

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: P192095

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192095  
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-07-LED-E1-SLL-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 37001 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

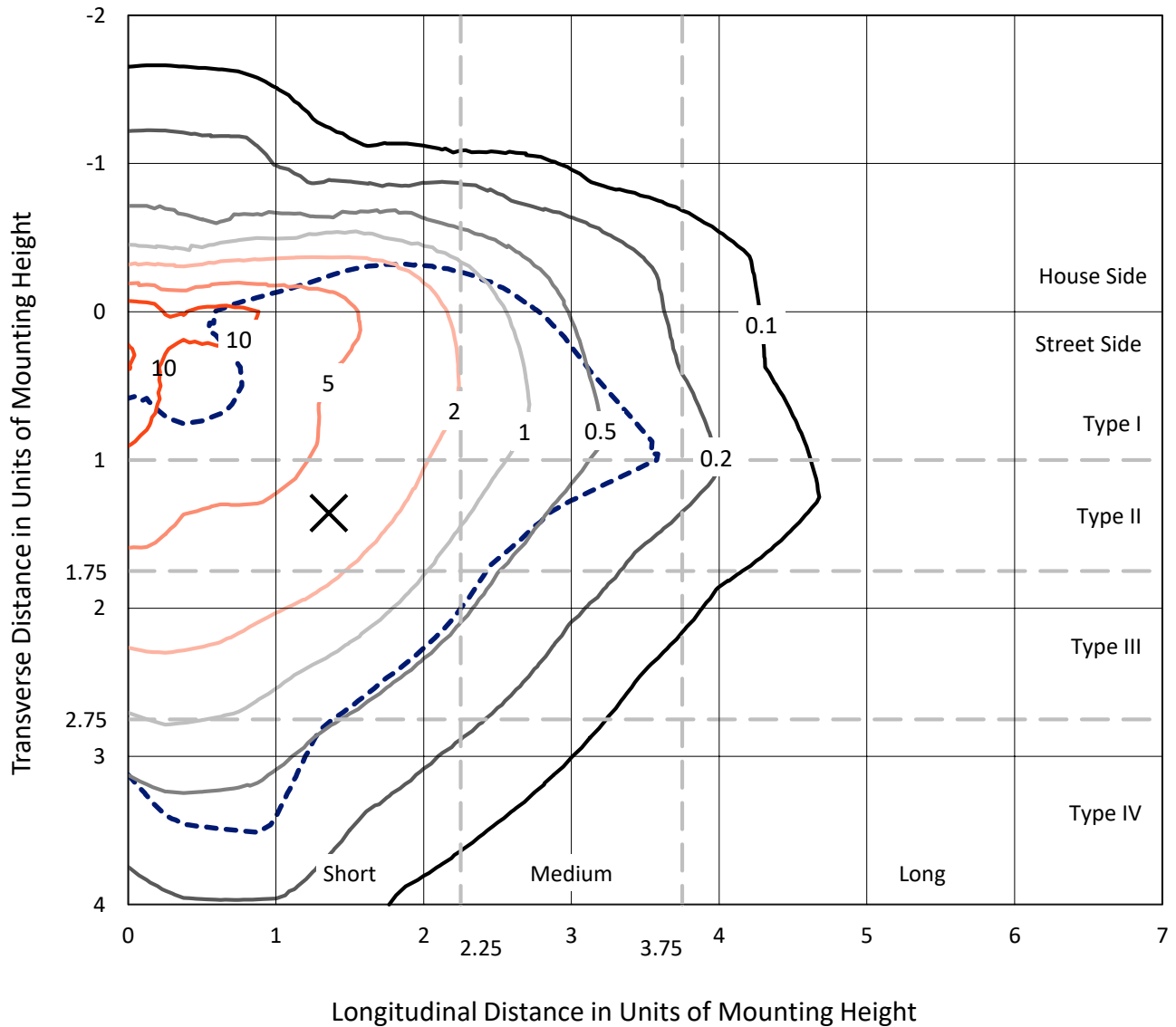
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

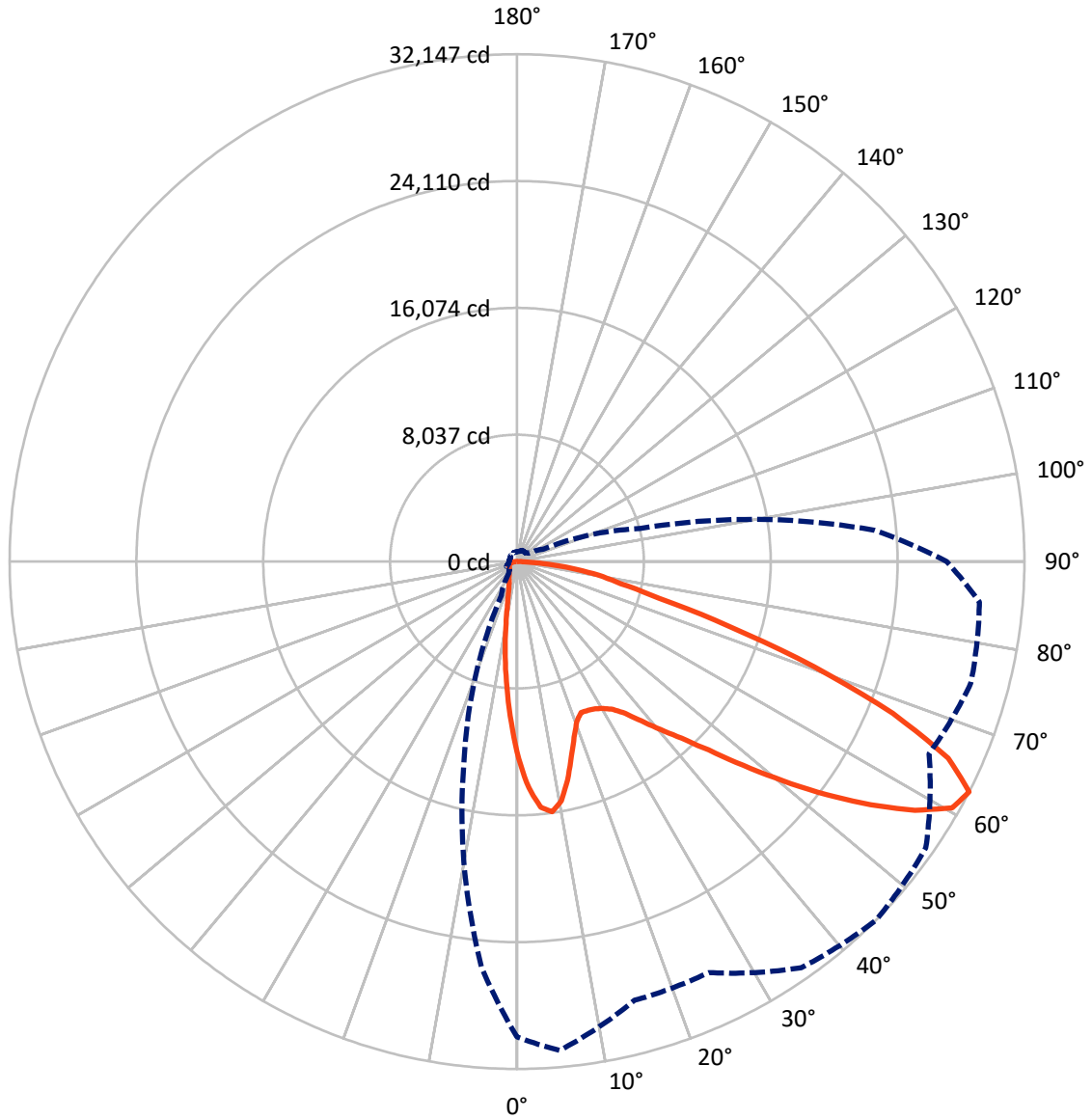
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.3 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	6123.1	0.0	6123.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	30877.8	0.0	30877.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	37001.0	0.0	37001.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	910.0	2.5
10°-20°	1668.7	4.5
20°-30°	2433.0	6.6
30°-40°	3747.1	10.1
40°-50°	5514.8	14.9
50°-60°	8089.1	21.9
60°-70°	9042.4	24.4
70°-80°	4427.0	12.0
80°-90°	1168.8	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°	37001.0	100.0
0°-180°	37001.0	100.0



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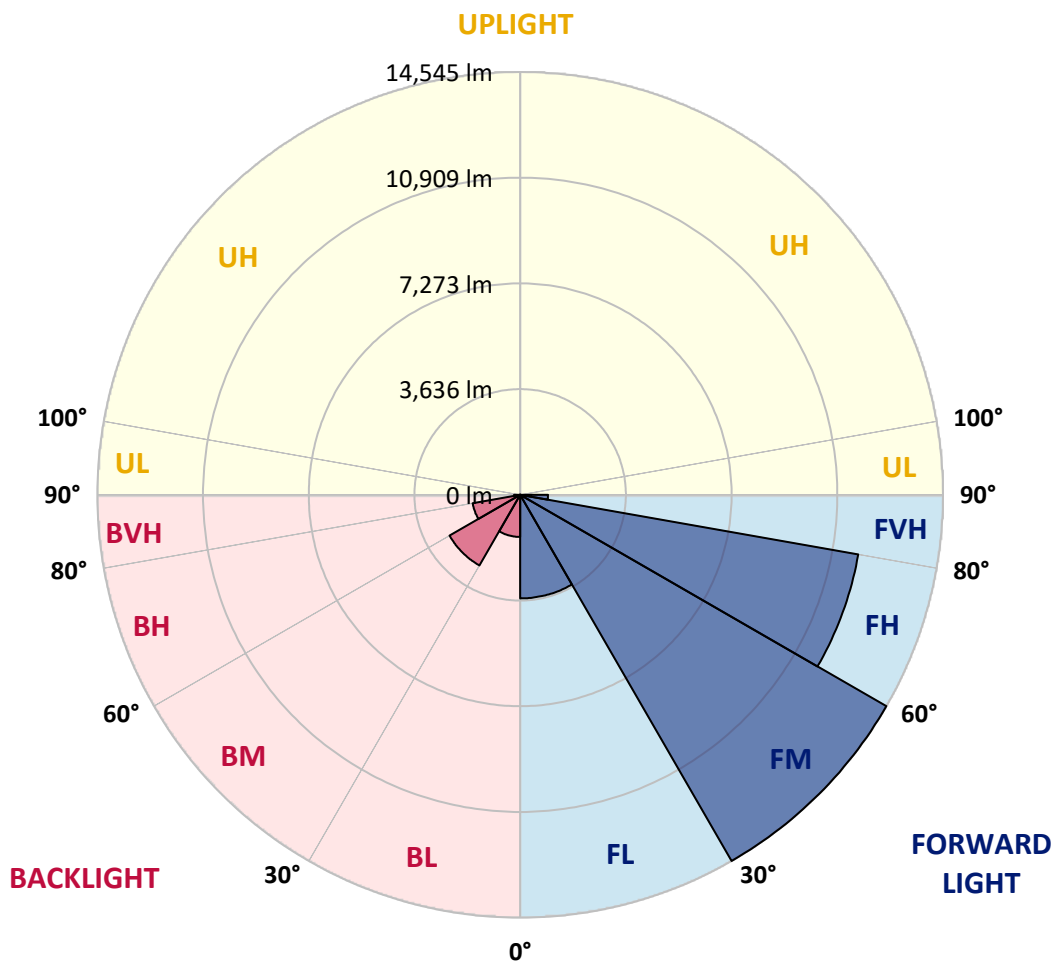
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3563.1	9.6			
FM	(30°-60°)	14545.4	39.3			
FH	(60°-80°)	11809.4	31.9			G4/12000
FVH	(80°-90°)	959.9	2.6			G5
BL	(0°-30°)	1448.6	3.9	B3/2500		
BM	(30°-60°)	2805.6	7.6	B3/5000		
BH	(60°-80°)	1660.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	208.9	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9
2.5°	12989.1	13196.6	13601.3	13904.4	14272.5	14358.0	14475.9	14360.0	14154.6	13882.0	13792.5
5°	12214.1	12657.5	13640.0	14504.4	15273.3	15631.2	15730.9	15436.0	14840.0	14056.9	13578.9
7.5°	10971.4	11601.9	12932.1	14205.4	15338.4	16007.5	15991.3	15305.8	14209.5	12934.2	12167.4
