

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: P269732

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269732
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 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

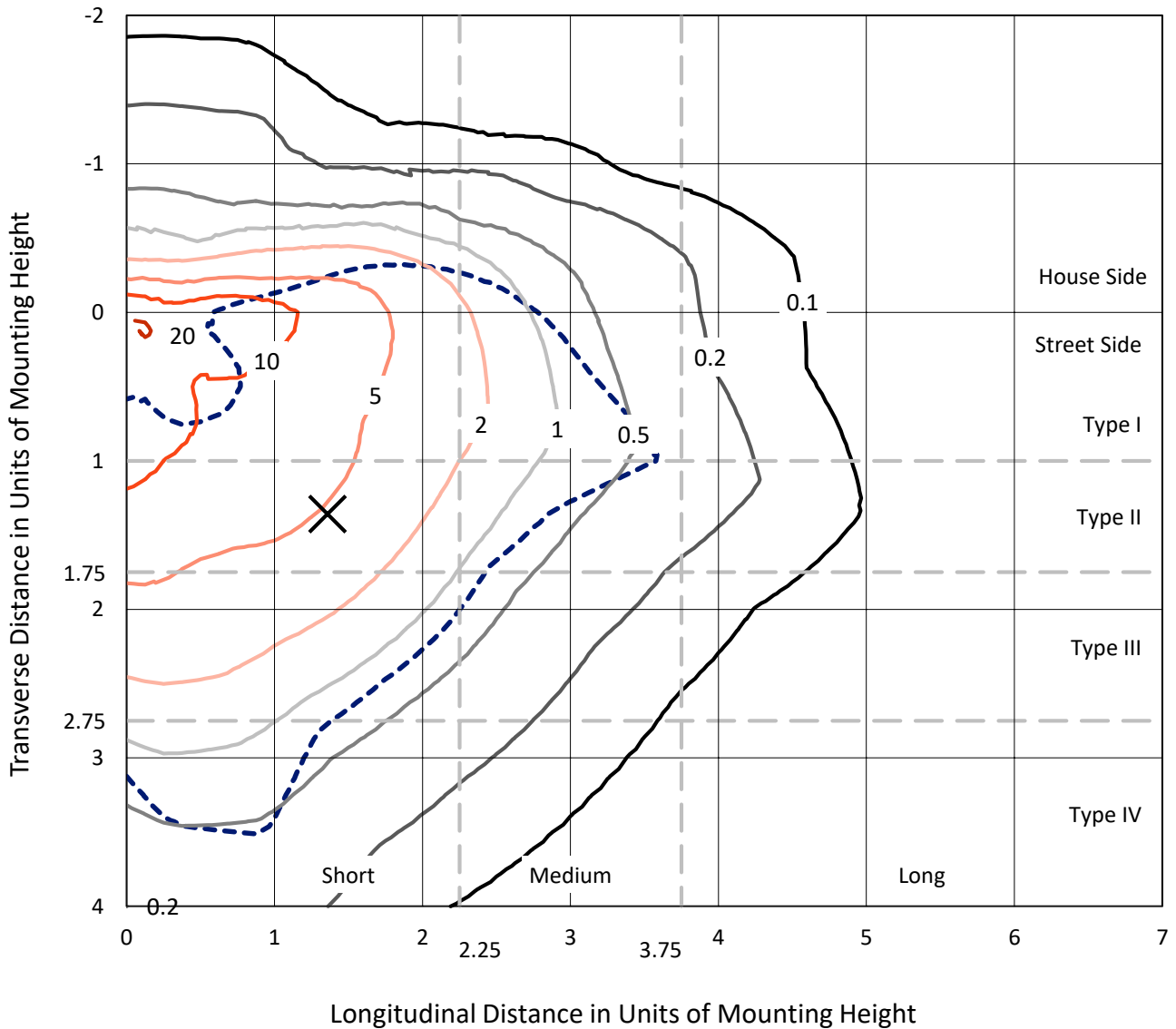


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

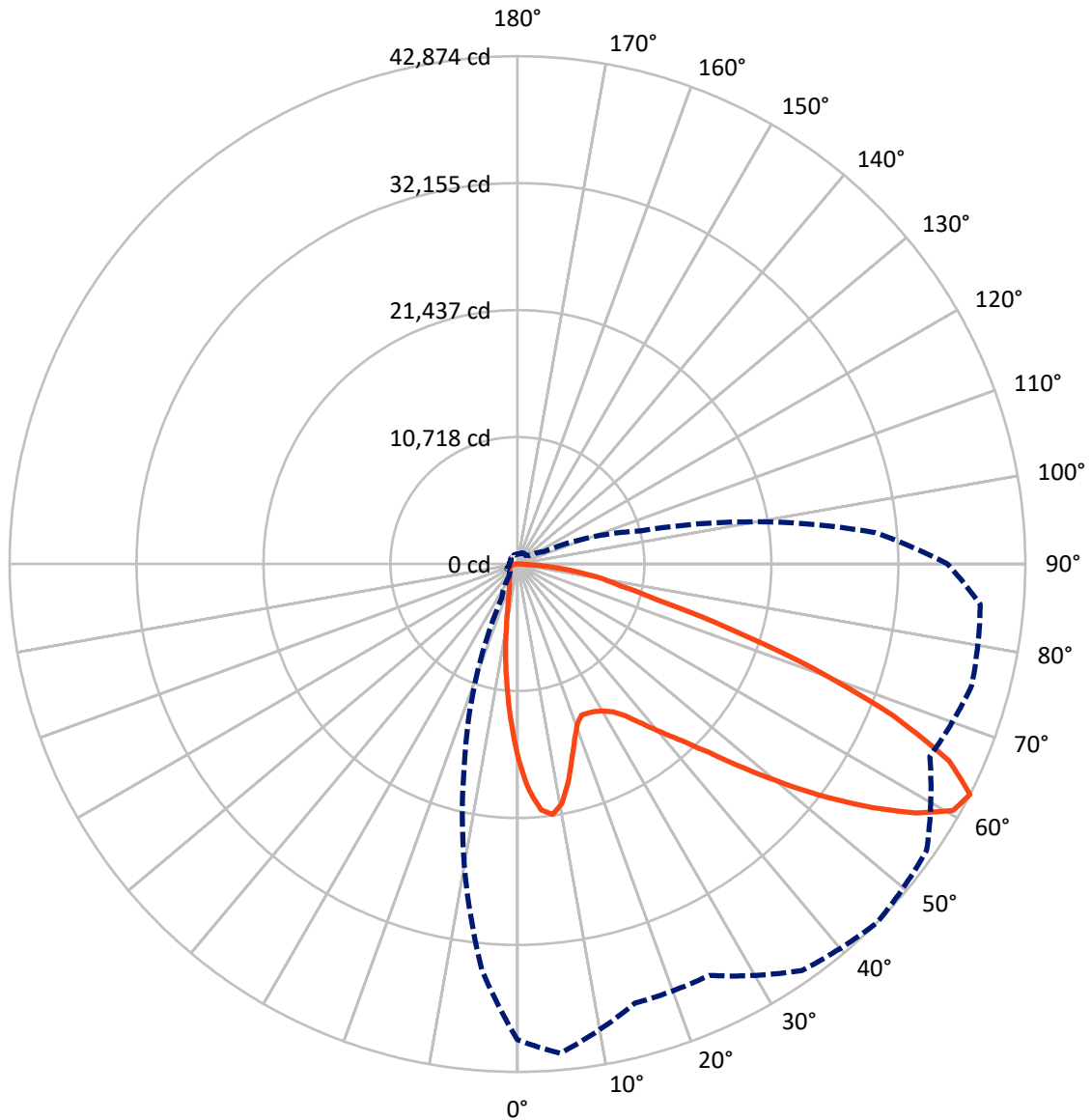


Based on 30 foot mounting height. Maximum calculated value = 21.8 fc
 Type IV - Short - Non-Cutoff

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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
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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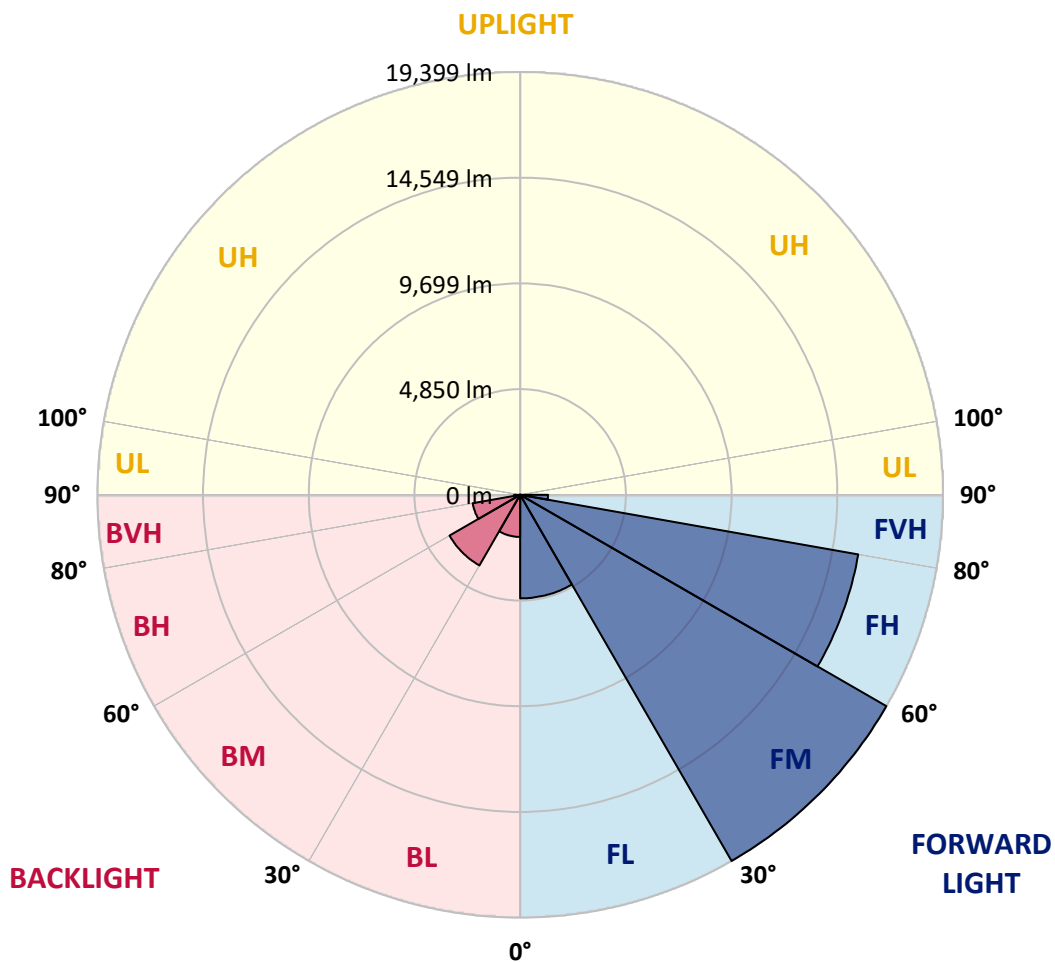
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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	17599.9	18139.7	18543.8	19034.7	19148.7	19306.1	19151.4	18877.4	18514.0	18394.7
5°	16289.5	16880.9	18191.1	19344.0	20369.3	20846.8	20979.7	20586.5	19791.5	18747.3	18109.8
7.5°	14632.1	15473.0	17247.2	18945.3	20456.3	21348.7	21327.0	20412.8	18950.7	17249.9	16227.2
10°	13202.6	14162.9	16197.2	18096.1	19699.4	20564.7	20231.1	19061.9	17317.6	15359.1	14249.6
12.5°	12402.3	13343.7	15408.0	17314.9	18655.0	18953.3	18698.4	17553.7	15909.8	13929.6	12958.4
15°	12264.0	13297.5	15093.3	16645.0	17396.3	17135.9	16832.1	16319.4	15158.4	13468.4	12456.5
17.5°	12863.5	14002.8	15454.0	16178.4	16050.8	15597.8	15511.0	15567.9	15288.7	13981.1	12814.6
20°	14013.6	15380.8	16313.9	15958.6	15028.1	14404.2	14425.9	15296.7	16124.0	15280.4	13948.5
22.5°	15627.6	17187.5	17553.7	16075.3	14596.9	13856.3	14035.4	15445.9	17456.0	17179.4	15478.4
25°	17716.5	19137.9	18874.7	16498.5	14640.2	13924.1	14067.8	15961.4	19029.3	19078.3	17372.0
