

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: P269731

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269731
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA 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: 36344.3 lumens
Efficiency: N/A
Efficacy: 86.7 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): 419
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

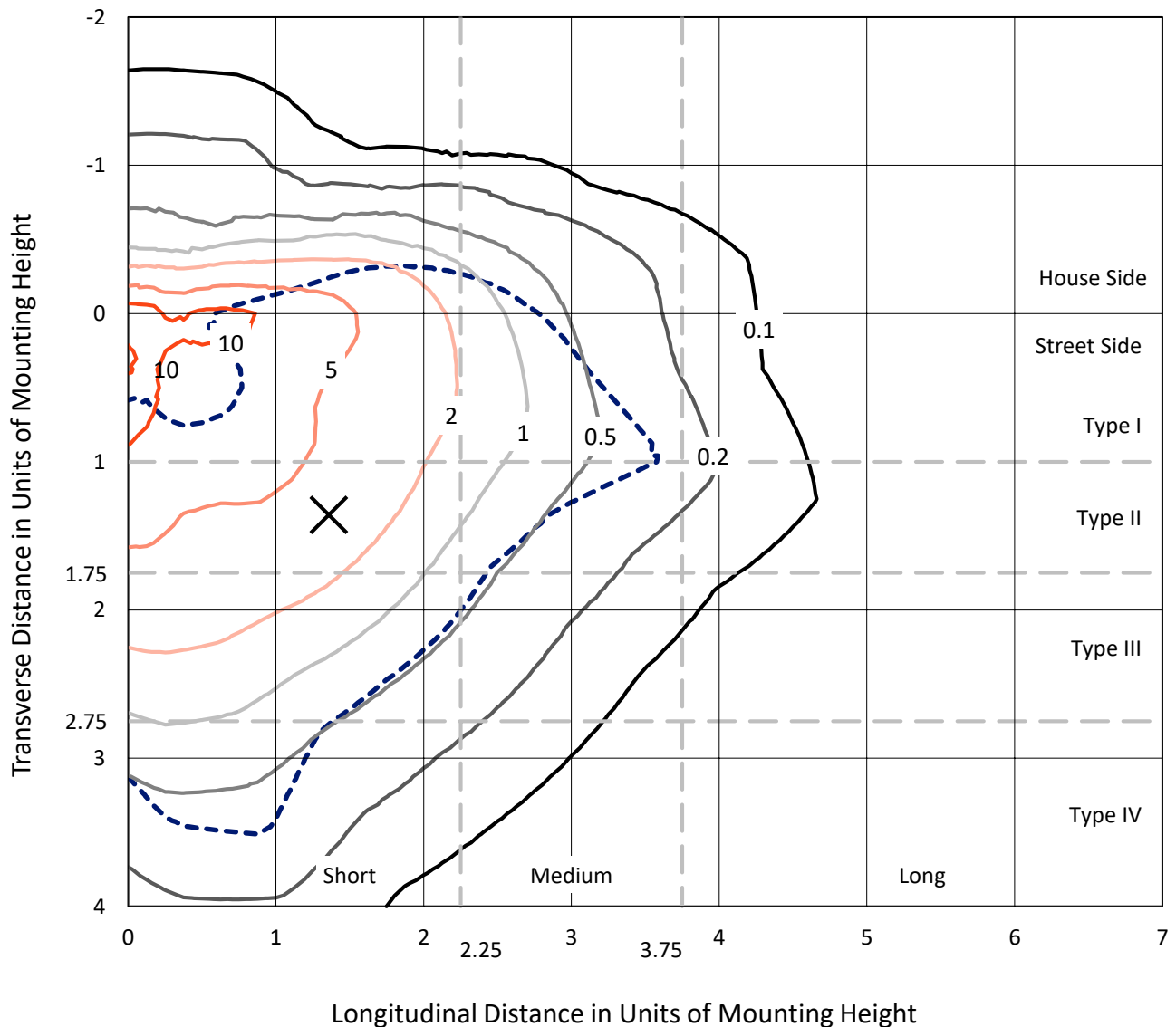


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Iso-Footcandle Lines of Horizontal Illumination

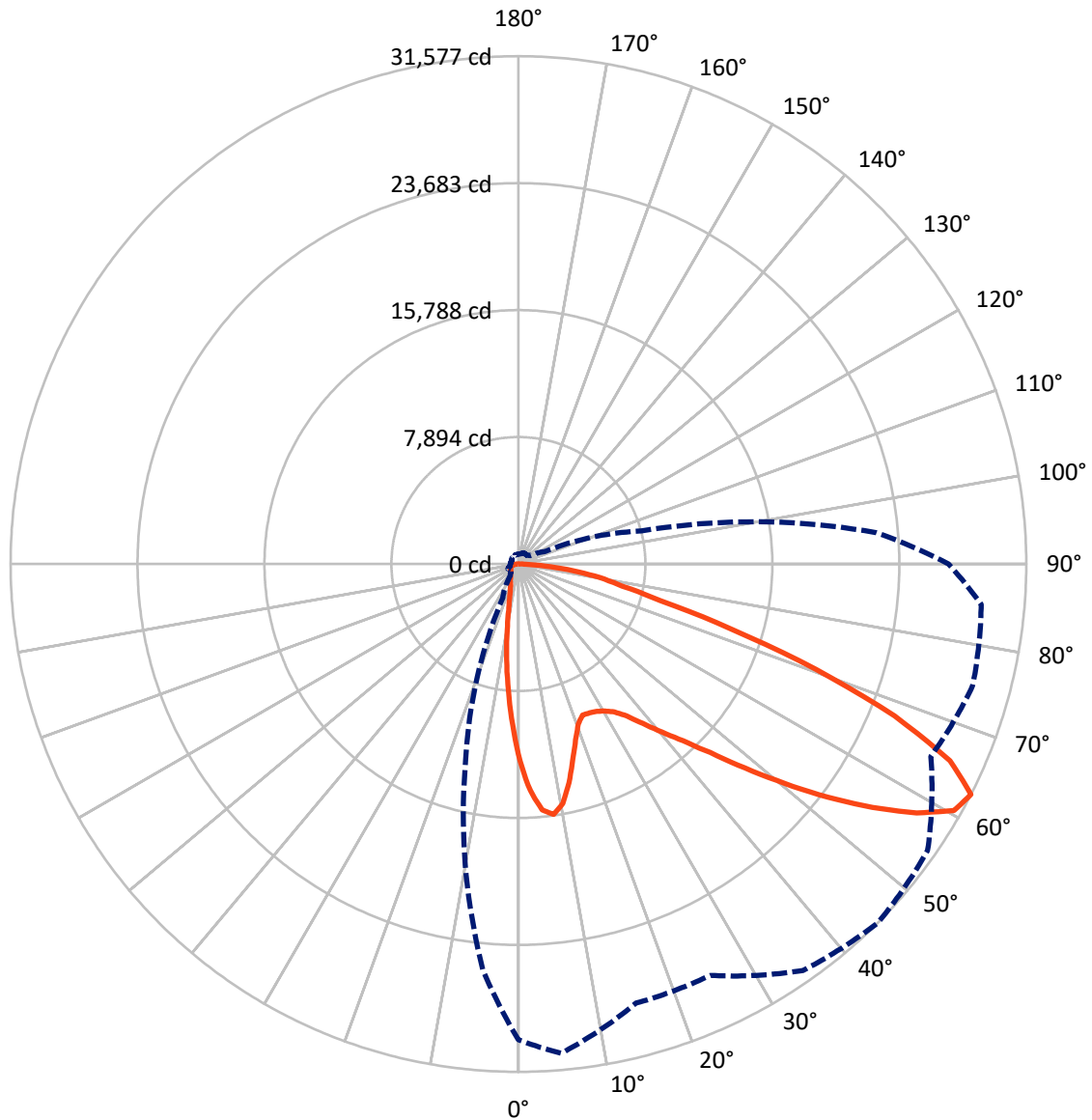
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.1 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	6014.5	0.0	6014.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	30329.8	0.0	30329.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	36344.3	0.0	36344.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	893.9	2.5
10°-20°	1639.1	4.5
20°-30°	2389.8	6.6
30°-40°	3680.6	10.1
40°-50°	5416.9	14.9
50°-60°	7945.5	21.9
60°-70°	8881.9	24.4
70°-80°	4348.5	12.0
80°-90°	1148.1	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°	36344.3	100.0
0°-180°	36344.3	100.0

Coefficient of Utilization



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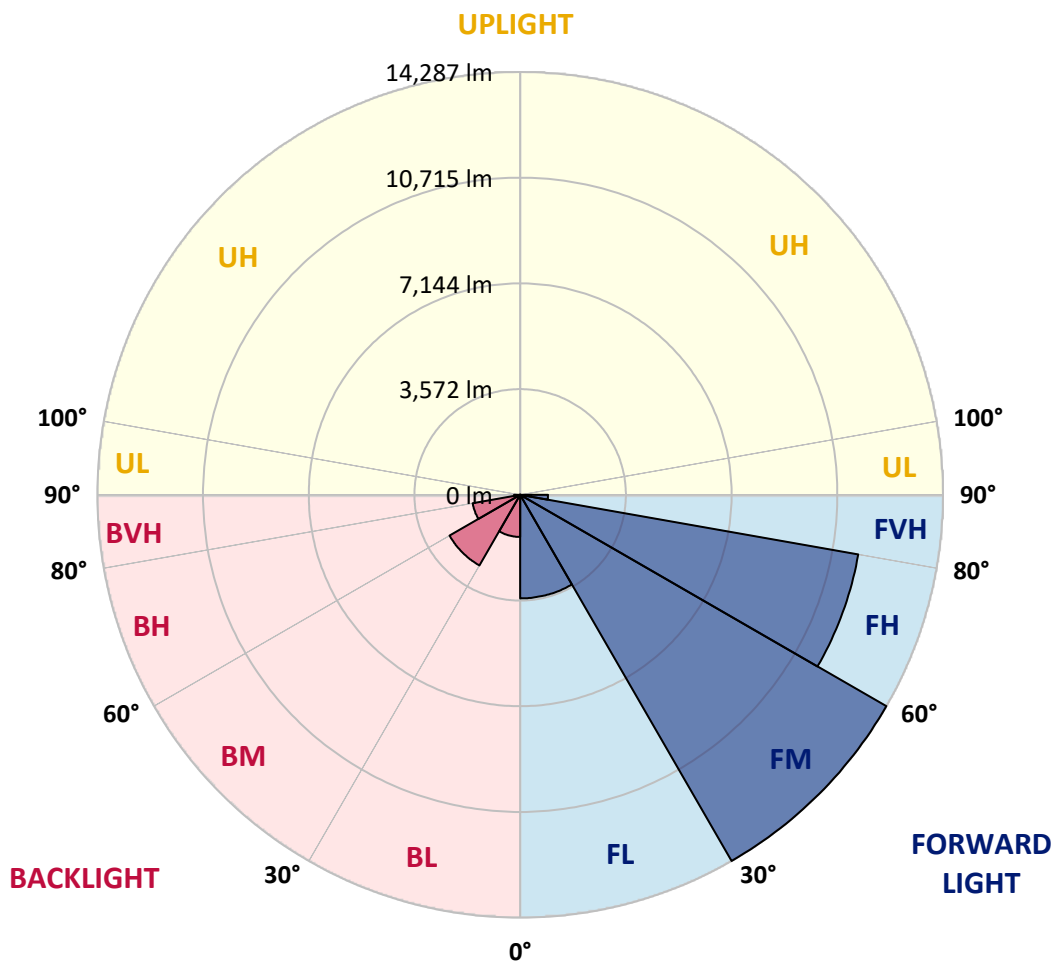
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3499.8	9.6			
FM (30°-60°)	14287.3	39.3			
FH (60°-80°)	11599.8	31.9			G4/12000
FVH (80°-90°)	942.9	2.6			G5
BL (0°-30°)	1422.9	3.9	B3/2500		
BM (30°-60°)	2755.8	7.6	B3/5000		
BH (60°-80°)	1630.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	205.2	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°	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0
2.5°	12758.5	12962.4	13360.0	13657.7	14019.2	14103.1	14219.0	14105.1	13903.3	13635.6	13547.7
