

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: P191293

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191293
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-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA 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: 26745.1 lumens
Efficiency: N/A
Efficacy: 95.9 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

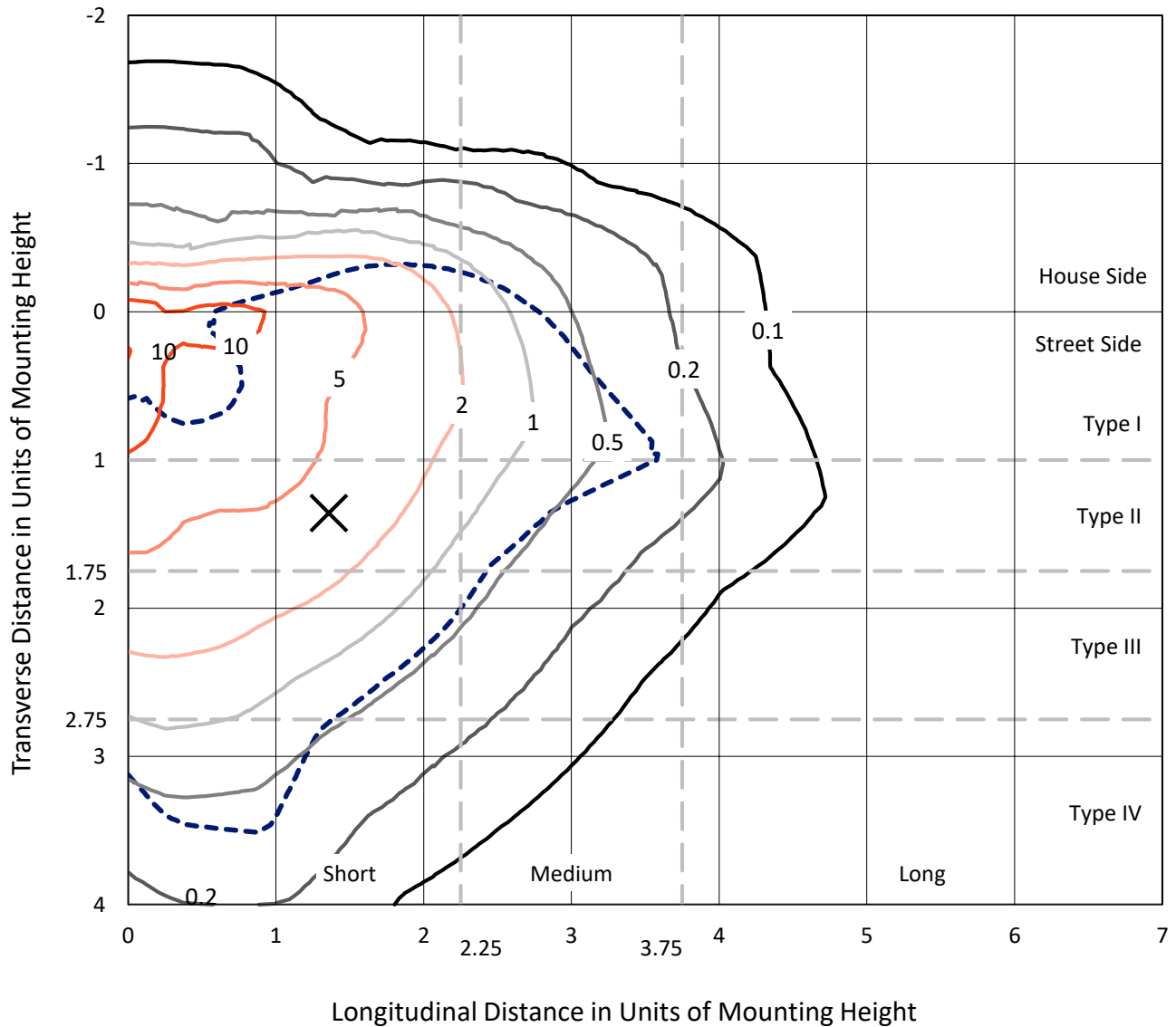
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

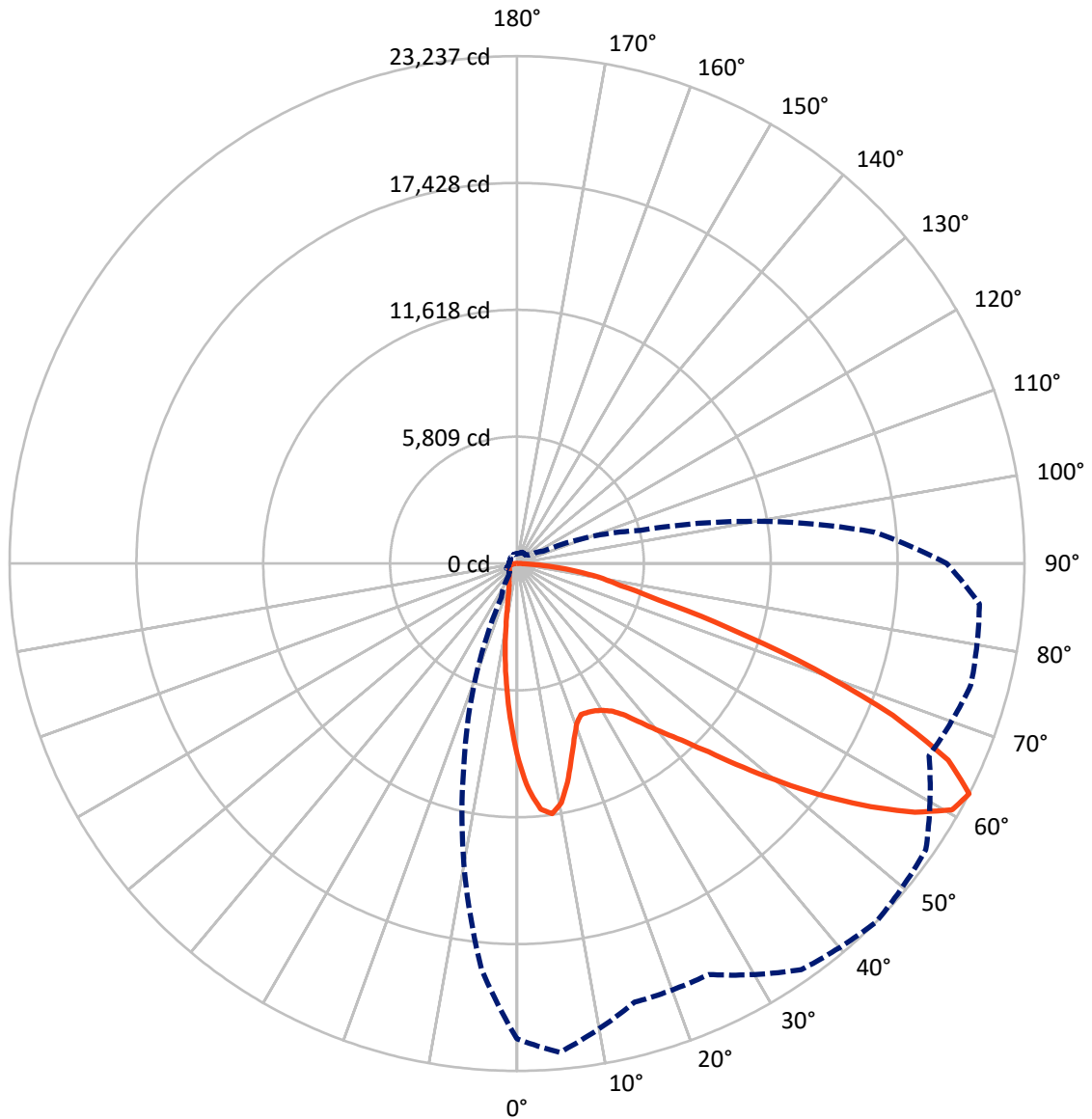
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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	4425.9	0.0	4425.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	22319.1	0.0	22319.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	26745.1	0.0	26745.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.8	2.5
10°-20°	1206.2	4.5
20°-30°	1758.6	6.6
30°-40°	2708.5	10.1
40°-50°	3986.2	14.9
50°-60°	5846.9	21.9
60°-70°	6536.0	24.4
70°-80°	3200.0	12.0
80°-90°	844.9	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°	26745.1	100.0
0°-180°	26745.1	100.0



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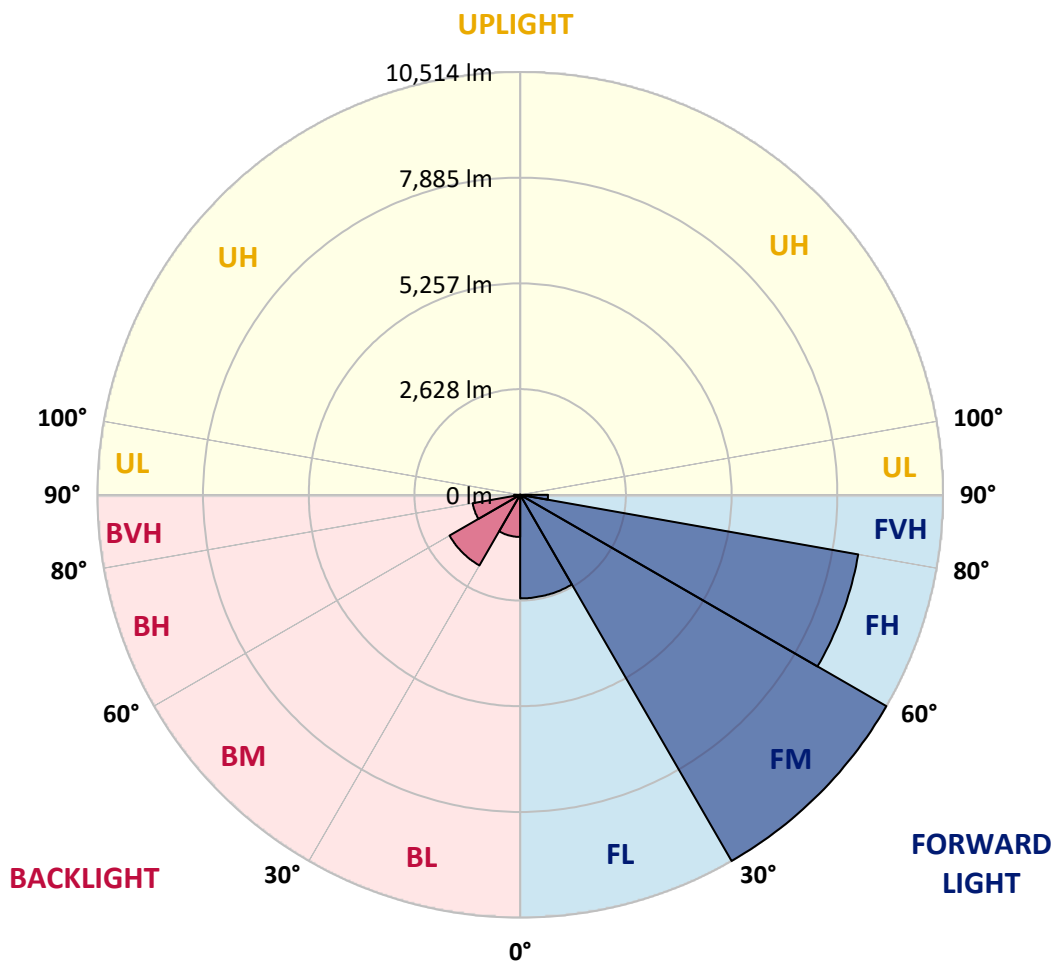
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2575.5	9.6			
FM	(30°-60°)	10513.7	39.3			
FH	(60°-80°)	8536.1	31.9			G4/12000
FVH	(80°-90°)	693.8	2.6			G4/750
BL	(0°-30°)	1047.1	3.9	B3/2500		
BM	(30°-60°)	2027.9	7.6	B2/2500		
BH	(60°-80°)	1199.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	151.0	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°	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9
2.5°	9388.7	9538.7	9831.3	10050.4	10316.5	10378.2	10463.5	10379.7	10231.2	10034.2	9969.5
5°	8828.6	9149.2	9859.2	10484.1	11039.8	11298.6	11370.6	11157.4	10726.7	10160.7	9815.1
