

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: P191334

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191334
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-06-LED-E1-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA 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: 32004.1 lumens
Efficiency: N/A
Efficacy: 96.1 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 - G5

Input Watts (W): 333
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

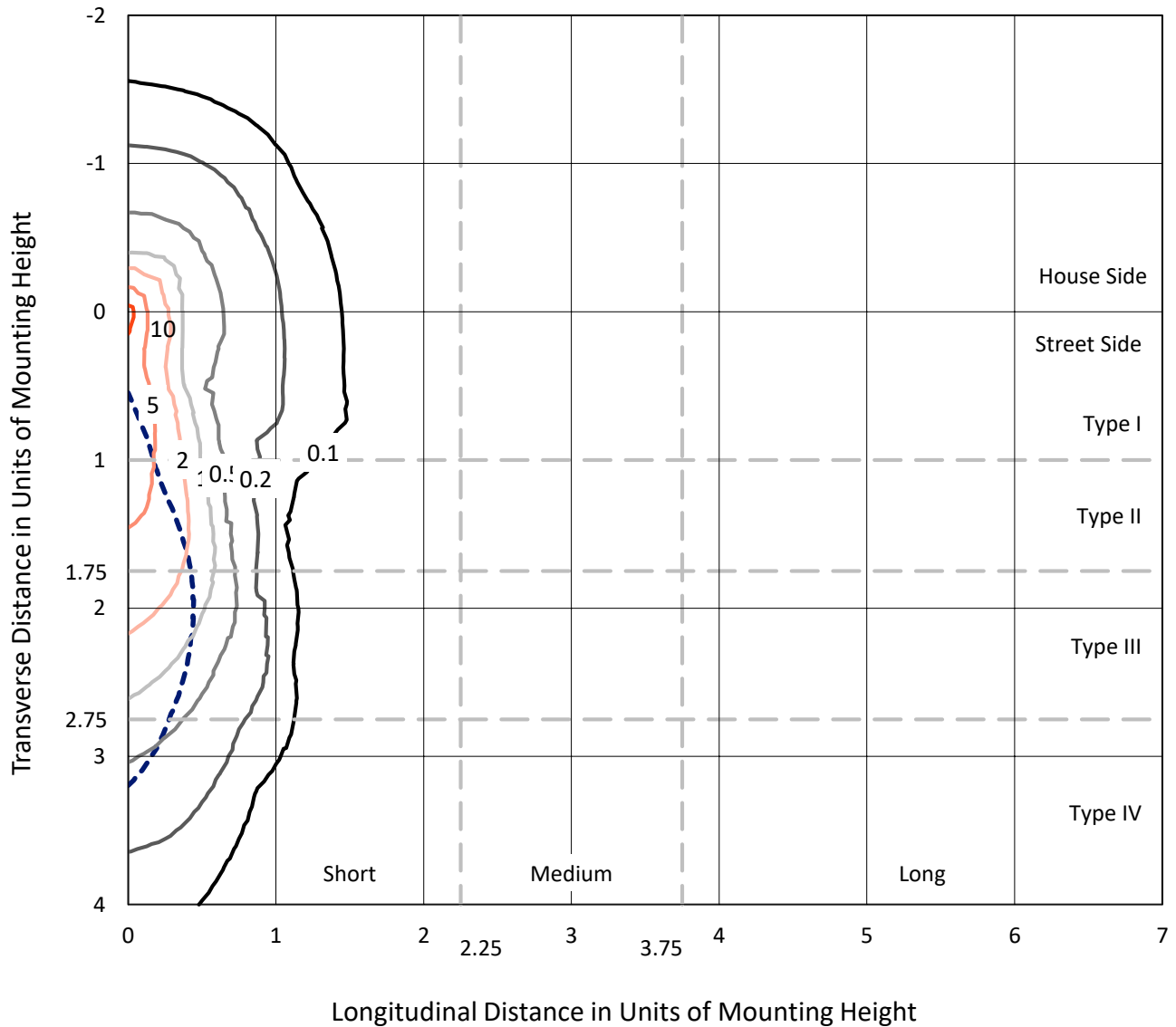


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

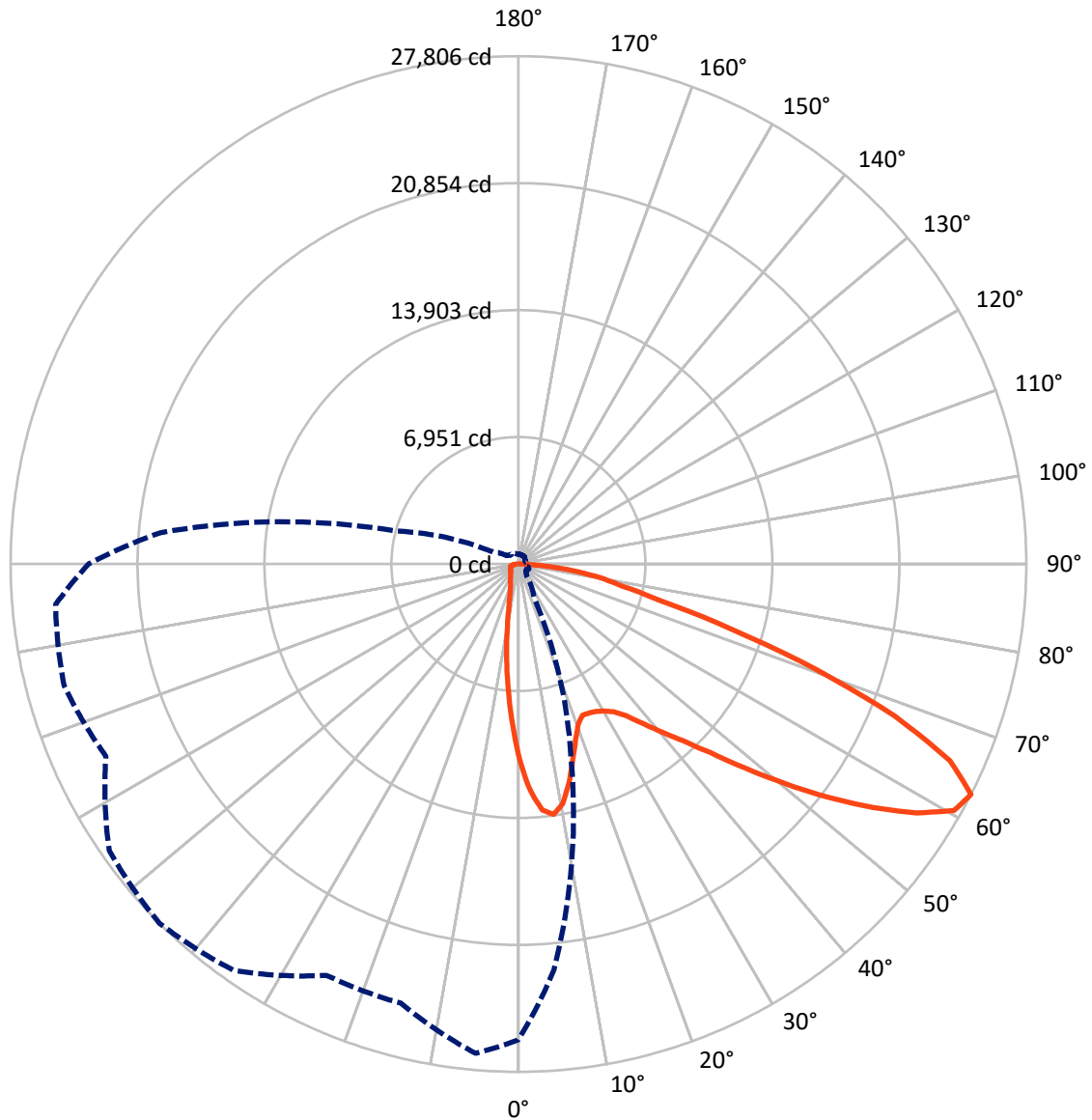


Based on 30 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - Non-Cutoff

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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	5296.2	0.0	5296.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	26707.8	0.0	26707.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	32004.1	0.0	32004.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	787.1	2.5
10°-20°	1443.4	4.5
20°-30°	2104.4	6.6
30°-40°	3241.1	10.1
40°-50°	4770.0	14.9
50°-60°	6996.6	21.9
60°-70°	7821.2	24.4
70°-80°	3829.2	12.0
80°-90°	1011.0	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°	32004.1	100.0
0°-180°	32004.1	100.0



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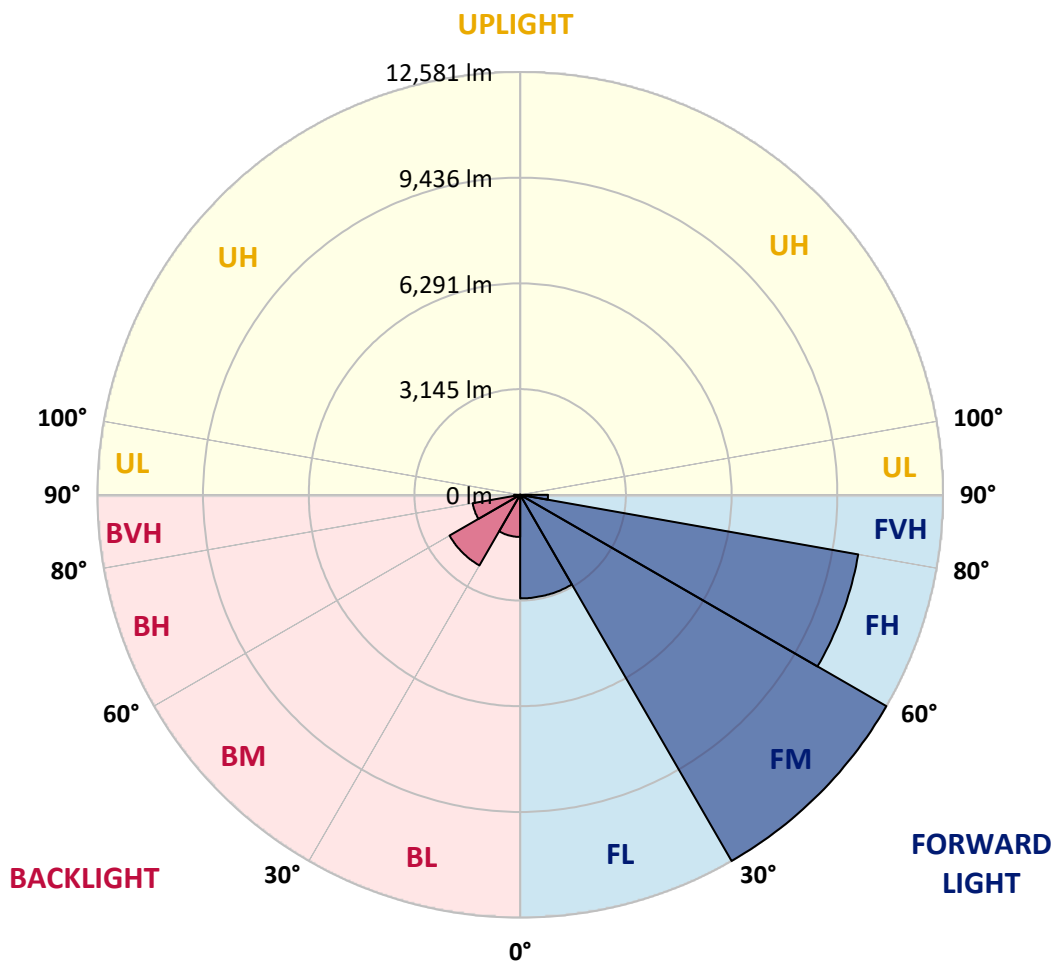
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3081.9	9.6			
FM (30°-60°)	12581.1	39.3			
FH (60°-80°)	10214.6	31.9			G4/12000
FVH (80°-90°)	830.3	2.6			G5
BL (0°-30°)	1253.0	3.9	B3/2500		
BM (30°-60°)	2426.7	7.6	B2/2500		
BH (60°-80°)	1435.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	180.7	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7
2.5°	11235.0	11006.2	10626.2	10230.3	9989.3	9707.8	9488.0	9294.4	8907.3	8831.7	8900.3
