

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: P269333

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269333
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 22715.4 lumens
Efficiency: N/A
Efficacy: 81.4 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

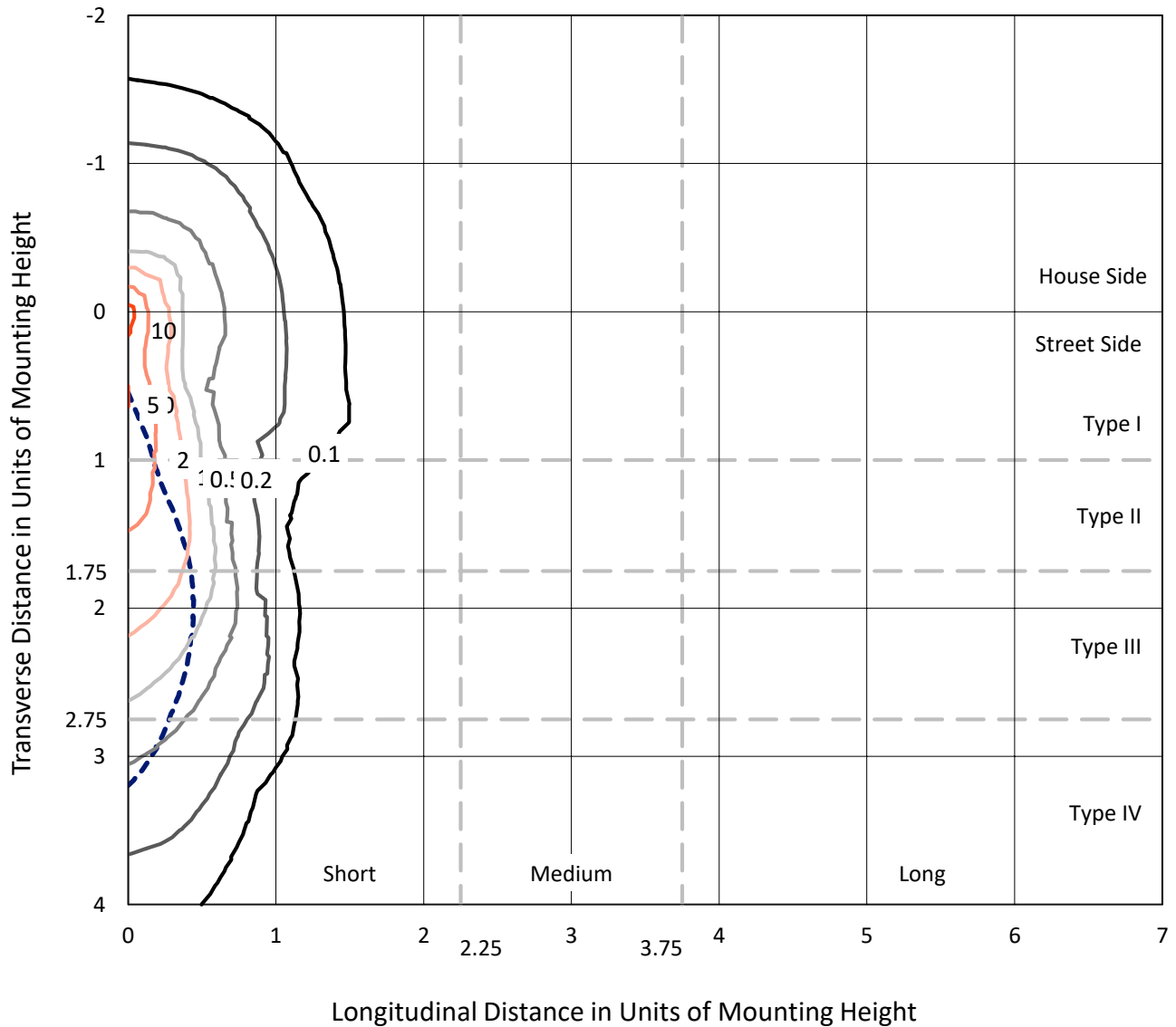
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

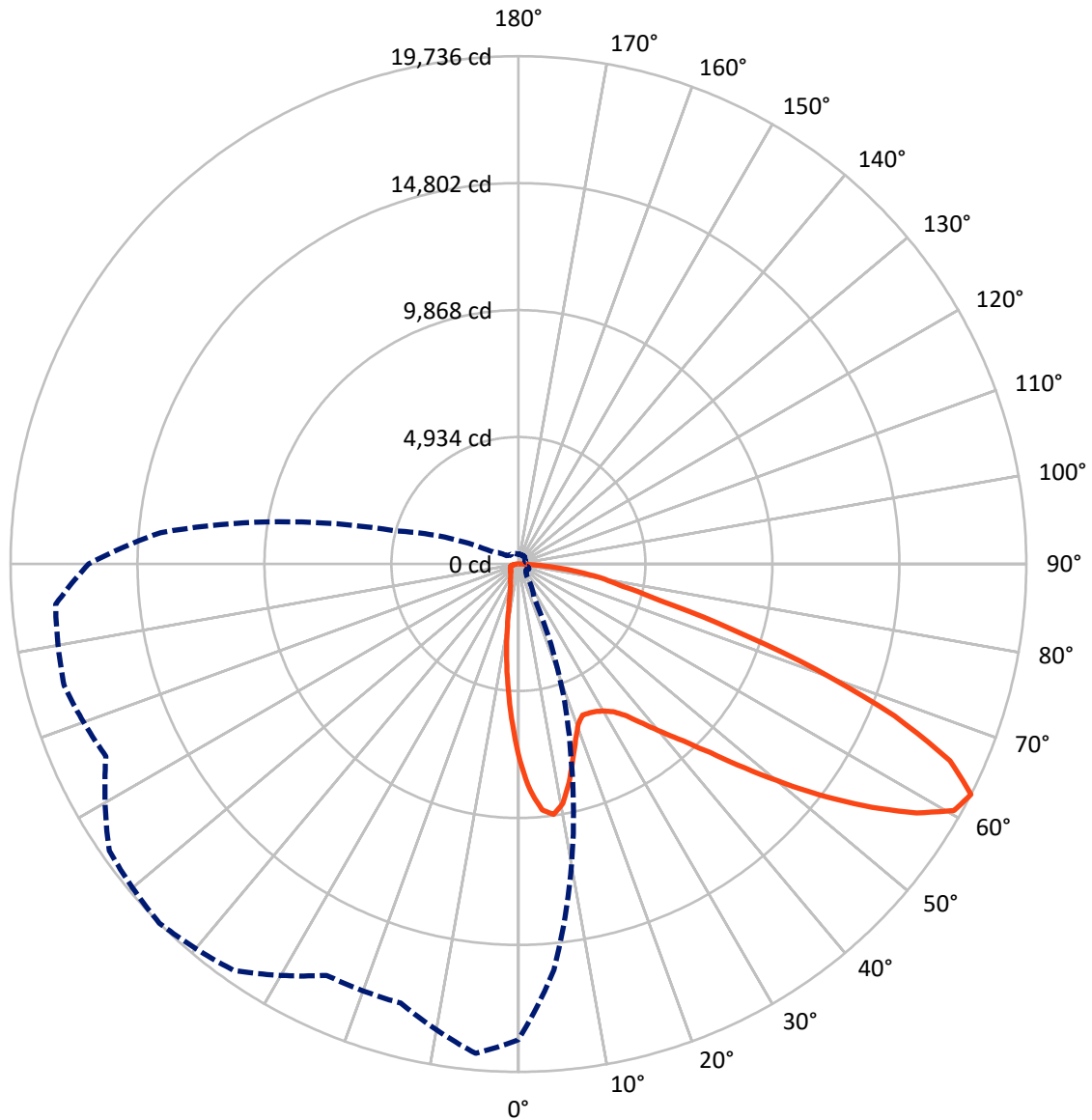
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	3759.1	0.0	3759.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18956.3	0.0	18956.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	22715.4	0.0	22715.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.7	2.5
10°-20°	1024.4	4.5
20°-30°	1493.6	6.6
30°-40°	2300.4	10.1
40°-50°	3385.6	14.9
50°-60°	4966.0	21.9
60°-70°	5551.2	24.4
70°-80°	2717.8	12.0
80°-90°	717.6	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°	22715.4	100.0
0°-180°	22715.4	100.0

Coefficient of Utilization



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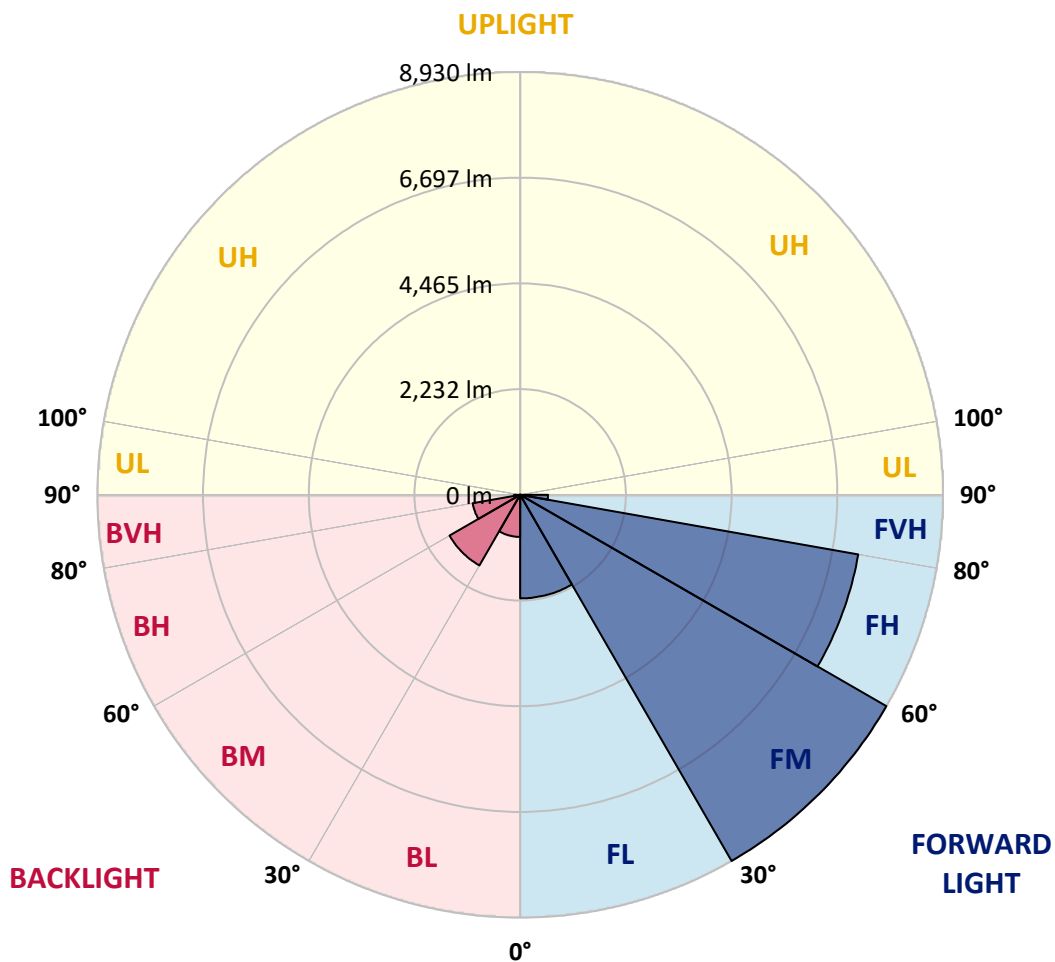
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2187.4	9.6			
FM	(30°-60°)	8929.6	39.3			
FH	(60°-80°)	7250.0	31.9			G3/7500
FVH	(80°-90°)	589.3	2.6			G4/750
BL	(0°-30°)	889.3	3.9	B2/1000		
BM	(30°-60°)	1722.4	7.6	B2/2500		
BH	(60°-80°)	1019.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	128.3	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°	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5
2.5°	7974.2	7811.8	7542.1	7261.2	7090.1	6890.3	6734.2	6596.9	6322.1	6268.5	6317.2
5°	7498.4	7172.4	6664.3	6152.3	5811.4	5445.5	5160.9	4932.4	4584.1	4522.7	4596.4