7.5°	7930.3	8386.0	9347.6	10268.0	11086.8	11570.6	11558.8	11063.3	10270.9	9349.1	8794.8
10°	7155.5	7676.0	8778.7	9807.7	10676.6	11145.7	10964.8	10331.2	9385.8	8324.4	7723.0
12.5°	6721.8	7232.0	8350.8	9384.3	10110.6	10272.4	10134.2	9513.7	8622.8	7549.6	7023.2
15°	6646.8	7207.0	8180.2	9021.2	9428.4	9287.4	9122.7	8844.8	8215.5	7299.6	6751.2
17.5°	6971.7	7589.3	8375.8	8768.3	8699.3	8453.7	8406.7	8437.5	8286.1	7577.5	6945.3
20°	7595.1	8336.1	8841.9	8649.3	8144.9	7806.9	7818.6	8290.5	8739.0	8281.7	7559.8
22.5°	8469.9	9315.3	9513.7	8712.5	7911.2	7509.8	7606.9	8371.4	9460.8	9310.9	8389.0
25°	9601.9	10372.3	10229.7	8941.8	7934.7	7546.6	7624.6	8650.7	10313.5	10340.0	9415.2
27.5°	10698.7	11413.3	10831.0	9246.1	8031.8	7633.4	7736.3	9090.4	11128.1	11457.4	10588.5
30°	11554.4	12051.3	11069.2	9524.0	8222.9	7802.5	7930.3	9507.8	11498.5	12211.6	11491.2
32.5°	12263.0	12620.2	11448.6	9868.1	8574.3	8068.5	8293.5	10015.1	12032.3	12929.1	12374.7
35°	13168.7	13270.1	11920.4	10251.8	9116.7	8531.6	8811.0	10512.0	12540.9	13653.8	13245.2
37.5°	14230.2	14099.3	12365.9	10776.7	9818.1	9256.5	9487.3	11057.5	12959.9	14475.7	14134.6
40°	15279.9	14965.3	12924.7	11591.2	10841.3	10110.6	10384.1	11639.6	13350.9	15299.0	15003.5
42.5°	16172.3	15706.3	13475.9	12486.5	11794.0	11053.1	11379.4	12226.3	13724.4	16001.8	15757.7
45°	16832.5	16253.2	14000.8	13346.5	13107.0	12305.7	12460.1	12898.2	14128.7	16588.4	16378.2
47.5°	17422.0	16803.1	14594.7	14214.0	14255.1	13934.6	13686.2	13680.3	14605.1	17067.7	16964.7
50°	18211.5	17566.1	15232.9	15107.9	15978.3	15765.1	15216.7	14593.3	15207.9	17611.6	17599.9
52.5°	19299.5	18774.6	16012.0	16070.9	17586.7	17726.3	17047.1	15690.1	16151.8	18609.9	18539.3
55°	20585.9	20280.1	17073.6	17177.9	19559.7	19659.7	18984.8	17061.8	17539.6	20055.2	19859.6
