

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: P192148

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192148  
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-SLR-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 56798 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 640  
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

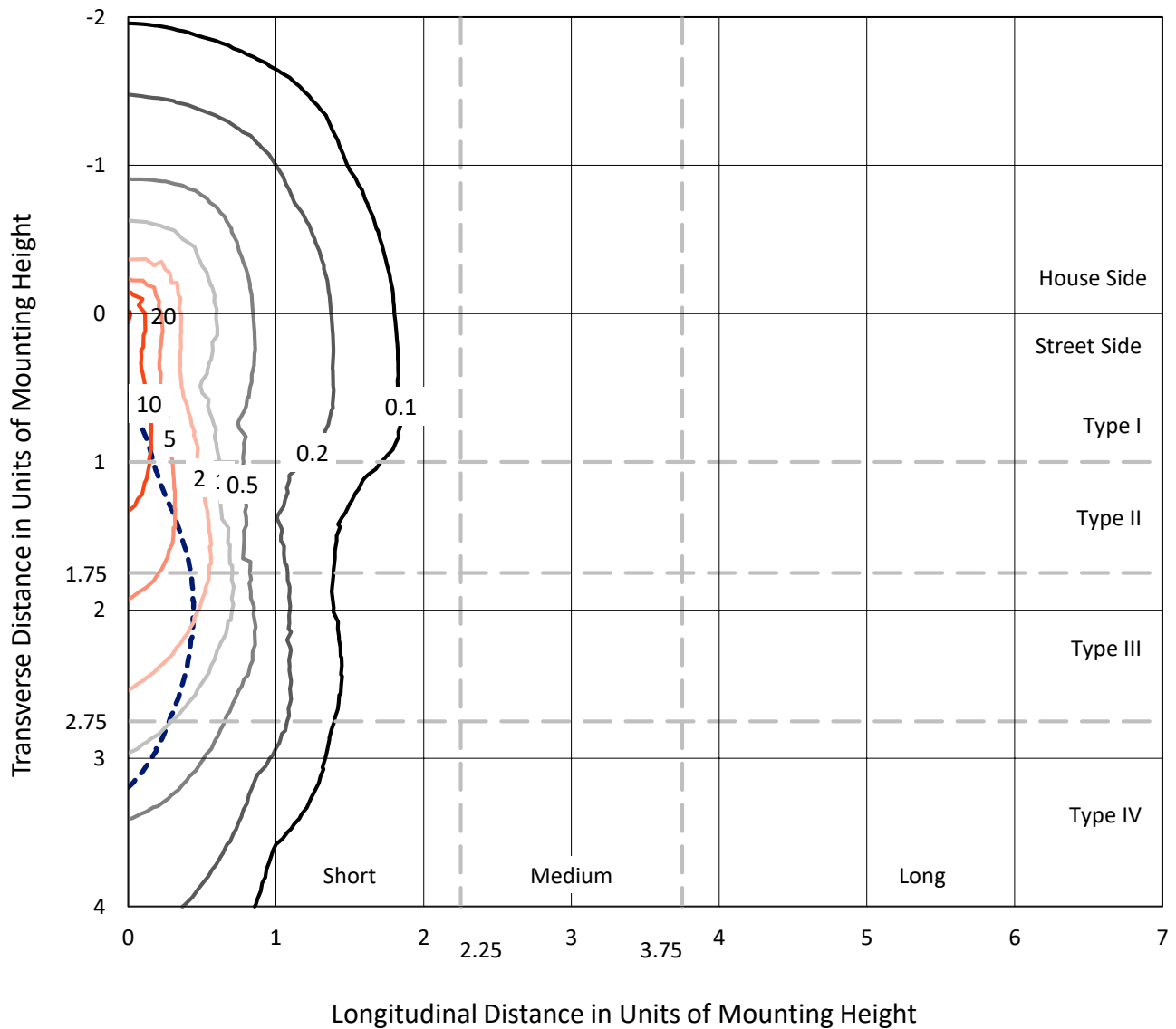


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

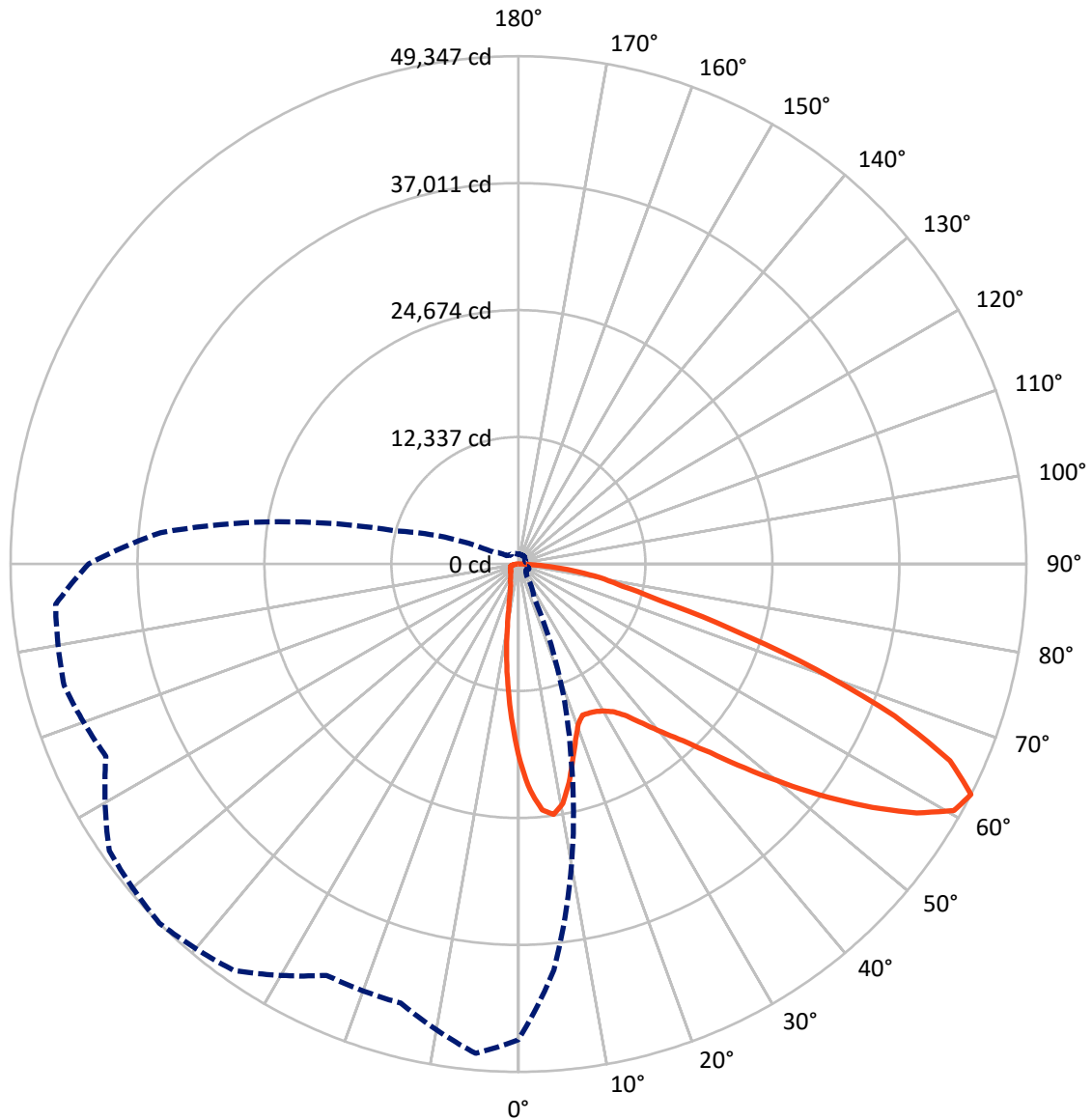


Based on 30 foot mounting height. Maximum calculated value = 21.3 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	9399.3	0.0	9399.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	47398.7	0.0	47398.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	56798.0	0.0	56798.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1396.9	2.5
10°-20°	2561.5	4.5
20°-30°	3734.7	6.6
30°-40°	5752.0	10.1
40°-50°	8465.5	14.9
50°-60°	12417.0	21.9
60°-70°	13880.4	24.4
70°-80°	6795.7	12.0
80°-90°	1794.2	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°	56798.0	100.0
0°-180°	56798.0	100.0

**Coefficient of Utilization**



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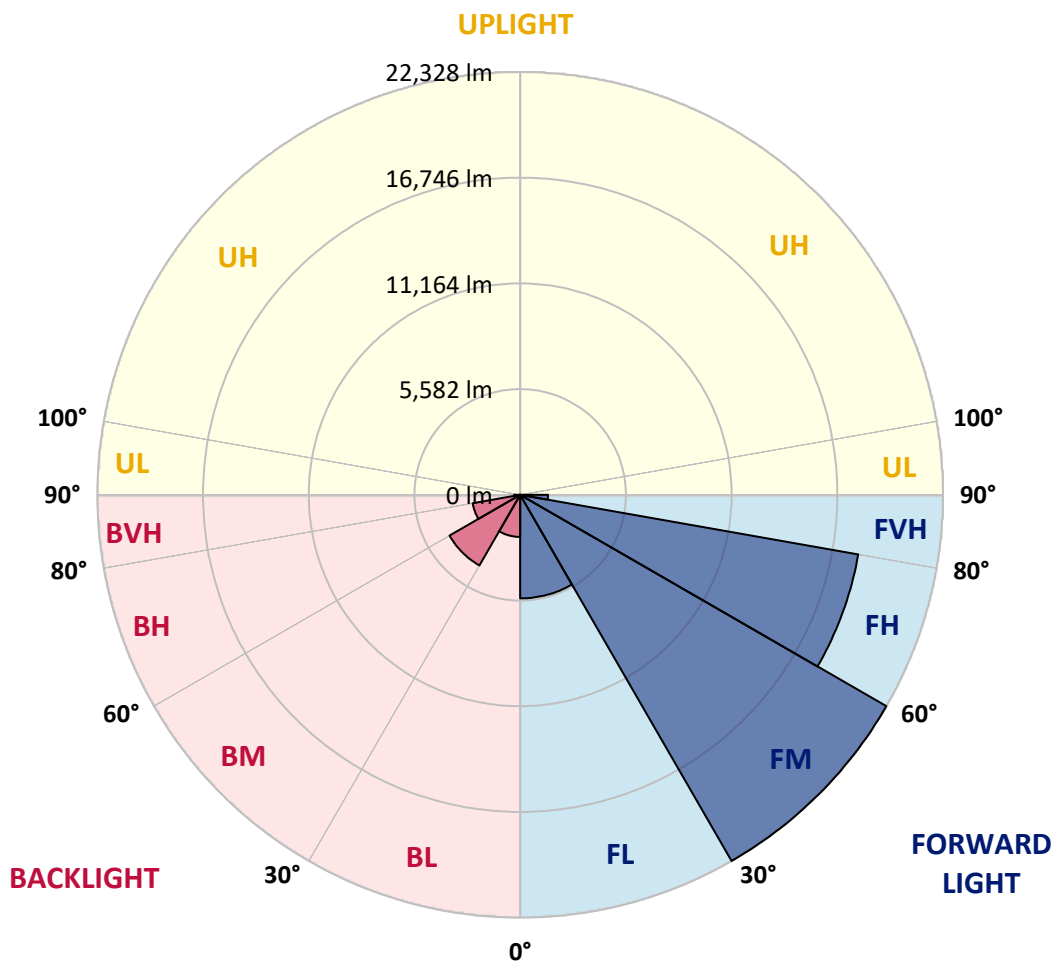
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7050-1200

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5469.5	9.6			
FM (30°-60°)	22327.8	39.3			
FH (60°-80°)	18128.0	31.9			G5
FVH (80°-90°)	1473.5	2.6			G5
BL (0°-30°)	2223.7	3.9	B3/2500		
BM (30°-60°)	4306.7	7.6	B3/5000		
BH (60°-80°)	2548.1	4.5	B4/5000		G4/5000
BVH (80°-90°)	320.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4