5°	11997.4	12432.9	13398.0	14246.9	15002.1	15353.8	15451.7	15162.0	14576.6	13807.5	13337.9
7.5°	10776.6	11396.0	12702.7	13953.4	15066.2	15723.5	15707.5	15034.2	13957.2	12704.5	11951.4
10°	9723.8	10430.9	11929.4	13328.0	14508.6	15146.1	14900.2	14039.3	12754.6	11312.0	10494.9
12.5°	9134.3	9827.6	11348.0	12752.6	13739.4	13959.3	13771.5	12928.3	11717.6	10259.2	9544.0
15°	9032.5	9793.7	11116.3	12259.1	12812.4	12620.6	12396.9	12019.3	11164.2	9919.5	9174.3
17.5°	9474.1	10313.1	11382.0	11915.5	11821.5	11487.9	11423.9	11465.8	11260.2	10297.1	9438.0
20°	10321.2	11328.0	12015.3	11753.7	11068.3	10608.9	10624.9	11266.2	11875.5	11254.1	10273.1
22.5°	11509.9	12658.6	12928.3	11839.5	10750.6	10205.3	10337.1	11376.0	12856.5	12652.6	11400.0
25°	13048.2	14095.1	13901.4	12151.3	10782.6	10255.2	10361.1	11755.6	14015.3	14051.2	12794.5
27.5°	14538.7	15509.6	14718.5	12564.8	10914.4	10373.1	10513.0	12353.0	15122.1	15569.6	14388.8
30°	15701.5	16376.7	15042.1	12942.3	11174.1	10602.9	10776.6	12920.4	15625.5	16594.5	15615.5
32.5°	16664.4	17149.9	15557.6	13409.9	11651.7	10964.4	11270.1	13609.6	16350.8	17569.5	16816.4
35°	17895.1	18032.9	16199.0	13931.4	12389.0	11593.7	11973.4	14284.9	17042.0	18554.4	17999.0
37.5°	19337.6	19159.8	16804.2	14644.6	13341.9	12578.7	12892.5	15026.2	17611.5	19671.3	19207.7
40°	20764.1	20336.5	17563.5	15751.4	14732.5	13739.4	14111.1	15817.4	18142.9	20790.1	20388.6
42.5°	21976.9	21343.5	18312.7	16968.2	16027.1	15020.2	15463.8	16614.5	18650.3	21745.0	21413.3
45°	22873.9	22086.6	19025.9	18136.9	17811.2	16722.4	16932.2	17527.5	19199.7	22542.2	22256.5
47.5°	23675.0	22833.8	19833.0	19315.6	19371.6	18936.0	18598.4	18590.5	19847.1	23193.6	23053.7
50°	24747.9	23870.8	20700.2	20530.4	21713.1	21423.4	20678.2	19831.2	20666.1	23932.7	23916.7
52.5°	26226.3	25513.1	21759.0	21839.0	23898.8	24088.6	23165.6	21321.5	21948.8	25289.4	25193.4
