

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: P269491

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269491
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-07-LED-E1-SLL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 25972 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

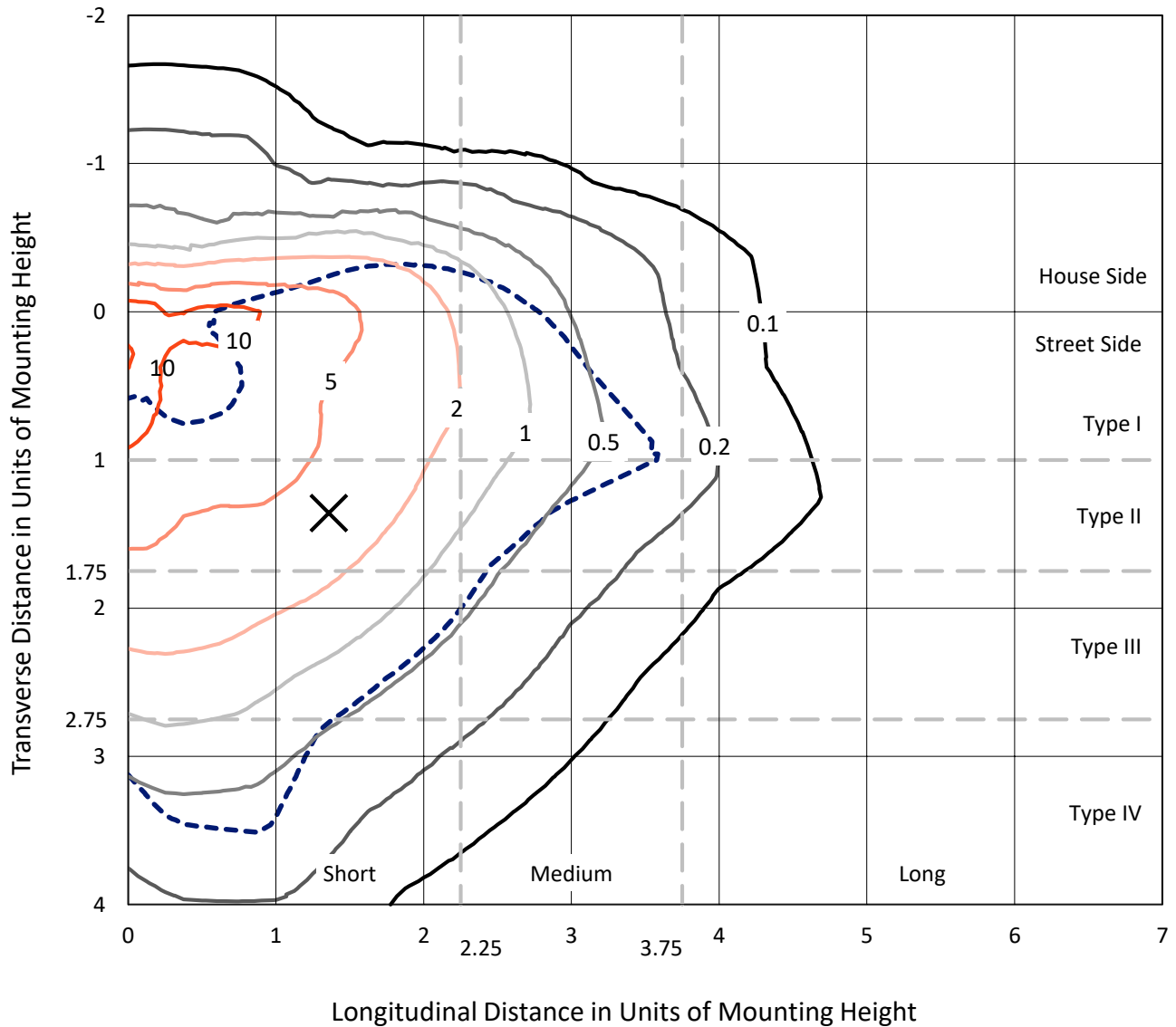
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

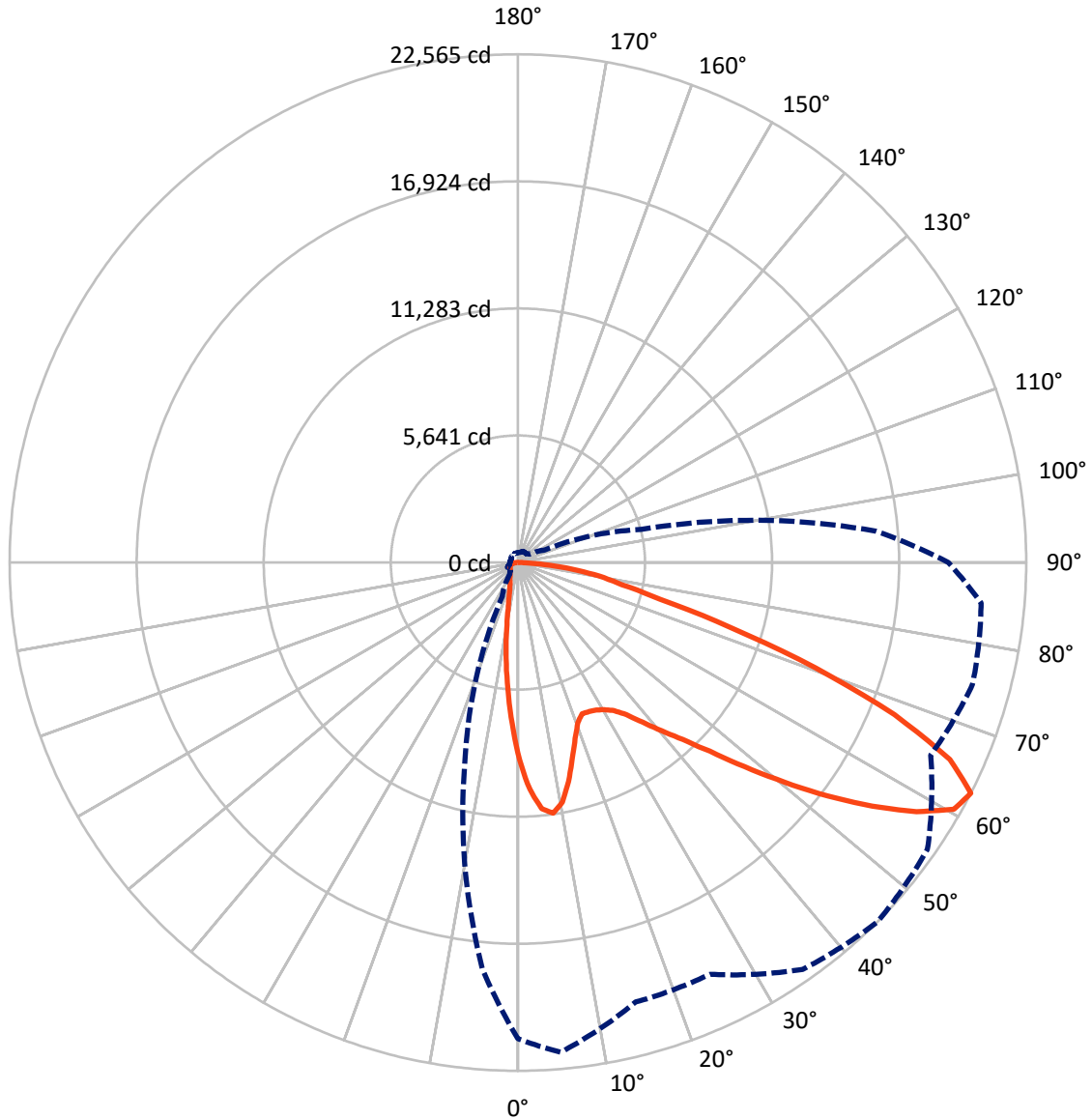
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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	4298.0	0.0	4298.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21674.0	0.0	21674.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	25972.0	0.0	25972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.8	2.5
10°-20°	1171.3	4.5
20°-30°	1707.8	6.6
30°-40°	2630.2	10.1
40°-50°	3871.0	14.9
50°-60°	5677.9	21.9
60°-70°	6347.1	24.4
70°-80°	3107.5	12.0
80°-90°	820.5	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°	25972.0	100.0
0°-180°	25972.0	100.0

Coefficient of Utilization



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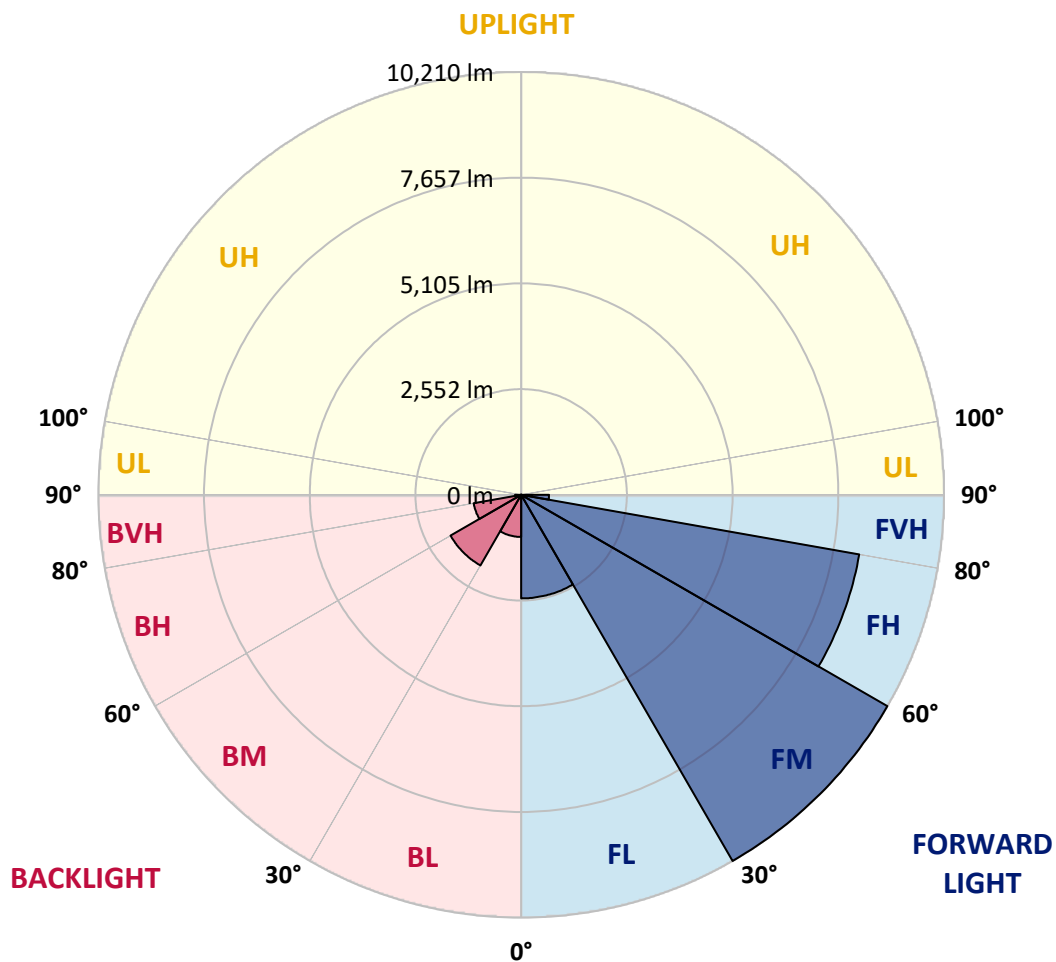
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2501.0	9.6			
FM (30°-60°)	10209.8	39.3			
FH (60°-80°)	8289.4	31.9			G4/12000
FVH (80°-90°)	673.8	2.6			G4/750
BL (0°-30°)	1016.8	3.9	B3/2500		
BM (30°-60°)	1969.3	7.6	B2/2500		
BH (60°-80°)	1165.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	146.7	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7
2.5°	9117.3	9263.1	9547.1	9759.8	10018.3	10078.3	10161.1	10079.6	9935.4	9744.2	9681.4
5°	8573.5	8884.6	9574.2	10181.0	10720.7	10972.0	11042.0	10834.9	10416.6	9867.0	9531.5
7.5°	7701.1	8143.7	9077.5	9971.1	10766.4	11236.1	11224.7	10743.5	9974.1	9078.8	8540.5