10°	9899.5	10619.5	12145.0	13568.8	14770.9	15419.7	15169.5	14292.9	12985.0	11516.5	10684.6
12.5°	9299.4	10005.2	11553.1	12983.0	13987.8	14211.5	14020.3	13162.0	11929.4	10444.6	9716.4
15°	9195.7	9970.6	11317.1	12480.6	13044.0	12848.7	12620.9	12236.5	11366.0	10098.8	9340.1
17.5°	9645.2	10499.5	11587.7	12130.7	12035.1	11695.5	11630.4	11673.1	11463.6	10483.2	9608.6
20°	10507.6	11532.7	12232.4	11966.0	11268.3	10800.5	10816.8	11469.7	12090.1	11457.5	10458.8
22.5°	11717.8	12887.4	13162.0	12053.5	10944.9	10389.6	10523.9	11581.6	13088.8	12881.3	11606.0
25°	13284.0	14349.8	14152.5	12370.8	10977.5	10440.5	10548.3	11968.0	14268.5	14305.1	13025.7
27.5°	14801.4	15789.9	14984.4	12791.8	11111.7	10560.5	10702.9	12576.2	15395.3	15850.9	14648.8
30°	15985.2	16672.7	15313.9	13176.2	11376.1	10794.4	10971.4	13153.8	15907.9	16894.4	15897.7
32.5°	16965.5	17459.8	15838.7	13652.2	11862.3	11162.6	11473.8	13855.6	16646.2	17886.9	17120.1
35°	18218.5	18358.8	16491.6	14183.0	12612.8	11803.3	12189.7	14543.1	17350.0	18889.7	18324.3
37.5°	19687.0	19506.0	17107.9	14909.2	13583.0	12806.0	13125.4	15297.7	17929.7	20026.7	19554.8
40°	21139.3	20704.0	17880.8	16036.0	14998.7	13987.8	14366.1	16103.1	18470.7	21165.7	20756.9
42.5°	22373.9	21729.2	18643.6	17274.7	16316.7	15291.6	15743.1	16914.7	18987.3	22138.0	21800.4
45°	23287.2	22485.8	19369.7	18464.6	18133.1	17024.5	17238.1	17844.2	19546.7	22949.6	22658.7
47.5°	24102.8	23246.5	20191.5	19664.7	19721.6	19278.2	18934.5	18926.3	20205.7	23612.6	23470.3
50°	25195.1	24302.2	21074.2	20901.3	22105.5	21810.5	21051.8	20189.4	21039.6	24365.2	24348.9
52.5°	26700.2	25974.1	22152.2	22233.6	24330.6	24523.9	23584.2	21706.8	22345.5	25746.3	25648.7
55°	28480.0	28056.9	23620.8	23765.2	27060.3	27198.6	26265.0	23604.5	24265.6	27745.7	27475.2
57.5°	29869.2	29779.7	25231.7	25603.9	29098.3	29720.7	28862.4	25801.2	26429.7	29429.9	28750.5