2.5°	19938.8	19532.9	18858.5	18156.0	17728.2	17228.6	16838.4	16494.9	15808.0	15673.8	15795.5
5°	18749.2	17934.3	16663.5	15383.4	14531.0	13616.2	12904.3	12332.9	11461.8	11308.8	11493.0
7.5°	16841.5	15867.3	14187.6	12554.6	11349.4	10206.7	9438.6	8826.6	8146.0	7852.5	7871.2
10°	15196.1	14097.0	12111.3	10334.7	9348.1	8576.9	7930.5	7303.0	6613.0	6160.2	6035.3
12.5°	14275.0	13010.5	10721.8	9135.7	8220.9	7409.1	6712.9	6041.6	5304.7	4842.6	4711.5
15°	14115.7	12742.0	10200.4	8367.7	7221.8	6194.6	5373.4	4624.1	3865.4	3490.7	3412.6
17.5°	14805.8	13222.8	10031.8	7683.9	6282.0	5014.4	4005.9	3169.1	2550.9	2363.6	2347.9
20°	16129.6	14147.0	10010.0	7040.7	5354.7	3868.5	2791.3	2182.5	1910.8	1857.7	1860.9
22.5°	17987.4	15580.1	10278.5	6556.8	4502.3	2885.0	2098.2	1826.5	1720.4	1670.4	1670.4
25°	20391.5	17553.4	10896.7	6203.9	3762.3	2304.2	1851.5	1689.1	1589.2	1554.9	1561.1
27.5°	22720.7	19473.5	11614.8	5926.1	3278.4	2091.9	1754.7	1608.0	1520.5	1486.2	1501.8
30°	24537.9	21178.3	12214.3	5548.3	3031.7	2032.6	1789.1	1639.2	1514.3	1461.2	1464.3
32.5°	26042.8	22670.7	12717.0	5276.6	2813.2	1742.2	1542.4	1476.8	1461.2	1398.8	1367.6
35°	27966.1	24297.4	13054.2	5282.9	2710.1	1554.9	1373.8	1258.3	1174.0	1102.2	1102.2
37.5°	30220.4	26164.6	13413.2	5354.7	2672.7	1445.6	1314.5	1198.9	1120.9	1052.2	1039.7
40°	32449.7	27994.2	13741.1	5423.4	2650.8	1380.0	1267.6	1161.5	1089.7	1021.0	1002.2
42.5°	34344.9	29499.1	14034.6	5457.7	2575.9	1373.8	1233.3	1136.5	1067.8	992.9	974.1
45°	35746.8	30760.5	14349.9	5510.8	2500.9	1398.8	1233.3	1133.4	1049.1	977.3	958.5
47.5°	36998.8	32240.5	14877.6	5510.8	2410.4	1351.9	1273.9	1136.5	1046.0	971.0	955.4