10°	6948.7	7454.0	8524.8	9524.3	10368.1	10823.5	10647.9	10032.5	9114.6	8083.7	7499.8
12.5°	6527.5	7022.9	8109.4	9113.0	9818.4	9975.5	9841.2	9238.8	8373.6	7331.2	6820.2
15°	6454.7	6998.6	7943.8	8760.5	9156.0	9018.9	8858.9	8589.1	7978.0	7088.5	6556.1
17.5°	6770.3	7369.9	8133.8	8514.9	8447.8	8209.3	8163.6	8193.6	8046.6	7358.5	6744.6
20°	7375.5	8095.2	8586.3	8399.2	7909.5	7581.2	7592.6	8050.9	8486.3	8042.3	7341.3
22.5°	8225.1	9046.0	9238.8	8460.6	7682.6	7292.8	7387.0	8129.4	9187.3	9041.7	8146.5
25°	9324.3	10072.5	9934.0	8683.3	7705.4	7328.5	7404.1	8400.7	10015.5	10041.2	9143.0
27.5°	10389.4	11083.4	10518.0	8978.9	7799.7	7412.8	7512.6	8827.6	10806.4	11126.1	10282.4
30°	11220.4	11702.9	10749.3	9248.7	7985.3	7576.8	7701.1	9233.0	11166.1	11858.5	11159.0
32.5°	11908.6	12255.4	11117.7	9582.8	8326.4	7835.2	8053.8	9725.6	11684.4	12555.3	12017.0
35°	12788.0	12886.5	11575.9	9955.5	8853.2	8285.0	8556.3	10208.2	12178.4	13259.2	12862.3
37.5°	13818.8	13691.7	12008.5	10465.2	9534.3	8988.9	9213.0	10737.8	12585.3	14057.2	13726.0
40°	14838.3	14532.7	12550.9	11256.1	10528.0	9818.4	10084.0	11303.3	12965.1	14856.8	14569.8
42.5°	15704.9	15252.2	13086.4	12125.6	11453.1	10733.6	11050.5	11872.9	13327.8	15539.2	15302.3
45°	16345.9	15783.4	13596.0	12960.7	12728.1	11950.0	12099.9	12525.3	13720.4	16108.9	15904.8
47.5°	16918.4	16317.4	14172.9	13803.1	13843.2	13531.9	13290.7	13284.9	14182.9	16574.4	16474.3
50°	17685.1	17058.4	14792.5	14671.2	15516.5	15309.4	14776.8	14171.5	14768.2	17102.7	17091.2
52.5°	18741.6	18231.9	15549.2	15606.3	17078.2	17214.0	16554.3	15236.5	15684.9	18072.0	18003.6
55°	19990.8	19693.9	16580.0	16681.3	18994.3	19091.4	18436.0	16568.6	17032.7	19475.4	19285.5
57.5°	20966.0	20903.2	17710.9	17972.1	20424.9	20861.8	20259.3	18110.5	18551.6	20657.7	20180.8