5°	10564.6	10105.4	9389.5	8668.1	8187.8	7672.3	7271.2	6949.2	6458.4	6372.2	6476.0
7.5°	9489.7	8940.8	7994.3	7074.2	6395.1	5751.1	5318.4	4973.6	4590.0	4424.7	4435.2
10°	8562.5	7943.2	6824.3	5823.2	5267.4	4832.8	4468.7	4115.0	3726.2	3471.1	3400.7
12.5°	8043.6	7331.0	6041.4	5147.7	4632.2	4174.9	3782.5	3404.3	2989.1	2728.7	2654.8
15°	7953.9	7179.7	5747.7	4715.0	4069.3	3490.4	3027.7	2605.6	2178.1	1966.9	1922.9
17.5°	8342.6	7450.7	5652.6	4329.6	3539.7	2825.5	2257.1	1785.7	1437.3	1331.8	1323.0
20°	9088.6	7971.4	5640.3	3967.2	3017.2	2179.8	1572.8	1229.8	1076.7	1046.8	1048.5
22.5°	10135.4	8779.0	5791.6	3694.6	2536.9	1625.6	1182.2	1029.2	969.3	941.2	941.2
25°	11490.0	9890.8	6140.0	3495.7	2120.0	1298.3	1043.3	951.8	895.5	876.2	879.6
27.5°	12802.4	10972.8	6544.6	3339.1	1847.2	1178.7	988.7	906.0	856.8	837.4	846.2
30°	13826.4	11933.3	6882.4	3126.2	1708.3	1145.3	1008.1	923.6	853.2	823.4	825.1
32.5°	14674.3	12774.3	7165.7	2973.2	1585.2	981.7	869.1	832.2	823.4	788.2	770.6
35°	15758.0	13690.9	7355.6	2976.8	1527.1	876.2	774.1	709.0	661.5	621.0	621.0
37.5°	17028.3	14743.0	7558.0	3017.2	1506.0	814.6	740.6	675.6	631.6	592.9	585.8
40°	18284.4	15773.9	7742.7	3056.0	1493.6	777.6	714.3	654.5	614.0	575.3	564.8
42.5°	19352.4	16621.9	7908.1	3075.3	1451.5	774.1	694.9	640.4	601.7	559.5	548.9
45°	20142.3	17332.7	8085.8	3105.2	1409.2	788.2	694.9	638.6	591.2	550.7	540.1
47.5°	20847.7	18166.6	8383.1	3105.2	1358.2	761.8	717.8	640.4	589.3	547.2	538.4
50°	21792.5	19310.1	8946.1	3033.0	1286.1	733.7	756.5	633.3	573.6	540.1	529.6
52.5°	23094.4	20775.6	9839.8	2908.1	1175.2	679.1	751.3	629.8	557.7	522.5	510.2
55°	24633.8	22344.9	10814.4	2762.1	1009.9	640.4	724.9	621.0	540.1	501.5	489.1
57.5°	25835.4	23425.2	11500.6	2536.9	865.6	619.3	642.1	612.2	519.0	478.5	468.0
