

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: P269336

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269336
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-05-LED-E1-SLR-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 24917.8 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

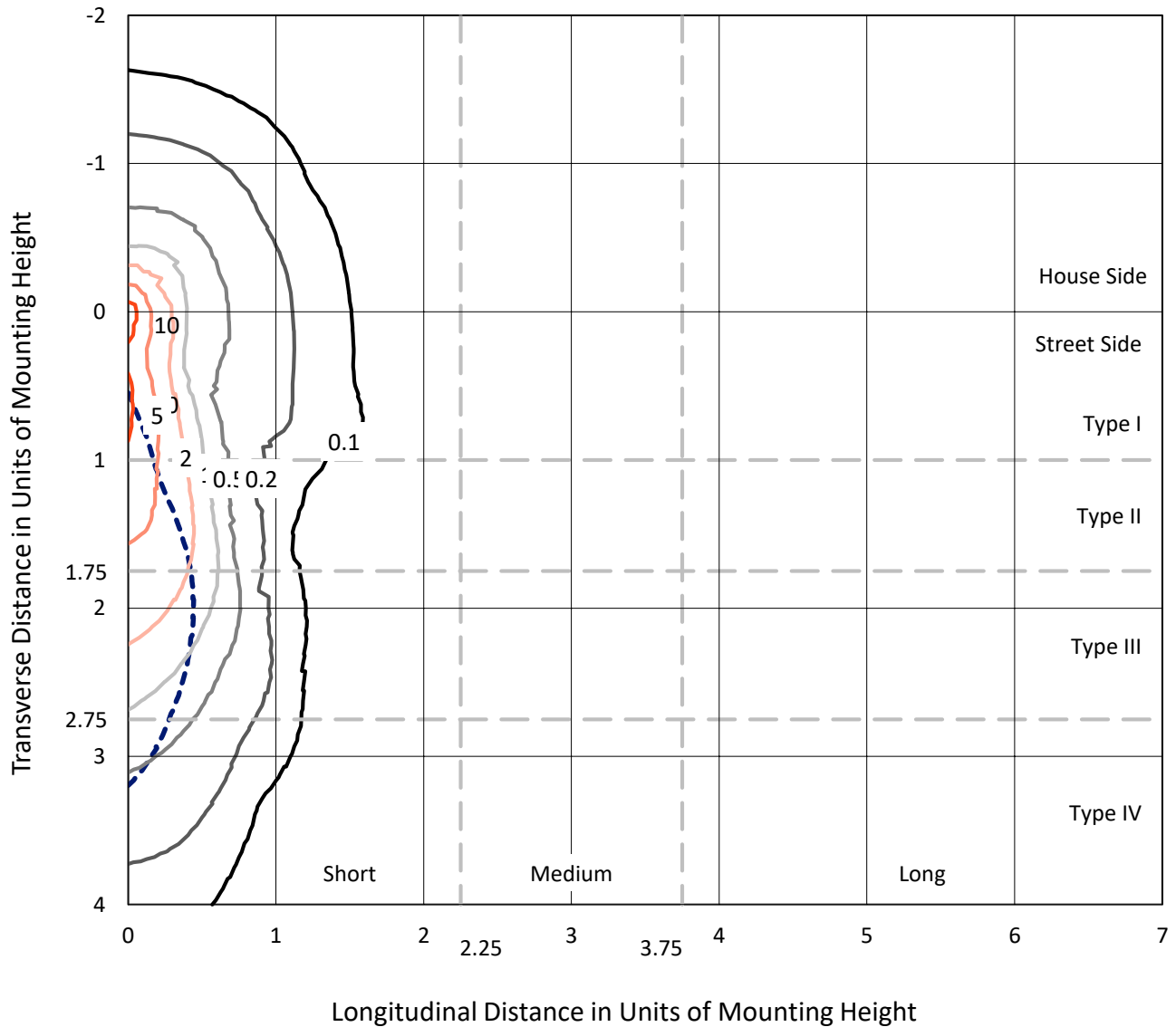


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

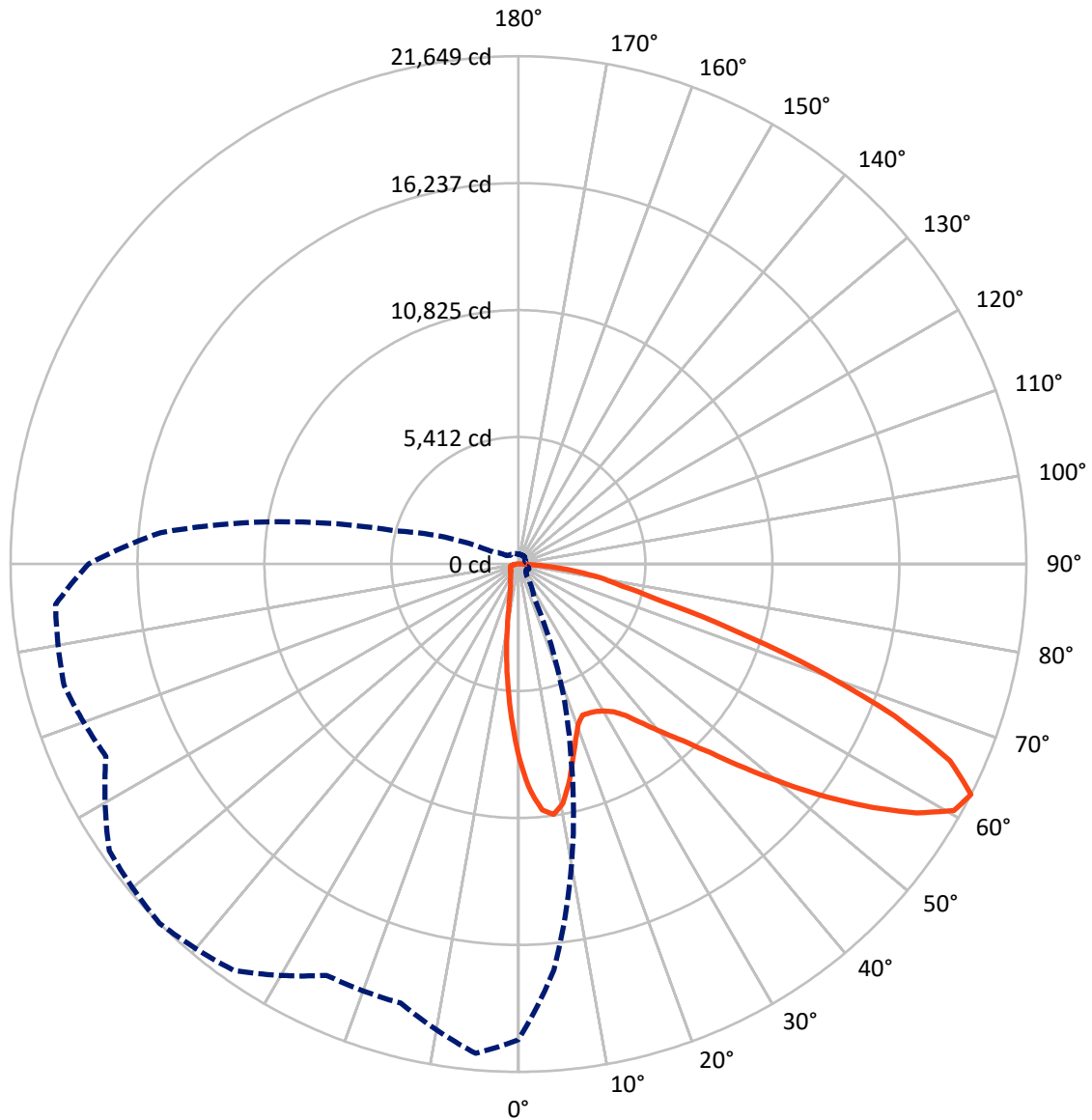


Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type IV - Short - Non-Cutoff

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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	4123.6	0.0	4123.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20794.3	0.0	20794.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	24917.8	0.0	24917.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.8	2.5
10°-20°	1123.8	4.5
20°-30°	1638.5	6.6
30°-40°	2523.5	10.1
40°-50°	3713.9	14.9
50°-60°	5447.5	21.9
60°-70°	6089.5	24.4
70°-80°	2981.3	12.0
80°-90°	787.1	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°	24917.8	100.0
0°-180°	24917.8	100.0



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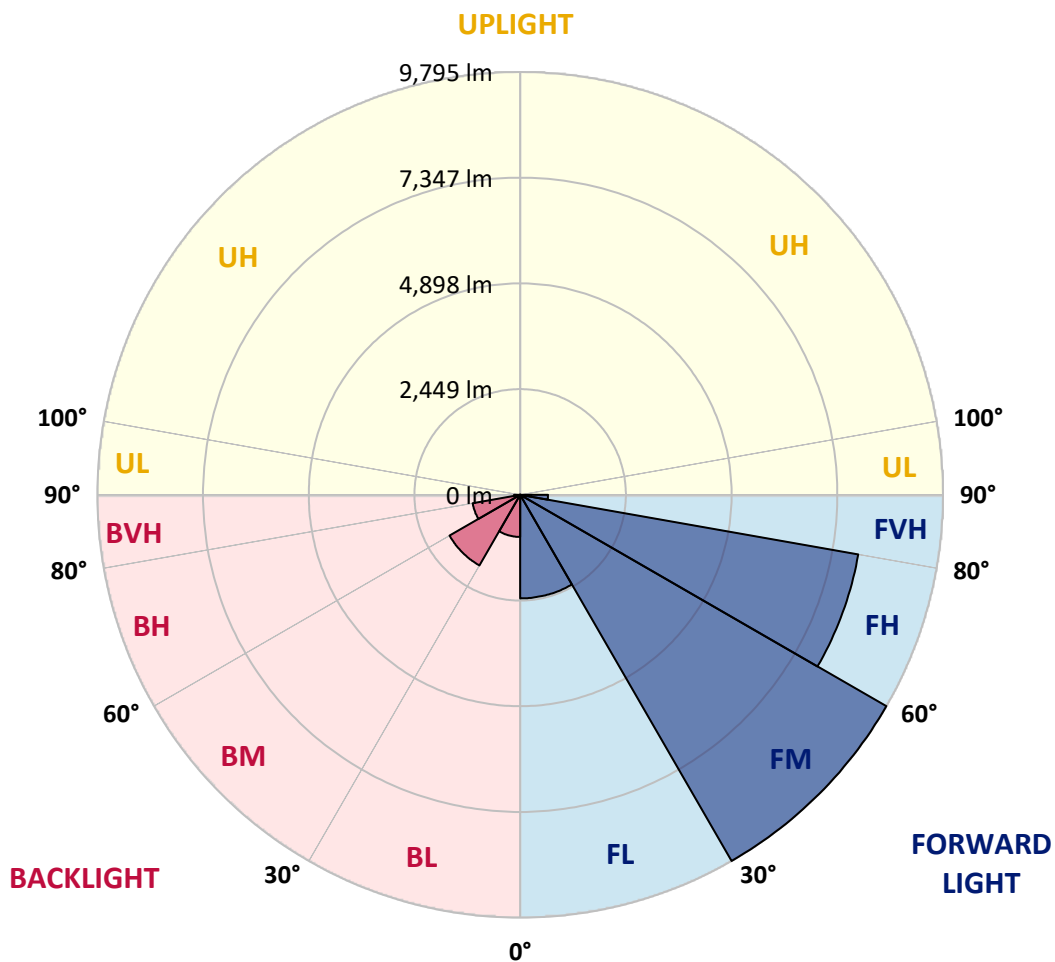
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2399.5	9.6			
FM	(30°-60°)	9795.4	39.3			
FH	(60°-80°)	7952.9	31.9			G4/12000
FVH	(80°-90°)	646.4	2.6			G4/750
BL	(0°-30°)	975.6	3.9	B2/1000		
BM	(30°-60°)	1889.4	7.6	B2/2500		
BH	(60°-80°)	1117.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	140.7	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°	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6
2.5°	8747.3	8569.3	8273.4	7965.2	7777.5	7558.3	7387.1	7236.4	6935.2	6876.3	6929.6
5°	8225.5	7868.0	7310.4	6748.8	6374.9	5973.5	5661.3	5410.6	5028.4	4961.2	5042.0