55°	27974.5	27558.9	23201.6	23343.4	26579.9	26715.9	25798.9	23185.6	23834.9	27253.3	26987.5
57.5°	29339.1	29251.1	24783.9	25149.5	28581.8	29193.2	28350.1	25343.3	25960.6	28907.5	28240.1
60°	29882.5	30308.1	26468.1	26971.5	30433.9	31111.2	30372.0	27239.2	27844.7	29592.8	28154.3
62.5°	29588.8	30539.8	28262.1	28220.3	30847.4	31576.7	31057.2	28294.2	29241.2	28885.4	26729.7
65°	28232.2	29706.7	29303.2	27898.7	29433.0	29493.0	29325.1	27822.7	29570.8	26649.8	23976.8
67.5°	25277.3	27399.2	27932.5	25141.5	25617.0	25227.5	24945.8	25241.4	27852.6	23299.3	20150.7
70°	20588.3	23780.9	24036.7	20108.7	19893.1	19631.3	19069.8	20694.2	24462.1	19095.9	15989.1
72.5°	15138.1	18494.5	19279.7	14748.5	13749.5	13803.4	13360.0	15595.6	19889.1	14185.0	11937.3
75°	10357.1	13391.9	15084.1	10291.2	9092.5	9114.5	9058.5	11050.3	15841.3	9867.6	8932.6
77.5°	7566.1	9567.8	11376.0	6918.7	6716.8	6593.0	6563.0	7731.8	12145.2	7164.4	6936.7
80°	6071.6	7068.6	7641.9	4795.0	5156.6	5146.6	4980.7	5316.3	7931.7	5240.4	5188.5
82.5°	4211.6	5432.3	6191.5	3758.0	3480.4	3422.5	3462.3	3959.8	5606.1	3582.3	3406.5
85°	2221.7	3608.2	6131.6	3330.5	2065.8	1648.3	2049.8	3242.6	4856.9	1897.9	1662.3
87.5°	283.8	1042.9	4059.7	1328.7	815.1	439.5	973.0	1826.1	3118.7	387.6	337.7
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°	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0
2.5°	13322.0	13056.2	12708.6	12387.0	12053.3	11721.7	11288.1	11016.4	10828.6	10792.6	10712.6
5°	12998.2	12115.3	11447.9	10870.5	10347.0	9607.8	9198.4	8858.6	8676.9	8658.9	8614.9
7.5°	11505.9	10287.1	9386.1	8568.9	7827.7	7230.4	6571.1	6263.4	6137.5	6167.6	6197.4
10°	9953.5	8590.9	7556.1	6720.8	6067.6	5564.1	5034.7	4677.0	4429.4	4379.3	4369.4
12.5°	8818.8	7324.3	6319.3	5730.0	5224.5	4751.0	4189.5	3768.0	3446.3	3336.5	3262.6
15°	8339.1	6704.9	5652.0	5016.8	4459.2	3858.0	3336.5	2895.0	2599.2	2503.3	2449.4