60°	21354.2	21658.5	18914.4	19274.2	21748.3	22232.3	21704.0	19465.5	19898.0	21147.3	20119.3
62.5°	21144.5	21824.1	20196.5	20166.5	22043.9	22565.1	22193.9	20219.3	20896.1	20642.0	19101.4
65°	20175.0	21228.7	20940.3	19936.7	21033.0	21075.9	20956.0	19882.4	21131.5	19044.2	17134.0
67.5°	18063.5	19579.6	19960.9	17966.3	18306.1	18027.7	17826.4	18037.7	19903.7	16649.9	14399.9
70°	14712.6	16994.0	17176.9	14369.9	14215.8	14028.7	13627.5	14788.3	17480.9	13646.2	11426.0
72.5°	10817.7	13216.4	13777.5	10539.4	9825.5	9864.1	9547.1	11144.7	14213.0	10136.7	8530.6
75°	7401.2	9570.0	10779.2	7354.2	6497.5	6513.3	6473.2	7896.7	11320.4	7051.4	6383.3
77.5°	5406.8	6837.3	8129.4	4944.2	4800.0	4711.5	4690.1	5525.2	8679.1	5119.8	4957.0
80°	4338.9	5051.3	5460.9	3426.6	3684.9	3677.8	3559.3	3799.1	5668.0	3744.9	3707.8
82.5°	3009.6	3881.9	4424.5	2685.6	2487.0	2445.6	2474.2	2829.8	4006.3	2559.9	2434.2
85°	1587.7	2578.4	4381.7	2380.0	1476.3	1177.9	1464.9	2317.2	3470.8	1356.4	1187.9
87.5°	202.7	745.2	2901.2	949.4	582.6	314.0	695.3	1305.0	2228.7	276.9	241.3
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°	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7
2.5°	9520.0	9330.1	9081.7	8851.8	8613.4	8376.3	8066.6	7872.3	7738.2	7712.5	7655.4
5°	9288.7	8657.7	8180.9	7768.3	7394.0	6865.8	6573.2	6330.4	6200.6	6187.7	6156.4
7.5°	8222.1	7351.3	6707.5	6123.4	5593.7	5167.0	4695.7	4475.9	4386.0	4407.4	4428.7
10°	7112.9	6139.1	5399.6	4802.8	4335.9	3976.2	3597.8	3342.2	3165.3	3129.5	3122.4
12.5°	6301.9	5234.1	4515.9	4094.7	3733.4	3395.1	2994.0	2692.7	2462.9	2384.3	2331.5
15°	5959.3	4791.4	4039.0	3585.0	3186.6	2756.9	2384.3	2068.7	1857.4	1789.0	1750.3
17.5°	6032.1	4668.6	3710.5	3129.5	2619.8	2171.6	1701.7	1432.0	1305.0	1272.1	1272.1
20°	6414.6	4645.8	3439.4	2709.7	2074.5	1554.7	1169.4	1015.2	973.8	969.5	980.8