7.5°	7388.5	6961.1	6224.3	5507.9	4979.1	4477.8	4140.7	3872.4	3573.7	3445.0	3453.2
10°	6666.6	6184.6	5313.4	4533.9	4101.1	3762.7	3479.2	3203.9	2901.2	2702.6	2647.8
12.5°	6262.5	5707.8	4703.7	4008.0	3606.5	3250.4	2945.1	2650.4	2327.1	2124.5	2067.0
15°	6192.7	5590.1	4475.0	3671.0	3168.3	2717.6	2357.3	2028.6	1695.8	1531.4	1497.1
17.5°	6495.5	5801.0	4401.1	3371.0	2756.0	2199.9	1757.4	1390.2	1119.1	1037.0	1030.0
20°	7076.2	6206.4	4391.5	3088.8	2349.2	1697.2	1224.6	957.5	838.3	815.0	816.4
22.5°	7891.3	6835.2	4509.3	2876.6	1975.3	1265.6	920.6	801.3	754.8	732.8	732.8
25°	8946.0	7700.8	4780.5	2721.8	1650.5	1011.0	812.2	741.0	697.3	682.2	684.9
27.5°	9967.9	8543.2	5095.5	2599.9	1438.2	917.8	769.8	705.3	667.1	652.0	658.8
30°	10765.0	9291.1	5358.5	2434.0	1330.0	891.7	784.8	719.2	664.3	641.0	642.4
32.5°	11425.3	9945.9	5579.1	2314.9	1234.1	764.4	676.7	647.9	641.0	613.6	600.0
35°	12269.1	10659.6	5727.1	2317.6	1188.9	682.2	602.8	552.0	515.1	483.6	483.6
37.5°	13257.9	11478.6	5884.5	2349.2	1172.5	634.3	576.7	526.0	491.7	461.5	456.1
40°	14236.0	12281.4	6028.3	2379.3	1162.9	605.5	556.1	509.6	478.1	448.0	439.7
42.5°	15067.5	12941.5	6157.2	2394.3	1130.1	602.8	541.0	498.6	468.5	435.6	427.4
45°	15682.5	13495.0	6295.4	2417.7	1097.2	613.6	541.0	497.2	460.2	428.8	420.5
47.5°	16231.7	14144.3	6526.9	2417.7	1057.5	593.2	558.8	498.6	458.9	425.9	419.1
50°	16967.4	15034.6	6965.3	2361.5	1001.3	571.2	589.0	493.1	446.5	420.5	412.3
52.5°	17981.0	16175.6	7661.1	2264.2	915.1	528.7	584.8	490.4	434.2	406.8	397.2
55°	19179.5	17397.5	8420.0	2150.5	786.2	498.6	564.3	483.6	420.5	390.4	380.8
57.5°	20115.0	18238.5	8954.1	1975.3	673.9	482.2	499.9	476.7	404.1	372.5	364.4
60°	20487.6	18205.6	9100.6	1740.9	619.1	468.5	436.9	534.2	390.4	359.0	349.4