60°	30422.5	30855.7	26946.4	27458.9	30983.8	31673.4	30920.8	27731.5	28347.8	30127.5	28663.1
62.5°	30123.5	31091.6	28772.9	28730.2	31404.9	32147.3	31618.4	28805.4	29769.5	29407.5	27212.8
65°	28742.4	30243.5	29832.6	28402.7	29964.8	30025.8	29855.0	28325.4	30105.2	27131.5	24410.0
67.5°	25734.1	27894.2	28437.3	25595.8	26079.9	25683.3	25396.5	25697.5	28355.9	23720.4	20514.9
70°	20960.3	24210.6	24471.0	20472.2	20252.5	19986.0	19414.5	21068.1	24904.2	19440.9	16278.1
72.5°	15411.6	18828.7	19628.0	15014.9	13998.0	14052.9	13601.3	15877.4	20248.4	14441.4	12153.1
75°	10544.2	13633.9	15356.7	10477.1	9256.7	9279.1	9222.1	11250.0	16127.5	10045.9	9094.0
77.5°	7702.7	9740.8	11581.6	7043.7	6838.3	6712.2	6681.7	7871.6	12364.7	7293.9	7062.0
80°	6181.3	7196.3	7780.0	4881.6	5249.7	5239.6	5070.7	5412.5	8075.0	5335.2	5282.3
82.5°	4287.7	5530.4	6303.3	3825.9	3543.2	3484.2	3524.9	4031.4	5707.4	3647.0	3468.0
85°	2261.8	3673.4	6242.3	3390.7	2103.2	1678.0	2086.9	3301.2	4944.6	1932.3	1692.3
87.5°	288.8	1061.7	4133.1	1352.6	829.9	447.5	990.6	1859.1	3175.1	394.6	343.7
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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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9
2.5°	13562.7	13292.2	12938.2	12610.8	12271.1	11933.4	11492.1	11215.4	11024.3	10987.6	10906.3
5°	13233.2	12334.1	11654.8	11067.0	10534.1	9781.5	9364.5	9018.7	8833.6	8815.3	8770.6
7.5°	11713.8	10473.0	9555.7	8723.8	7969.2	7361.0	6689.8	6376.6	6248.4	6278.9	6309.5
10°	10133.4	8746.2	7692.6	6842.4	6177.2	5664.7	5125.7	4761.6	4509.4	4458.5	4448.3
12.5°	8978.1	7456.6	6433.5	5833.5	5318.9	4836.8	4265.3	3836.1	3508.6	3396.8	3321.5
15°	8489.9	6826.1	5754.2	5107.4	4539.9	3927.6	3396.8	2947.3	2646.2	2548.6	2493.7
17.5°	8593.6	6651.2	5286.4	4458.5	3732.4	3093.7	2424.5	2040.1	1859.1	1812.3	1812.3