57.5°	21590.1	21525.3	18238.0	18507.0	21032.9	21482.7	20862.3	18649.6	19103.9	21272.5	20781.5
60°	21990.0	22303.1	19477.4	19847.8	22395.8	22894.2	22350.1	20044.8	20490.3	21776.8	20718.2
62.5°	21773.8	22473.6	20797.6	20766.7	22700.1	23236.7	22854.5	20821.1	21518.0	21256.3	19669.9
65°	20775.5	21860.6	21563.6	20530.0	21659.1	21703.2	21579.8	20474.2	21760.6	19611.2	17644.0
67.5°	18601.1	20162.5	20555.1	18501.1	18851.0	18564.3	18357.1	18574.6	20496.3	17145.6	14828.6
70°	15150.5	17499.9	17688.1	14797.7	14638.9	14446.3	14033.1	15228.5	18001.3	14052.3	11766.1
72.5°	11139.8	13609.7	14187.5	10853.1	10118.0	10157.7	9831.3	11476.5	14636.0	10438.5	8784.5
75°	7621.6	9854.8	11100.1	7573.0	6690.9	6707.1	6666.0	8131.7	11657.3	7261.4	6573.3
77.5°	5567.7	7040.9	8371.4	5091.3	4942.9	4851.7	4829.7	5689.8	8937.4	5272.2	5104.5
80°	4467.9	5201.6	5623.6	3528.5	3794.6	3787.3	3665.2	3912.3	5836.8	3856.3	3818.2
82.5°	3099.2	3997.5	4556.2	2765.4	2561.1	2518.5	2547.9	2914.0	4125.5	2636.0	2506.7
85°	1634.9	2655.2	4512.0	2450.9	1520.2	1212.9	1508.4	2386.1	3574.1	1396.7	1223.2
87.5°	208.8	767.4	2987.4	977.7	599.9	323.5	716.0	1343.7	2295.0	285.2	248.5
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°	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9
2.5°	9803.3	9607.9	9352.0	9115.3	8869.8	8625.7	8306.7	8106.8	7968.6	7942.1	7883.3
5°	9565.2	8915.3	8424.3	7999.4	7614.2	7070.2	6768.9	6519.0	6385.2	6371.9	6339.5
7.5°	8467.0	7570.1	6907.1	6305.8	5760.3	5320.7	4835.5	4609.1	4516.5	4538.5	4560.6
10°	7324.6	6321.9	5560.4	4945.8	4465.1	4094.6	3704.9	3441.7	3259.4	3222.7	3215.3
12.5°	6489.5	5389.8	4650.2	4216.6	3844.6	3496.1	3083.1	2772.8	2536.1	2455.3	2400.9
15°	6136.7	4934.0	4159.2	3691.7	3281.5	2839.0	2455.3	2130.3	1912.7	1842.1	1802.4
