

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: P192143

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192143
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-SLR-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28681 lumens
Efficiency: N/A
Efficacy: 89.6 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): 320
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

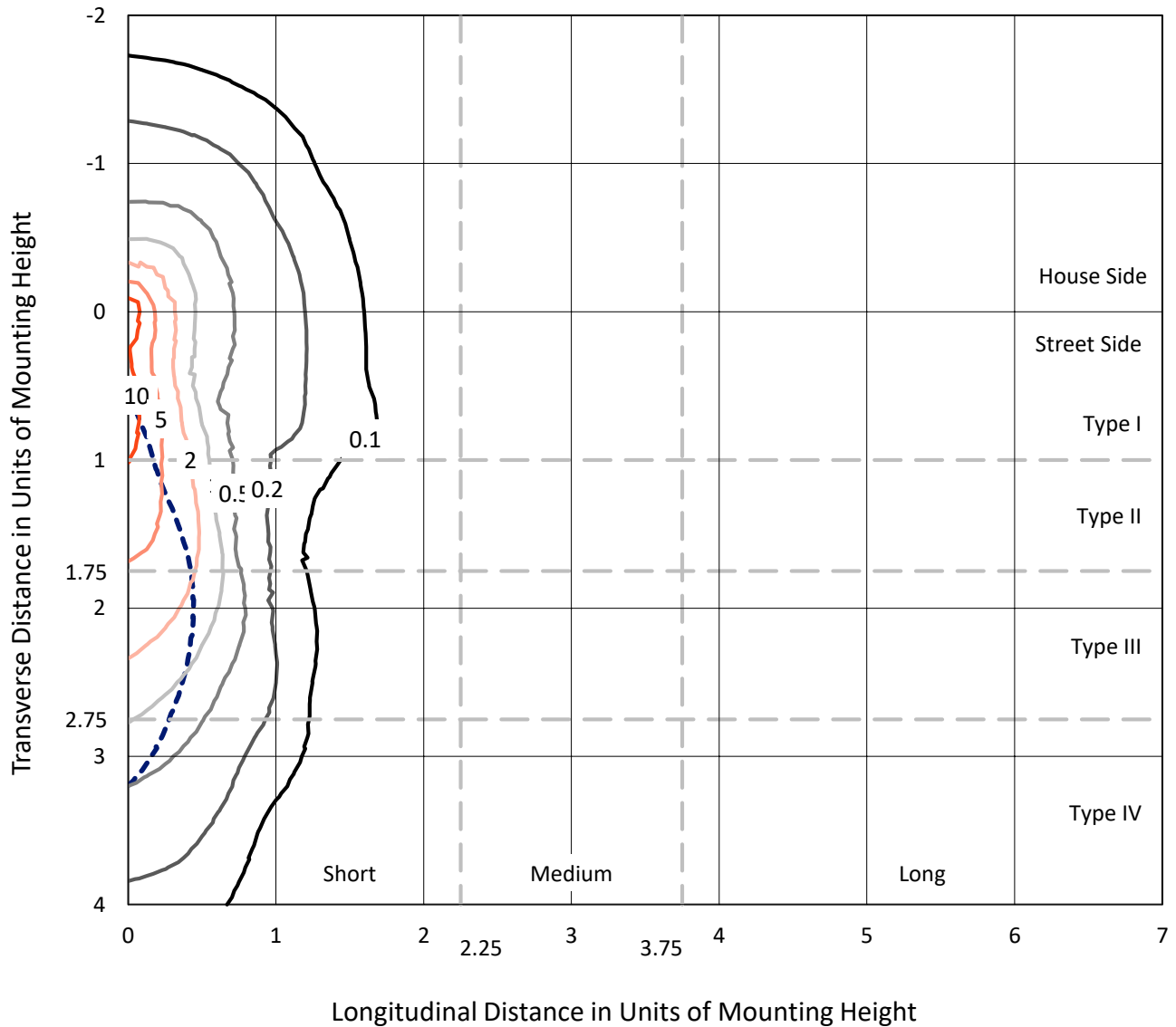


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

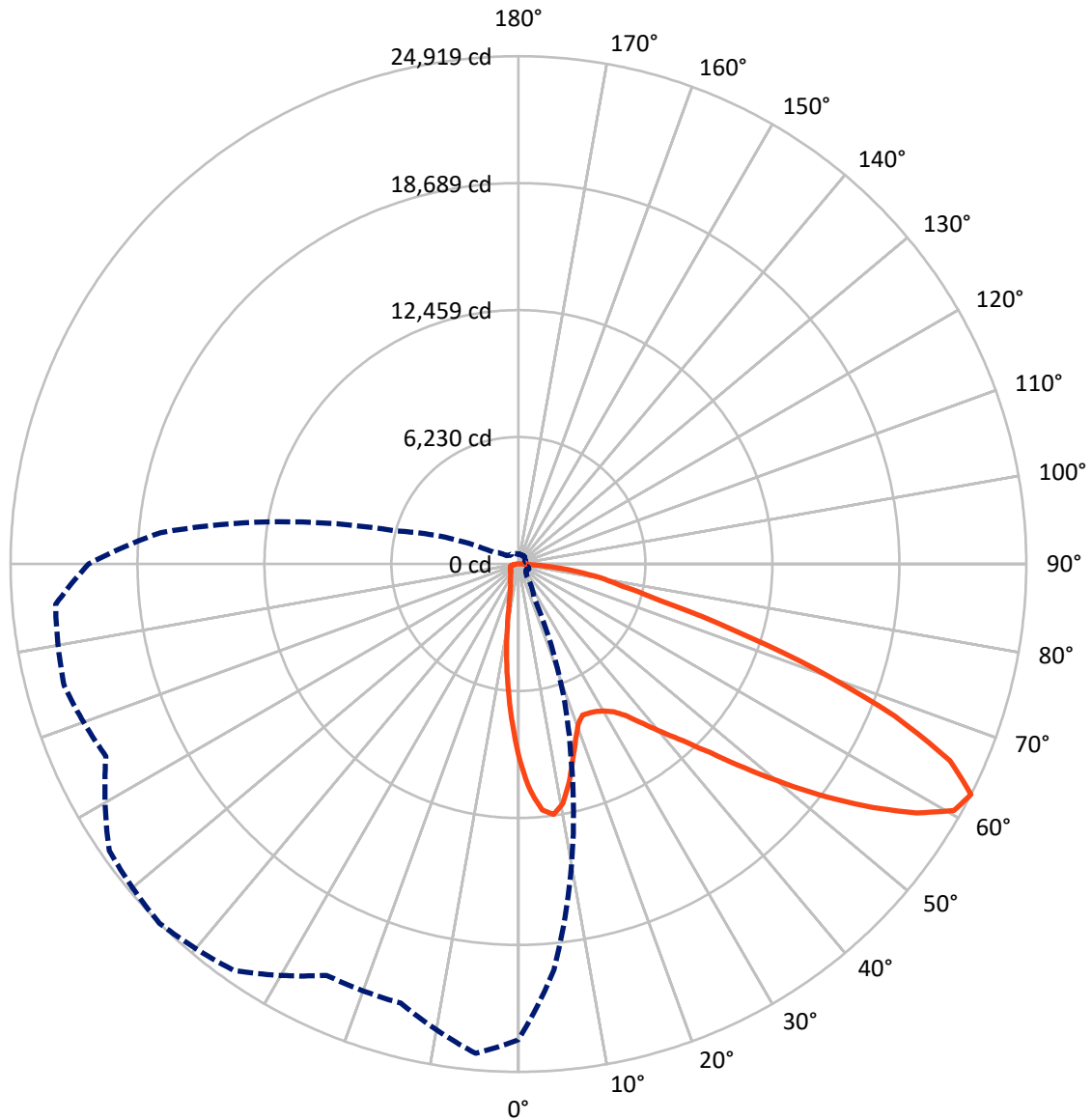


Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4746.3	0.0	4746.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	23934.7	0.0	23934.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	28681.0	0.0	28681.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.4	2.5
10°-20°	1293.5	4.5
20°-30°	1885.9	6.6
30°-40°	2904.6	10.1
40°-50°	4274.8	14.9
50°-60°	6270.2	21.9
60°-70°	7009.1	24.4
70°-80°	3431.6	12.0
80°-90°	906.0	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°	28681.0	100.0
0°-180°	28681.0	100.0



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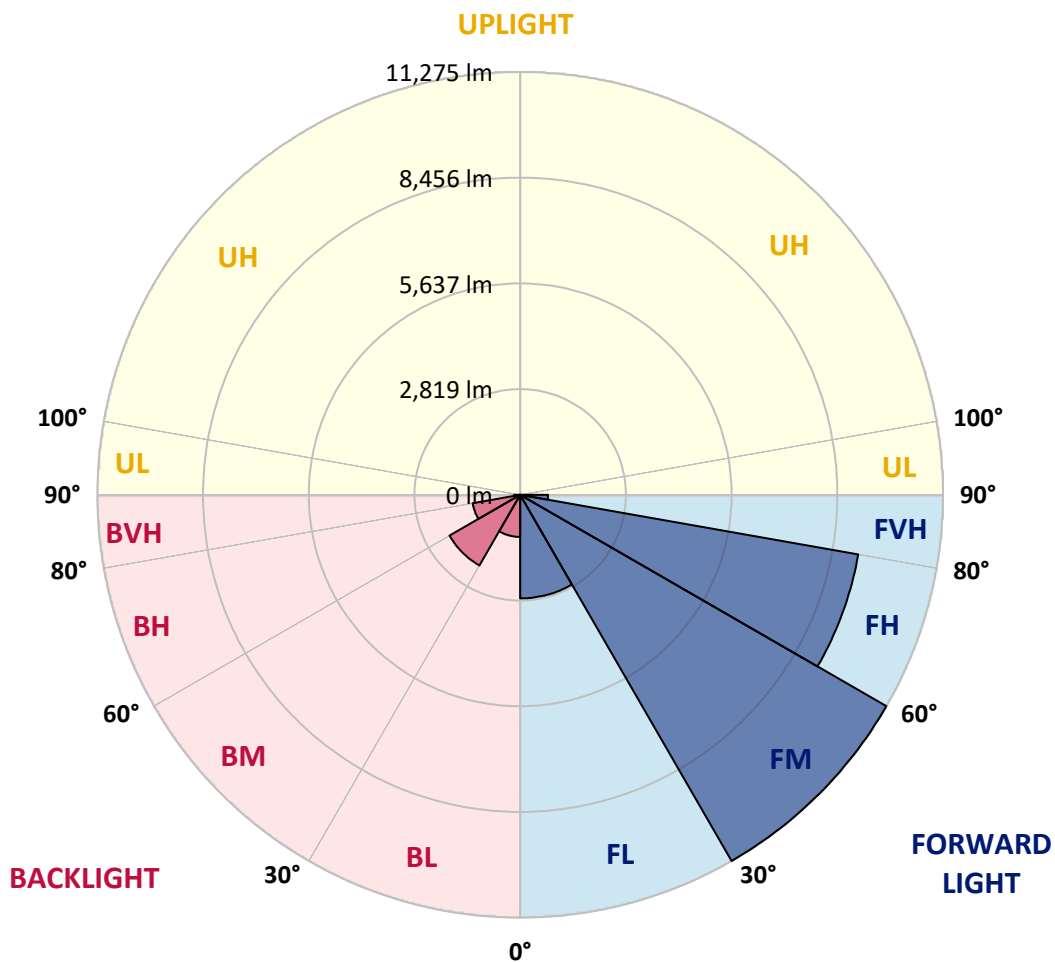
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2761.9	9.6			
FM (30°-60°)	11274.8	39.3			
FH (60°-80°)	9154.0	31.9			G4/12000
FVH (80°-90°)	744.1	2.6			G4/750
BL (0°-30°)	1122.9	3.9	B3/2500		
BM (30°-60°)	2174.7	7.6	B2/2500		
BH (60°-80°)	1286.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	162.0	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°	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0
2.5°	10068.4	9863.4	9522.9	9168.1	8952.1	8699.9	8502.8	8329.4	7982.5	7914.7	7976.2
5°	9467.7	9056.2	8414.5	7768.1	7337.7	6875.7	6516.2	6227.7	5787.8	5710.6	5803.6
7.5°	8504.4	8012.4	7164.2	6339.6	5731.1	5154.0	4766.2	4457.1	4113.4	3965.2	3974.7