17.5°	8441.2	6533.2	5192.6	4379.3	3666.2	3038.7	2381.4	2003.8	1826.1	1780.1	1780.1
20°	8976.6	6501.2	4812.8	3791.9	2903.0	2175.8	1636.3	1420.5	1362.5	1356.6	1372.5
22.5°	9727.7	6613.1	4529.3	3282.5	2255.6	1588.4	1274.7	1194.7	1168.8	1174.8	1192.7
25°	10846.6	6990.6	4323.5	2829.0	1770.1	1300.7	1136.8	1088.8	1076.9	1092.9	1114.8
27.5°	12173.1	7368.3	4195.5	2487.3	1494.4	1188.7	1080.9	1031.0	1038.9	1058.9	1078.9
30°	13337.9	7678.0	3993.8	2243.6	1408.5	1194.7	1080.9	1012.8	1004.9	1008.9	1014.9
32.5°	14382.9	7887.7	3758.0	2011.8	1214.7	1060.9	1008.9	998.9	955.0	939.0	941.1
35°	15283.9	7887.7	3616.1	1876.0	1088.8	941.1	857.2	807.1	785.2	787.2	809.2
37.5°	16153.0	7729.8	3546.2	1800.2	1021.0	895.0	821.1	777.2	747.2	741.2	745.2
40°	16920.1	7500.0	3466.3	1768.1	969.0	867.0	797.2	761.3	729.2	719.3	721.2
42.5°	17535.5	7314.3	3378.4	1726.2	937.0	847.1	781.2	749.1	713.3	703.3	701.2
45°	18200.7	7252.3	3262.6	1642.3	953.0	849.1	777.2	743.2	707.2	695.3	691.2
47.5°	19077.8	7446.1	3142.7	1542.4	987.0	859.0	783.2	743.2	705.3	695.3	691.2
50°	20182.7	7901.8	2990.8	1396.5	953.0	887.0	781.2	737.1	705.3	695.3	687.3
52.5°	21601.3	8517.0	2791.0	1228.7	933.0	955.0	777.2	725.2	695.3	681.3	667.4
55°	23325.4	9020.5	2553.3	1090.8	887.0	937.0	771.1	711.3	679.3	659.3	647.3
57.5°	24588.0	9202.2	2247.6	1000.9	823.1	907.1	763.2	693.2	659.3	643.4	627.3
60°	24338.3	8850.7	1989.8	944.9	785.2	819.2	757.2	677.3	641.3	629.4	615.3
62.5°	22338.4	7931.7	1824.1	919.1	761.3	747.2	763.2	661.3	625.3	613.4	609.4
65°	19339.6	6575.1	1758.2	913.0	741.2	705.3	709.2	643.4	607.3	597.4	593.4
67.5°	15953.2	5306.4	1700.2	933.0	715.2	675.3	655.4	619.3	589.4	579.3	571.4
70°	12580.8	4413.4	1674.3	921.0	683.3	645.3	623.3	593.4	567.4	557.4	551.4
72.5°	10131.4	3728.1	1660.2	909.1	641.3	605.4	585.3	559.5	531.4	527.5	521.5