62.5°	20286.2	17364.5	8689.8	1576.5	606.9	450.7	409.5	494.4	379.4	349.4	335.5
65°	19356.1	15874.3	7600.9	1532.8	642.4	432.9	391.8	387.7	364.4	335.5	322.0
67.5°	17330.3	13647.1	6085.8	1536.9	687.7	415.0	374.0	354.8	343.8	320.5	308.2
70°	14115.4	10789.6	4536.7	1547.8	710.9	394.4	354.8	334.2	322.0	298.5	290.4
72.5°	10378.7	8315.9	3295.6	1476.6	715.1	371.2	328.7	311.0	298.5	274.0	267.1
75°	7100.9	6361.2	2286.1	1223.2	623.2	338.3	299.9	283.5	275.3	245.1	241.0
77.5°	5187.4	4775.0	1462.9	908.1	480.9	297.2	264.5	252.1	246.6	213.6	208.1
80°	4162.7	3777.8	915.1	621.8	352.0	249.3	221.9	215.1	209.6	176.6	172.6
82.5°	2887.5	2529.9	587.6	404.1	264.5	193.1	175.3	172.6	164.4	134.2	130.2
85°	1523.2	1373.9	372.5	275.3	191.8	132.9	121.9	121.9	117.8	89.0	86.2
87.5°	194.6	316.5	189.1	143.8	105.6	58.8	58.8	57.5	61.7	50.7	43.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6
2.5°	6803.7	6869.3	6806.4	6810.5	6880.4	7088.5	7183.0	7261.1	7344.7	7399.5	7424.1
5°	4931.2	5084.5	5136.6	5246.2	5407.8	5673.5	5779.1	5855.7	5906.4	5936.5	5948.8
7.5°	3372.3	3465.5	3569.7	3746.3	4098.3	4254.6	4324.4	4306.6	4249.1	4228.5	4207.9
10°	2542.4	2505.4	2486.1	2583.3	2868.3	3025.9	3075.1	3027.2	2995.7	3002.6	3036.8
12.5°	1969.8	1905.3	1827.2	1816.4	2003.9	2145.1	2176.6	2179.3	2236.8	2287.5	2362.8
15°	1435.5	1428.7	1390.2	1367.0	1473.8	1588.9	1602.7	1627.3	1679.3	1716.3	1782.1
17.5°	1012.3	1049.2	1079.4	1094.5	1175.3	1257.4	1242.4	1230.0	1220.4	1220.4	1252.0
20°	816.4	841.1	879.4	923.2	1005.5	1063.0	1026.0	976.6	941.1	930.0	934.1
22.5°	735.5	754.8	776.7	815.0	889.1	928.7	889.1	853.4	817.7	805.4	801.3
25°	694.5	719.2	739.7	768.4	823.2	850.7	812.2	786.2	764.4	749.2	738.2
27.5°	671.3	693.1	698.6	712.3	758.9	783.5	764.4	753.4	739.7	726.0	712.3