20°	9138.7	6618.6	4899.9	3860.5	2955.4	2215.0	1665.8	1446.2	1387.2	1381.1	1397.4
22.5°	9903.5	6732.5	4611.1	3341.9	2296.4	1617.0	1297.7	1216.3	1189.9	1196.0	1214.3
25°	11042.6	7116.9	4401.6	2880.1	1802.1	1324.1	1157.3	1108.5	1096.3	1112.6	1135.0
27.5°	12393.1	7501.4	4271.4	2532.3	1521.4	1210.2	1100.4	1049.5	1057.7	1078.0	1098.4
30°	13578.9	7816.6	4066.0	2284.2	1434.0	1216.3	1100.4	1031.2	1023.1	1027.2	1033.3
32.5°	14642.7	8030.2	3825.9	2048.2	1236.7	1080.1	1027.2	1017.0	972.2	956.0	958.0
35°	15560.1	8030.2	3681.5	1909.9	1108.5	958.0	872.6	821.7	799.4	801.4	823.8
37.5°	16444.8	7869.5	3610.3	1832.6	1039.4	911.2	836.0	791.2	760.7	754.6	758.7
40°	17225.9	7635.6	3529.0	1800.1	986.5	882.8	811.6	775.0	742.4	732.2	734.3
42.5°	17852.4	7446.5	3439.5	1757.4	953.9	862.4	795.3	762.7	726.1	716.0	713.9
45°	18529.7	7383.4	3321.5	1671.9	970.2	864.4	791.2	756.6	720.0	707.8	703.8
47.5°	19422.6	7580.7	3199.5	1570.2	1004.8	874.6	797.3	756.6	718.0	707.8	703.8
50°	20547.4	8044.4	3044.9	1421.8	970.2	903.1	795.3	750.5	718.0	707.8	699.7
52.5°	21991.5	8670.9	2841.5	1250.9	949.9	972.2	791.2	738.3	707.8	693.6	679.4
55°	23746.9	9183.5	2599.4	1110.6	903.1	953.9	785.1	724.1	691.6	671.2	659.0
57.5°	25032.4	9368.6	2288.2	1019.0	838.0	923.4	777.0	705.8	671.2	654.9	638.7
60°	24778.1	9010.6	2025.9	962.1	799.4	833.9	770.9	689.5	652.9	640.7	626.5
62.5°	22742.1	8075.0	1857.0	935.6	775.0	760.7	777.0	673.3	636.6	624.4	620.4
65°	19689.1	6693.9	1789.9	929.5	754.6	718.0	722.1	654.9	618.3	608.2	604.1
67.5°	16241.4	5402.3	1730.9	949.9	728.2	687.5	667.2	630.5	600.0	589.9	581.7
70°	12808.1	4493.1	1704.5	937.7	695.6	657.0	634.6	604.1	577.7	567.5	561.4
72.5°	10314.4	3795.4	1690.2	925.5	652.9	616.3	596.0	569.5	541.0	537.0	530.9
75°	8727.9	2983.9	1547.9	886.8	604.1	567.5	553.2	528.8	500.4	500.4	496.3
