

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: P269736

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269736
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 49346.9 lumens
Efficiency: N/A
Efficacy: 77.1 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): 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

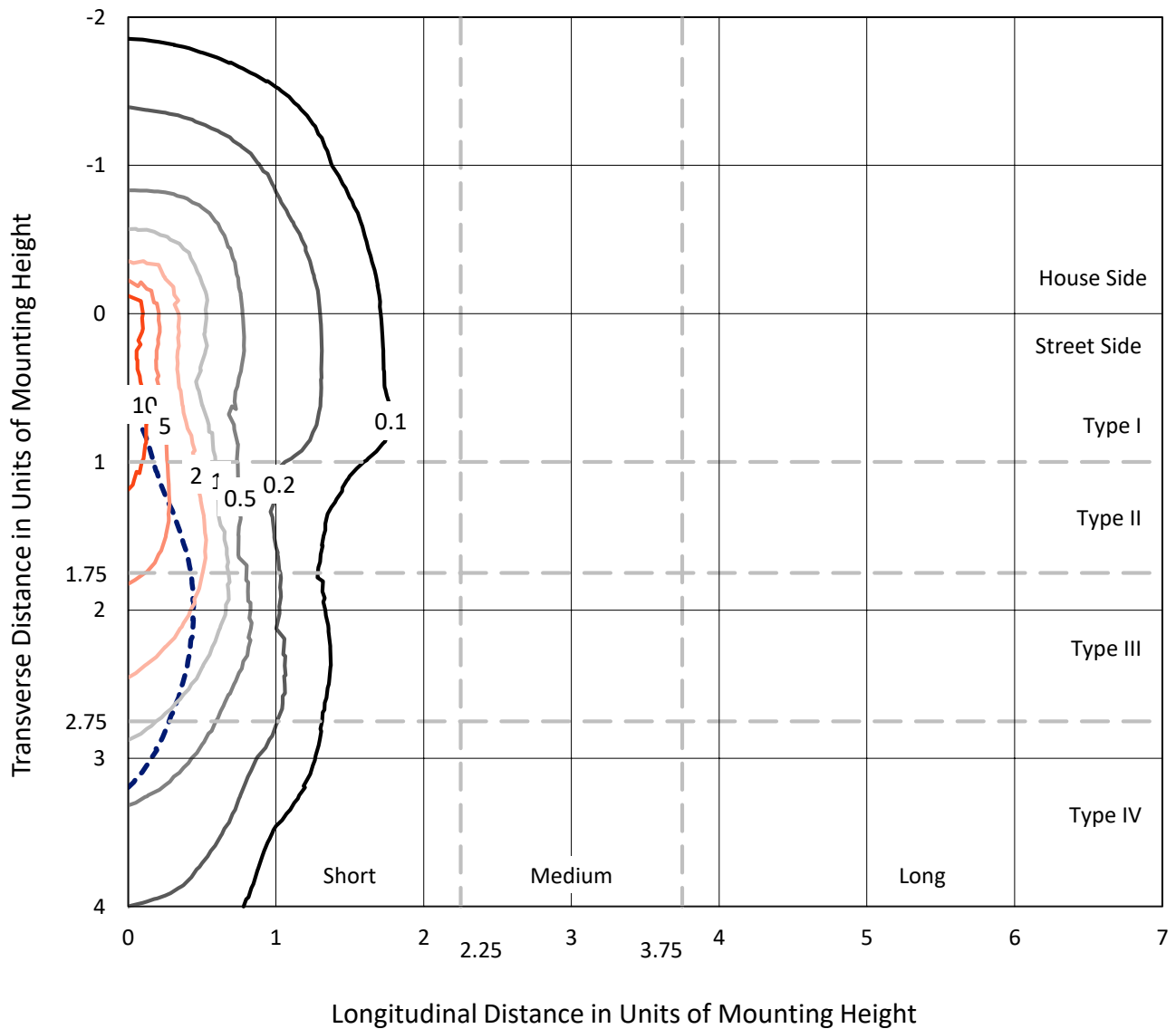


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

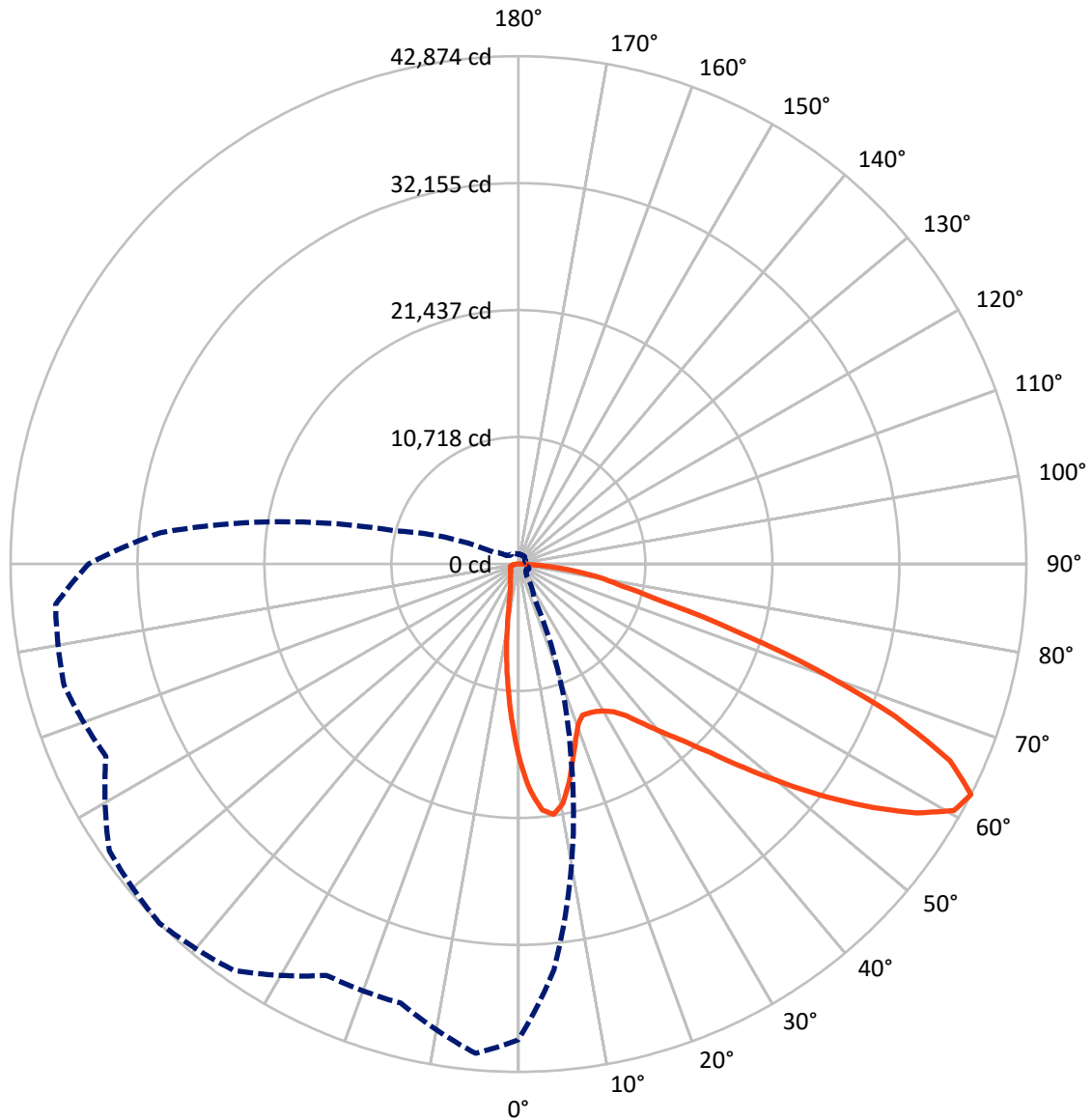


Based on 30 foot mounting height. Maximum calculated value = 18.5 fc
 Type IV - Short - Non-Cutoff

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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	8166.2	0.0	8166.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	41180.7	0.0	41180.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	49346.9	0.0	49346.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1213.7	2.5
10°-20°	2225.5	4.5
20°-30°	3244.8	6.6
30°-40°	4997.4	10.1
40°-50°	7354.9	14.9
50°-60°	10788.1	21.9
60°-70°	12059.5	24.4
70°-80°	5904.2	12.0
80°-90°	1558.8	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°	49346.9	100.0
0°-180°	49346.9	100.0

Coefficient of Utilization



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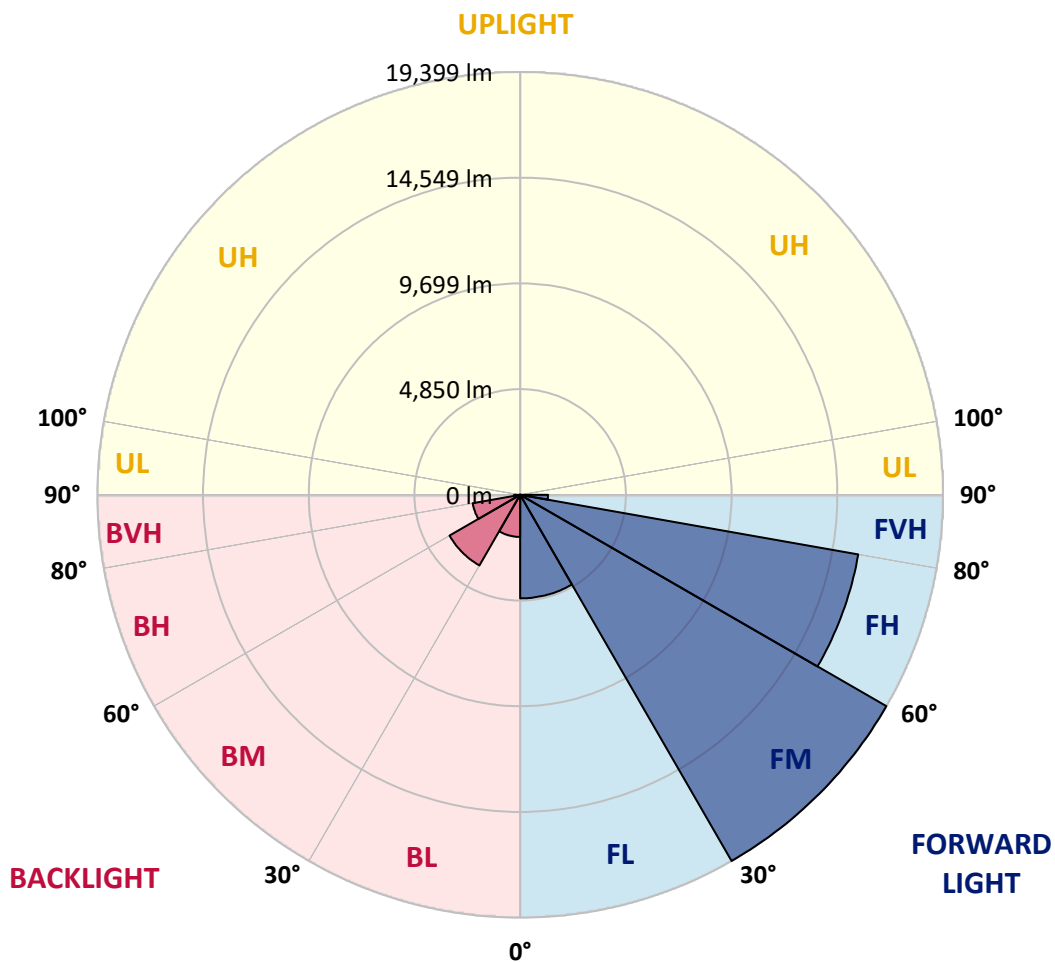
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4751.9	9.6			
FM	(30°-60°)	19398.7	39.3			
FH	(60°-80°)	15749.8	31.9			G5
FVH	(80°-90°)	1280.2	2.6			G5
BL	(0°-30°)	1932.0	3.9	B3/2500		
BM	(30°-60°)	3741.7	7.6	B3/5000		
BH	(60°-80°)	2213.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	278.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1
2.5°	17323.0	16970.4	16384.5	15774.1	15402.5	14968.5	14629.3	14331.0	13734.2	13617.5	13723.3
5°	16289.5	15581.6	14477.5	13365.3	12624.8	11829.9	11211.4	10715.1	9958.3	9825.3	9985.3