30°	646.5	642.4	632.9	634.3	671.3	695.8	694.5	697.3	695.8	691.8	689.0
32.5°	590.4	582.1	573.9	582.1	616.3	638.3	639.8	645.2	645.2	643.7	654.8
35°	491.7	506.9	516.3	541.0	582.1	601.3	593.2	579.3	554.8	539.7	538.4
37.5°	454.7	457.4	473.9	508.3	553.4	571.2	558.8	527.3	511.0	508.3	512.4
40°	436.9	439.7	449.3	480.9	526.0	543.8	532.9	509.6	494.4	493.1	499.9
42.5°	424.5	427.4	432.9	454.7	491.7	513.7	515.1	498.6	480.9	482.2	488.9
45°	417.8	419.1	417.8	428.8	462.9	488.9	499.9	488.9	473.9	476.7	484.8
47.5°	416.5	412.3	406.8	409.5	445.2	471.3	484.8	480.9	473.9	476.7	483.6
50°	411.0	401.4	394.4	393.1	428.8	456.1	468.5	468.5	471.3	476.7	483.6
52.5°	394.4	383.5	383.5	379.4	417.8	443.9	452.0	453.4	457.4	467.1	476.7
55°	374.0	369.8	374.0	367.0	409.5	434.2	438.4	441.1	443.9	452.0	465.7
57.5°	356.2	350.7	360.2	357.5	402.7	424.5	424.5	430.1	430.1	441.1	452.0
60°	346.6	335.5	339.6	342.4	393.1	416.5	413.7	419.1	421.8	431.5	439.7
62.5°	334.2	324.6	324.6	331.5	382.1	404.1	402.7	406.8	417.8	420.5	428.8
65°	319.2	315.0	311.0	319.2	371.2	390.4	391.8	397.2	406.8	409.5	416.5
67.5°	304.0	305.5	297.2	305.5	361.6	376.7	376.7	387.7	391.8	397.2	404.1
70°	287.6	289.1	282.2	291.8	354.8	361.6	360.2	375.3	378.0	382.1	389.1
72.5°	267.1	267.1	264.5	278.0	343.8	346.6	343.8	356.2	357.5	361.6	364.4
75°	245.1	245.1	242.5	261.6	337.0	330.0	322.0	331.5	334.2	337.0	337.0
77.5°	216.4	219.1	219.1	242.5	313.7	323.3	295.9	301.3	305.5	306.9	302.6
80°	180.7	187.7	190.4	220.5	263.1	298.5	264.5	268.5	269.9	269.9	264.5
82.5°	138.3	150.6	157.6	190.4	201.4	250.6	230.1	234.2	230.1	221.9	219.1
85°	95.8	112.3	120.6	145.2	152.1	193.1	191.8	191.8	183.6	172.6	171.2
87.5°	52.0	61.7	67.2	86.2	104.2	130.2	141.0	137.0	130.2	123.2	124.7
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6