10°	7673.5	7118.5	6115.8	5218.7	4720.4	4331.0	4004.6	3687.7	3339.3	3110.7	3047.6
12.5°	7208.4	6569.8	5414.2	4613.2	4151.3	3741.4	3389.8	3050.8	2678.7	2445.4	2379.1
15°	7128.0	6434.2	5150.9	4225.4	3646.8	3128.0	2713.4	2335.0	1951.9	1762.7	1723.3
17.5°	7476.4	6677.0	5065.7	3880.1	3172.2	2532.1	2022.8	1600.3	1288.1	1193.5	1185.6
20°	8144.9	7143.7	5054.7	3555.3	2703.9	1953.4	1409.5	1102.1	964.9	938.1	939.7
22.5°	9083.0	7867.4	5190.3	3310.9	2273.5	1456.8	1059.5	922.3	868.7	843.5	843.5
25°	10297.0	8863.8	5502.4	3132.8	1899.8	1163.6	934.9	853.0	802.5	785.2	788.3
27.5°	11473.2	9833.5	5865.1	2992.4	1655.5	1056.3	886.1	812.0	767.8	750.5	758.4
30°	12390.8	10694.3	6167.8	2801.7	1530.9	1026.4	903.4	827.7	764.7	737.9	739.4
32.5°	13150.7	11447.9	6421.6	2664.5	1420.5	879.8	778.9	745.7	737.9	706.3	690.6
35°	14121.9	12269.4	6591.9	2667.7	1368.5	785.2	693.7	635.4	592.8	556.6	556.6
37.5°	15260.2	13212.2	6773.2	2703.9	1349.6	730.0	663.8	605.4	566.0	531.3	525.0
40°	16385.9	14136.1	6938.8	2738.6	1338.6	696.9	640.1	586.5	550.2	515.6	506.1
42.5°	17343.0	14896.0	7087.0	2756.0	1300.7	693.7	622.8	573.9	539.2	501.4	491.9
45°	18050.9	15533.0	7246.2	2782.8	1262.9	706.3	622.8	572.3	529.7	493.5	484.0
47.5°	18683.1	16280.3	7512.7	2782.8	1217.2	682.7	643.3	573.9	528.2	490.3	482.4
50°	19529.8	17305.1	8017.2	2718.1	1152.5	657.5	678.0	567.6	514.0	484.0	474.6
52.5°	20696.5	18618.5	8818.1	2606.2	1053.2	608.6	673.2	564.4	499.8	468.3	457.2
55°	22076.0	20024.8	9691.6	2475.3	905.0	573.9	649.6	556.6	484.0	449.3	438.3
57.5°	23152.9	20992.9	10306.5	2273.5	775.7	555.0	575.5	548.7	465.1	428.8	419.4
60°	23581.7	20955.0	10475.2	2003.9	712.6	539.2	502.9	614.9	449.3	413.1	402.0
62.5°	23349.9	19987.0	10002.2	1814.7	698.4	518.7	471.4	569.2	436.7	402.0	386.3