77.5°	6732.5	2158.1	1287.5	785.1	553.2	512.6	500.4	482.1	449.5	455.6	453.6
80°	4973.1	1407.5	1006.8	650.9	490.2	451.5	445.4	427.1	392.6	400.7	400.7
82.5°	3406.9	923.4	724.1	532.9	419.0	382.4	382.4	364.1	325.4	329.5	341.7
85°	1710.6	634.6	541.0	412.9	325.4	307.1	307.1	292.9	254.2	256.3	272.6
87.5°	520.7	382.4	358.0	294.9	233.9	229.8	219.7	209.5	185.1	183.1	193.2
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9
2.5°	10782.2	10666.3	10525.9	10216.8	10113.0	10106.9	10200.5	10102.9	10290.0	10210.7	10298.1
5°	8695.3	8581.4	8424.8	8030.2	7790.2	7627.5	7550.2	7322.4	7487.1	7367.1	7466.8
7.5°	6394.9	6421.3	6317.6	6085.7	5563.0	5300.6	5146.0	5007.7	5127.7	5115.5	5306.7
10°	4495.1	4566.3	4493.1	4259.2	3836.1	3691.7	3720.2	3775.1	3931.7	4013.1	4308.0
12.5°	3236.1	3232.0	3185.2	2975.7	2697.1	2713.3	2829.3	2924.9	3069.3	3154.7	3455.8
15°	2416.4	2379.8	2359.4	2188.6	2029.9	2064.5	2121.5	2131.6	2223.2	2274.0	2518.1
17.5°	1826.5	1844.8	1867.2	1745.2	1625.2	1602.8	1558.0	1503.1	1529.6	1539.7	1661.8
20°	1450.2	1523.5	1578.4	1493.0	1370.9	1305.8	1248.9	1212.3	1212.3	1210.2	1244.8
22.5°	1267.2	1320.1	1379.0	1320.1	1210.2	1153.3	1120.7	1092.3	1088.2	1088.2	1120.7
25°	1167.5	1206.2	1263.1	1222.4	1141.1	1098.4	1067.8	1031.2	1017.0	1012.9	1035.3
27.5°	1118.7	1135.0	1163.4	1126.8	1057.7	1037.3	1029.2	996.7	978.4	968.2	990.6
30°	1035.3	1031.2	1033.3	996.7	941.7	939.7	953.9	960.0	953.9	951.9	986.5
32.5°	958.0	949.9	947.8	915.3	864.4	852.2	864.4	876.7	890.9	911.2	951.9
35°	860.4	880.7	892.9	864.4	803.4	766.8	752.6	730.2	718.0	718.0	764.8
37.5°	783.1	829.9	848.2	821.7	754.6	703.8	679.4	675.3	677.3	685.5	730.2
40°	756.6	791.2	807.5	781.1	713.9	667.2	652.9	648.8	652.9	665.1	709.9
42.5°	740.4	764.8	762.7	730.2	675.3	642.7	634.6	630.5	634.6	646.8	695.6