2.5°	7552.9	7739.2	8036.4	8263.8	8492.5	8713.1	8951.4	9133.5	9288.4	9348.8	9532.3
5°	6073.5	6306.5	6587.2	7094.1	7452.9	7848.9	8306.3	8911.7	9144.6	9466.5	9993.9
7.5°	4294.2	4505.2	4957.1	5366.7	5874.9	6435.2	7053.0	7888.5	8194.0	8710.3	9569.1
10°	3206.6	3451.7	3814.8	4160.1	4607.9	5180.4	5889.9	6824.2	7195.5	7755.6	8744.6
12.5°	2583.3	2872.4	3257.3	3581.9	3928.5	4332.5	5021.5	6046.1	6543.3	7033.8	8033.7
15°	1984.7	2287.5	2645.0	3057.3	3439.5	3875.1	4596.9	5717.4	6290.0	6800.9	7654.3
17.5°	1373.9	1632.8	2083.3	2513.5	3002.6	3560.1	4479.2	5787.3	6470.9	7059.8	7720.0
20°	973.9	1121.9	1491.6	1990.3	2599.9	3299.7	4457.2	6154.4	7043.3	7715.9	8141.9
22.5°	819.2	874.0	1088.9	1546.4	2250.6	3105.4	4533.9	6669.3	7816.0	8674.8	8814.4
25°	746.5	779.4	891.7	1213.6	1939.6	2964.1	4792.7	7436.4	8771.9	9633.6	9608.9
27.5°	706.7	741.0	815.0	1024.5	1705.3	2876.6	5051.7	8346.1	9865.0	10674.6	10367.8
30°	694.5	741.0	819.2	965.7	1538.3	2738.2	5264.0	9144.6	10706.1	11377.4	10712.9
32.5°	684.9	691.8	727.4	832.8	1379.3	2576.5	5407.8	9861.0	11529.3	12045.7	11210.2
35°	553.4	587.6	645.2	746.5	1286.3	2479.3	5407.8	10478.6	12340.2	12721.1	11684.2
37.5°	532.9	563.0	613.6	700.0	1234.1	2431.4	5299.6	11074.6	13169.0	13486.8	12074.5
40°	521.8	546.4	594.5	664.3	1212.3	2376.6	5142.1	11600.5	13978.4	14253.8	12438.9
42.5°	513.7	535.6	580.8	642.4	1183.4	2316.3	5014.7	12022.5	14681.2	14908.5	12786.7
45°	509.6	532.9	582.1	653.3	1125.9	2236.8	4972.3	12478.5	15259.1	15455.1	13163.5
47.5°	509.6	536.9	589.0	676.7	1057.5	2154.7	5105.1	13080.0	15805.8	15901.6	13607.3
50°	505.4	535.6	608.2	653.3	957.5	2050.6	5417.4	13837.4	16397.5	16408.4	14168.8
52.5°	497.2	532.9	654.8	639.8	842.4	1913.6	5839.3	14809.9	17272.8	17338.5	15048.2
55°	487.6	528.7	642.4	608.2	747.8	1750.5	6184.6	15992.0	18502.7	18684.9	16341.3