7.5°	14632.1	13785.7	12326.4	10907.6	9860.5	8867.7	8200.4	7668.7	7077.3	6822.4	6838.6
10°	13202.6	12247.8	10522.4	8978.9	8121.8	7451.7	6890.2	6344.9	5745.4	5352.1	5243.5
12.5°	12402.3	11303.7	9315.3	7937.2	7142.5	6437.2	5832.2	5248.9	4608.8	4207.3	4093.3
15°	12264.0	11070.4	8862.3	7270.0	6274.4	5381.9	4668.5	4017.5	3358.3	3032.8	2964.9
17.5°	12863.5	11488.2	8715.7	6675.8	5457.9	4356.5	3480.4	2753.3	2216.3	2053.4	2040.0
20°	14013.6	12291.1	8696.9	6117.1	4652.2	3361.0	2425.2	1896.1	1660.2	1614.1	1616.8
22.5°	15627.6	13536.2	8930.1	5696.6	3911.7	2506.5	1822.9	1586.9	1494.7	1451.3	1451.3
25°	17716.5	15250.6	9467.1	5390.1	3268.8	2002.0	1608.7	1467.6	1380.8	1351.0	1356.4
27.5°	19740.1	16918.9	10091.1	5148.6	2848.3	1817.5	1524.6	1397.0	1321.0	1291.3	1304.8
30°	21318.8	18400.1	10611.9	4820.5	2634.0	1766.0	1554.3	1424.2	1315.7	1269.6	1272.2
32.5°	22626.4	19696.6	11048.8	4584.4	2444.1	1513.6	1340.0	1283.0	1269.6	1215.2	1188.2
35°	24297.4	21110.0	11341.7	4589.8	2354.5	1351.0	1193.6	1093.1	1019.9	957.6	957.6
37.5°	26255.9	22732.1	11653.6	4652.2	2322.1	1256.0	1142.0	1041.7	973.9	914.1	903.3
40°	28192.8	24321.8	11938.5	4711.9	2303.1	1199.0	1101.3	1009.2	946.8	887.0	870.7
42.5°	29839.3	25629.3	12193.5	4741.8	2237.9	1193.6	1071.5	987.3	927.7	862.6	846.4
45°	31057.3	26725.1	12467.4	4787.8	2172.8	1215.2	1071.5	984.7	911.5	849.1	832.8
47.5°	32145.0	28010.9	12925.8	4787.8	2094.2	1174.5	1106.8	987.3	908.7	843.7	830.0
50°	33601.8	29774.2	13794.0	4676.7	1983.0	1131.1	1166.4	976.5	884.3	832.8	816.5
52.5°	35609.2	32033.9	15172.0	4484.0	1812.2	1047.1	1158.4	971.2	859.9	805.7	786.6
55°	37982.8	34453.6	16674.8	4258.9	1557.0	987.3	1117.6	957.6	832.8	773.1	754.1
57.5°	39835.5	36119.2	17732.7	3911.7	1334.6	954.9	990.1	943.9	800.2	737.9	721.6
60°	40573.3	36054.1	18023.0	3447.9	1226.1	927.7	865.3	1057.9	773.1	710.6	691.8
62.5°	40174.5	34388.5	17209.2	3122.2	1201.8	892.5	811.1	979.2	751.4	691.8	664.6