60°	26313.9	23382.9	11688.8	2236.1	795.2	601.7	561.2	686.1	501.5	460.9	448.7
62.5°	26055.3	22302.7	11161.0	2024.9	779.4	578.8	526.0	635.2	487.3	448.7	431.1
65°	24860.8	20388.5	9762.4	1968.7	825.1	556.0	503.2	497.9	468.0	431.1	413.5
67.5°	22258.7	17528.0	7816.6	1974.0	883.2	533.1	480.3	455.6	441.6	411.6	395.9
70°	18129.7	13858.0	5826.8	1988.0	913.1	506.7	455.6	429.2	413.5	383.5	373.0
72.5°	13330.3	10680.7	4232.9	1896.6	918.4	476.8	422.3	399.4	383.5	351.9	343.1
75°	9120.2	8170.2	2936.3	1571.0	800.5	434.5	385.2	364.2	353.6	315.0	309.6
77.5°	6662.5	6132.9	1879.0	1166.4	617.6	381.8	339.5	323.7	316.7	274.5	267.4
80°	5346.6	4852.2	1175.2	798.7	452.1	320.2	285.0	276.2	269.1	227.0	221.7
82.5°	3708.6	3249.4	754.7	519.0	339.5	248.1	225.2	221.7	211.1	172.4	167.2
85°	1956.4	1764.6	478.5	353.6	246.3	170.6	156.6	156.6	151.3	114.4	110.8
87.5°	249.8	406.4	242.7	184.7	135.4	75.7	75.7	73.9	79.2	65.1	56.3
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°	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7
2.5°	8738.5	8823.0	8742.0	8747.3	8837.0	9104.4	9225.8	9326.0	9433.3	9503.7	9535.4
5°	6333.5	6530.5	6597.4	6738.2	6945.7	7287.0	7422.5	7521.0	7586.1	7624.9	7640.6
7.5°	4331.4	4451.1	4584.8	4811.7	5263.8	5464.4	5554.1	5531.3	5457.3	5430.9	5404.6
10°	3265.3	3217.8	3193.1	3318.0	3684.0	3886.3	3949.6	3888.0	3847.6	3856.4	3900.4
12.5°	2529.9	2447.2	2347.0	2332.8	2573.8	2755.1	2795.5	2799.1	2873.0	2938.0	3034.8
15°	1843.8	1835.0	1785.7	1755.8	1893.0	2040.8	2058.4	2090.1	2156.9	2204.5	2288.9
17.5°	1300.2	1347.6	1386.3	1405.6	1509.5	1615.0	1595.7	1579.8	1567.6	1567.6	1608.0
20°	1048.5	1080.2	1129.4	1185.8	1291.4	1365.2	1317.8	1254.3	1208.6	1194.6	1199.8
22.5°	944.8	969.3	997.5	1046.8	1141.8	1192.8	1141.8	1096.1	1050.3	1034.5	1029.2
25°	892.0	923.6	950.0	986.9	1057.3	1092.5	1043.3	1009.9	981.7	962.3	948.3