27.5°	19740.1	21058.4	19984.2	17059.9	14819.2	14084.2	14274.1	16772.4	20532.2	21139.9	19536.6
30°	21318.8	22235.7	20423.7	17572.6	15172.0	14396.1	14632.1	17542.8	21215.8	22531.4	21202.2
32.5°	22626.4	23285.5	21123.6	18207.4	15820.3	14887.2	15302.2	18478.7	22200.4	23855.2	22832.5
35°	24297.4	24484.6	21994.3	18915.4	16821.2	15741.5	16256.9	19395.6	23139.0	25192.5	24438.4
37.5°	26255.9	26014.5	22816.2	19883.9	18115.2	17078.9	17504.8	20401.9	23912.2	26708.9	26079.6
40°	28192.8	27612.2	23847.0	21386.7	20003.2	18655.0	19159.6	21476.1	24633.7	28228.0	27682.8
42.5°	29839.3	28979.4	24864.2	23038.7	21761.0	20393.9	20996.1	22558.5	25322.7	29524.7	29074.4
45°	31057.3	29988.6	25832.6	24625.5	24183.5	22705.0	22989.9	23798.2	26068.8	30607.1	30219.2
47.5°	32145.0	31003.1	26928.6	26226.0	26302.1	25710.7	25252.3	25241.4	26947.6	31491.3	31301.5
50°	33601.8	32410.9	28105.9	27875.3	29481.3	29087.9	28076.0	26925.9	28059.8	32495.0	32473.3
52.5°	35609.2	34640.8	29543.6	29652.2	32448.9	32706.6	31453.3	28949.6	29801.4	34337.0	34206.6
55°	37982.8	37418.4	31502.2	31694.8	36089.2	36273.7	35028.7	31480.6	32362.1	37003.5	36642.8
57.5°	39835.5	39716.1	33650.6	34147.0	38807.4	39637.5	38492.7	34410.1	35248.5	39249.6	38343.6
60°	40573.3	41151.1	35937.5	36621.1	41322.0	42241.7	41238.0	36984.5	37806.4	40180.0	38227.0
62.5°	40174.5	41465.9	38373.3	38316.5	41883.6	42873.6	42168.3	38416.7	39702.6	39219.7	36292.8
65°	38332.7	40334.6	39786.7	37879.6	39963.0	40044.4	39816.6	37776.7	40150.1	36184.3	32554.8
67.5°	34320.6	37201.5	37925.8	34136.2	34781.8	34252.8	33870.4	34271.9	37817.2	31635.2	27359.9
70°	27954.0	32288.9	32636.1	27302.9	27010.0	26654.7	25892.3	28097.7	33213.9	25927.7	21709.5