65°	38332.7	31437.1	15052.5	3035.5	1272.2	857.3	775.9	767.7	721.6	664.6	637.4
67.5°	34320.6	27026.2	12052.4	3043.5	1361.8	821.9	740.6	702.6	680.8	634.7	610.4
70°	27954.0	21367.7	8984.4	3065.2	1407.9	781.3	702.6	662.0	637.4	591.4	575.0
72.5°	20553.8	16468.5	6526.6	2924.3	1416.0	735.2	651.0	615.8	591.4	542.5	529.0
75°	14062.4	12597.7	4527.5	2422.4	1234.4	670.0	594.0	561.5	545.2	485.5	477.4
77.5°	10272.8	9456.4	2897.2	1798.4	952.2	588.7	523.5	499.1	488.3	423.2	412.3
80°	8243.7	7481.5	1812.2	1231.5	697.2	493.7	439.5	425.8	415.0	349.9	341.7
82.5°	5718.3	5010.2	1163.8	800.2	523.5	382.5	347.3	341.7	325.5	265.9	257.8
85°	3016.5	2720.7	737.9	545.2	379.8	263.2	241.5	241.5	233.3	176.3	170.9
87.5°	385.3	626.6	374.4	284.9	208.9	116.6	116.6	113.9	122.1	100.4	86.7
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°	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1
2.5°	13473.8	13604.0	13479.2	13487.4	13625.8	14038.1	14225.2	14379.9	14545.4	14653.8	14702.6
5°	9765.7	10069.5	10172.4	10389.4	10709.7	11235.9	11444.8	11596.7	11697.0	11756.7	11781.1
7.5°	6678.5	6863.1	7069.2	7419.1	8116.2	8425.6	8563.9	8528.6	8414.8	8374.0	8333.2
10°	5034.7	4961.5	4923.5	5116.0	5680.3	5992.2	6089.9	5995.0	5932.5	5946.2	6014.1
12.5°	3900.8	3773.3	3618.7	3597.1	3968.6	4248.1	4310.4	4315.8	4429.8	4530.2	4679.4
15°	2842.9	2829.3	2753.3	2707.2	2918.9	3146.8	3173.8	3222.7	3325.7	3398.9	3529.3
17.5°	2004.7	2077.9	2137.5	2167.4	2327.5	2490.2	2460.4	2435.9	2417.0	2417.0	2479.4
20°	1616.8	1665.5	1741.5	1828.3	1991.2	2105.0	2031.7	1934.1	1863.7	1842.0	1850.0
22.5°	1456.7	1494.7	1538.1	1614.1	1760.5	1839.2	1760.5	1690.0	1619.5	1595.0	1586.9
25°	1375.3	1424.2	1464.9	1521.8	1630.3	1684.6	1608.7	1557.0	1513.6	1483.8	1462.1
27.5°	1329.2	1372.6	1383.5	1410.6	1502.9	1551.6	1513.6	1491.9	1464.9	1437.6	1410.6