22.5°	6951.5	4725.8	3236.7	2345.7	1611.9	1135.0	910.9	853.7	835.2	839.5	852.3
25°	7751.0	4995.6	3089.6	2021.6	1265.0	929.4	812.3	778.1	769.6	780.9	796.6
27.5°	8699.0	5265.4	2998.3	1777.4	1067.9	849.4	772.5	736.7	742.4	756.7	770.9
30°	9531.5	5486.7	2853.9	1603.4	1006.6	853.7	772.5	723.9	718.1	721.0	725.3
32.5°	10278.0	5636.7	2685.6	1437.6	868.0	758.1	721.0	713.9	682.4	671.0	672.4
35°	10922.0	5636.7	2584.2	1340.6	778.1	672.4	612.5	576.8	561.1	562.5	578.1
37.5°	11543.1	5523.8	2534.2	1286.4	729.6	639.7	586.9	555.4	534.0	529.7	532.5
40°	12091.2	5359.6	2477.0	1263.6	692.5	619.7	569.6	544.0	521.0	514.0	515.4
42.5°	12531.0	5226.9	2414.3	1233.6	669.5	605.4	558.2	535.4	509.7	502.5	501.2
45°	13006.5	5182.6	2331.5	1173.5	681.0	606.7	555.4	531.1	505.3	496.9	494.0
47.5°	13633.2	5321.1	2245.9	1102.2	705.3	613.9	559.6	531.1	503.9	496.9	494.0
50°	14422.7	5646.6	2137.2	997.9	681.0	633.9	558.2	526.9	503.9	496.9	491.2
52.5°	15436.5	6086.3	1994.4	878.1	666.7	682.4	555.4	518.2	496.9	486.8	476.9
55°	16668.6	6446.1	1824.5	779.5	633.9	669.5	551.1	508.4	485.4	471.2	462.5
57.5°	17570.8	6576.0	1606.2	715.3	588.2	648.1	545.5	495.4	471.2	459.8	448.3
60°	17392.4	6324.7	1421.9	675.3	561.1	585.3	541.0	483.9	458.2	449.7	439.7
62.5°	15963.3	5668.0	1303.5	656.8	544.0	534.0	545.5	472.6	446.8	438.4	435.5
65°	13820.2	4698.7	1256.4	652.4	529.7	503.9	506.9	459.8	434.1	426.9	424.0
67.5°	11400.3	3792.0	1215.0	666.7	511.1	482.6	468.2	442.5	421.1	413.9	408.3
70°	8990.2	3153.8	1196.5	658.2	488.3	461.2	445.5	424.0	405.5	398.3	394.0
72.5°	7239.9	2664.2	1186.4	649.7	458.2	432.7	418.3	399.7	379.8	376.8	372.6
75°	6126.4	2094.5	1086.5	622.4	424.0	398.3	388.3	371.2	351.1	351.1	348.4
77.5°	4725.8	1514.8	903.8	551.1	388.3	359.9	351.1	338.4	315.6	319.7	318.4
