

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: P192103

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192103  
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-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 1200mA 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: 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

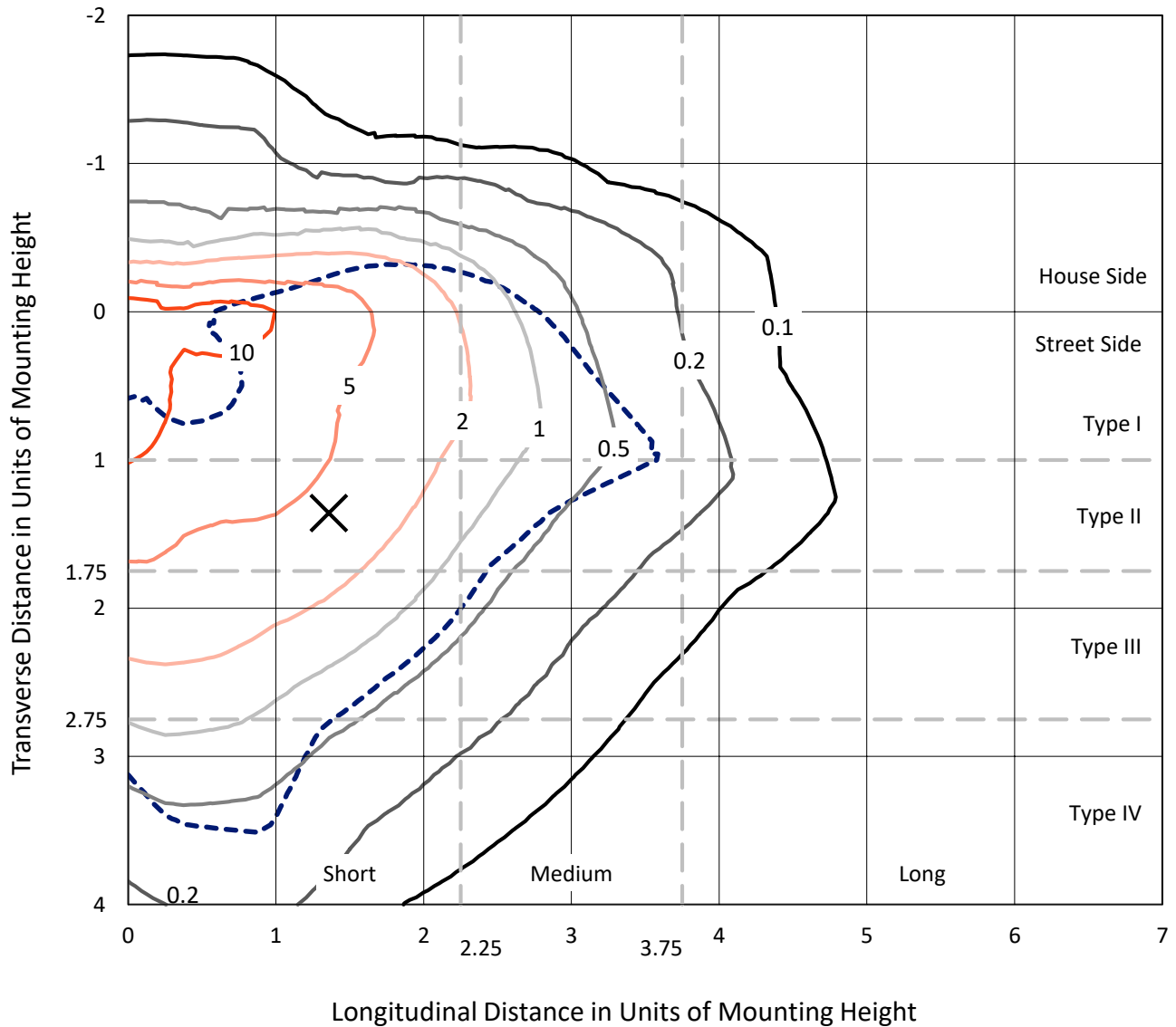


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

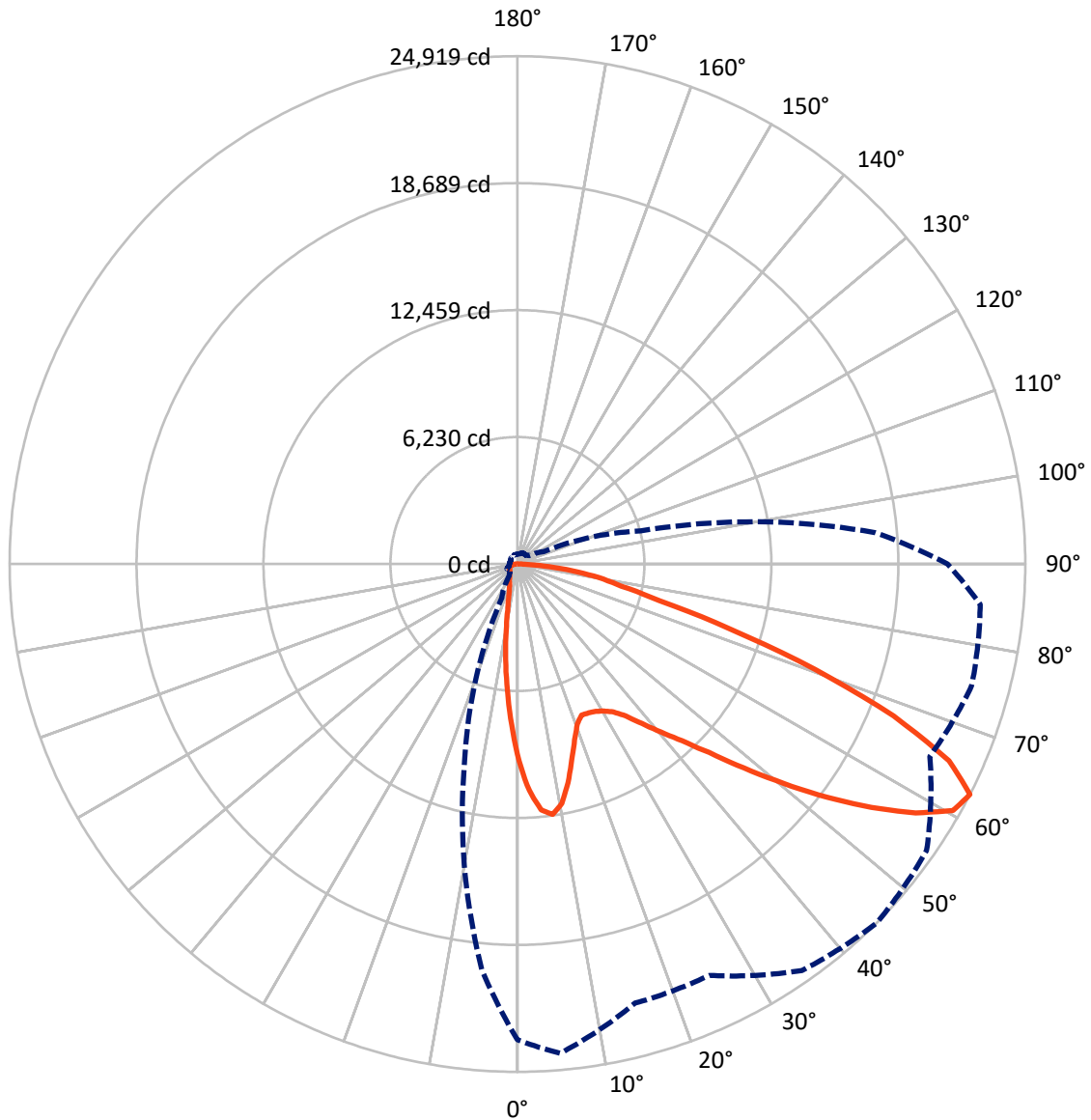


Based on 25 foot mounting height. Maximum calculated value = 18.2 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	4746.3	0.0	4746.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	23934.7	0.0	23934.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	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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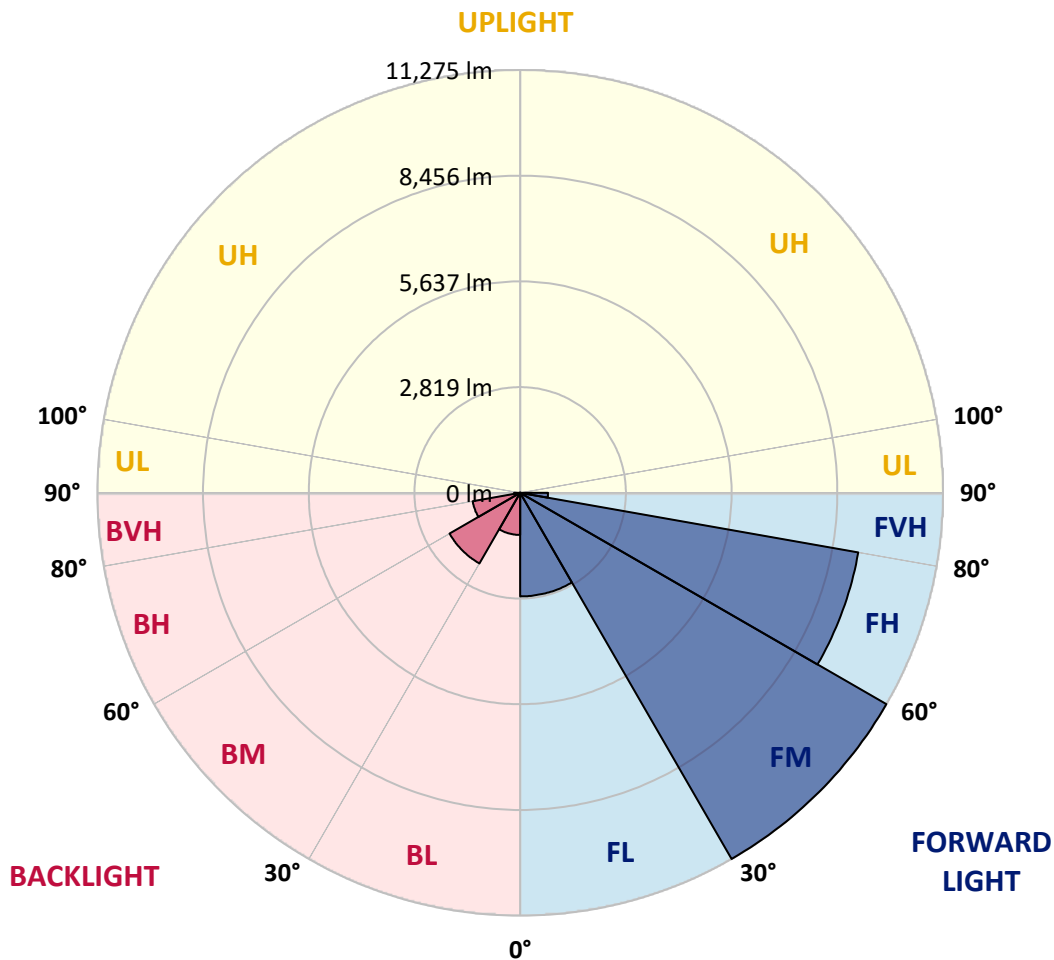
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

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	10229.2	10542.9	10777.9	11063.2	11129.5	11220.9	11131.0	10971.8	10760.5	10691.1
5°	9467.7	9811.4	10572.9	11243.0	11838.9	12116.4	12193.7	11965.1	11503.1	10896.1	10525.6
7.5°	8504.4	8993.1	10024.2	11011.2	11889.4	12408.1	12395.5	11864.2	11014.4	10025.8	9431.4
10°	7673.5	8231.6	9414.1	10517.7	11449.5	11952.5	11758.5	11079.0	10065.2	8926.9	8282.1
12.5°	7208.4	7755.5	8955.3	10063.6	10842.5	11015.9	10867.7	10202.4	9247.0	8096.0	7531.6
15°	7128.0	7728.7	8772.4	9674.2	10110.9	9959.6	9783.0	9485.0	8810.2	7828.0	7239.9
17.5°	7476.4	8138.6	8982.1	9403.0	9328.9	9065.6	9015.2	9048.3	8885.9	8126.0	7448.0
20°	8144.9	8939.5	9481.9	9275.3	8734.5	8371.9	8384.5	8890.6	9371.5	8881.2	8107.0