27.5°	862.0	890.2	897.2	914.8	974.7	1006.3	981.7	967.6	950.0	932.4	914.8
30°	830.4	825.1	812.8	814.6	862.0	893.8	892.0	895.5	893.8	888.4	885.0
32.5°	758.2	747.7	737.1	747.7	791.7	819.8	821.6	828.6	828.6	826.9	841.0
35°	631.6	650.9	663.3	694.9	747.7	772.3	761.8	744.2	712.5	693.2	691.4
37.5°	584.1	587.6	608.8	652.7	710.7	733.7	717.8	677.3	656.2	652.7	658.0
40°	561.2	564.8	577.0	617.6	675.6	698.5	684.4	654.5	635.2	633.3	642.1
42.5°	545.3	548.9	556.0	584.1	631.6	659.7	661.5	640.4	617.6	619.3	628.1
45°	536.5	538.4	536.5	550.7	594.6	628.1	642.1	628.1	608.8	612.2	622.8
47.5°	534.8	529.6	522.5	526.0	571.7	605.2	622.8	617.6	608.8	612.2	621.0
50°	527.8	515.5	506.7	504.9	550.7	585.8	601.7	601.7	605.2	612.2	621.0
52.5°	506.7	492.7	492.7	487.3	536.5	570.0	580.5	582.4	587.6	600.0	612.2
55°	480.3	475.1	480.3	471.5	526.0	557.7	562.9	566.5	570.0	580.5	598.1
57.5°	457.5	450.4	462.7	459.2	517.2	545.3	545.3	552.4	552.4	566.5	580.5
60°	445.1	431.1	436.3	439.9	504.9	534.8	531.3	538.4	541.9	554.1	564.8
62.5°	429.2	417.0	417.0	425.8	490.8	519.0	517.2	522.5	536.5	540.1	550.7
65°	409.9	404.7	399.4	409.9	476.8	501.5	503.2	510.2	522.5	526.0	534.8
67.5°	390.6	392.3	381.8	392.3	464.4	483.9	483.9	497.9	503.2	510.2	519.0
70°	369.5	371.2	362.4	374.7	455.6	464.4	462.7	482.0	485.6	490.8	499.6
72.5°	343.1	343.1	339.5	357.1	441.6	445.1	441.6	457.5	459.2	464.4	468.0
75°	315.0	315.0	311.4	336.0	432.8	424.0	413.5	425.8	429.2	432.8	432.8
77.5°	277.9	281.5	281.5	311.4	402.8	415.2	380.0	387.1	392.3	394.0	388.8
80°	232.2	241.0	244.6	283.3	337.8	383.5	339.5	344.8	346.6	346.6	339.5
82.5°	177.7	193.5	202.3	244.6	258.6	321.9	295.5	300.8	295.5	285.0	281.5
85°	123.2	144.2	154.8	186.5	195.3	248.1	246.3	246.3	235.8	221.7	219.9
87.5°	66.9	79.2	86.2	110.8	133.7	167.2	181.2	175.9	167.2	158.4	160.1
