64.7
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-7050

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2
2.5°	7592.9	7751.0	7930.6	8160.6	8357.5	8680.8	8991.3	9178.1
5°	5677.0	5940.1	6267.7	6688.8	7081.2	7670.5	8255.4	8630.5
7.5°	4063.0	4344.7	4698.3	5224.3	5779.1	6530.8	7304.0	7752.4
10°	3361.7	3650.6	3948.1	4303.1	4757.2	5575.0	6489.1	6995.0
12.5°	2781.0	3090.0	3410.5	3784.2	4205.3	4935.4	5988.9	6571.0
15°	2128.5	2473.5	2851.5	3324.3	3851.8	4695.4	5865.3	6497.7
17.5°	1458.8	1844.0	2308.2	2891.7	3537.0	4617.8	6086.7	6815.3
20°	1004.6	1284.9	1780.7	2464.8	3240.9	4607.7	6512.1	7424.7
22.5°	840.8	965.8	1328.0	2072.5	3018.2	4731.3	7171.8	8279.9
25°	777.5	852.3	1060.7	1731.9	2855.8	5015.9	8080.1	9386.5
27.5°	740.2	807.7	962.9	1509.1	2727.9	5346.5	8964.0	10458.7
30°	754.5	823.5	935.6	1395.5	2554.0	5622.4	9748.7	11295.2
32.5°	679.8	710.0	802.0	1294.9	2428.9	5853.8	10435.7	11987.9
35°	579.2	632.4	715.7	1247.5	2431.8	6009.0	11184.5	12873.2
37.5°	551.9	605.1	665.4	1230.3	2464.8	6174.3	12044.0	13910.9
40°	534.6	583.5	635.3	1220.2	2496.5	6325.2	12886.2	14937.1
42.5°	523.2	567.7	632.4	1185.7	2512.3	6460.3	13578.9	15809.5
45°	521.7	567.7	643.9	1151.2	2536.7	6605.5	14159.5	16454.8
47.5°	523.2	586.4	622.3	1109.5	2536.7	6848.4	14840.8	17031.1
50°	517.4	618.0	599.3	1050.6	2477.8	7308.3	15775.0	17802.9
52.5°	514.5	613.7	554.8	960.1	2375.7	8038.4	16972.2	18866.5
55°	507.3	592.1	523.2	825.0	2256.4	8834.6	18254.2	20124.0
57.5°	500.2	524.6	505.9	707.1	2072.5	9395.1	19136.7	21105.7
60°	560.5	458.5	491.5	649.6	1826.7	9548.9	19102.2	21496.6
62.5°	518.8	429.7	472.8	636.7	1654.2	9117.8	18219.7	21285.3
65°	406.7	411.0	454.2	674.1	1608.3	7975.2	16656.0	20309.4
67.5°	372.2	392.4	435.5	721.5	1612.6	6385.6	14319.1	18183.8
70°	350.7	372.2	413.9	745.9	1624.1	4760.1	11321.0	14810.6
72.5°	326.3	344.9	389.5	750.2	1549.3	3458.0	8725.4	10889.9
75°	297.5	314.8	355.0	653.9	1283.4	2398.7	6674.5	7450.6
77.5°	264.4	277.4	311.9	504.5	952.9	1535.0	5010.2	5442.8
80°	225.6	232.8	261.6	369.4	652.5	960.1	3963.9	4367.7
82.5°	181.1	184.0	202.6	277.4	424.0	616.6	2654.6	3029.7
85°	127.9	127.9	139.4	201.2	288.9	390.9	1441.5	1598.2
87.5°	60.4	61.8	61.8	110.7	150.9	198.3	332.0	204.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)