30°	1280.4	1272.2	1253.2	1256.0	1329.2	1378.0	1375.3	1380.8	1378.0	1369.8	1364.4
32.5°	1169.1	1152.9	1136.6	1152.9	1220.6	1264.2	1266.8	1277.7	1277.7	1275.0	1296.7
35°	973.9	1003.6	1022.7	1071.5	1152.9	1190.9	1174.5	1147.5	1098.6	1068.9	1066.1
37.5°	900.6	906.0	938.5	1006.5	1095.9	1131.1	1106.8	1044.4	1011.9	1006.5	1014.5
40°	865.3	870.7	889.7	952.2	1041.7	1076.9	1055.1	1009.2	979.2	976.5	990.1
42.5°	841.0	846.4	857.3	900.6	973.9	1017.2	1019.9	987.3	952.2	954.9	968.5
45°	827.3	830.0	827.3	849.1	916.9	968.5	990.1	968.5	938.5	943.9	960.3
47.5°	824.6	816.5	805.7	811.1	881.6	933.2	960.3	952.2	938.5	943.9	957.6
50°	813.9	794.8	781.3	778.6	849.1	903.3	927.7	927.7	933.2	943.9	957.6
52.5°	781.3	759.5	759.5	751.4	827.3	878.9	895.3	897.9	906.0	925.1	943.9
55°	740.6	732.4	740.6	727.0	811.1	859.9	868.0	873.5	878.9	895.3	922.3
57.5°	705.3	694.4	713.4	708.0	797.5	841.0	841.0	851.8	851.8	873.5	895.3
60°	686.3	664.6	672.7	678.2	778.6	824.6	819.3	830.0	835.6	854.5	870.7
62.5°	662.0	642.8	642.8	656.5	756.8	800.2	797.5	805.7	827.3	832.8	849.1
65°	632.0	624.0	615.8	632.0	735.2	773.1	775.9	786.6	805.7	811.1	824.6
67.5°	602.3	604.9	588.7	604.9	716.2	746.0	746.0	767.7	775.9	786.6	800.2
70°	569.6	572.4	558.8	577.8	702.6	716.2	713.4	743.3	748.6	756.8	770.3
72.5°	529.0	529.0	523.5	550.8	680.8	686.3	680.8	705.3	708.0	716.2	721.6
75°	485.5	485.5	480.1	518.1	667.4	653.7	637.4	656.5	662.0	667.4	667.4
77.5°	428.6	434.1	434.1	480.1	621.2	640.2	586.0	596.7	604.9	607.7	599.4
80°	358.1	371.5	377.1	436.8	520.8	591.4	523.5	531.6	534.4	534.4	523.5
82.5°	274.0	298.3	311.9	377.1	398.8	496.5	455.7	463.9	455.7	439.5	434.1
85°	189.9	222.4	238.7	287.5	301.1	382.5	379.8	379.8	363.5	341.7	339.1
87.5°	103.0	122.1	132.9	170.9	206.3	257.8	279.5	271.3	257.8	244.1	246.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1
2.5°	14957.7	15326.5	15915.2	16365.5	16818.5	17255.3	17727.3	18088.0	18394.7	18514.0	18877.4