22.5°	9083.0	9989.5	10202.4	9343.1	8483.9	8053.4	8157.5	8977.3	10145.6	9984.8	8996.3
25°	10297.0	11123.1	10970.2	9589.1	8509.1	8092.9	8176.4	9276.9	11060.1	11088.5	10096.8
27.5°	11473.2	12239.4	11615.1	9915.4	8613.1	8185.9	8296.2	9748.3	11933.5	12286.7	11354.9
30°	12390.8	12923.7	11870.5	10213.4	8818.1	8367.2	8504.4	10196.1	12330.8	13095.5	12323.0
32.5°	13150.7	13533.8	12277.2	10582.4	9194.9	8652.6	8893.8	10740.0	12903.2	13864.9	13270.5
35°	14121.9	14230.7	12783.3	10993.9	9776.7	9149.2	9448.8	11272.9	13448.7	14642.2	14203.9
37.5°	15260.2	15119.9	13261.1	11556.7	10528.8	9926.5	10174.0	11857.9	13898.0	15523.5	15157.8
40°	16385.9	16048.5	13860.2	12430.2	11626.1	10842.5	11135.8	12482.2	14317.4	16406.4	16089.5
42.5°	17343.0	16843.2	14451.4	13390.3	12647.8	11853.1	12203.1	13111.3	14717.9	17160.1	16898.4
45°	18050.9	17429.7	15014.3	14312.7	14055.7	13196.4	13362.0	13831.8	15151.4	17789.2	17563.7
47.5°	18683.1	18019.3	15651.2	15242.9	15287.0	14943.3	14676.9	14670.6	15662.3	18303.1	18192.8
50°	19529.8	18837.6	16335.5	16201.5	17134.8	16906.2	16318.2	15649.7	16308.7	18886.5	18873.9
52.5°	20696.5	20133.6	17171.1	17234.2	18859.7	19009.5	18281.1	16825.8	17320.9	19957.0	19881.3
55°	22076.0	21748.1	18309.4	18421.4	20975.5	21082.7	20359.1	18296.8	18809.2	21506.9	21297.2
57.5°	23152.9	23083.5	19558.1	19846.7	22555.3	23037.8	22372.4	19999.6	20486.8	22812.3	22285.7
60°	23581.7	23917.5	20887.2	21284.5	24016.9	24551.3	23968.0	21495.8	21973.5	23353.1	22217.9
62.5°	23349.9	24100.4	22303.1	22269.9	24343.2	24918.7	24508.8	22328.3	23075.6	22795.0	21093.8
65°	22279.4	23443.0	23124.5	22016.1	23227.0	23274.3	23141.8	21956.2	23335.7	21030.7	18921.2