80°	3490.8	988.0	706.7	456.9	344.1	316.9	312.7	299.9	275.5	281.3	281.3
82.5°	2391.4	648.1	508.4	374.1	294.1	268.5	268.5	255.6	228.3	231.4	239.8
85°	1200.8	445.5	379.8	289.9	228.3	215.7	215.7	205.6	178.5	179.9	191.2
87.5°	365.5	268.5	251.3	207.0	164.2	161.3	154.1	147.1	130.0	128.5	135.6
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°	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7
2.5°	7568.3	7487.0	7388.4	7171.3	7098.5	7094.4	7160.0	7091.5	7222.8	7167.1	7228.5
5°	6103.4	6023.6	5913.6	5636.7	5468.2	5353.9	5299.7	5139.7	5255.4	5171.2	5241.2
7.5°	4488.7	4507.2	4434.5	4271.7	3904.8	3720.6	3612.2	3515.1	3599.2	3590.6	3724.9
10°	3155.2	3205.2	3153.8	2989.6	2692.7	2591.3	2611.4	2649.8	2759.8	2816.8	3024.0
12.5°	2271.5	2268.6	2235.8	2088.7	1893.2	1904.5	1986.0	2053.0	2154.4	2214.4	2425.8
15°	1696.1	1670.4	1656.1	1536.2	1424.8	1449.1	1489.1	1496.2	1560.4	1596.2	1767.5
17.5°	1282.2	1294.9	1310.6	1225.0	1140.8	1125.0	1093.6	1055.1	1073.7	1080.8	1166.4
20°	1018.0	1069.3	1107.9	1048.0	962.3	916.6	876.7	851.0	851.0	849.4	873.7
22.5°	889.4	926.6	968.1	926.6	849.4	809.6	786.6	766.7	763.7	763.7	786.6
25°	819.6	846.7	886.5	858.1	801.0	770.9	749.5	723.9	713.9	711.0	726.6
27.5°	785.3	796.6	816.6	791.0	742.4	728.2	722.4	699.6	686.8	679.6	695.3
30°	726.6	723.9	725.3	699.6	661.1	659.5	669.5	673.9	669.5	668.2	692.5
32.5°	672.4	666.7	665.4	642.5	606.7	598.2	606.7	615.3	625.3	639.7	668.2
35°	603.9	618.3	626.7	606.7	564.0	538.3	528.3	512.6	503.9	503.9	536.7
37.5°	549.7	582.6	595.3	576.8	529.7	494.0	476.9	473.9	475.5	481.1	512.6
40°	531.1	555.4	566.8	548.2	501.2	468.2	458.2	455.4	458.2	466.8	498.3
42.5°	519.7	536.7	535.4	512.6	473.9	451.2	445.5	442.5	445.5	454.1	488.3
45°	509.7	521.0	509.7	482.6	446.8	435.5	436.8	435.5	438.4	446.8	479.8