75°	8573.0	2930.9	1520.4	871.0	593.4	557.4	543.5	519.5	491.6	491.6	487.5
77.5°	6613.1	2119.8	1264.6	771.1	543.5	503.5	491.6	473.4	441.5	447.5	445.5
80°	4884.9	1382.5	988.9	639.4	481.5	443.6	437.6	419.6	385.6	393.5	393.5
82.5°	3346.5	907.1	711.3	523.4	411.6	375.6	375.6	357.6	319.6	323.7	335.6
85°	1680.2	623.3	531.4	405.6	319.6	301.7	301.7	287.6	249.6	251.7	267.8
87.5°	511.5	375.6	351.6	289.8	229.7	225.7	215.8	205.8	181.7	179.8	189.8
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°	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0
2.5°	10590.8	10476.9	10339.1	10035.4	9933.5	9927.4	10019.4	9923.5	10107.3	10029.4	10115.4
5°	8540.9	8429.1	8275.2	7887.7	7651.9	7492.1	7416.1	7192.4	7354.2	7236.3	7334.2
7.5°	6281.4	6307.4	6205.4	5977.7	5464.2	5206.4	5054.7	4918.8	5036.6	5024.7	5212.5
10°	4415.3	4485.2	4413.4	4183.5	3768.0	3626.2	3654.1	3708.2	3862.0	3941.9	4231.6
12.5°	3178.7	3174.7	3128.6	2922.9	2649.2	2665.2	2779.0	2873.0	3014.8	3098.8	3394.4
15°	2373.5	2337.5	2317.5	2149.7	1993.9	2027.8	2083.8	2093.8	2183.7	2233.6	2473.5
17.5°	1794.2	1812.2	1834.1	1714.1	1596.3	1574.3	1530.4	1476.5	1502.4	1512.3	1632.3
20°	1424.5	1496.4	1550.4	1466.5	1346.6	1282.6	1226.7	1190.8	1190.8	1188.7	1222.8
22.5°	1244.7	1296.7	1354.6	1296.7	1188.7	1132.9	1100.9	1072.8	1068.9	1068.9	1100.9
25°	1146.7	1184.8	1240.6	1200.8	1120.8	1078.9	1049.0	1012.8	998.9	995.0	1016.9
27.5°	1098.8	1114.8	1142.9	1106.8	1038.9	1018.9	1011.0	979.0	960.9	950.9	973.0
30°	1016.9	1012.8	1014.9	979.0	925.1	923.0	937.0	943.0	937.0	935.0	969.0
32.5°	941.1	933.0	931.1	899.1	849.1	837.1	849.1	861.0	875.0	895.0	935.0
35°	845.1	865.1	877.0	849.1	789.3	753.1	739.2	717.2	705.3	705.3	751.3
37.5°	769.2	815.1	833.1	807.1	741.2	691.2	667.4	663.3	665.4	673.3	717.2
40°	743.2	777.2	793.2	767.2	701.2	655.4	641.3	637.3	641.3	653.2	697.3
42.5°	727.3	751.3	749.1	717.2	663.3	631.2	623.3	619.3	623.3	635.3	683.3
