

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: P192098

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192098  
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-10-LED-E1-SLL-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 51777 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

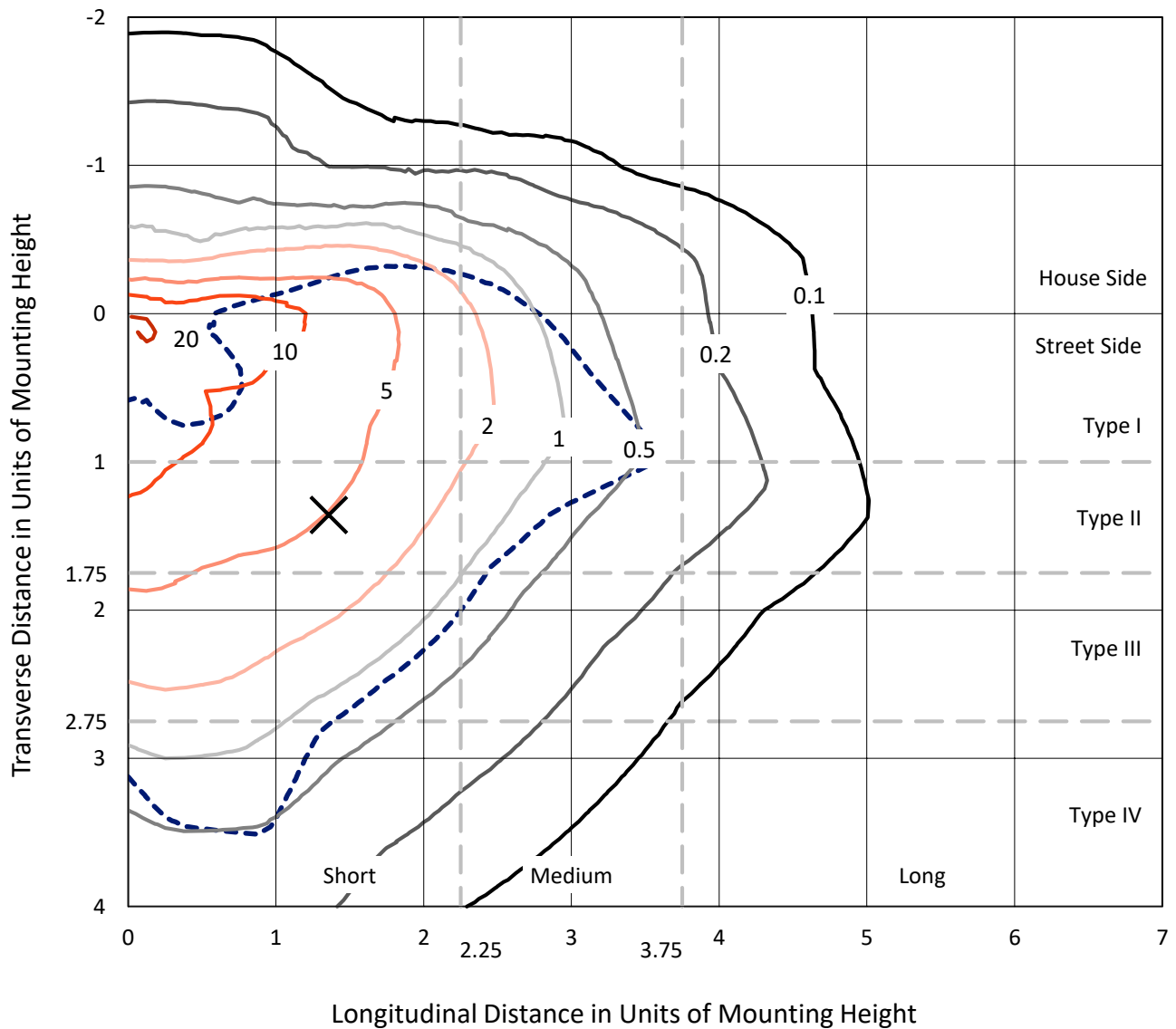
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

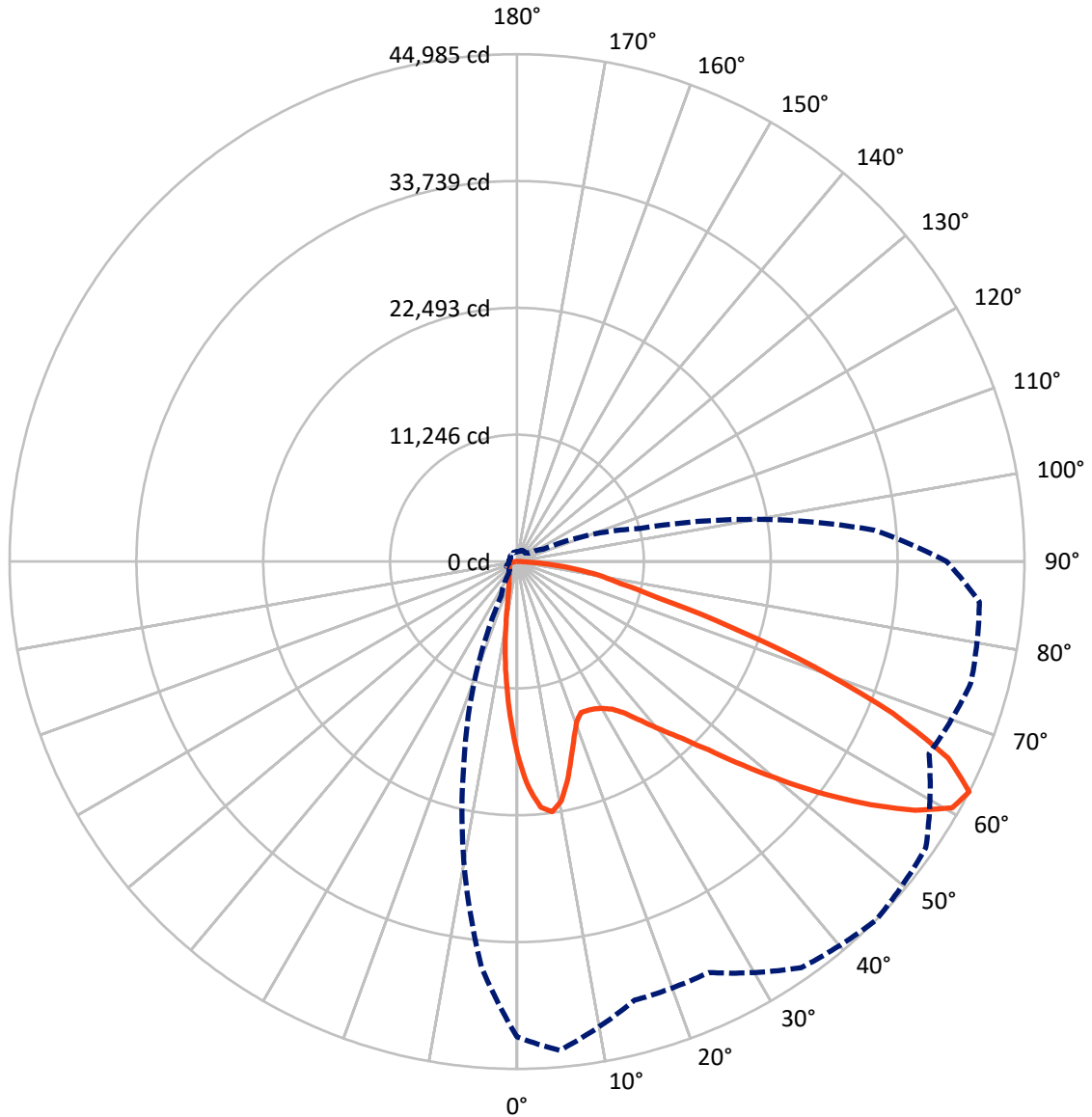
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 22.9 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	8568.4	0.0	8568.4
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	43208.6	0.0	43208.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	51777.0	0.0	51777.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1273.4	2.5
10°-20°	2335.1	4.5
20°-30°	3404.6	6.6
30°-40°	5243.5	10.1
40°-50°	7717.1	14.9
50°-60°	11319.3	21.9
60°-70°	12653.4	24.4
70°-80°	6194.9	12.0
80°-90°	1635.6	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°	51777.0	100.0
0°-180°	51777.0	100.0



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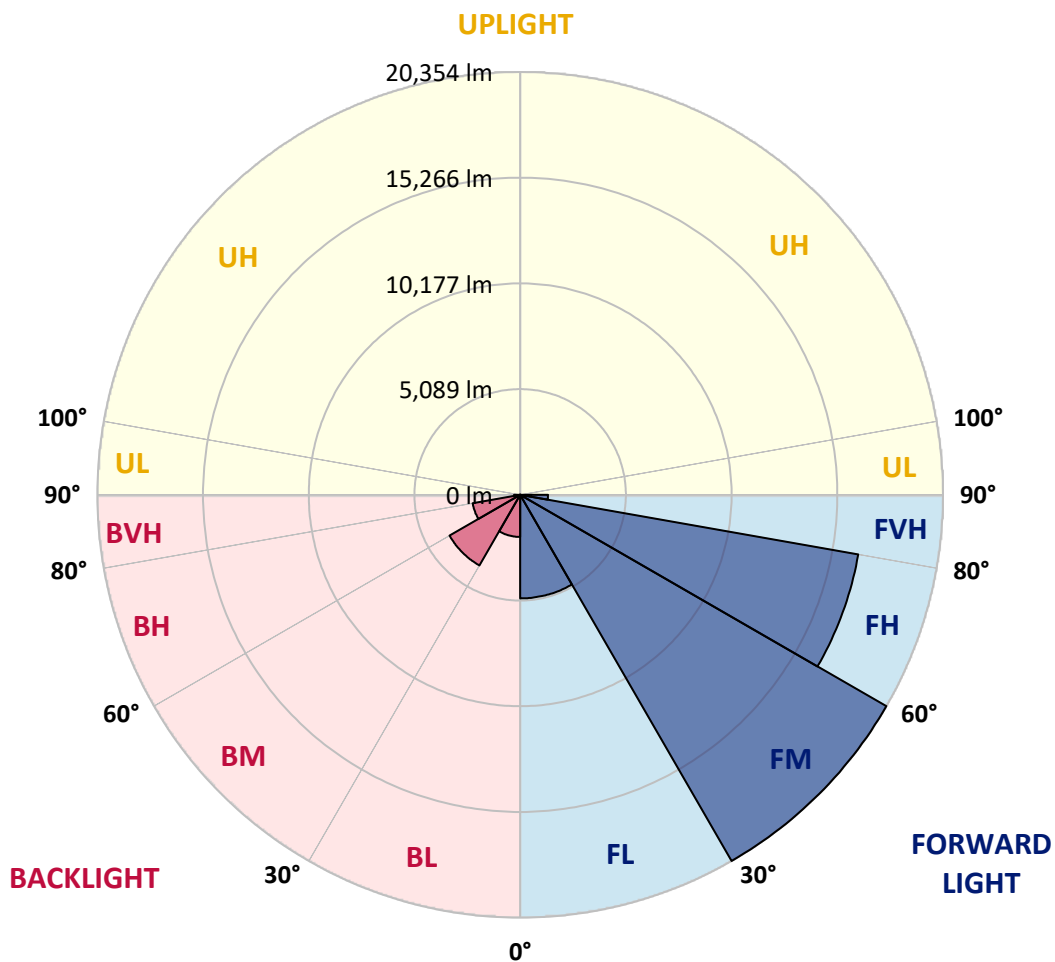
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7050

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4986.0	9.6			
FM	(30°-60°)	20354.0	39.3			
FH	(60°-80°)	16525.4	31.9			G5
FVH	(80°-90°)	1343.2	2.6			G5
BL	(0°-30°)	2027.1	3.9	B3/2500		
BM	(30°-60°)	3926.0	7.6	B3/5000		
BH	(60°-80°)	2322.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	292.4	0.6			G3/500
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°	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1
2.5°	18176.2	18466.5	19032.9	19457.0	19972.1	20091.7	20256.8	20094.5	19807.1	19425.7	19300.4
5°	17091.7	17712.2	19087.0	20296.6	21372.5	21873.4	22012.9	21600.2	20766.2	19670.4	19001.6
7.5°	15352.7	16235.0	18096.5	19878.2	21463.6	22400.0	22377.2	21418.0	19883.9	18099.3	17026.3