65°	22279.4	18271.6	8748.7	1764.3	739.4	498.2	450.9	446.2	419.4	386.3	370.5
67.5°	19947.6	15708.0	7005.0	1769.0	791.5	477.7	430.4	408.3	395.7	368.9	354.7
70°	16247.2	12419.1	5221.8	1781.6	818.3	454.1	408.3	384.7	370.5	343.7	334.2
72.5°	11946.1	9571.7	3793.4	1699.6	823.0	427.3	378.4	357.9	343.7	315.3	307.4
75°	8173.3	7321.9	2631.4	1407.9	717.4	389.4	345.3	326.4	316.9	282.2	277.5
77.5°	5970.7	5496.1	1683.8	1045.3	553.4	342.1	304.3	290.1	283.8	246.0	239.6
80°	4791.4	4348.4	1053.2	715.8	405.2	286.9	255.4	247.5	241.2	203.4	198.7
82.5°	3323.5	2912.0	676.4	465.1	304.3	222.3	201.8	198.7	189.2	154.5	149.8
85°	1753.2	1581.4	428.8	316.9	220.7	152.9	140.3	140.3	135.6	102.5	99.3
87.5°	223.9	364.2	217.6	165.5	121.4	67.8	67.8	66.2	70.9	58.3	50.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0
2.5°	7831.1	7906.8	7834.3	7839.0	7919.4	8159.1	8267.9	8357.7	8453.9	8517.0	8545.4
5°	5675.9	5852.5	5912.4	6038.5	6224.5	6530.4	6651.8	6740.1	6798.4	6833.1	6847.3
7.5°	3881.7	3988.9	4108.7	4312.1	4717.3	4897.0	4977.4	4956.9	4890.7	4867.1	4843.4
10°	2926.2	2883.7	2861.6	2973.5	3301.5	3482.8	3539.5	3484.4	3448.1	3456.0	3495.4
12.5°	2267.2	2193.1	2103.2	2090.6	2306.6	2469.0	2505.3	2508.4	2574.6	2633.0	2719.7
15°	1652.3	1644.4	1600.3	1573.5	1696.5	1828.9	1844.7	1873.0	1933.0	1975.5	2051.2
17.5°	1165.1	1207.7	1242.4	1259.7	1352.8	1447.3	1430.0	1415.8	1404.8	1404.8	1441.0
20°	939.7	968.1	1012.2	1062.7	1157.2	1223.5	1180.9	1124.1	1083.1	1070.5	1075.3
22.5°	846.7	868.7	894.0	938.1	1023.2	1069.0	1023.2	982.2	941.2	927.1	922.3
25°	799.4	827.7	851.4	884.5	947.6	979.1	934.9	905.0	879.8	862.4	849.8
27.5°	772.6	797.8	804.1	819.8	873.5	901.8	879.8	867.1	851.4	835.6	819.8
30°	744.2	739.4	728.4	730.0	772.6	800.9	799.4	802.5	800.9	796.2	793.0
32.5°	679.5	670.1	660.6	670.1	709.5	734.7	736.3	742.6	742.6	741.0	753.6