47.5°	501.2	505.3	491.2	464.1	426.9	424.0	429.7	434.1	436.8	444.0	478.3
50°	488.3	488.3	475.5	446.8	409.7	411.2	418.3	428.3	429.7	438.4	465.4
52.5°	472.6	471.2	462.5	435.5	395.4	399.7	399.7	411.2	413.9	424.0	452.6
55°	459.8	456.9	452.6	426.9	382.6	389.8	385.6	389.8	397.0	406.9	438.4
57.5°	448.3	442.5	442.5	419.8	372.6	375.5	365.5	371.2	379.8	388.3	421.1
60°	436.8	431.1	434.1	409.7	356.9	354.1	349.8	361.2	364.1	374.1	406.9
62.5°	424.0	419.8	421.1	398.3	345.5	338.4	338.4	348.4	349.8	364.1	395.4
65°	413.9	408.3	406.9	386.9	332.6	324.1	328.4	332.6	335.4	349.8	379.8
67.5°	404.1	392.6	392.6	376.8	318.4	309.8	318.4	316.9	321.2	334.1	358.3
70°	391.2	375.5	376.8	369.8	304.0	294.1	301.2	299.9	302.6	311.3	335.4
72.5°	371.2	358.3	361.2	358.3	289.9	275.5	278.5	278.5	278.5	285.5	311.3
75°	345.5	335.4	344.1	351.1	272.6	252.8	255.6	255.6	251.3	255.6	287.0
77.5°	314.0	308.4	337.0	327.0	252.8	228.3	228.3	225.6	217.0	222.7	256.9
80°	279.8	275.5	311.3	274.2	229.8	198.4	195.7	188.5	179.9	184.2	218.5
82.5°	244.1	239.8	261.2	209.8	198.4	164.2	157.1	144.2	135.6	140.0	171.3
85°	200.0	200.0	201.3	158.6	151.4	125.7	117.0	99.9	89.9	92.9	122.8
87.5°	142.8	147.1	135.6	108.5	89.9	70.0	64.3	54.3	45.6	52.8	64.3
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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CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-7027-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7
2.5°	7542.6	7699.6	7878.1	8106.6	8302.1	8623.4	8931.8	9117.3
5°	5639.5	5900.7	6226.2	6644.6	7034.4	7619.8	8200.7	8573.5
7.5°	4036.2	4315.9	4667.2	5189.8	5740.9	6487.5	7255.6	7701.1
10°	3339.4	3626.4	3921.9	4274.6	4725.8	5538.1	6446.1	6948.7
12.5°	2762.6	3069.6	3388.0	3759.1	4177.5	4902.8	5949.2	6527.5
15°	2114.4	2457.1	2832.5	3302.3	3826.3	4664.3	5826.4	6454.7