72.5°	20553.8	25111.2	26177.1	20024.8	18668.5	18741.8	18139.7	21175.0	27004.6	19259.9	16208.2
75°	14062.4	18183.0	20480.6	13973.0	12345.3	12375.2	12299.2	15003.8	21508.7	13398.0	12128.3
77.5°	10272.8	12991.0	15445.9	9393.9	9120.0	8951.8	8911.0	10498.0	16490.2	9727.7	9418.4
80°	8243.7	9597.4	10376.0	6510.3	7001.4	6987.8	6762.7	7218.4	10769.3	7115.4	7044.8
82.5°	5718.3	7375.8	8406.6	5102.6	4725.4	4646.8	4701.1	5376.4	7611.8	4863.9	4625.2
85°	3016.5	4899.0	8325.2	4522.0	2804.9	2237.9	2783.2	4402.7	6594.5	2577.1	2256.9
87.5°	385.3	1416.0	5512.1	1803.9	1106.8	596.7	1321.0	2479.4	4234.5	526.2	458.5
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°	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1
2.5°	18088.0	17727.3	17255.3	16818.5	16365.5	15915.2	15326.5	14957.7	14702.6	14653.8	14545.4
5°	17648.6	16449.7	15543.6	14759.6	14049.0	13045.2	12489.1	12027.9	11781.1	11756.7	11697.0
7.5°	15622.2	13967.6	12744.2	11634.6	10628.2	9817.1	8922.0	8504.3	8333.2	8374.0	8414.8
10°	13514.6	11664.5	10259.4	9125.4	8238.4	7554.7	6835.9	6350.4	6014.1	5946.2	5932.5
12.5°	11973.7	9944.6	8580.3	7780.0	7093.6	6450.6	5688.4	5116.0	4679.4	4530.2	4429.8
15°	11322.6	9103.8	7674.1	6811.5	6054.7	5238.1	4530.2	3930.7	3529.3	3398.9	3325.7
17.5°	11461.0	8870.5	7050.2	5946.2	4977.8	4125.9	3233.4	2720.7	2479.4	2417.0	2417.0
20°	12188.1	8827.0	6534.8	5148.6	3941.6	2954.0	2221.7	1928.8	1850.0	1842.0	1863.7
22.5°	13208.0	8978.9	6149.5	4456.9	3062.6	2156.7	1730.7	1622.2	1586.9	1595.0	1619.5
25°	14727.1	9491.6	5870.2	3841.2	2403.4	1766.0	1543.5	1478.4	1462.1	1483.8	1513.6
27.5°	16528.3	10004.3	5696.6	3377.3	2029.1	1614.1	1467.6	1399.6	1410.6	1437.6	1464.9
30°	18109.8	10424.8	5422.6	3046.3	1912.4	1622.2	1467.6	1375.3	1364.4	1369.8	1378.0