67.5°	19947.6	21621.9	22042.9	19840.4	20215.6	19908.1	19685.8	19919.2	21979.8	18386.7	15901.9
70°	16247.2	18766.7	18968.5	15868.8	15698.5	15492.0	15049.0	16330.8	19304.3	15069.5	12617.8
72.5°	11946.1	14594.9	15214.5	11638.7	10850.4	10893.0	10542.9	12307.2	15695.4	11194.1	9420.4
75°	8173.3	10568.2	11903.6	8121.2	7175.3	7192.6	7148.5	8720.4	12501.1	7787.0	7049.1
77.5°	5970.7	7550.5	8977.3	5459.9	5300.6	5202.9	5179.2	6101.6	9584.4	5653.8	5474.1
80°	4791.4	5578.1	6030.6	3783.9	4069.3	4061.4	3930.5	4195.4	6259.2	4135.5	4094.5
82.5°	3323.5	4286.9	4886.0	2965.6	2746.5	2700.8	2732.3	3124.9	4424.0	2826.9	2688.2
85°	1753.2	2847.4	4838.7	2628.2	1630.2	1300.7	1617.6	2558.9	3832.8	1497.8	1311.8
87.5°	223.9	823.0	3203.7	1048.5	643.3	346.9	767.8	1441.0	2461.1	305.9	266.5
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°	10513.0	10303.3	10029.0	9775.1	9511.8	9250.1	8908.0	8693.6	8545.4	8517.0	8453.9
5°	10257.6	9560.7	9034.1	8578.5	8165.4	7582.0	7258.8	6990.8	6847.3	6833.1	6798.4
7.5°	9079.8	8118.1	7407.0	6762.2	6177.2	5705.8	5185.5	4942.7	4843.4	4867.1	4890.7
10°	7854.8	6779.5	5962.8	5303.8	4788.2	4390.9	3973.1	3690.9	3495.4	3456.0	3448.1
12.5°	6959.3	5779.9	4986.9	4521.8	4122.9	3749.2	3306.2	2973.5	2719.7	2633.0	2574.6
15°	6580.9	5291.2	4460.3	3958.9	3519.0	3044.5	2633.0	2284.5	2051.2	1975.5	1933.0
17.5°	6661.3	5155.6	4097.7	3456.0	2893.1	2398.1	1879.3	1581.4	1441.0	1404.8	1404.8
20°	7083.8	5130.4	3798.1	2992.4	2290.8	1717.0	1291.3	1121.0	1075.3	1070.5	1083.1
22.5°	7676.6	5218.7	3574.2	2590.4	1780.0	1253.4	1005.9	942.8	922.3	927.1	941.2
25°	8559.5	5516.6	3411.8	2232.5	1396.9	1026.4	897.1	859.3	849.8	862.4	879.8
27.5°	9606.4	5814.6	3310.9	1962.9	1179.3	938.1	853.0	813.5	819.8	835.6	851.4