10°	13852.7	14860.3	16995.0	18987.3	20669.5	21577.4	21227.3	20000.6	18170.5	16115.5	14951.4
12.5°	13013.1	14000.7	16166.7	18167.6	19573.7	19886.8	19619.2	18418.1	16693.3	14615.5	13596.5
15°	12867.9	13952.3	15836.5	17464.6	18253.0	17979.8	17661.0	17123.0	15904.9	14131.6	13070.0
17.5°	13496.9	14692.3	16215.1	16975.0	16841.3	16365.9	16274.9	16334.6	16041.5	14669.6	13445.7
20°	14703.7	16138.2	17117.4	16744.5	15768.2	15113.6	15136.4	16050.0	16918.1	16032.9	14635.4
22.5°	16397.3	18033.8	18418.1	16866.9	15315.7	14538.7	14726.5	16206.6	18315.6	18025.3	16240.7
25°	18588.9	20080.3	19804.2	17310.9	15361.2	14609.8	14760.7	16747.3	19966.5	20017.7	18227.4
27.5°	20712.2	22095.4	20968.3	17900.1	15549.1	14777.7	14977.0	17598.4	21543.3	22180.8	20498.7
30°	22368.7	23330.7	21429.4	18438.0	15919.1	15105.1	15352.7	18406.7	22260.5	23641.0	22246.3
32.5°	23740.6	24432.2	22163.8	19104.0	16599.3	15620.2	16055.7	19388.7	23293.7	25029.9	23956.9
35°	25493.9	25690.3	23077.4	19846.9	17649.6	16516.8	17057.6	20350.7	24278.5	26433.1	25641.9
37.5°	27548.9	27295.5	23939.8	20863.0	19007.3	17920.0	18366.9	21406.7	25089.7	28024.2	27363.9
40°	29581.1	28972.0	25021.4	22439.8	20988.3	19573.7	20103.1	22533.8	25846.8	29618.1	29046.0
42.5°	31308.8	30406.5	26088.7	24173.2	22832.6	21398.1	22030.0	23669.4	26569.8	30978.6	30506.1
45°	32586.7	31465.3	27104.8	25838.3	25374.3	23823.1	24122.0	24970.2	27352.5	32114.3	31707.2
47.5°	33728.1	32529.8	28254.7	27517.6	27597.3	26976.8	26495.8	26484.4	28274.7	33042.1	32842.9
50°	35256.5	34007.0	29490.0	29248.1	30933.1	30520.4	29458.7	28251.9	29441.6	34095.2	34072.5
52.5°	37362.7	36346.6	30998.5	31112.4	34046.9	34317.3	33002.3	30375.2	31268.9	36027.8	35891.2
55°	39853.2	39261.2	33053.5	33255.6	37866.5	38060.1	36753.6	33030.7	33955.8	38825.7	38447.2