7.5°	6735.5	6345.8	5674.1	5020.9	4539.0	4082.0	3774.8	3530.1	3257.9	3140.5	3148.0
10°	6077.5	5637.9	4843.8	4133.2	3738.6	3430.2	3171.6	2920.7	2644.7	2463.7	2413.7
12.5°	5709.1	5203.3	4288.0	3653.6	3287.8	2963.1	2684.8	2416.3	2121.5	1936.7	1884.3
15°	5645.4	5095.9	4079.6	3346.5	2888.2	2477.4	2149.0	1849.3	1546.0	1396.1	1364.9
17.5°	5921.3	5288.2	4012.1	3073.0	2512.4	2005.3	1602.0	1267.4	1020.1	945.2	939.0
20°	6450.8	5657.9	4003.3	2815.7	2141.5	1547.2	1116.4	872.9	764.2	743.0	744.2
22.5°	7193.7	6231.1	4110.7	2622.2	1800.7	1153.9	839.1	730.5	688.0	668.1	668.1
25°	8155.3	7020.2	4357.9	2481.2	1504.8	921.5	740.5	675.5	635.6	621.8	624.3
27.5°	9086.7	7788.1	4645.1	2370.0	1311.2	836.6	701.8	643.0	608.2	594.4	600.6
30°	9813.5	8469.8	4885.0	2219.0	1212.5	812.8	715.5	655.6	605.5	584.3	585.6
32.5°	10415.4	9066.9	5085.9	2110.3	1125.0	696.7	616.9	590.6	584.3	559.5	546.9
35°	11184.5	9717.3	5220.8	2112.9	1083.8	621.8	549.5	503.2	469.5	440.8	440.8
37.5°	12086.2	10464.0	5364.4	2141.5	1069.0	578.1	525.7	479.4	448.3	420.9	415.8
40°	12977.8	11195.8	5495.6	2169.0	1060.1	551.9	507.0	464.6	435.8	408.3	400.9
42.5°	13735.7	11797.7	5612.9	2182.7	1030.1	549.5	493.2	454.5	427.1	397.1	389.5
45°	14296.3	12302.2	5739.0	2203.9	1000.3	559.5	493.2	453.3	419.6	390.9	383.3
47.5°	14797.1	12894.0	5950.1	2203.9	964.1	540.7	509.5	454.5	418.3	388.3	382.0
50°	15467.6	13705.7	6349.6	2152.8	912.8	520.7	536.9	449.5	407.1	383.3	375.9
52.5°	16391.6	14745.9	6984.0	2064.0	834.2	482.0	533.2	447.0	395.9	370.9	362.1
55°	17484.3	15859.7	7675.7	1960.5	716.8	454.5	514.5	440.8	383.3	355.9	347.1