35°	566.0	583.4	594.4	622.8	670.1	692.1	682.7	666.9	638.5	621.2	619.6
37.5°	523.4	526.6	545.5	584.9	637.0	657.5	643.3	607.0	588.1	584.9	589.7
40°	502.9	506.1	517.1	553.4	605.4	625.9	613.3	586.5	569.2	567.6	575.5
42.5°	488.8	491.9	498.2	523.4	566.0	591.2	592.8	573.9	553.4	555.0	562.9
45°	480.9	482.4	480.9	493.5	532.9	562.9	575.5	562.9	545.5	548.7	558.1
47.5°	479.3	474.6	468.3	471.4	512.4	542.4	558.1	553.4	545.5	548.7	556.6
50°	473.0	462.0	454.1	452.5	493.5	525.0	539.2	539.2	542.4	548.7	556.6
52.5°	454.1	441.5	441.5	436.7	480.9	510.8	520.3	521.9	526.6	537.6	548.7
55°	430.4	425.7	430.4	422.5	471.4	499.8	504.5	507.7	510.8	520.3	536.1
57.5°	409.9	403.6	414.7	411.5	463.5	488.8	488.8	495.1	495.1	507.7	520.3
60°	398.9	386.3	391.0	394.2	452.5	479.3	476.1	482.4	485.6	496.6	506.1
62.5°	384.7	373.7	373.7	381.5	439.9	465.1	463.5	468.3	480.9	484.0	493.5
65°	367.4	362.6	357.9	367.4	427.3	449.3	450.9	457.2	468.3	471.4	479.3
67.5°	350.0	351.6	342.1	351.6	416.2	433.6	433.6	446.2	450.9	457.2	465.1
70°	331.1	332.7	324.8	335.8	408.3	416.2	414.7	432.0	435.2	439.9	447.8
72.5°	307.4	307.4	304.3	320.1	395.7	398.9	395.7	409.9	411.5	416.2	419.4
75°	282.2	282.2	279.1	301.1	387.9	380.0	370.5	381.5	384.7	387.9	387.9
77.5°	249.1	252.3	252.3	279.1	361.0	372.1	340.6	346.9	351.6	353.2	348.4
80°	208.1	216.0	219.2	253.8	302.7	343.7	304.3	309.0	310.6	310.6	304.3
82.5°	159.2	173.4	181.3	219.2	231.8	288.5	264.9	269.6	264.9	255.4	252.3
85°	110.4	129.3	138.7	167.1	175.0	222.3	220.7	220.7	211.3	198.7	197.1
87.5°	59.9	70.9	77.3	99.3	119.8	149.8	162.4	157.7	149.8	141.9	143.5
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°	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0
2.5°	8693.6	8908.0	9250.1	9511.8	9775.1	10029.0	10303.3	10513.0	10691.1	10760.5	10971.8