57.5°	475.4	523.3	621.8	564.3	686.2	1541.0	6309.2	16857.8	19361.7	19819.1	17798.7
60°	464.3	519.1	561.6	538.4	647.9	1364.3	6068.1	16686.6	19302.8	20288.9	19090.5
62.5°	453.4	523.3	512.4	521.8	630.2	1250.6	5438.0	15315.4	18326.1	19804.2	20048.0
65°	441.1	486.3	483.6	508.3	625.9	1205.3	4508.0	13259.3	16438.5	18271.3	20273.9
67.5°	424.5	449.3	462.9	490.4	639.8	1165.7	3638.0	10937.7	13815.5	15974.2	19095.9
70°	406.8	427.4	442.4	468.5	631.5	1147.9	3025.9	8625.4	10962.2	13092.3	16771.4
72.5°	383.5	401.4	415.0	439.7	623.2	1138.3	2555.9	6946.1	8184.4	9725.3	13636.0
75°	356.2	372.5	382.1	406.8	597.3	1042.5	2009.5	5877.7	6124.3	6765.2	10860.9
77.5°	324.6	337.0	345.2	372.5	528.7	867.0	1453.3	4533.9	4755.8	4912.0	8326.7
80°	287.6	299.9	304.0	330.0	438.4	678.0	947.9	3349.2	3557.3	3593.0	5438.0
82.5°	245.1	257.5	257.5	282.2	359.0	487.6	621.8	2294.5	2335.5	2456.0	3843.6
85°	197.3	206.8	206.8	219.1	278.0	364.4	427.4	1151.9	1139.6	1301.3	3329.8
87.5°	141.0	148.0	154.8	157.6	198.6	241.0	257.5	350.7	231.6	265.7	2138.2
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-05-LED-E1-SLR-7027-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6	8418.6
2.5°	9670.6	9748.6	9669.1	9611.7	9363.8	9159.7	8887.0	8747.3
5°	10395.1	10593.8	10526.7	10285.7	9767.8	9185.7	8524.0	8225.5
7.5°	10307.5	10769.2	10780.1	10329.4	9566.5	8709.0	7813.2	7388.5
10°	9625.3	10215.7	10384.1	9947.2	9137.6	8178.9	7151.5	6666.6
12.5°	8863.8	9441.8	9570.5	9419.8	8743.3	7780.3	6737.8	6262.5
15°	8240.5	8499.5	8652.8	8784.3	8404.9	7621.4	6714.7	6192.7
17.5°	7861.1	7832.3	7876.2	8104.9	8169.2	7803.5	7070.7	6495.5
20°	7724.2	7284.4	7273.4	7588.5	8058.3	8237.7	7766.6	7076.2
22.5°	7799.4	7087.2	6996.8	7370.8	8117.3	8863.8	8678.9	7891.3