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°	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7
2.5°	9700.8	9940.1	10321.9	10613.9	10907.7	11191.0	11497.0	11731.0	11929.9	12007.3	12243.0
5°	7800.7	8099.8	8460.5	9111.4	9572.4	10080.8	10668.5	11446.0	11745.1	12158.6	12835.9
7.5°	5515.4	5786.3	6366.9	6892.9	7545.7	8265.2	9058.6	10131.8	10524.1	11187.4	12290.5
10°	4118.5	4433.5	4899.6	5343.0	5918.3	6653.7	7565.0	8764.8	9241.6	9961.2	11231.4
12.5°	3318.0	3689.3	4183.7	4600.6	5045.7	5564.6	6449.6	7765.5	8404.2	9034.0	10318.3
15°	2549.2	2938.0	3397.2	3926.8	4417.6	4977.1	5904.3	7343.4	8078.8	8735.0	9831.0
17.5°	1764.6	2097.0	2675.9	3228.3	3856.4	4572.4	5753.0	7433.1	8311.0	9067.4	9915.5
20°	1250.9	1440.8	1915.9	2556.3	3339.1	4238.2	5724.7	7904.5	9046.4	9910.1	10457.3
22.5°	1052.1	1122.5	1398.7	1986.3	2890.6	3988.4	5823.2	8566.1	10038.6	11141.7	11321.1
25°	958.8	1001.1	1145.3	1558.8	2491.2	3807.1	6155.8	9551.3	11266.6	12373.2	12341.5
27.5°	907.8	951.8	1046.8	1315.9	2190.3	3694.6	6488.3	10719.4	12670.5	13710.3	13316.2
30°	892.0	951.8	1052.1	1240.3	1975.7	3516.8	6761.0	11745.1	13750.7	14612.8	13759.5
32.5°	879.6	888.4	934.2	1069.7	1771.6	3309.2	6945.7	12665.3	14808.0	15471.3	14398.1
35°	710.7	754.7	828.6	958.8	1652.0	3184.3	6945.7	13458.7	15849.6	16338.7	15006.9
37.5°	684.4	723.1	788.2	899.0	1585.2	3122.8	6806.7	14224.0	16914.0	17322.1	15508.2
40°	670.3	701.9	763.5	853.2	1557.0	3052.4	6604.5	14899.6	17953.7	18307.3	15976.2
42.5°	659.7	687.9	745.9	825.1	1520.0	2974.9	6440.8	15441.4	18856.3	19148.3	16423.1
45°	654.5	684.4	747.7	839.2	1446.1	2873.0	6386.3	16027.3	19598.6	19850.3	16906.9
47.5°	654.5	689.7	756.5	869.1	1358.2	2767.4	6556.9	16799.6	20300.7	20423.7	17476.9
50°	649.2	687.9	781.1	839.2	1229.8	2633.7	6958.0	17772.5	21060.6	21074.7	18198.3
52.5°	638.6	684.4	841.0	821.6	1082.0	2457.7	7499.9	19021.6	22184.8	22269.3	19327.7