5°	6990.8	7258.8	7582.0	8165.4	8578.5	9034.1	9560.7	10257.6	10525.6	10896.1	11503.1
7.5°	4942.7	5185.5	5705.8	6177.2	6762.2	7407.0	8118.1	9079.8	9431.4	10025.8	11014.4
10°	3690.9	3973.1	4390.9	4788.2	5303.8	5962.8	6779.5	7854.8	8282.1	8926.9	10065.2
12.5°	2973.5	3306.2	3749.2	4122.9	4521.8	4986.9	5779.9	6959.3	7531.6	8096.0	9247.0
15°	2284.5	2633.0	3044.5	3519.0	3958.9	4460.3	5291.2	6580.9	7239.9	7828.0	8810.2
17.5°	1581.4	1879.3	2398.1	2893.1	3456.0	4097.7	5155.6	6661.3	7448.0	8126.0	8885.9
20°	1121.0	1291.3	1717.0	2290.8	2992.4	3798.1	5130.4	7083.8	8107.0	8881.2	9371.5
22.5°	942.8	1005.9	1253.4	1780.0	2590.4	3574.2	5218.7	7676.6	8996.3	9984.8	10145.6
25°	859.3	897.1	1026.4	1396.9	2232.5	3411.8	5516.6	8559.5	10096.8	11088.5	11060.1
27.5°	813.5	853.0	938.1	1179.3	1962.9	3310.9	5814.6	9606.4	11354.9	12286.7	11933.5
30°	799.4	853.0	942.8	1111.5	1770.6	3151.7	6059.0	10525.6	12323.0	13095.5	12330.8
32.5°	788.3	796.2	837.2	958.6	1587.7	2965.6	6224.5	11350.2	13270.5	13864.9	12903.2
35°	637.0	676.4	742.6	859.3	1480.5	2853.7	6224.5	12061.2	14203.9	14642.2	13448.7
37.5°	613.3	648.0	706.3	805.7	1420.5	2798.5	6100.0	12747.1	15157.8	15523.5	13898.0
40°	600.7	629.1	684.3	764.7	1395.3	2735.5	5918.7	13352.5	16089.5	16406.4	14317.4
42.5°	591.2	616.5	668.5	739.4	1362.2	2666.1	5772.1	13838.1	16898.4	17160.1	14717.9
45°	586.5	613.3	670.1	752.1	1296.0	2574.6	5723.2	14363.1	17563.7	17789.2	15151.4
47.5°	586.5	618.0	678.0	778.9	1217.2	2480.0	5876.1	15055.3	18192.8	18303.1	15662.3
50°	581.8	616.5	700.0	752.1	1102.1	2360.2	6235.6	15927.1	18873.9	18886.5	16308.7
52.5°	572.3	613.3	753.6	736.3	969.6	2202.6	6721.2	17046.6	19881.3	19957.0	17320.9
55°	561.3	608.6	739.4	700.0	860.8	2014.9	7118.5	18407.2	21297.2	21506.9	18809.2
57.5°	547.1	602.3	715.8	649.6	789.9	1773.7	7262.0	19403.6	22285.7	22812.3	20486.8