5°	12027.9	12489.1	13045.2	14049.0	14759.6	15543.6	16449.7	17648.6	18109.8	18747.3	19791.5
7.5°	8504.3	8922.0	9817.1	10628.2	11634.6	12744.2	13967.6	15622.2	16227.2	17249.9	18950.7
10°	6350.4	6835.9	7554.7	8238.4	9125.4	10259.4	11664.5	13514.6	14249.6	15359.1	17317.6
12.5°	5116.0	5688.4	6450.6	7093.6	7780.0	8580.3	9944.6	11973.7	12958.4	13929.6	15909.8
15°	3930.7	4530.2	5238.1	6054.7	6811.5	7674.1	9103.8	11322.6	12456.5	13468.4	15158.4
17.5°	2720.7	3233.4	4125.9	4977.8	5946.2	7050.2	8870.5	11461.0	12814.6	13981.1	15288.7
20°	1928.8	2221.7	2954.0	3941.6	5148.6	6534.8	8827.0	12188.1	13948.5	15280.4	16124.0
22.5°	1622.2	1730.7	2156.7	3062.6	4456.9	6149.5	8978.9	13208.0	15478.4	17179.4	17456.0
25°	1478.4	1543.5	1766.0	2403.4	3841.2	5870.2	9491.6	14727.1	17372.0	19078.3	19029.3
27.5°	1399.6	1467.6	1614.1	2029.1	3377.3	5696.6	10004.3	16528.3	19536.6	21139.9	20532.2
30°	1375.3	1467.6	1622.2	1912.4	3046.3	5422.6	10424.8	18109.8	21202.2	22531.4	21215.8
32.5°	1356.4	1369.8	1440.4	1649.3	2731.7	5102.6	10709.7	19528.4	22832.5	23855.2	22200.4
35°	1095.9	1163.8	1277.7	1478.4	2547.2	4910.0	10709.7	20751.8	24438.4	25192.5	23139.0
37.5°	1055.1	1114.8	1215.2	1386.2	2444.1	4814.9	10495.3	21931.8	26079.6	26708.9	23912.2
40°	1033.5	1082.4	1177.3	1315.7	2400.7	4706.5	10183.4	22973.6	27682.8	28228.0	24633.7
42.5°	1017.2	1060.7	1150.2	1272.2	2343.8	4587.1	9931.1	23809.0	29074.4	29524.7	25322.7
45°	1009.2	1055.1	1152.9	1294.0	2229.9	4429.8	9847.0	24712.5	30219.2	30607.1	26068.8
47.5°	1009.2	1063.4	1166.4	1340.0	2094.2	4266.9	10110.2	25903.3	31301.5	31491.3	26947.6
50°	1001.0	1060.7	1204.4	1294.0	1896.1	4060.9	10728.5	27403.3	32473.3	32495.0	28059.8
52.5°	984.7	1055.1	1296.7	1266.8	1668.3	3789.6	11564.2	29329.3	34206.6	34337.0	29801.4
55°	965.7	1047.1	1272.2	1204.4	1481.1	3466.7	12247.8	31670.4	36642.8	37003.5	32362.1