17.5°	6211.7	4807.6	3821.0	3222.7	2697.8	2236.2	1752.5	1474.6	1343.7	1310.0	1310.0
20°	6605.7	4784.0	3541.8	2790.5	2136.2	1601.0	1204.1	1045.4	1002.7	998.3	1010.1
22.5°	7158.5	4866.4	3333.0	2415.6	1659.8	1168.8	938.0	879.2	860.1	864.5	877.7
25°	7981.8	5144.3	3181.6	2081.8	1302.6	957.1	836.6	801.3	792.5	804.2	820.4
27.5°	8958.0	5422.2	3087.5	1830.4	1099.7	874.7	795.3	758.6	764.6	779.2	793.9
30°	9815.1	5650.1	2938.9	1651.0	1036.5	879.2	795.3	745.4	739.5	742.5	746.9
32.5°	10584.1	5804.4	2765.4	1480.5	893.9	780.7	742.5	735.1	702.8	691.0	692.4
35°	11247.1	5804.4	2661.1	1380.6	801.3	692.4	630.8	593.9	577.8	579.3	595.5
37.5°	11886.7	5688.2	2609.6	1324.6	751.3	658.7	604.3	571.9	549.8	545.4	548.4
40°	12451.3	5519.1	2550.8	1301.1	713.1	638.1	586.7	560.2	536.6	529.3	530.7
42.5°	12904.0	5382.5	2486.1	1270.3	689.6	623.4	574.9	551.4	524.9	517.5	516.1
45°	13393.6	5336.8	2400.9	1208.5	701.3	624.8	571.9	546.9	520.5	511.7	508.7
47.5°	14039.1	5479.4	2312.7	1135.0	726.3	632.2	576.3	546.9	518.9	511.7	508.7
50°	14852.1	5814.7	2200.9	1027.7	701.3	652.7	574.9	542.5	518.9	511.7	505.7
52.5°	15895.9	6267.5	2053.9	904.2	686.6	702.8	571.9	533.7	511.7	501.3	491.0
55°	17164.7	6638.0	1879.0	802.7	652.7	689.6	567.5	523.4	499.9	485.2	476.4
57.5°	18093.9	6771.8	1654.0	736.6	605.7	667.5	561.6	510.1	485.2	473.4	461.7
60°	17910.1	6513.0	1464.4	695.4	577.8	602.8	557.2	498.4	471.9	463.1	452.9
62.5°	16438.4	5836.8	1342.3	676.3	560.2	549.8	561.6	486.6	460.2	451.3	448.5
65°	14231.6	4838.5	1293.8	671.9	545.4	518.9	521.9	473.4	446.9	439.6	436.7
67.5°	11739.6	3904.9	1251.2	686.6	526.3	496.9	482.2	455.7	433.7	426.4	420.4
70°	9257.9	3247.7	1232.0	677.8	502.8	474.9	458.7	436.7	417.6	410.2	405.8
72.5°	7455.5	2743.5	1221.7	668.9	471.9	445.5	430.8	411.6	391.1	388.1	383.7