45°	713.3	729.2	713.3	675.3	625.3	609.4	611.3	609.4	613.4	625.3	671.4
47.5°	701.2	707.2	687.3	649.4	597.4	593.4	601.3	607.3	611.3	621.4	669.2
50°	683.3	683.3	665.4	625.3	573.4	575.4	585.3	599.3	601.3	613.4	651.4
52.5°	661.3	659.3	647.3	609.4	553.4	559.5	559.5	575.4	579.3	593.4	633.3
55°	643.4	639.4	633.3	597.4	535.4	545.5	539.4	545.5	555.4	569.3	613.4
57.5°	627.3	619.3	619.3	587.4	521.5	525.5	511.5	519.5	531.4	543.5	589.4
60°	611.3	603.3	607.3	573.4	499.5	495.4	489.4	505.4	509.5	523.4	569.3
62.5°	593.4	587.4	589.4	557.4	483.5	473.4	473.4	487.5	489.4	509.5	553.4
65°	579.3	571.4	569.3	541.4	465.5	453.6	459.6	465.5	469.5	489.4	531.4
67.5°	565.5	549.5	549.5	527.5	445.5	433.5	445.5	443.6	449.5	467.5	501.4
70°	547.4	525.5	527.5	517.5	425.5	411.6	421.6	419.6	423.6	435.6	469.5
72.5°	519.5	501.4	505.4	501.4	405.6	385.6	389.5	389.5	389.5	399.6	435.6
75°	483.5	469.5	481.5	491.6	381.6	353.7	357.6	357.6	351.6	357.6	401.6
77.5°	439.5	431.5	471.5	457.4	353.7	319.6	319.6	315.7	303.6	311.7	359.6
80°	391.7	385.6	435.6	383.5	321.7	277.7	273.8	263.7	251.7	257.8	305.7
82.5°	341.6	335.6	365.6	293.7	277.7	229.7	219.7	201.8	189.8	195.8	239.8
85°	279.7	279.7	281.7	221.8	211.8	175.8	163.9	139.9	125.9	129.8	171.8
87.5°	199.9	205.8	189.8	151.9	125.9	97.8	89.9	75.9	63.9	73.9	89.9
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: P269731

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7027-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0	12279.0
2.5°	10554.8	10774.6	11024.4	11344.1	11617.7	12067.3	12498.7	12758.5
5°	7891.7	8257.3	8712.8	9298.1	9843.5	10662.7	11475.8	11997.4
7.5°	5648.1	6039.7	6531.0	7262.3	8033.5	9078.5	10153.4	10776.6
10°	4673.1	5074.6	5488.3	5981.8	6613.1	7749.8	9020.5	9723.8
12.5°	3865.9	4295.4	4741.1	5260.5	5845.8	6860.7	8325.2	9134.3