60°	534.5	597.5	646.4	619.6	745.7	1570.3	6984.5	19206.5	22217.9	23353.1	21973.5
62.5°	521.9	602.3	589.7	600.7	725.3	1439.5	6259.2	17628.3	21093.8	22795.0	23075.6
65°	507.7	559.7	556.6	584.9	720.5	1387.4	5188.7	15261.8	18921.2	21030.7	23335.7
67.5°	488.8	517.1	532.9	564.4	736.3	1341.7	4187.5	12589.4	15901.9	18386.7	21979.8
70°	468.3	491.9	509.3	539.2	726.8	1321.2	3482.8	9928.1	12617.8	15069.5	19304.3
72.5°	441.5	462.0	477.7	506.1	717.4	1310.2	2942.0	7995.1	9420.4	11194.1	15695.4
75°	409.9	428.8	439.9	468.3	687.4	1199.8	2312.9	6765.3	7049.1	7787.0	12501.1
77.5°	373.7	387.9	397.3	428.8	608.6	998.0	1672.8	5218.7	5474.1	5653.8	9584.4
80°	331.1	345.3	350.0	380.0	504.5	780.4	1091.0	3854.9	4094.5	4135.5	6259.2
82.5°	282.2	296.4	296.4	324.8	413.1	561.3	715.8	2640.9	2688.2	2826.9	4424.0
85°	227.0	238.1	238.1	252.3	320.1	419.4	491.9	1325.9	1311.8	1497.8	3832.8
87.5°	162.4	170.3	178.2	181.3	228.6	277.5	296.4	403.6	266.5	305.9	2461.1
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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CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-7050-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0
2.5°	11131.0	11220.9	11129.5	11063.2	10777.9	10542.9	10229.2	10068.4
5°	11965.1	12193.7	12116.4	11838.9	11243.0	10572.9	9811.4	9467.7
7.5°	11864.2	12395.5	12408.1	11889.4	11011.2	10024.2	8993.1	8504.4
10°	11079.0	11758.5	11952.5	11449.5	10517.7	9414.1	8231.6	7673.5
12.5°	10202.4	10867.7	11015.9	10842.5	10063.6	8955.3	7755.5	7208.4
15°	9485.0	9783.0	9959.6	10110.9	9674.2	8772.4	7728.7	7128.0
17.5°	9048.3	9015.2	9065.6	9328.9	9403.0	8982.1	8138.6	7476.4
20°	8890.6	8384.5	8371.9	8734.5	9275.3	9481.9	8939.5	8144.9
22.5°	8977.3	8157.5	8053.4	8483.9	9343.1	10202.4	9989.5	9083.0