57.5°	18337.1	16626.4	8162.7	1800.7	614.4	439.5	455.8	434.5	368.3	339.6	332.2
60°	18676.8	16596.5	8296.3	1587.0	564.5	427.1	398.3	487.1	355.9	327.2	318.4
62.5°	18493.1	15829.8	7921.8	1437.3	553.1	410.9	373.3	450.8	345.8	318.4	306.0
65°	17645.3	14471.2	6929.0	1397.4	585.6	394.5	357.2	353.4	332.2	306.0	293.4
67.5°	15798.5	12440.7	5547.9	1401.0	626.8	378.4	340.8	323.4	313.4	292.2	281.0
70°	12867.9	9836.0	4135.6	1411.1	648.0	359.6	323.4	304.6	293.4	272.2	264.7
72.5°	9461.4	7580.8	3004.3	1346.1	651.8	338.4	299.7	283.4	272.2	249.8	243.5
75°	6473.2	5799.0	2084.1	1115.1	568.2	308.4	273.4	258.5	250.9	223.5	219.7
77.5°	4728.8	4352.9	1333.7	827.9	438.4	271.0	240.9	229.7	224.8	194.8	189.8
80°	3794.8	3443.9	834.2	566.9	321.0	227.4	202.3	196.0	191.1	161.1	157.4
82.5°	2632.3	2306.4	535.7	368.3	240.9	176.1	159.8	157.4	149.8	122.3	118.7
85°	1388.5	1252.4	339.6	250.9	174.8	121.1	111.1	111.1	107.3	81.1	78.7
87.5°	177.3	288.4	172.4	131.2	96.2	53.7	53.7	52.5	56.2	46.3	40.0
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°	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5
2.5°	6202.3	6262.3	6204.8	6208.5	6272.1	6462.0	6548.1	6619.3	6695.4	6745.5	6767.9
5°	4495.3	4635.2	4682.7	4782.4	4929.9	5172.1	5268.3	5338.2	5384.4	5411.8	5423.1
7.5°	3074.3	3159.2	3254.1	3415.1	3736.1	3878.4	3942.1	3926.0	3873.4	3854.7	3836.0
10°	2317.5	2283.9	2266.3	2355.0	2614.7	2758.3	2803.3	2759.7	2730.8	2737.1	2768.3
12.5°	1795.6	1737.0	1665.7	1655.8	1826.9	1955.5	1984.1	1986.7	2039.2	2085.3	2154.0
15°	1308.7	1302.5	1267.4	1246.2	1343.5	1448.4	1461.0	1483.5	1530.9	1564.6	1624.6
17.5°	922.7	956.4	984.0	997.7	1071.4	1146.2	1132.6	1121.4	1112.6	1112.6	1141.2