45°	726.1	742.4	726.1	687.5	636.6	620.4	622.4	620.4	624.4	636.6	683.4
47.5°	713.9	720.0	699.7	661.0	608.2	604.1	612.2	618.3	622.4	632.6	681.4
50°	695.6	695.6	677.3	636.6	583.8	585.8	596.0	610.2	612.2	624.4	663.1
52.5°	673.3	671.2	659.0	620.4	563.4	569.5	569.5	585.8	589.9	604.1	644.8
55°	654.9	650.9	644.8	608.2	545.1	555.3	549.2	555.3	565.5	579.7	624.4
57.5°	638.7	630.5	630.5	598.0	530.9	534.9	520.7	528.8	541.0	553.2	600.0
60°	622.4	614.3	618.3	583.8	508.5	504.4	498.3	514.6	518.7	532.9	579.7
62.5°	604.1	598.0	600.0	567.5	492.2	482.1	482.1	496.3	498.3	518.7	563.4
65°	589.9	581.7	579.7	551.2	473.9	461.7	467.8	473.9	478.0	498.3	541.0
67.5°	575.6	559.3	559.3	537.0	453.6	441.4	453.6	451.5	457.6	476.0	510.5
70°	557.3	534.9	537.0	526.8	433.2	419.0	429.2	427.1	431.2	443.4	478.0
72.5°	528.8	510.5	514.6	510.5	412.9	392.6	396.6	396.6	396.6	406.8	443.4
75°	492.2	478.0	490.2	500.4	388.5	360.0	364.1	364.1	358.0	364.1	408.8
77.5°	447.5	439.3	480.0	465.8	360.0	325.4	325.4	321.4	309.2	317.3	366.1
80°	398.7	392.6	443.4	390.5	327.5	282.7	278.7	268.5	256.3	262.4	311.2
82.5°	347.8	341.7	372.2	299.0	282.7	233.9	223.7	205.4	193.2	199.3	244.1
85°	284.8	284.8	286.8	225.8	215.6	179.0	166.8	142.4	128.1	132.2	174.9
87.5°	203.4	209.5	193.2	154.6	128.1	99.7	91.5	77.3	65.1	75.3	91.5
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: P192095

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-7050

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9
2.5°	10745.6	10969.3	11223.6	11549.0	11827.7	12285.3	12724.7	12989.1
5°	8034.3	8406.5	8870.3	9466.2	10021.5	10855.4	11683.3	12214.1
7.5°	5750.1	6148.8	6649.1	7393.6	8178.7	9242.5	10336.8	10971.4
10°	4757.5	5166.3	5587.4	6089.8	6732.5	7889.9	9183.5	9899.5
12.5°	3935.8	4373.1	4826.7	5355.5	5951.5	6984.7	8475.7	9299.4
15°	3012.3	3500.5	4035.4	4704.6	5451.1	6645.1	8300.7	9195.7