25°	8059.8	7103.5	7031.0	7392.6	8330.9	9530.8	9663.6	8946.0
27.5°	8469.3	7207.7	7111.8	7483.1	8614.4	10091.1	10633.4	9967.9
30°	8858.2	7388.5	7269.4	7661.1	8873.4	10313.0	11227.9	10765.0
32.5°	9330.9	7726.9	7517.2	7988.4	9194.0	10666.4	11758.0	11425.3
35°	9793.9	8209.0	7948.7	8494.0	9551.4	11106.0	12363.6	12269.1
37.5°	10302.0	8839.1	8624.1	9147.4	10040.4	11521.1	13136.0	13257.9
40°	10844.5	9674.7	9419.8	10100.6	10799.2	12041.6	13942.9	14236.0
42.5°	11391.0	10601.9	10297.9	10988.2	11633.4	12555.3	14633.2	15067.5
45°	12016.9	11608.7	11465.0	12211.5	12434.8	13044.3	15142.8	15682.5
47.5°	12745.7	12751.3	12982.7	13281.4	13243.0	13597.6	15655.1	16231.7
50°	13596.2	14177.1	14688.0	14886.6	14075.7	14192.1	16366.0	16967.4
52.5°	14618.2	15882.5	16515.2	16385.2	14972.9	14918.2	17491.9	17981.0
55°	15896.1	17687.7	18316.5	18223.3	16004.4	15907.0	18894.6	19179.5
57.5°	17375.5	19436.9	20015.0	19595.8	17242.6	16992.0	20054.8	20115.0
60°	18675.5	20823.3	21330.1	20865.7	18491.9	18146.8	20779.4	20487.6
62.5°	19398.7	21293.1	21649.2	21149.2	19348.0	19376.7	20938.2	20286.2
65°	19075.4	20105.4	20220.5	20179.4	19127.4	20090.4	20367.1	19356.1
67.5°	17305.7	17102.9	17296.1	17563.1	17237.1	19150.7	18784.9	17330.3
70°	14188.1	13074.4	13459.3	13638.7	13786.6	16479.6	16304.3	14115.4
72.5°	10692.4	9159.7	9463.7	9426.8	10111.6	13218.3	12679.9	10378.7
75°	7576.1	6210.5	6248.9	6233.8	7055.6	10341.7	9181.5	7100.9
77.5°	5301.0	4499.7	4520.2	4605.2	4743.5	7799.4	6559.9	5187.4
80°	3645.0	3414.8	3528.5	3535.4	3287.4	5239.4	4846.3	4162.7
82.5°	2714.9	2373.9	2346.5	2386.2	2576.5	4244.9	3724.5	2887.5
85°	2223.1	1405.4	1130.1	1416.4	2283.4	4203.8	2473.8	1523.2
87.5°	1252.0	667.1	301.3	558.8	910.9	2783.4	715.1	194.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)