32.5°	19528.4	10709.7	5102.6	2731.7	1649.3	1440.4	1369.8	1356.4	1296.7	1275.0	1277.7
35°	20751.8	10709.7	4910.0	2547.2	1478.4	1277.7	1163.8	1095.9	1066.1	1068.9	1098.6
37.5°	21931.8	10495.3	4814.9	2444.1	1386.2	1215.2	1114.8	1055.1	1014.5	1006.5	1011.9
40°	22973.6	10183.4	4706.5	2400.7	1315.7	1177.3	1082.4	1033.5	990.1	976.5	979.2
42.5°	23809.0	9931.1	4587.1	2343.8	1272.2	1150.2	1060.7	1017.2	968.5	954.9	952.2
45°	24712.5	9847.0	4429.8	2229.9	1294.0	1152.9	1055.1	1009.2	960.3	943.9	938.5
47.5°	25903.3	10110.2	4266.9	2094.2	1340.0	1166.4	1063.4	1009.2	957.6	943.9	938.5
50°	27403.3	10728.5	4060.9	1896.1	1294.0	1204.4	1060.7	1001.0	957.6	943.9	933.2
52.5°	29329.3	11564.2	3789.6	1668.3	1266.8	1296.7	1055.1	984.7	943.9	925.1	906.0
55°	31670.4	12247.8	3466.7	1481.1	1204.4	1272.2	1047.1	965.7	922.3	895.3	878.9
57.5°	33384.8	12494.5	3051.7	1359.0	1117.6	1231.5	1036.3	941.3	895.3	873.5	851.8
60°	33045.7	12017.2	2701.8	1283.0	1066.1	1112.2	1028.1	919.5	870.7	854.5	835.6
62.5°	30330.4	10769.3	2476.6	1247.8	1033.5	1014.5	1036.3	897.9	849.1	832.8	827.3
65°	26258.6	8927.4	2387.2	1239.8	1006.5	957.6	963.1	873.5	824.6	811.1	805.7
67.5°	21660.7	7204.9	2308.5	1266.8	971.2	916.9	889.7	841.0	800.2	786.6	775.9
70°	17081.7	5992.2	2273.3	1250.5	927.7	876.1	846.4	805.7	770.3	756.8	748.6
72.5°	13755.9	5061.8	2254.2	1234.4	870.7	821.9	794.8	759.5	721.6	716.2	708.0
75°	11640.1	3979.5	2064.3	1182.7	805.7	756.8	737.9	705.3	667.4	667.4	662.0
77.5°	8978.9	2878.1	1717.1	1047.1	737.9	683.6	667.4	642.8	599.4	607.7	604.9
80°	6632.5	1877.2	1342.7	868.0	653.7	602.3	594.0	569.6	523.5	534.4	534.4
82.5°	4543.6	1231.5	965.7	710.6	558.8	510.0	510.0	485.5	434.1	439.5	455.7
85°	2281.3	846.4	721.6	550.8	434.1	409.5	409.5	390.7	339.1	341.7	363.5
87.5°	694.4	510.0	477.4	393.4	311.9	306.5	292.9	279.5	246.9	244.1	257.8