30°	10525.6	6059.0	3151.7	1770.6	1111.5	942.8	853.0	799.4	793.0	796.2	800.9
32.5°	11350.2	6224.5	2965.6	1587.7	958.6	837.2	796.2	788.3	753.6	741.0	742.6
35°	12061.2	6224.5	2853.7	1480.5	859.3	742.6	676.4	637.0	619.6	621.2	638.5
37.5°	12747.1	6100.0	2798.5	1420.5	805.7	706.3	648.0	613.3	589.7	584.9	588.1
40°	13352.5	5918.7	2735.5	1395.3	764.7	684.3	629.1	600.7	575.5	567.6	569.2
42.5°	13838.1	5772.1	2666.1	1362.2	739.4	668.5	616.5	591.2	562.9	555.0	553.4
45°	14363.1	5723.2	2574.6	1296.0	752.1	670.1	613.3	586.5	558.1	548.7	545.5
47.5°	15055.3	5876.1	2480.0	1217.2	778.9	678.0	618.0	586.5	556.6	548.7	545.5
50°	15927.1	6235.6	2360.2	1102.1	752.1	700.0	616.5	581.8	556.6	548.7	542.4
52.5°	17046.6	6721.2	2202.6	969.6	736.3	753.6	613.3	572.3	548.7	537.6	526.6
55°	18407.2	7118.5	2014.9	860.8	700.0	739.4	608.6	561.3	536.1	520.3	510.8
57.5°	19403.6	7262.0	1773.7	789.9	649.6	715.8	602.3	547.1	520.3	507.7	495.1
60°	19206.5	6984.5	1570.3	745.7	619.6	646.4	597.5	534.5	506.1	496.6	485.6
62.5°	17628.3	6259.2	1439.5	725.3	600.7	589.7	602.3	521.9	493.5	484.0	480.9
65°	15261.8	5188.7	1387.4	720.5	584.9	556.6	559.7	507.7	479.3	471.4	468.3
67.5°	12589.4	4187.5	1341.7	736.3	564.4	532.9	517.1	488.8	465.1	457.2	450.9
70°	9928.1	3482.8	1321.2	726.8	539.2	509.3	491.9	468.3	447.8	439.9	435.2
72.5°	7995.1	2942.0	1310.2	717.4	506.1	477.7	462.0	441.5	419.4	416.2	411.5
75°	6765.3	2312.9	1199.8	687.4	468.3	439.9	428.8	409.9	387.9	387.9	384.7
77.5°	5218.7	1672.8	998.0	608.6	428.8	397.3	387.9	373.7	348.4	353.2	351.6
80°	3854.9	1091.0	780.4	504.5	380.0	350.0	345.3	331.1	304.3	310.6	310.6
82.5°	2640.9	715.8	561.3	413.1	324.8	296.4	296.4	282.2	252.3	255.4	264.9
85°	1325.9	491.9	419.4	320.1	252.3	238.1	238.1	227.0	197.1	198.7	211.3