75°	6308.6	2156.8	1118.8	641.0	436.7	410.2	399.9	382.3	361.7	361.7	358.7
77.5°	4866.4	1559.9	930.7	567.5	399.9	370.5	361.7	348.4	324.9	329.3	327.9
80°	3594.6	1017.4	727.7	470.5	354.4	326.4	322.0	308.7	283.8	289.6	289.6
82.5°	2462.7	667.5	523.4	385.2	302.9	276.4	276.4	263.2	235.3	238.1	247.0
85°	1236.4	458.7	391.1	298.5	235.3	222.0	222.0	211.8	183.8	185.3	197.0
87.5°	376.3	276.4	258.8	213.2	169.1	166.1	158.8	151.4	133.8	132.4	139.6
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°	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9
2.5°	7793.6	7709.8	7608.3	7384.9	7309.9	7305.5	7373.1	7302.5	7437.8	7380.5	7443.7
5°	6285.1	6202.9	6089.6	5804.4	5630.9	5513.3	5457.4	5292.7	5411.8	5325.1	5397.2
7.5°	4622.3	4641.4	4566.5	4398.9	4021.0	3831.4	3719.7	3619.6	3706.4	3697.6	3835.8
10°	3249.2	3300.7	3247.7	3078.7	2772.8	2668.5	2689.0	2728.7	2842.0	2900.7	3113.9
12.5°	2339.1	2336.2	2302.4	2151.0	1949.5	1961.3	2045.1	2114.1	2218.6	2280.3	2497.8
15°	1746.6	1720.2	1705.5	1582.0	1467.3	1492.3	1533.4	1540.8	1607.0	1643.7	1820.1
17.5°	1320.2	1333.5	1349.7	1261.4	1174.7	1158.5	1126.2	1086.5	1105.6	1113.0	1201.1
20°	1048.2	1101.2	1140.9	1079.1	990.9	943.9	902.8	876.3	876.3	874.7	899.8
22.5°	916.0	954.2	996.8	954.2	874.7	833.6	810.1	789.5	786.5	786.5	810.1
25°	843.9	871.9	913.0	883.6	824.8	793.9	771.8	745.4	735.1	732.1	748.3
27.5°	808.6	820.4	841.0	814.5	764.6	749.8	743.9	720.4	707.2	699.8	716.0
30°	748.3	745.4	746.9	720.4	680.7	679.2	689.6	694.0	689.6	688.0	713.1
32.5°	692.4	686.6	685.1	661.6	624.8	616.0	624.8	633.6	643.9	658.7	688.0
35°	621.9	636.6	645.4	624.8	580.7	554.2	544.0	527.8	518.9	518.9	552.8
37.5°	566.0	599.9	613.1	593.9	545.4	508.7	491.0	488.2	489.6	495.4	527.8
40°	546.9	571.9	583.7	564.6	516.1	482.2	471.9	469.0	471.9	480.8	513.1