57.5°	941.3	1036.3	1231.5	1117.6	1359.0	3051.7	12494.5	33384.8	38343.6	39249.6	35248.5
60°	919.5	1028.1	1112.2	1066.1	1283.0	2701.8	12017.2	33045.7	38227.0	40180.0	37806.4
62.5°	897.9	1036.3	1014.5	1033.5	1247.8	2476.6	10769.3	30330.4	36292.8	39219.7	39702.6
65°	873.5	963.1	957.6	1006.5	1239.8	2387.2	8927.4	26258.6	32554.8	36184.3	40150.1
67.5°	841.0	889.7	916.9	971.2	1266.8	2308.5	7204.9	21660.7	27359.9	31635.2	37817.2
70°	805.7	846.4	876.1	927.7	1250.5	2273.3	5992.2	17081.7	21709.5	25927.7	33213.9
72.5°	759.5	794.8	821.9	870.7	1234.4	2254.2	5061.8	13755.9	16208.2	19259.9	27004.6
75°	705.3	737.9	756.8	805.7	1182.7	2064.3	3979.5	11640.1	12128.3	13398.0	21508.7
77.5°	642.8	667.4	683.6	737.9	1047.1	1717.1	2878.1	8978.9	9418.4	9727.7	16490.2
80°	569.6	594.0	602.3	653.7	868.0	1342.7	1877.2	6632.5	7044.8	7115.4	10769.3
82.5°	485.5	510.0	510.0	558.8	710.6	965.7	1231.5	4543.6	4625.2	4863.9	7611.8
85°	390.7	409.5	409.5	434.1	550.8	721.6	846.4	2281.3	2256.9	2577.1	6594.5
87.5°	279.5	292.9	306.5	311.9	393.4	477.4	510.0	694.4	458.5	526.2	4234.5
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: P269736

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7027-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1
2.5°	19151.4	19306.1	19148.7	19034.7	18543.8	18139.7	17599.9	17323.0
5°	20586.5	20979.7	20846.8	20369.3	19344.0	18191.1	16880.9	16289.5
7.5°	20412.8	21327.0	21348.7	20456.3	18945.3	17247.2	15473.0	14632.1
10°	19061.9	20231.1	20564.7	19699.4	18096.1	16197.2	14162.9	13202.6
12.5°	17553.7	18698.4	18953.3	18655.0	17314.9	15408.0	13343.7	12402.3
15°	16319.4	16832.1	17135.9	17396.3	16645.0	15093.3	13297.5	12264.0
17.5°	15567.9	15511.0	15597.8	16050.8	16178.4	15454.0	14002.8	12863.5
20°	15296.7	14425.9	14404.2	15028.1	15958.6	16313.9	15380.8	14013.6
22.5°	15445.9	14035.4	13856.3	14596.9	16075.3	17553.7	17187.5	15627.6