87.5°	403.6	296.4	277.5	228.6	181.3	178.2	170.3	162.4	143.5	141.9	149.8
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°	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0	9690.0
2.5°	8357.7	8267.9	8159.1	7919.4	7839.0	7834.3	7906.8	7831.1	7976.2	7914.7	7982.5
5°	6740.1	6651.8	6530.4	6224.5	6038.5	5912.4	5852.5	5675.9	5803.6	5710.6	5787.8
7.5°	4956.9	4977.4	4897.0	4717.3	4312.1	4108.7	3988.9	3881.7	3974.7	3965.2	4113.4
10°	3484.4	3539.5	3482.8	3301.5	2973.5	2861.6	2883.7	2926.2	3047.6	3110.7	3339.3
12.5°	2508.4	2505.3	2469.0	2306.6	2090.6	2103.2	2193.1	2267.2	2379.1	2445.4	2678.7
15°	1873.0	1844.7	1828.9	1696.5	1573.5	1600.3	1644.4	1652.3	1723.3	1762.7	1951.9
17.5°	1415.8	1430.0	1447.3	1352.8	1259.7	1242.4	1207.7	1165.1	1185.6	1193.5	1288.1
20°	1124.1	1180.9	1223.5	1157.2	1062.7	1012.2	968.1	939.7	939.7	938.1	964.9
22.5°	982.2	1023.2	1069.0	1023.2	938.1	894.0	868.7	846.7	843.5	843.5	868.7
25°	905.0	934.9	979.1	947.6	884.5	851.4	827.7	799.4	788.3	785.2	802.5
27.5°	867.1	879.8	901.8	873.5	819.8	804.1	797.8	772.6	758.4	750.5	767.8
30°	802.5	799.4	800.9	772.6	730.0	728.4	739.4	744.2	739.4	737.9	764.7
32.5°	742.6	736.3	734.7	709.5	670.1	660.6	670.1	679.5	690.6	706.3	737.9
35°	666.9	682.7	692.1	670.1	622.8	594.4	583.4	566.0	556.6	556.6	592.8
37.5°	607.0	643.3	657.5	637.0	584.9	545.5	526.6	523.4	525.0	531.3	566.0
40°	586.5	613.3	625.9	605.4	553.4	517.1	506.1	502.9	506.1	515.6	550.2
42.5°	573.9	592.8	591.2	566.0	523.4	498.2	491.9	488.8	491.9	501.4	539.2
45°	562.9	575.5	562.9	532.9	493.5	480.9	482.4	480.9	484.0	493.5	529.7
47.5°	553.4	558.1	542.4	512.4	471.4	468.3	474.6	479.3	482.4	490.3	528.2
50°	539.2	539.2	525.0	493.5	452.5	454.1	462.0	473.0	474.6	484.0	514.0