42.5°	535.2	552.8	551.4	527.8	488.2	464.6	458.7	455.7	458.7	467.5	502.8
45°	524.9	536.6	524.9	496.9	460.2	448.5	449.9	448.5	451.3	460.2	494.0
47.5°	516.1	520.5	505.7	477.8	439.6	436.7	442.5	446.9	449.9	457.3	492.6
50°	502.8	502.8	489.6	460.2	422.0	423.4	430.8	441.1	442.5	451.3	479.3
52.5°	486.6	485.2	476.4	448.5	407.2	411.6	411.6	423.4	426.4	436.7	466.1
55°	473.4	470.5	466.1	439.6	394.0	401.4	397.0	401.4	408.7	419.0	451.3
57.5°	461.7	455.7	455.7	432.2	383.7	386.7	376.3	382.3	391.1	399.9	433.7
60°	449.9	444.0	446.9	422.0	367.5	364.6	360.2	371.9	374.9	385.2	419.0
62.5°	436.7	432.2	433.7	410.2	355.8	348.4	348.4	358.7	360.2	374.9	407.2
65°	426.4	420.4	419.0	398.4	342.6	333.8	338.2	342.6	345.5	360.2	391.1
67.5°	416.0	404.3	404.3	388.1	327.9	319.1	327.9	326.4	330.8	344.0	369.0
70°	402.8	386.7	388.1	380.7	313.1	302.9	310.3	308.7	311.7	320.5	345.5
72.5°	382.3	369.0	371.9	369.0	298.5	283.8	286.7	286.7	286.7	294.0	320.5
75°	355.8	345.5	354.4	361.7	280.8	260.2	263.2	263.2	258.8	263.2	295.5
77.5°	323.5	317.5	347.0	336.7	260.2	235.3	235.3	232.3	223.5	229.3	264.6
80°	288.2	283.8	320.5	282.2	236.7	204.4	201.4	194.1	185.3	189.7	224.9
82.5°	251.4	247.0	269.0	216.1	204.4	169.1	161.7	148.5	139.6	144.0	176.5
85°	205.8	205.8	207.2	163.2	155.8	129.4	120.6	102.9	92.6	95.5	126.4
87.5°	147.0	151.4	139.6	111.7	92.6	72.0	66.2	55.9	47.1	54.4	66.2
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-SLL

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9
2.5°	7767.2	7928.9	8112.6	8347.9	8549.3	8880.0	9197.7	9388.7
5°	5807.3	6076.4	6411.5	6842.3	7243.7	7846.5	8444.9	8828.6
7.5°	4156.2	4444.4	4806.1	5344.2	5911.7	6680.7	7471.6	7930.3
10°	3438.9	3734.4	4038.7	4401.9	4866.4	5703.0	6638.0	7155.5
12.5°	2844.8	3160.9	3488.8	3871.1	4301.8	5048.7	6126.4	6721.8
15°	2177.4	2530.3	2916.9	3400.6	3940.2	4803.2	5999.9	6646.8