55°	626.4	679.1	825.1	781.1	960.6	2248.3	7943.2	20539.9	23764.7	23998.6	20988.5
57.5°	610.5	672.1	798.7	724.9	881.4	1979.2	8103.4	21651.8	24867.7	25455.4	22860.4
60°	596.4	666.8	721.3	691.4	832.2	1752.3	7793.8	21431.8	24792.1	26058.9	24519.4
62.5°	582.4	672.1	658.0	670.3	809.3	1606.2	6984.4	19670.8	23537.8	25436.1	25749.2
65°	566.5	624.5	621.0	652.7	804.0	1548.2	5789.9	17030.1	21113.4	23467.4	26039.5
67.5°	545.3	577.0	594.6	629.8	821.6	1497.2	4672.7	14048.1	17744.3	20517.0	24526.5
70°	522.5	548.9	568.2	601.7	811.0	1474.3	3886.3	11078.4	14079.7	16815.5	21540.9
72.5°	492.7	515.5	533.1	564.8	800.5	1462.0	3282.9	8921.5	10511.8	12491.0	17513.8
75°	457.5	478.5	490.8	522.5	767.0	1338.8	2580.9	7549.2	7865.9	8689.3	13949.6
77.5°	417.0	432.8	443.3	478.5	679.1	1113.7	1866.6	5823.2	6108.3	6308.8	10694.8
80°	369.5	385.2	390.6	424.0	562.9	870.8	1217.4	4301.5	4568.9	4614.6	6984.4
82.5°	315.0	330.7	330.7	362.4	460.9	626.4	798.7	2946.8	2999.6	3154.5	4936.7
85°	253.4	265.7	265.7	281.5	357.1	468.0	548.9	1479.6	1463.7	1671.3	4276.9
87.5°	181.2	190.0	198.8	202.3	255.1	309.6	330.7	450.4	297.4	341.3	2746.3
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-06-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7	10812.7
2.5°	12420.7	12521.0	12418.9	12345.1	12026.6	11764.4	11414.4	11235.0
5°	13351.3	13606.5	13520.2	13210.6	12545.6	11797.9	10948.1	10564.6
7.5°	13238.7	13831.6	13845.7	13267.0	12287.0	11185.7	10035.0	9489.7
10°	12362.7	13120.9	13337.3	12776.0	11736.3	10504.8	9185.4	8562.5
12.5°	11384.4	12126.9	12292.3	12098.7	11229.6	9992.9	8654.1	8043.6
15°	10584.0	10916.5	11113.5	11282.4	10795.1	9788.8	8624.1	7953.9
17.5°	10096.6	10059.7	10116.0	10409.9	10492.5	10022.8	9081.6	8342.6
20°	9920.7	9356.0	9341.9	9746.6	10350.0	10580.5	9975.3	9088.6
22.5°	10017.5	9102.6	8986.5	9466.8	10425.6	11384.4	11147.0	10135.4