57.5°	41797.2	41672.0	35307.7	35828.6	40718.5	41589.4	40388.3	36104.7	36984.2	41182.4	40231.8
60°	42571.4	43177.6	37707.1	38424.4	43356.9	44321.8	43268.7	38805.8	39668.2	42158.7	40109.4
62.5°	42153.0	43507.8	40263.1	40203.3	43946.1	44985.0	44245.0	40308.6	41657.7	41151.1	38080.0
65°	40220.4	42320.9	41746.0	39745.1	41931.0	42016.4	41777.3	39636.9	42127.4	37966.1	34157.9
67.5°	36010.8	39033.5	39793.4	35817.2	36494.6	35939.6	35538.3	35959.5	39679.6	33193.0	28707.3
70°	29330.6	33878.9	34243.2	28647.5	28340.1	27967.3	27167.5	29481.5	34849.5	27204.5	22778.5
72.5°	21566.0	26347.7	27466.3	21011.0	19587.9	19664.7	19032.9	22217.8	28334.4	20208.4	17006.4
75°	14755.0	19078.4	21489.2	14661.0	12953.3	12984.6	12904.9	15742.6	22567.9	14057.6	12725.6
77.5°	10778.8	13630.7	16206.6	9856.6	9569.1	9392.6	9349.9	11015.0	17302.4	10206.7	9882.2
80°	8649.8	10070.0	10886.9	6831.0	7346.2	7331.9	7095.7	7573.9	11299.6	7465.7	7391.7
82.5°	5999.9	7739.0	8820.5	5353.8	4958.2	4875.6	4932.6	5641.3	7986.6	5103.3	4852.9
85°	3165.0	5140.3	8735.1	4744.7	2943.0	2348.2	2920.3	4619.5	6919.2	2703.9	2368.1
87.5°	404.2	1485.7	5783.6	1892.8	1161.3	626.2	1386.1	2601.5	4443.0	552.2	481.0
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°	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1
2.5°	18978.8	18600.3	18105.0	17646.8	17171.4	16699.0	16081.3	15694.2	15426.7	15375.4	15261.6
5°	18517.7	17259.7	16309.0	15486.5	14740.7	13687.6	13104.1	12620.3	12361.3	12335.7	12273.0
7.5°	16391.6	14655.3	13371.7	12207.6	11151.6	10300.6	9361.3	8923.0	8743.7	8786.4	8829.1
10°	14180.0	12238.9	10764.5	9574.8	8644.1	7926.8	7172.6	6663.1	6310.1	6239.0	6224.8
12.5°	12563.4	10434.4	9002.7	8163.0	7442.9	6768.4	5968.6	5368.0	4909.8	4753.2	4647.9
15°	11880.3	9552.0	8052.0	7146.9	6352.8	5496.1	4753.2	4124.2	3703.0	3566.4	3489.5
17.5°	12025.4	9307.2	7397.4	6239.0	5222.9	4329.1	3392.7	2854.8	2601.5	2536.0	2536.0