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°	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1	16672.1
2.5°	14379.9	14225.2	14038.1	13625.8	13487.4	13479.2	13604.0	13473.8	13723.3	13617.5	13734.2
5°	11596.7	11444.8	11235.9	10709.7	10389.4	10172.4	10069.5	9765.7	9985.3	9825.3	9958.3
7.5°	8528.6	8563.9	8425.6	8116.2	7419.1	7069.2	6863.1	6678.5	6838.6	6822.4	7077.3
10°	5995.0	6089.9	5992.2	5680.3	5116.0	4923.5	4961.5	5034.7	5243.5	5352.1	5745.4
12.5°	4315.8	4310.4	4248.1	3968.6	3597.1	3618.7	3773.3	3900.8	4093.3	4207.3	4608.8
15°	3222.7	3173.8	3146.8	2918.9	2707.2	2753.3	2829.3	2842.9	2964.9	3032.8	3358.3
17.5°	2435.9	2460.4	2490.2	2327.5	2167.4	2137.5	2077.9	2004.7	2040.0	2053.4	2216.3
20°	1934.1	2031.7	2105.0	1991.2	1828.3	1741.5	1665.5	1616.8	1616.8	1614.1	1660.2
22.5°	1690.0	1760.5	1839.2	1760.5	1614.1	1538.1	1494.7	1456.7	1451.3	1451.3	1494.7
25°	1557.0	1608.7	1684.6	1630.3	1521.8	1464.9	1424.2	1375.3	1356.4	1351.0	1380.8
27.5°	1491.9	1513.6	1551.6	1502.9	1410.6	1383.5	1372.6	1329.2	1304.8	1291.3	1321.0
30°	1380.8	1375.3	1378.0	1329.2	1256.0	1253.2	1272.2	1280.4	1272.2	1269.6	1315.7
32.5°	1277.7	1266.8	1264.2	1220.6	1152.9	1136.6	1152.9	1169.1	1188.2	1215.2	1269.6
35°	1147.5	1174.5	1190.9	1152.9	1071.5	1022.7	1003.6	973.9	957.6	957.6	1019.9
37.5°	1044.4	1106.8	1131.1	1095.9	1006.5	938.5	906.0	900.6	903.3	914.1	973.9
40°	1009.2	1055.1	1076.9	1041.7	952.2	889.7	870.7	865.3	870.7	887.0	946.8
42.5°	987.3	1019.9	1017.2	973.9	900.6	857.3	846.4	841.0	846.4	862.6	927.7
45°	968.5	990.1	968.5	916.9	849.1	827.3	830.0	827.3	832.8	849.1	911.5
47.5°	952.2	960.3	933.2	881.6	811.1	805.7	816.5	824.6	830.0	843.7	908.7
50°	927.7	927.7	903.3	849.1	778.6	781.3	794.8	813.9	816.5	832.8	884.3