20°	744.2	766.8	801.6	841.6	916.5	969.0	935.2	890.3	857.8	847.9	851.7
22.5°	670.6	688.0	708.0	743.0	810.5	846.7	810.5	777.9	745.5	734.3	730.5
25°	633.0	655.6	674.3	700.5	750.4	775.4	740.5	716.8	696.7	683.0	673.0
27.5°	611.8	631.9	636.9	649.4	691.8	714.2	696.7	686.8	674.3	661.8	649.4
30°	589.4	585.6	576.9	578.1	611.8	634.4	633.0	635.6	634.4	630.6	628.0
32.5°	538.2	530.7	523.3	530.7	561.9	581.9	583.1	588.1	588.1	587.0	596.8
35°	448.3	462.0	470.7	493.2	530.7	548.1	540.7	528.3	505.7	492.0	490.7
37.5°	414.6	417.1	432.1	463.3	504.5	520.7	509.5	480.8	465.9	463.3	466.9
40°	398.3	400.9	409.5	438.4	479.4	495.8	485.8	464.6	450.8	449.5	455.8
42.5°	387.1	389.5	394.5	414.6	448.3	468.2	469.5	454.5	438.4	439.5	445.7
45°	380.8	382.0	380.8	390.9	422.1	445.7	455.8	445.7	432.1	434.5	442.1
47.5°	379.7	375.9	370.9	373.3	405.9	429.6	442.1	438.4	432.1	434.5	440.8
50°	374.7	365.9	359.6	358.3	390.9	415.8	427.1	427.1	429.6	434.5	440.8
52.5°	359.6	349.6	349.6	345.8	380.8	404.5	412.1	413.3	417.1	425.7	434.5
55°	340.8	337.1	340.8	334.7	373.3	395.9	399.6	402.1	404.5	412.1	424.5
57.5°	324.6	319.6	328.4	325.9	367.0	387.1	387.1	392.1	392.1	402.1	412.1
60°	315.9	306.0	309.6	312.3	358.3	379.7	377.1	382.0	384.7	393.4	400.9
62.5°	304.6	295.9	295.9	302.2	348.5	368.3	367.0	370.9	380.8	383.3	390.9
65°	291.0	287.2	283.4	291.0	338.4	355.9	357.2	362.1	370.9	373.3	379.7
67.5°	277.1	278.5	271.0	278.5	329.7	343.4	343.4	353.4	357.2	362.1	368.3
70°	262.2	263.5	257.3	266.0	323.4	329.7	328.4	342.2	344.6	348.5	354.7
72.5°	243.5	243.5	240.9	253.5	313.4	315.9	313.4	324.6	325.9	329.7	332.2
75°	223.5	223.5	221.1	238.5	307.2	300.9	293.4	302.2	304.6	307.2	307.2