52.5°	521.9	520.3	510.8	480.9	436.7	441.5	441.5	454.1	457.2	468.3	499.8
55°	507.7	504.5	499.8	471.4	422.5	430.4	425.7	430.4	438.3	449.3	484.0
57.5°	495.1	488.8	488.8	463.5	411.5	414.7	403.6	409.9	419.4	428.8	465.1
60°	482.4	476.1	479.3	452.5	394.2	391.0	386.3	398.9	402.0	413.1	449.3
62.5°	468.3	463.5	465.1	439.9	381.5	373.7	373.7	384.7	386.3	402.0	436.7
65°	457.2	450.9	449.3	427.3	367.4	357.9	362.6	367.4	370.5	386.3	419.4
67.5°	446.2	433.6	433.6	416.2	351.6	342.1	351.6	350.0	354.7	368.9	395.7
70°	432.0	414.7	416.2	408.3	335.8	324.8	332.7	331.1	334.2	343.7	370.5
72.5°	409.9	395.7	398.9	395.7	320.1	304.3	307.4	307.4	307.4	315.3	343.7
75°	381.5	370.5	380.0	387.9	301.1	279.1	282.2	282.2	277.5	282.2	316.9
77.5°	346.9	340.6	372.1	361.0	279.1	252.3	252.3	249.1	239.6	246.0	283.8
80°	309.0	304.3	343.7	302.7	253.8	219.2	216.0	208.1	198.7	203.4	241.2
82.5°	269.6	264.9	288.5	231.8	219.2	181.3	173.4	159.2	149.8	154.5	189.2
85°	220.7	220.7	222.3	175.0	167.1	138.7	129.3	110.4	99.3	102.5	135.6
87.5°	157.7	162.4	149.8	119.8	99.3	77.3	70.9	59.9	50.5	58.3	70.9
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: P192103

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-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°	8329.4	8502.8	8699.9	8952.1	9168.1	9522.9	9863.4	10068.4
5°	6227.7	6516.2	6875.7	7337.7	7768.1	8414.5	9056.2	9467.7
7.5°	4457.1	4766.2	5154.0	5731.1	6339.6	7164.2	8012.4	8504.4
10°	3687.7	4004.6	4331.0	4720.4	5218.7	6115.8	7118.5	7673.5
12.5°	3050.8	3389.8	3741.4	4151.3	4613.2	5414.2	6569.8	7208.4
15°	2335.0	2713.4	3128.0	3646.8	4225.4	5150.9	6434.2	7128.0
17.5°	1600.3	2022.8	2532.1	3172.2	3880.1	5065.7	6677.0	7476.4