17.5°	1492.3	1886.3	2361.2	2958.1	3618.2	4723.8	6226.4	6971.7
20°	1027.7	1314.4	1821.6	2521.4	3315.3	4713.5	6661.6	7595.1
22.5°	860.1	988.0	1358.5	2120.1	3087.5	4839.9	7336.4	8469.9
25°	795.3	871.9	1085.0	1771.6	2921.3	5131.0	8265.5	9601.9
27.5°	757.2	826.2	985.0	1543.7	2790.5	5469.2	9169.7	10698.7
30°	771.8	842.4	957.1	1427.5	2612.6	5751.4	9972.4	11554.4
32.5°	695.4	726.3	820.4	1324.6	2484.6	5988.1	10675.2	12263.0
35°	592.5	646.9	732.1	1276.1	2487.6	6146.9	11441.2	13168.7
37.5°	564.6	619.0	680.7	1258.5	2521.4	6316.0	12320.4	14230.2
40°	546.9	596.9	649.9	1248.2	2553.8	6470.4	13181.9	15279.9
42.5°	535.2	580.7	646.9	1212.9	2570.0	6608.6	13890.5	16172.3
45°	533.7	580.7	658.7	1177.6	2594.9	6757.1	14484.5	16832.5
47.5°	535.2	599.9	636.6	1135.0	2594.9	7005.6	15181.4	17422.0
50°	529.3	632.2	613.1	1074.7	2534.7	7476.0	16137.0	18211.5
52.5°	526.3	627.8	567.5	982.1	2430.2	8222.9	17361.7	19299.5
55°	518.9	605.7	535.2	843.9	2308.2	9037.4	18673.1	20585.9
57.5°	511.7	536.6	517.5	723.3	2120.1	9610.7	19575.9	21590.1
60°	573.4	469.0	502.8	664.5	1868.6	9768.1	19540.6	21990.0
62.5°	530.7	439.6	483.7	651.3	1692.2	9327.1	18637.9	21773.8
65°	416.0	420.4	464.6	689.6	1645.2	8158.2	17038.3	20775.5
67.5°	380.7	401.4	445.5	738.1	1649.6	6532.2	14647.7	18601.1
70°	358.7	380.7	423.4	763.0	1661.4	4869.3	11580.8	15150.5
72.5°	333.8	352.8	398.4	767.4	1584.9	3537.4	8925.7	11139.8
75°	304.3	322.0	363.1	668.9	1312.9	2453.8	6827.7	7621.6
77.5°	270.5	283.8	319.1	516.1	974.8	1570.2	5125.2	5567.7
80°	230.8	238.1	267.6	377.9	667.5	982.1	4054.9	4467.9
82.5°	185.3	188.2	207.2	283.8	433.7	630.8	2715.5	3099.2
85°	130.8	130.8	142.6	205.8	295.5	399.9	1474.6	1634.9
87.5°	61.8	63.2	63.2	113.2	154.4	202.9	339.6	208.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)