50°	38675.5	34270.0	15876.7	5382.8	2282.4	1302.0	1342.6	1124.0	1017.9	958.5	939.8
52.5°	40985.9	36870.8	17462.8	5161.1	2085.7	1205.2	1333.2	1117.8	989.8	927.3	905.5
55°	43717.9	39655.9	19192.5	4902.0	1792.2	1136.5	1286.4	1102.2	958.5	889.8	868.0
57.5°	45850.4	41572.9	20410.2	4502.3	1536.2	1099.0	1139.6	1086.5	921.1	849.3	830.5
60°	46699.7	41498.0	20744.3	3968.4	1411.3	1067.8	996.0	1217.7	889.8	818.0	796.2
62.5°	46240.7	39580.9	19807.6	3593.7	1383.2	1027.2	933.6	1127.1	864.9	796.2	765.0
65°	44120.7	36183.9	17325.4	3493.8	1464.3	986.6	893.0	883.6	830.5	765.0	733.7
67.5°	39502.9	31107.1	13872.2	3503.2	1567.4	946.0	852.4	808.7	783.7	730.6	702.5
70°	32174.9	24594.1	10340.9	3528.2	1620.5	899.2	808.7	761.8	733.7	680.7	661.9
72.5°	23657.4	18955.3	7512.2	3365.8	1629.8	846.1	749.3	708.8	680.7	624.5	608.8
75°	16185.8	14499.8	5211.1	2788.2	1420.6	771.2	683.8	646.3	627.6	558.9	549.5
77.5°	11824.0	10884.2	3334.6	2070.1	1095.9	677.5	602.6	574.5	562.0	487.1	474.6
80°	9488.6	8611.2	2085.7	1417.5	802.4	568.3	505.8	490.2	477.7	402.8	393.4
82.5°	6581.7	5766.8	1339.5	921.1	602.6	440.2	399.6	393.4	374.7	306.0	296.6
85°	3472.0	3131.6	849.3	627.6	437.1	302.9	277.9	277.9	268.5	202.9	196.7
87.5°	443.4	721.2	430.9	327.8	240.4	134.3	134.3	131.1	140.5	115.5	99.9
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°	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4
2.5°	15508.3	15658.1	15514.5	15523.9	15683.1	16157.7	16373.1	16551.1	16741.6	16866.5	16922.7
5°	11240.1	11589.8	11708.5	11958.3	12326.7	12932.4	13172.8	13347.7	13463.2	13531.9	13560.0
7.5°	7687.0	7899.3	8136.6	8539.4	9341.8	9697.7	9857.0	9816.4	9685.3	9638.4	9591.6