20°	12788.2	9261.7	6856.6	5402.2	4135.6	3099.6	2331.1	2023.7	1941.1	1932.6	1955.4
22.5°	13858.4	9421.1	6452.5	4676.4	3213.4	2262.8	1815.9	1702.1	1665.1	1673.6	1699.2
25°	15452.3	9959.0	6159.3	4030.3	2521.8	1852.9	1619.5	1551.2	1534.1	1556.9	1588.2
27.5°	17342.2	10497.0	5977.1	3543.6	2129.0	1693.5	1539.8	1468.7	1480.1	1508.5	1537.0
30°	19001.6	10938.1	5689.7	3196.3	2006.6	1702.1	1539.8	1443.0	1431.7	1437.4	1445.9
32.5°	20490.2	11237.0	5353.8	2866.2	1730.5	1511.4	1437.4	1423.1	1360.5	1337.7	1340.6
35°	21773.8	11237.0	5151.7	2672.6	1551.2	1340.6	1221.0	1149.9	1118.6	1121.4	1152.7
37.5°	23011.9	11012.1	5052.1	2564.5	1454.4	1275.1	1169.8	1107.2	1064.5	1056.0	1061.7
40°	24104.9	10684.8	4938.2	2518.9	1380.4	1235.3	1135.7	1084.4	1038.9	1024.7	1027.5
42.5°	24981.5	10420.1	4813.0	2459.2	1334.9	1206.8	1112.9	1067.3	1016.1	1001.9	999.0
45°	25929.3	10331.9	4647.9	2339.6	1357.7	1209.7	1107.2	1058.8	1007.6	990.5	984.8
47.5°	27178.9	10608.0	4477.2	2197.3	1406.0	1223.9	1115.7	1058.8	1004.7	990.5	984.8
50°	28752.8	11256.9	4260.8	1989.5	1357.7	1263.7	1112.9	1050.3	1004.7	990.5	979.1
52.5°	30773.7	12133.6	3976.2	1750.4	1329.2	1360.5	1107.2	1033.2	990.5	970.6	950.6
55°	33230.0	12850.8	3637.5	1554.1	1263.7	1334.9	1098.7	1013.3	967.7	939.3	922.2
57.5°	35028.8	13109.8	3202.0	1426.0	1172.7	1292.2	1087.3	987.6	939.3	916.5	893.7
60°	34673.0	12608.9	2834.9	1346.3	1118.6	1167.0	1078.7	964.9	913.6	896.6	876.6
62.5°	31823.9	11299.6	2598.6	1309.3	1084.4	1064.5	1087.3	942.1	890.9	873.8	868.1
65°	27551.7	9367.0	2504.7	1300.7	1056.0	1004.7	1010.4	916.5	865.3	851.0	845.3
67.5°	22727.3	7559.6	2422.2	1329.2	1019.0	962.0	933.6	882.3	839.6	825.4	814.0
70°	17922.8	6287.4	2385.2	1312.1	973.4	919.3	888.0	845.3	808.3	794.1	785.6
72.5°	14433.3	5311.1	2365.2	1295.0	913.6	862.4	834.0	797.0	757.1	751.4	742.9
75°	12213.3	4175.5	2166.0	1241.0	845.3	794.1	774.2	740.0	700.2	700.2	694.5