17.5°	2064.5	2609.6	3266.6	4092.4	5005.7	6535.2	8614.0	9645.2
20°	1421.8	1818.4	2520.1	3488.3	4586.7	6521.0	9216.0	10507.6
22.5°	1189.9	1366.8	1879.4	2933.0	4271.4	6695.9	10149.6	11717.8
25°	1100.4	1206.2	1501.1	2451.0	4041.5	7098.6	11435.1	13284.0
27.5°	1047.5	1143.1	1362.8	2135.7	3860.5	7566.5	12686.0	14801.4
30°	1067.8	1165.5	1324.1	1975.0	3614.4	7957.0	13796.6	15985.2
32.5°	962.1	1004.8	1135.0	1832.6	3437.5	8284.5	14768.8	16965.5
35°	819.7	895.0	1012.9	1765.5	3441.5	8504.1	15828.5	18218.5
37.5°	781.1	856.3	941.7	1741.1	3488.3	8738.0	17044.9	19687.0
40°	756.6	825.8	899.0	1726.9	3533.0	8951.6	18236.8	21139.3
42.5°	740.4	803.4	895.0	1678.0	3555.4	9142.8	19217.2	22373.9
45°	738.3	803.4	911.2	1629.2	3590.0	9348.2	20038.9	23287.2
47.5°	740.4	829.9	880.7	1570.2	3590.0	9692.0	21003.0	24102.8
50°	732.2	874.6	848.2	1486.9	3506.6	10342.9	22325.1	25195.1
52.5°	728.2	868.5	785.1	1358.7	3362.2	11376.1	24019.4	26700.2
55°	718.0	838.0	740.4	1167.5	3193.4	12503.0	25833.8	28480.0
57.5°	707.8	742.4	716.0	1000.7	2933.0	13296.2	27082.6	29869.2
60°	793.3	648.8	695.6	919.4	2585.2	13513.9	27033.8	30422.5
62.5°	734.3	608.2	669.2	901.1	2341.1	12903.7	25784.9	30123.5
65°	575.6	581.7	642.7	953.9	2276.0	11286.6	23572.0	28742.4
67.5°	526.8	555.3	616.3	1021.1	2282.1	9037.0	20264.7	25734.1
70°	496.3	526.8	585.8	1055.6	2298.4	6736.6	16021.8	20960.3
72.5°	461.7	488.2	551.2	1061.7	2192.6	4893.8	12348.4	15411.6
75°	421.0	445.4	502.4	925.5	1816.4	3394.7	9445.9	10544.2
77.5°	374.3	392.6	441.4	713.9	1348.5	2172.3	7090.5	7702.7
80°	319.3	329.5	370.2	522.7	923.4	1358.7	5609.8	6181.3
82.5°	256.3	260.4	286.8	392.6	600.0	872.6	3756.8	4287.7
85°	181.0	181.0	197.3	284.8	408.8	553.2	2040.1	2261.8
87.5°	85.4	87.5	87.5	156.6	213.6	280.7	469.9	288.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)