10°	5794.9	5710.6	5666.9	5888.6	6538.0	6897.1	7009.5	6900.2	6828.4	6844.0	6922.1
12.5°	4489.8	4343.1	4165.1	4140.1	4567.9	4889.5	4961.3	4967.5	5098.7	5214.2	5385.9
15°	3272.1	3256.5	3169.1	3116.0	3359.6	3621.8	3653.0	3709.2	3827.9	3912.2	4062.1
17.5°	2307.4	2391.7	2460.3	2494.7	2678.9	2866.2	2831.9	2803.8	2781.9	2781.9	2853.7
20°	1860.9	1917.1	2004.5	2104.4	2291.7	2422.9	2338.6	2226.2	2145.0	2120.0	2129.4
22.5°	1676.7	1720.4	1770.3	1857.7	2026.3	2116.9	2026.3	1945.2	1864.0	1835.9	1826.5
25°	1583.0	1639.2	1686.0	1751.6	1876.5	1938.9	1851.5	1792.2	1742.2	1707.9	1682.9
27.5°	1529.9	1579.9	1592.4	1623.6	1729.7	1785.9	1742.2	1717.2	1686.0	1654.8	1623.6
30°	1473.7	1464.3	1442.5	1445.6	1529.9	1586.1	1583.0	1589.2	1586.1	1576.7	1570.5
32.5°	1345.7	1327.0	1308.2	1327.0	1405.0	1455.0	1458.1	1470.6	1470.6	1467.5	1492.4
35°	1120.9	1155.2	1177.1	1233.3	1327.0	1370.7	1351.9	1320.7	1264.5	1230.2	1227.0
37.5°	1036.6	1042.8	1080.3	1158.4	1261.4	1302.0	1273.9	1202.1	1164.6	1158.4	1167.7
40°	996.0	1002.2	1024.1	1095.9	1198.9	1239.5	1214.6	1161.5	1127.1	1124.0	1139.6
42.5°	967.9	974.1	986.6	1036.6	1120.9	1170.8	1174.0	1136.5	1095.9	1099.0	1114.6
45°	952.3	955.4	952.3	977.3	1055.3	1114.6	1139.6	1114.6	1080.3	1086.5	1105.3
47.5°	949.2	939.8	927.3	933.6	1014.7	1074.1	1105.3	1095.9	1080.3	1086.5	1102.2
50°	936.7	914.8	899.2	896.1	977.3	1039.7	1067.8	1067.8	1074.1	1086.5	1102.2
52.5°	899.2	874.2	874.2	864.9	952.3	1011.6	1030.3	1033.5	1042.8	1064.7	1086.5
55°	852.4	843.0	852.4	836.8	933.6	989.8	999.1	1005.4	1011.6	1030.3	1061.6
57.5°	811.8	799.3	821.2	814.9	917.9	967.9	967.9	980.4	980.4	1005.4	1030.3
60°	789.9	765.0	774.3	780.6	896.1	949.2	942.9	955.4	961.7	983.5	1002.2