20°	1102.1	1409.5	1953.4	2703.9	3555.3	5054.7	7143.7	8144.9
22.5°	922.3	1059.5	1456.8	2273.5	3310.9	5190.3	7867.4	9083.0
25°	853.0	934.9	1163.6	1899.8	3132.8	5502.4	8863.8	10297.0
27.5°	812.0	886.1	1056.3	1655.5	2992.4	5865.1	9833.5	11473.2
30°	827.7	903.4	1026.4	1530.9	2801.7	6167.8	10694.3	12390.8
32.5°	745.7	778.9	879.8	1420.5	2664.5	6421.6	11447.9	13150.7
35°	635.4	693.7	785.2	1368.5	2667.7	6591.9	12269.4	14121.9
37.5°	605.4	663.8	730.0	1349.6	2703.9	6773.2	13212.2	15260.2
40°	586.5	640.1	696.9	1338.6	2738.6	6938.8	14136.1	16385.9
42.5°	573.9	622.8	693.7	1300.7	2756.0	7087.0	14896.0	17343.0
45°	572.3	622.8	706.3	1262.9	2782.8	7246.2	15533.0	18050.9
47.5°	573.9	643.3	682.7	1217.2	2782.8	7512.7	16280.3	18683.1
50°	567.6	678.0	657.5	1152.5	2718.1	8017.2	17305.1	19529.8
52.5°	564.4	673.2	608.6	1053.2	2606.2	8818.1	18618.5	20696.5
55°	556.6	649.6	573.9	905.0	2475.3	9691.6	20024.8	22076.0
57.5°	548.7	575.5	555.0	775.7	2273.5	10306.5	20992.9	23152.9
60°	614.9	502.9	539.2	712.6	2003.9	10475.2	20955.0	23581.7
62.5°	569.2	471.4	518.7	698.4	1814.7	10002.2	19987.0	23349.9
65°	446.2	450.9	498.2	739.4	1764.3	8748.7	18271.6	22279.4
67.5°	408.3	430.4	477.7	791.5	1769.0	7005.0	15708.0	19947.6
70°	384.7	408.3	454.1	818.3	1781.6	5221.8	12419.1	16247.2
72.5°	357.9	378.4	427.3	823.0	1699.6	3793.4	9571.7	11946.1
75°	326.4	345.3	389.4	717.4	1407.9	2631.4	7321.9	8173.3
77.5°	290.1	304.3	342.1	553.4	1045.3	1683.8	5496.1	5970.7
80°	247.5	255.4	286.9	405.2	715.8	1053.2	4348.4	4791.4
82.5°	198.7	201.8	222.3	304.3	465.1	676.4	2912.0	3323.5
85°	140.3	140.3	152.9	220.7	316.9	428.8	1581.4	1753.2
87.5°	66.2	67.8	67.8	121.4	165.5	217.6	364.2	223.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)