17.5°	1449.1	1831.7	2293.0	2872.6	3513.6	4587.3	6046.3	6770.3
20°	997.9	1276.4	1768.9	2448.5	3219.4	4577.3	6469.0	7375.5
22.5°	835.2	959.4	1319.3	2058.7	2998.3	4700.0	7124.3	8225.1
25°	772.5	846.7	1053.6	1720.4	2836.8	4982.7	8026.6	9324.3
27.5°	735.3	802.4	956.5	1499.1	2709.7	5311.0	8904.7	10389.4
30°	749.5	818.0	929.4	1386.4	2537.1	5585.2	9684.2	11220.4
32.5°	675.3	705.3	796.6	1286.4	2412.8	5815.1	10366.6	11908.6
35°	575.4	628.2	711.0	1239.2	2415.7	5969.2	11110.4	12788.0
37.5°	548.2	601.1	661.1	1222.1	2448.5	6133.4	11964.3	13818.8
40°	531.1	579.6	631.1	1212.2	2480.0	6283.4	12800.8	14838.3
42.5°	519.7	564.0	628.2	1177.9	2495.6	6417.6	13488.9	15704.9
45°	518.2	564.0	639.7	1143.6	2519.9	6561.8	14065.8	16345.9
47.5°	519.7	582.6	618.3	1102.2	2519.9	6803.0	14742.5	16918.4
50°	514.0	613.9	595.3	1043.7	2461.4	7259.9	15670.7	17685.1
52.5°	511.1	609.6	551.1	953.7	2359.9	7985.3	16859.8	18741.6
55°	503.9	588.2	519.7	819.6	2241.5	8776.1	18133.4	19990.8
57.5°	496.9	521.0	502.5	702.5	2058.7	9333.0	19010.0	20966.0
60°	556.8	455.4	488.3	645.3	1814.7	9485.7	18975.7	21354.2
62.5°	515.4	426.9	469.8	632.4	1643.3	9057.4	18099.1	21144.5
65°	404.1	408.3	451.2	669.5	1597.6	7922.4	16545.8	20175.0
67.5°	369.8	389.8	432.7	716.7	1601.9	6343.3	14224.3	18063.5
70°	348.4	369.8	411.2	741.0	1613.4	4728.6	11246.2	14712.6
72.5°	324.1	342.7	386.9	745.2	1539.1	3435.1	8667.7	10817.7
75°	295.5	312.7	352.7	649.7	1275.0	2382.8	6630.3	7401.2
77.5°	262.8	275.5	309.8	501.2	946.5	1524.9	4977.0	5406.8
80°	224.1	231.4	259.8	366.9	648.1	953.7	3937.6	4338.9
82.5°	179.9	182.7	201.3	275.5	421.1	612.5	2637.0	3009.6
85°	127.1	127.1	138.5	200.0	287.0	388.3	1432.0	1587.7
87.5°	59.9	61.4	61.4	110.0	149.8	197.0	329.8	202.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)