77.5°	197.3	199.9	199.9	221.1	285.9	294.7	269.8	274.7	278.5	279.7	276.0
80°	164.7	171.0	173.6	201.0	239.8	272.2	240.9	244.8	246.0	246.0	240.9
82.5°	126.1	137.4	143.5	173.6	183.6	228.4	209.8	213.5	209.8	202.3	199.9
85°	87.5	102.3	110.0	132.4	138.6	176.1	174.8	174.8	167.4	157.4	156.0
87.5°	47.4	56.2	61.2	78.7	95.0	118.7	128.5	124.9	118.7	112.4	113.6
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°	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5
2.5°	6885.2	7055.2	7326.0	7533.4	7742.0	7943.0	8160.3	8326.3	8467.5	8522.4	8689.7
5°	5536.8	5749.1	6005.0	6467.0	6794.2	7155.0	7572.2	8124.0	8336.4	8629.7	9110.5
7.5°	3914.6	4107.1	4519.1	4892.3	5355.6	5866.4	6429.4	7191.2	7469.6	7940.5	8723.4
10°	2923.3	3146.8	3477.6	3792.3	4200.7	4722.6	5369.3	6221.0	6559.5	7070.1	7971.6
12.5°	2355.0	2618.5	2969.3	3265.3	3581.3	3949.6	4577.8	5511.7	5965.0	6412.0	7323.6
15°	1809.4	2085.3	2411.2	2787.1	3135.4	3532.6	4190.7	5212.1	5734.1	6199.8	6977.8
17.5°	1252.4	1488.4	1899.2	2291.3	2737.1	3245.3	4083.2	5275.7	5898.8	6435.7	7037.6
20°	887.9	1022.7	1359.9	1814.3	2370.0	3008.2	4063.3	5610.4	6420.7	7033.9	7422.2
22.5°	746.8	796.6	992.6	1409.8	2051.5	2830.7	4133.2	6079.9	7125.0	7908.0	8035.3
25°	680.6	710.5	812.8	1106.4	1768.1	2702.2	4369.1	6779.1	7996.6	8782.1	8759.6
27.5°	644.4	675.5	743.0	934.0	1554.6	2622.2	4605.3	7608.4	8993.1	9731.1	9451.3
30°	633.0	675.5	746.8	880.2	1402.3	2496.1	4798.7	8336.4	9759.8	10371.7	9766.1
32.5°	624.3	630.6	663.0	759.2	1257.4	2348.8	4929.9	8989.3	10510.3	10981.1	10219.3
35°	504.5	535.7	588.1	680.6	1172.5	2260.1	4929.9	9552.5	11249.6	11596.6	10651.4