25°	15961.4	14067.8	13924.1	14640.2	16498.5	18874.7	19137.9	17716.5
27.5°	16772.4	14274.1	14084.2	14819.2	17059.9	19984.2	21058.4	19740.1
30°	17542.8	14632.1	14396.1	15172.0	17572.6	20423.7	22235.7	21318.8
32.5°	18478.7	15302.2	14887.2	15820.3	18207.4	21123.6	23285.5	22626.4
35°	19395.6	16256.9	15741.5	16821.2	18915.4	21994.3	24484.6	24297.4
37.5°	20401.9	17504.8	17078.9	18115.2	19883.9	22816.2	26014.5	26255.9
40°	21476.1	19159.6	18655.0	20003.2	21386.7	23847.0	27612.2	28192.8
42.5°	22558.5	20996.1	20393.9	21761.0	23038.7	24864.2	28979.4	29839.3
45°	23798.2	22989.9	22705.0	24183.5	24625.5	25832.6	29988.6	31057.3
47.5°	25241.4	25252.3	25710.7	26302.1	26226.0	26928.6	31003.1	32145.0
50°	26925.9	28076.0	29087.9	29481.3	27875.3	28105.9	32410.9	33601.8
52.5°	28949.6	31453.3	32706.6	32448.9	29652.2	29543.6	34640.8	35609.2
55°	31480.6	35028.7	36273.7	36089.2	31694.8	31502.2	37418.4	37982.8
57.5°	34410.1	38492.7	39637.5	38807.4	34147.0	33650.6	39716.1	39835.5
60°	36984.5	41238.0	42241.7	41322.0	36621.1	35937.5	41151.1	40573.3
62.5°	38416.7	42168.3	42873.6	41883.6	38316.5	38373.3	41465.9	40174.5
65°	37776.7	39816.6	40044.4	39963.0	37879.6	39786.7	40334.6	38332.7
67.5°	34271.9	33870.4	34252.8	34781.8	34136.2	37925.8	37201.5	34320.6
70°	28097.7	25892.3	26654.7	27010.0	27302.9	32636.1	32288.9	27954.0
72.5°	21175.0	18139.7	18741.8	18668.5	20024.8	26177.1	25111.2	20553.8
75°	15003.8	12299.2	12375.2	12345.3	13973.0	20480.6	18183.0	14062.4
77.5°	10498.0	8911.0	8951.8	9120.0	9393.9	15445.9	12991.0	10272.8
80°	7218.4	6762.7	6987.8	7001.4	6510.3	10376.0	9597.4	8243.7
82.5°	5376.4	4701.1	4646.8	4725.4	5102.6	8406.6	7375.8	5718.3
85°	4402.7	2783.2	2237.9	2804.9	4522.0	8325.2	4899.0	3016.5
87.5°	2479.4	1321.0	596.7	1106.8	1803.9	5512.1	1416.0	385.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)