62.5°	761.8	740.0	740.0	755.6	871.1	921.1	917.9	927.3	952.3	958.5	977.3
65°	727.5	718.1	708.8	727.5	846.1	889.8	893.0	905.5	927.3	933.6	949.2
67.5°	693.1	696.3	677.5	696.3	824.3	858.6	858.6	883.6	893.0	905.5	921.1
70°	655.7	658.8	643.2	665.0	808.7	824.3	821.2	855.5	861.7	871.1	886.7
72.5°	608.8	608.8	602.6	633.8	783.7	789.9	783.7	811.8	814.9	824.3	830.5
75°	558.9	558.9	552.6	596.4	768.1	752.5	733.7	755.6	761.8	768.1	768.1
77.5°	493.3	499.6	499.6	552.6	715.0	736.9	674.4	686.9	696.3	699.4	690.0
80°	412.1	427.7	434.0	502.7	599.5	680.7	602.6	612.0	615.1	615.1	602.6
82.5°	315.3	343.4	359.1	434.0	459.0	571.4	524.5	533.9	524.5	505.8	499.6
85°	218.6	256.0	274.8	331.0	346.6	440.2	437.1	437.1	418.4	393.4	390.3
87.5°	118.6	140.5	153.0	196.7	237.3	296.6	321.6	312.2	296.6	281.0	284.1
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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**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4
2.5°	17216.2	17640.8	18318.3	18836.6	19358.0	19860.7	20404.0	20819.2	21172.1	21309.4	21727.8
5°	13844.1	14374.9	15015.0	16170.2	16988.2	17890.6	18933.4	20313.4	20844.2	21578.0	22780.0
7.5°	9788.3	10269.1	11299.5	12233.0	13391.4	14668.4	16076.5	17981.1	18677.4	19854.5	21812.1
10°	7309.2	7868.1	8695.5	9482.3	10503.3	11808.4	13425.7	15555.1	16401.2	17678.2	19932.5
12.5°	5888.6	6547.4	7424.7	8164.7	8954.6	9875.7	11446.2	13781.7	14915.0	16032.8	18312.1
15°	4524.2	5214.2	6029.1	6968.9	7840.0	8832.9	10478.3	13032.3	14337.4	15502.0	17447.2
17.5°	3131.6	3721.7	4749.0	5729.4	6844.0	8114.8	10209.8	13191.6	14749.6	16092.1	17597.1
20°	2219.9	2557.1	3400.1	4536.6	5926.1	7521.5	10159.8	14028.3	16054.7	17587.7	18558.7