52.5°	897.9	895.3	878.9	827.3	751.4	759.5	759.5	781.3	786.6	805.7	859.9
55°	873.5	868.0	859.9	811.1	727.0	740.6	732.4	740.6	754.1	773.1	832.8
57.5°	851.8	841.0	841.0	797.5	708.0	713.4	694.4	705.3	721.6	737.9	800.2
60°	830.0	819.3	824.6	778.6	678.2	672.7	664.6	686.3	691.8	710.6	773.1
62.5°	805.7	797.5	800.2	756.8	656.5	642.8	642.8	662.0	664.6	691.8	751.4
65°	786.6	775.9	773.1	735.2	632.0	615.8	624.0	632.0	637.4	664.6	721.6
67.5°	767.7	746.0	746.0	716.2	604.9	588.7	604.9	602.3	610.4	634.7	680.8
70°	743.3	713.4	716.2	702.6	577.8	558.8	572.4	569.6	575.0	591.4	637.4
72.5°	705.3	680.8	686.3	680.8	550.8	523.5	529.0	529.0	529.0	542.5	591.4
75°	656.5	637.4	653.7	667.4	518.1	480.1	485.5	485.5	477.4	485.5	545.2
77.5°	596.7	586.0	640.2	621.2	480.1	434.1	434.1	428.6	412.3	423.2	488.3
80°	531.6	523.5	591.4	520.8	436.8	377.1	371.5	358.1	341.7	349.9	415.0
82.5°	463.9	455.7	496.5	398.8	377.1	311.9	298.3	274.0	257.8	265.9	325.5
85°	379.8	379.8	382.5	301.1	287.5	238.7	222.4	189.9	170.9	176.3	233.3
87.5°	271.3	279.5	257.8	206.3	170.9	132.9	122.1	103.0	86.7	100.4	122.1
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: P269732

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-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°	14331.0	14629.3	14968.5	15402.5	15774.1	16384.5	16970.4	17323.0
5°	10715.1	11211.4	11829.9	12624.8	13365.3	14477.5	15581.6	16289.5
7.5°	7668.7	8200.4	8867.7	9860.5	10907.6	12326.4	13785.7	14632.1
10°	6344.9	6890.2	7451.7	8121.8	8978.9	10522.4	12247.8	13202.6
12.5°	5248.9	5832.2	6437.2	7142.5	7937.2	9315.3	11303.7	12402.3
15°	4017.5	4668.5	5381.9	6274.4	7270.0	8862.3	11070.4	12264.0
17.5°	2753.3	3480.4	4356.5	5457.9	6675.8	8715.7	11488.2	12863.5
20°	1896.1	2425.2	3361.0	4652.2	6117.1	8696.9	12291.1	14013.6