77.5°	9421.1	3019.9	1801.7	1098.7	774.2	717.3	700.2	674.6	629.0	637.6	634.7
80°	6959.1	1969.6	1408.9	910.8	685.9	631.9	623.3	597.7	549.3	560.7	560.7
82.5°	4767.5	1292.2	1013.3	745.7	586.3	535.1	535.1	509.5	455.4	461.1	478.2
85°	2393.7	888.0	757.1	577.8	455.4	429.8	429.8	409.9	355.8	358.6	381.4
87.5°	728.6	535.1	500.9	412.7	327.3	321.6	307.4	293.2	259.0	256.2	270.4
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°	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1
2.5°	15088.0	14925.7	14729.3	14296.7	14151.6	14143.0	14273.9	14137.3	14399.2	14288.2	14410.6
5°	12167.7	12008.3	11789.2	11237.0	10901.1	10673.4	10565.3	10246.5	10477.1	10309.1	10448.6
7.5°	8948.6	8985.6	8840.5	8516.0	7784.5	7417.3	7201.0	7007.5	7175.4	7158.3	7425.9
10°	6290.2	6389.8	6287.4	5960.0	5368.0	5165.9	5205.8	5282.6	5501.8	5615.7	6028.4
12.5°	4528.4	4522.7	4457.2	4164.1	3774.1	3796.9	3959.1	4092.9	4295.0	4414.5	4835.8
15°	3381.3	3330.1	3301.7	3062.6	2840.6	2888.9	2968.6	2982.9	3111.0	3182.1	3523.7
17.5°	2555.9	2581.5	2612.9	2442.1	2274.2	2242.8	2180.2	2103.4	2140.4	2154.6	2325.4
20°	2029.4	2131.8	2208.7	2089.1	1918.4	1827.3	1747.6	1696.4	1696.4	1693.5	1741.9
22.5°	1773.2	1847.2	1929.8	1847.2	1693.5	1613.8	1568.3	1528.4	1522.7	1522.7	1568.3
25°	1633.7	1687.8	1767.5	1710.6	1596.7	1537.0	1494.3	1443.0	1423.1	1417.4	1448.7
27.5°	1565.4	1588.2	1628.1	1576.8	1480.1	1451.6	1440.2	1394.7	1369.0	1354.8	1386.1
30°	1448.7	1443.0	1445.9	1394.7	1317.8	1315.0	1334.9	1343.4	1334.9	1332.0	1380.4
32.5°	1340.6	1329.2	1326.4	1280.8	1209.7	1192.6	1209.7	1226.7	1246.7	1275.1	1332.0
35°	1204.0	1232.4	1249.5	1209.7	1124.3	1073.0	1053.1	1021.8	1004.7	1004.7	1070.2
37.5°	1095.8	1161.3	1186.9	1149.9	1056.0	984.8	950.6	945.0	947.8	959.2	1021.8
40°	1058.8	1107.2	1130.0	1093.0	999.0	933.6	913.6	908.0	913.6	930.7	993.3
42.5°	1036.0	1070.2	1067.3	1021.8	945.0	899.4	888.0	882.3	888.0	905.1	973.4