22.5°	1867.1	1992.0	2482.2	3525.0	5129.9	7078.2	10334.7	15202.3	17815.6	19773.3	20091.8
25°	1701.6	1776.6	2032.6	2766.3	4421.1	6756.6	10924.8	16950.8	19995.0	21958.9	21902.7
27.5°	1611.1	1689.1	1857.7	2335.5	3887.2	6556.8	11514.9	19023.9	22486.5	24331.8	23632.4
30°	1583.0	1689.1	1867.1	2201.2	3506.3	6241.4	11998.9	20844.2	24403.6	25933.5	24419.2
32.5°	1561.1	1576.7	1657.9	1898.3	3144.1	5873.0	12326.7	22477.2	26280.1	27457.2	25552.6
35°	1261.4	1339.5	1470.6	1701.6	2931.8	5651.3	12326.7	23885.3	28128.5	28996.4	26632.9
37.5°	1214.6	1283.2	1398.8	1595.5	2813.2	5542.0	12080.0	25243.5	30017.4	30741.8	27522.7
40°	1189.6	1245.8	1355.1	1514.3	2763.2	5417.1	11721.0	26442.4	31862.7	32490.3	28353.3
42.5°	1170.8	1220.8	1323.8	1464.3	2697.6	5279.7	11430.6	27404.1	33464.4	33982.7	29146.3
45°	1161.5	1214.6	1327.0	1489.3	2566.5	5098.7	11333.8	28443.8	34782.0	35228.5	30004.9
47.5°	1161.5	1223.9	1342.6	1542.4	2410.4	4911.3	11636.7	29814.5	36027.8	36246.3	31016.6
50°	1152.1	1220.8	1386.3	1489.3	2182.5	4674.0	12348.5	31541.1	37376.6	37401.6	32296.7
52.5°	1133.4	1214.6	1492.4	1458.1	1920.2	4361.8	13310.2	33757.9	39371.7	39521.6	34301.2
55°	1111.5	1205.2	1464.3	1386.3	1704.8	3990.3	14097.0	36452.4	42175.5	42590.8	37248.6
57.5°	1083.4	1192.7	1417.5	1286.4	1564.3	3512.5	14381.1	38425.7	44133.2	45176.0	40570.7
60°	1058.4	1183.3	1280.1	1227.0	1476.8	3109.8	13831.6	38035.4	43998.9	46246.9	43515.0
62.5°	1033.5	1192.7	1167.7	1189.6	1436.2	2850.6	12395.4	34910.0	41772.7	45141.7	45697.4
65°	1005.4	1108.4	1102.2	1158.4	1426.9	2747.6	10275.4	30223.5	37470.3	41647.9	46212.6
67.5°	967.9	1024.1	1055.3	1117.8	1458.1	2657.0	8292.7	24931.3	31491.1	36411.8	43527.5