25°	10351.8	9123.8	9030.5	9494.9	10700.1	12241.2	12411.9	11490.0
27.5°	10877.8	9257.5	9134.3	9611.0	11064.2	12960.8	13657.5	12802.4
30°	11377.5	9489.7	9336.7	9839.8	11396.8	13245.8	14421.0	13826.4
32.5°	11984.4	9924.3	9655.0	10260.3	11808.4	13699.7	15101.8	14674.3
35°	12579.0	10543.6	10209.3	10909.5	12267.6	14264.4	15879.5	15758.0
37.5°	13231.8	11352.8	11076.6	11748.6	12895.7	14797.5	16871.7	17028.3
40°	13928.4	12426.0	12098.7	12973.2	13870.4	15466.1	17908.0	18284.4
42.5°	14630.3	13617.0	13226.4	14113.1	14941.7	16125.8	18794.7	19352.4
45°	15434.4	14910.1	14725.4	15684.2	15970.9	16753.9	19449.2	20142.3
47.5°	16370.3	16377.3	16674.7	17058.2	17008.9	17464.6	20107.1	20847.7
50°	17462.9	18208.8	18865.1	19120.1	18078.6	18228.2	21020.2	21792.5
52.5°	18775.3	20399.2	21211.9	21044.8	19231.0	19160.6	22466.4	23094.4
55°	20416.8	22717.9	23525.4	23405.8	20555.7	20430.8	24267.9	24633.8
57.5°	22316.8	24964.5	25707.0	25168.6	22146.2	21824.1	25758.0	25835.4
60°	23986.4	26744.9	27395.9	26799.5	23750.7	23307.3	26688.7	26313.9
62.5°	24915.3	27348.4	27805.8	27163.6	24850.1	24887.2	26892.8	26055.3
65°	24500.1	25823.1	25970.9	25918.1	24567.0	25803.7	26159.1	24860.8
67.5°	22227.1	21966.6	22214.7	22557.8	22139.1	24596.9	24127.1	22258.7
70°	18222.8	16792.6	17286.9	17517.4	17707.4	21166.2	20941.0	18129.7
72.5°	13733.1	11764.4	12155.0	12107.5	12987.2	16977.3	16285.9	13330.3
75°	9730.7	7976.7	8026.0	8006.6	9062.2	13282.7	11792.6	9120.2
77.5°	6808.6	5779.4	5805.8	5914.8	6092.5	10017.5	8425.3	6662.5
80°	4681.5	4385.9	4532.0	4540.8	4222.3	6729.4	6224.5	5346.6
82.5°	3486.9	3048.9	3013.7	3064.7	3309.2	5452.1	4783.5	3708.6
85°	2855.4	1805.0	1451.5	1819.1	2932.8	5399.3	3177.3	1956.4
87.5°	1608.0	856.8	387.1	717.8	1169.9	3574.9	918.4	249.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)