45°	1016.1	1038.9	1016.1	962.0	890.9	868.1	871.0	868.1	873.8	890.9	956.3
47.5°	999.0	1007.6	979.1	925.0	851.0	845.3	856.7	865.3	871.0	885.2	953.5
50°	973.4	973.4	947.8	890.9	816.9	819.7	834.0	853.9	856.7	873.8	927.9
52.5°	942.1	939.3	922.2	868.1	788.4	797.0	797.0	819.7	825.4	845.3	902.3
55°	916.5	910.8	902.3	851.0	762.8	777.0	768.5	777.0	791.3	811.2	873.8
57.5°	893.7	882.3	882.3	836.8	742.9	748.6	728.6	740.0	757.1	774.2	839.6
60°	871.0	859.6	865.3	816.9	711.6	705.9	697.3	720.1	725.8	745.7	811.2
62.5°	845.3	836.8	839.6	794.1	688.8	674.6	674.6	694.5	697.3	725.8	788.4
65°	825.4	814.0	811.2	771.3	663.2	646.1	654.6	663.2	668.9	697.3	757.1
67.5°	805.5	782.7	782.7	751.4	634.7	617.6	634.7	631.9	640.4	666.0	714.4
70°	779.9	748.6	751.4	737.2	606.3	586.3	600.6	597.7	603.4	620.5	668.9
72.5°	740.0	714.4	720.1	714.4	577.8	549.3	555.0	555.0	555.0	569.3	620.5
75°	688.8	668.9	685.9	700.2	543.6	503.8	509.5	509.5	500.9	509.5	572.1
77.5°	626.2	614.8	671.7	651.8	503.8	455.4	455.4	449.7	432.6	444.0	512.3
80°	557.9	549.3	620.5	546.5	458.2	395.6	389.9	375.7	358.6	367.2	435.5
82.5°	486.7	478.2	520.9	418.4	395.6	327.3	313.1	287.5	270.4	278.9	341.6
85°	398.5	398.5	401.3	315.9	301.7	250.5	233.4	199.2	179.3	185.0	244.8
87.5°	284.6	293.2	270.4	216.3	179.3	139.5	128.1	108.2	91.1	105.3	128.1
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: P192098

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7050

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1
2.5°	15036.7	15349.8	15705.6	16161.0	16551.0	17191.4	17806.1	18176.2
5°	11242.7	11763.6	12412.5	13246.5	14023.5	15190.4	16348.9	17091.7
7.5°	8046.4	8604.2	9304.4	10346.1	11444.8	12933.4	14464.6	15352.7
10°	6657.4	7229.5	7818.7	8521.7	9421.1	11040.6	12850.8	13852.7
12.5°	5507.5	6119.4	6754.2	7494.2	8328.1	9774.0	11860.3	13013.1
15°	4215.3	4898.4	5647.0	6583.4	7628.0	9298.7	11615.6	12867.9