70°	927.3	974.1	1008.5	1067.8	1439.4	2616.5	6897.1	19660.9	24987.5	29842.6	38229.0
72.5°	874.2	914.8	946.0	1002.2	1420.6	2594.6	5826.1	15833.0	18655.5	22168.1	31082.1
75°	811.8	849.3	871.1	927.3	1361.3	2376.0	4580.4	13397.6	13959.6	15420.9	24756.4
77.5°	740.0	768.1	786.8	849.3	1205.2	1976.4	3312.7	10334.7	10840.5	11196.4	18980.2
80°	655.7	683.8	693.1	752.5	999.1	1545.5	2160.6	7633.9	8108.5	8189.7	12395.4
82.5°	558.9	587.0	587.0	643.2	818.0	1111.5	1417.5	5229.8	5323.5	5598.2	8761.1
85°	449.6	471.5	471.5	499.6	633.8	830.5	974.1	2625.8	2597.7	2966.1	7590.2
87.5°	321.6	337.2	352.8	359.1	452.7	549.5	587.0	799.3	527.7	605.7	4873.9
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: P192148

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7050-1200

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4	19189.4
2.5°	22043.2	22221.1	22040.0	21908.9	21343.8	20878.6	20257.2	19938.8
5°	23694.8	24147.6	23994.6	23445.1	22264.9	20937.9	19429.8	18749.2
7.5°	23495.0	24547.2	24572.2	23545.0	21805.9	19851.3	17809.4	16841.5
10°	21940.1	23285.8	23669.9	22673.9	20828.6	18643.0	16301.3	15196.1
12.5°	20204.2	21521.8	21815.2	21471.8	19929.4	17734.4	15358.4	14275.0
15°	18783.5	19373.6	19723.3	20023.1	19158.2	17372.3	15305.3	14115.7
17.5°	17918.7	17853.1	17953.0	18474.4	18621.2	17787.5	16117.1	14805.8
20°	17606.4	16604.2	16579.2	17297.3	18368.3	18777.3	17703.2	16129.6
22.5°	17778.2	16154.6	15948.5	16800.9	18502.5	20204.2	19782.7	17987.4
25°	18371.4	16192.1	16026.6	16850.8	18989.6	21724.7	22027.6	20391.5
27.5°	19304.9	16429.3	16210.8	17056.9	19635.9	23001.7	24238.1	22720.7
30°	20191.7	16841.5	16569.8	17462.8	20226.0	23507.5	25593.2	24537.9