15°	2958.8	3438.4	3963.9	4621.2	5354.3	6527.2	8153.3	9032.5
17.5°	2027.8	2563.4	3208.7	4019.7	4916.9	6419.2	8461.0	9474.1
20°	1396.5	1786.1	2475.4	3426.3	4505.3	6405.3	9052.5	10321.2
22.5°	1168.8	1342.5	1846.0	2881.0	4195.5	6577.1	9969.5	11509.9
25°	1080.9	1184.8	1474.5	2407.5	3969.8	6972.6	11232.1	13048.2
27.5°	1028.9	1122.8	1338.6	2097.8	3791.9	7432.1	12460.8	14538.7
30°	1049.0	1144.8	1300.7	1940.0	3550.2	7815.8	13551.7	15701.5
32.5°	944.9	987.0	1114.8	1800.2	3376.4	8137.4	14506.6	16664.4
35°	805.2	879.1	995.0	1734.2	3380.4	8353.2	15547.7	17895.1
37.5°	767.2	841.2	925.1	1710.3	3426.3	8582.9	16742.3	19337.6
40°	743.2	811.1	883.0	1696.2	3470.3	8792.7	17913.1	20764.1
42.5°	727.3	789.3	879.1	1648.3	3492.3	8980.5	18876.1	21976.9
45°	725.2	789.3	895.0	1600.3	3526.2	9182.4	19683.2	22873.9
47.5°	727.3	815.1	865.1	1542.4	3526.2	9520.0	20630.3	23675.0
50°	719.3	859.0	833.1	1460.5	3444.5	10159.3	21928.9	24747.9
52.5°	715.2	853.1	771.1	1334.6	3302.4	11174.1	23593.2	26226.3
55°	705.3	823.1	727.3	1146.7	3136.7	12281.1	25375.2	27974.5
57.5°	695.3	729.2	703.3	982.9	2881.0	13060.2	26602.0	29339.1
60°	779.2	637.3	683.3	903.1	2539.2	13274.1	26554.0	29882.5
62.5°	721.2	597.4	657.3	885.1	2299.7	12674.6	25327.4	29588.8
65°	565.5	571.4	631.2	937.0	2235.6	11086.3	23153.5	28232.2
67.5°	517.5	545.5	605.4	1003.0	2241.6	8876.6	19905.1	25277.3
70°	487.5	517.5	575.4	1037.0	2257.6	6617.1	15737.3	20588.3
72.5°	453.6	479.4	541.4	1042.9	2153.7	4806.9	12129.3	15138.1
75°	413.6	437.6	493.4	909.1	1784.2	3334.5	9278.2	10357.1
77.5°	367.5	385.6	433.5	701.2	1324.6	2133.7	6964.6	7566.1
80°	313.7	323.7	363.6	513.4	907.1	1334.6	5510.3	6071.6
82.5°	251.7	255.7	281.7	385.6	589.4	857.2	3690.1	4211.6
85°	177.9	177.9	193.9	279.7	401.6	543.5	2003.8	2221.7
87.5°	83.9	85.9	85.9	153.8	209.8	275.7	461.5	283.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)