17.5°	2888.9	3651.7	4571.1	5726.7	7004.6	9145.0	12053.9	13496.9
20°	1989.5	2544.5	3526.5	4881.3	6418.3	9125.1	12896.4	14703.7
22.5°	1665.1	1912.7	2629.9	4104.3	5977.1	9369.9	14202.8	16397.3
25°	1539.8	1687.8	2100.5	3429.7	5655.5	9933.4	16001.6	18588.9
27.5°	1465.8	1599.6	1907.0	2988.6	5402.2	10588.1	17752.1	20712.2
30°	1494.3	1630.9	1852.9	2763.7	5057.8	11134.5	19306.1	22368.7
32.5°	1346.3	1406.0	1588.2	2564.5	4810.2	11592.8	20666.6	23740.6
35°	1147.0	1252.4	1417.4	2470.5	4815.9	11900.2	22149.5	25493.9
37.5°	1093.0	1198.3	1317.8	2436.4	4881.3	12227.5	23851.6	27548.9
40°	1058.8	1155.6	1258.0	2416.5	4943.9	12526.4	25519.5	29581.1
42.5°	1036.0	1124.3	1252.4	2348.2	4975.2	12793.9	26891.4	31308.8
45°	1033.2	1124.3	1275.1	2279.8	5023.6	13081.4	28041.3	32586.7
47.5°	1036.0	1161.3	1232.4	2197.3	5023.6	13562.4	29390.4	33728.1
50°	1024.7	1223.9	1186.9	2080.6	4906.9	14473.2	31240.5	35256.5
52.5°	1019.0	1215.3	1098.7	1901.3	4704.9	15919.1	33611.4	37362.7
55°	1004.7	1172.7	1036.0	1633.7	4468.6	17495.9	36150.2	39853.2
57.5°	990.5	1038.9	1001.9	1400.4	4104.3	18605.9	37897.8	41797.2
60°	1110.0	908.0	973.4	1286.5	3617.6	18910.5	37829.5	42571.4
62.5°	1027.5	851.0	936.4	1260.9	3276.0	18056.6	36081.9	42153.0
65°	805.5	814.0	899.4	1334.9	3185.0	15793.8	32985.2	40220.4
67.5°	737.2	777.0	862.4	1428.8	3193.5	12645.9	28357.2	36010.8
70°	694.5	737.2	819.7	1477.2	3216.3	9426.8	22419.9	29330.6
72.5°	646.1	683.1	771.3	1485.7	3068.3	6848.1	17279.6	21566.0
75°	589.2	623.3	703.0	1295.0	2541.7	4750.4	13218.0	14755.0
77.5°	523.7	549.3	617.6	999.0	1887.1	3039.8	9922.0	10778.8
80°	446.9	461.1	518.0	731.5	1292.2	1901.3	7850.0	8649.8
82.5°	358.6	364.3	401.3	549.3	839.6	1221.0	5257.0	5999.9
85°	253.3	253.3	276.1	398.5	572.1	774.2	2854.8	3165.0
87.5°	119.5	122.4	122.4	219.2	298.9	392.8	657.5	404.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)