32.5°	21268.9	17612.7	17135.0	18209.0	20956.6	24313.1	26801.5	26042.8
35°	22324.2	18711.7	18118.5	19361.1	21771.5	25315.3	28181.5	27966.1
37.5°	23482.5	20148.0	19657.8	20850.5	22886.2	26261.3	29942.5	30220.4
40°	24719.0	22052.5	21471.8	23023.6	24615.9	27447.8	31781.5	32449.7
42.5°	25964.7	24166.3	23473.2	25046.8	26517.4	28618.7	33355.1	34344.9
45°	27391.6	26461.2	26133.3	27835.0	28343.9	29733.3	34516.6	35746.8
47.5°	29052.7	29065.1	29592.8	30273.5	30186.0	30994.7	35684.3	36998.8
50°	30991.6	32315.4	33480.0	33932.7	32084.4	32349.8	37304.8	38675.5
52.5°	33320.8	36202.6	37645.1	37348.5	34129.4	34004.6	39871.3	40985.9
55°	36233.9	40317.8	41750.9	41538.6	36480.5	36258.8	43068.5	43717.9
57.5°	39605.9	44304.9	45622.5	44667.1	39303.0	38731.7	45713.0	45850.4
60°	42568.9	47464.6	48619.9	47561.4	42150.5	41363.7	47364.7	46699.7
62.5°	44217.5	48535.6	49347.4	48207.7	44102.0	44167.5	47726.9	46240.7
65°	43480.6	45828.6	46090.8	45997.2	43599.3	45794.2	46424.9	44120.7
67.5°	39446.7	38984.6	39424.8	40033.6	39290.5	43652.3	42818.7	39502.9
70°	32340.4	29802.0	30679.3	31088.4	31425.6	37563.9	37164.3	32174.9
72.5°	24372.4	20878.6	21571.7	21487.4	23048.5	30129.8	28902.8	23657.4
75°	17269.2	14156.3	14243.8	14209.4	16082.8	23573.1	20928.5	16185.8
77.5°	12083.2	10256.6	10303.5	10497.0	10812.4	17778.2	14952.5	11824.0
80°	8308.3	7783.8	8042.9	8058.6	7493.4	11942.7	11046.6	9488.6
82.5°	6188.3	5410.9	5348.4	5439.0	5873.0	9675.9	8489.4	6581.7
85°	5067.4	3203.4	2575.9	3228.4	5204.8	9582.2	5638.8	3472.0
87.5°	2853.7	1520.5	686.9	1273.9	2076.3	6344.4	1629.8	443.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)