25°	9276.9	8176.4	8092.9	8509.1	9589.1	10970.2	11123.1	10297.0
27.5°	9748.3	8296.2	8185.9	8613.1	9915.4	11615.1	12239.4	11473.2
30°	10196.1	8504.4	8367.2	8818.1	10213.4	11870.5	12923.7	12390.8
32.5°	10740.0	8893.8	8652.6	9194.9	10582.4	12277.2	13533.8	13150.7
35°	11272.9	9448.8	9149.2	9776.7	10993.9	12783.3	14230.7	14121.9
37.5°	11857.9	10174.0	9926.5	10528.8	11556.7	13261.1	15119.9	15260.2
40°	12482.2	11135.8	10842.5	11626.1	12430.2	13860.2	16048.5	16385.9
42.5°	13111.3	12203.1	11853.1	12647.8	13390.3	14451.4	16843.2	17343.0
45°	13831.8	13362.0	13196.4	14055.7	14312.7	15014.3	17429.7	18050.9
47.5°	14670.6	14676.9	14943.3	15287.0	15242.9	15651.2	18019.3	18683.1
50°	15649.7	16318.2	16906.2	17134.8	16201.5	16335.5	18837.6	19529.8
52.5°	16825.8	18281.1	19009.5	18859.7	17234.2	17171.1	20133.6	20696.5
55°	18296.8	20359.1	21082.7	20975.5	18421.4	18309.4	21748.1	22076.0
57.5°	19999.6	22372.4	23037.8	22555.3	19846.7	19558.1	23083.5	23152.9
60°	21495.8	23968.0	24551.3	24016.9	21284.5	20887.2	23917.5	23581.7
62.5°	22328.3	24508.8	24918.7	24343.2	22269.9	22303.1	24100.4	23349.9
65°	21956.2	23141.8	23274.3	23227.0	22016.1	23124.5	23443.0	22279.4
67.5°	19919.2	19685.8	19908.1	20215.6	19840.4	22042.9	21621.9	19947.6
70°	16330.8	15049.0	15492.0	15698.5	15868.8	18968.5	18766.7	16247.2
72.5°	12307.2	10542.9	10893.0	10850.4	11638.7	15214.5	14594.9	11946.1
75°	8720.4	7148.5	7192.6	7175.3	8121.2	11903.6	10568.2	8173.3
77.5°	6101.6	5179.2	5202.9	5300.6	5459.9	8977.3	7550.5	5970.7
80°	4195.4	3930.5	4061.4	4069.3	3783.9	6030.6	5578.1	4791.4
82.5°	3124.9	2732.3	2700.8	2746.5	2965.6	4886.0	4286.9	3323.5
85°	2558.9	1617.6	1300.7	1630.2	2628.2	4838.7	2847.4	1753.2
87.5°	1441.0	767.8	346.9	643.3	1048.5	3203.7	823.0	223.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)