22.5°	1586.9	1822.9	2506.5	3911.7	5696.6	8930.1	13536.2	15627.6
25°	1467.6	1608.7	2002.0	3268.8	5390.1	9467.1	15250.6	17716.5
27.5°	1397.0	1524.6	1817.5	2848.3	5148.6	10091.1	16918.9	19740.1
30°	1424.2	1554.3	1766.0	2634.0	4820.5	10611.9	18400.1	21318.8
32.5°	1283.0	1340.0	1513.6	2444.1	4584.4	11048.8	19696.6	22626.4
35°	1093.1	1193.6	1351.0	2354.5	4589.8	11341.7	21110.0	24297.4
37.5°	1041.7	1142.0	1256.0	2322.1	4652.2	11653.6	22732.1	26255.9
40°	1009.2	1101.3	1199.0	2303.1	4711.9	11938.5	24321.8	28192.8
42.5°	987.3	1071.5	1193.6	2237.9	4741.8	12193.5	25629.3	29839.3
45°	984.7	1071.5	1215.2	2172.8	4787.8	12467.4	26725.1	31057.3
47.5°	987.3	1106.8	1174.5	2094.2	4787.8	12925.8	28010.9	32145.0
50°	976.5	1166.4	1131.1	1983.0	4676.7	13794.0	29774.2	33601.8
52.5°	971.2	1158.4	1047.1	1812.2	4484.0	15172.0	32033.9	35609.2
55°	957.6	1117.6	987.3	1557.0	4258.9	16674.8	34453.6	37982.8
57.5°	943.9	990.1	954.9	1334.6	3911.7	17732.7	36119.2	39835.5
60°	1057.9	865.3	927.7	1226.1	3447.9	18023.0	36054.1	40573.3
62.5°	979.2	811.1	892.5	1201.8	3122.2	17209.2	34388.5	40174.5
65°	767.7	775.9	857.3	1272.2	3035.5	15052.5	31437.1	38332.7
67.5°	702.6	740.6	821.9	1361.8	3043.5	12052.4	27026.2	34320.6
70°	662.0	702.6	781.3	1407.9	3065.2	8984.4	21367.7	27954.0
72.5°	615.8	651.0	735.2	1416.0	2924.3	6526.6	16468.5	20553.8
75°	561.5	594.0	670.0	1234.4	2422.4	4527.5	12597.7	14062.4
77.5°	499.1	523.5	588.7	952.2	1798.4	2897.2	9456.4	10272.8
80°	425.8	439.5	493.7	697.2	1231.5	1812.2	7481.5	8243.7
82.5°	341.7	347.3	382.5	523.5	800.2	1163.8	5010.2	5718.3
85°	241.5	241.5	263.2	379.8	545.2	737.9	2720.7	3016.5
87.5°	113.9	116.6	116.6	208.9	284.9	374.4	626.6	385.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)