37.5°	485.8	513.2	559.5	638.1	1125.0	2216.5	4831.3	10095.7	12004.9	12294.7	11007.2
40°	475.7	498.2	541.9	605.5	1105.0	2166.5	4687.6	10575.1	12742.9	12994.0	11339.5
42.5°	468.2	488.3	529.5	585.6	1078.9	2111.6	4571.5	10959.9	13383.5	13590.7	11656.5
45°	464.6	485.8	530.7	595.7	1026.5	2039.2	4532.8	11375.6	13910.4	14089.0	12000.0
47.5°	464.6	489.4	536.9	616.9	964.1	1964.2	4653.8	11923.8	14408.8	14496.0	12404.5
50°	460.8	488.3	554.4	595.7	872.9	1869.4	4938.6	12614.3	14948.2	14958.1	12916.5
52.5°	453.3	485.8	596.8	583.1	768.0	1744.4	5323.1	13500.8	15746.1	15805.9	13718.1
55°	444.5	482.0	585.6	554.4	681.9	1595.7	5637.9	14578.6	16867.4	17033.5	14897.0
57.5°	433.3	477.0	566.9	514.5	625.6	1404.8	5751.5	15367.8	17650.3	18067.4	16225.5
60°	423.3	473.2	511.9	490.7	590.6	1243.8	5531.8	15211.5	17596.5	18495.7	17403.0
62.5°	413.3	477.0	466.9	475.7	574.3	1140.0	4957.3	13961.6	16706.3	18053.6	18275.8
65°	402.1	443.4	440.8	463.3	570.7	1098.8	4109.4	12087.4	14985.6	16656.4	18482.0
67.5°	387.1	409.5	422.1	447.0	583.1	1062.7	3316.5	9970.8	12594.3	14562.3	17408.1
70°	370.9	389.5	403.2	427.1	575.6	1046.4	2758.3	7863.0	9993.4	11935.1	15289.1
72.5°	349.6	365.9	378.4	400.9	568.2	1037.6	2330.1	6332.2	7461.0	8865.7	12430.7
75°	324.6	339.6	348.5	370.9	544.5	950.2	1831.9	5358.2	5583.0	6167.4	9900.8
77.5°	295.9	307.2	314.6	339.6	482.0	790.4	1324.9	4133.2	4335.5	4477.8	7590.8
80°	262.2	273.4	277.1	300.9	399.6	618.2	864.1	3053.1	3242.9	3275.3	4957.3
82.5°	223.5	234.7	234.7	257.3	327.2	444.5	566.9	2091.6	2129.1	2238.9	3503.8
85°	179.8	188.6	188.6	199.9	253.5	332.2	389.5	1050.2	1038.9	1186.2	3035.6
87.5°	128.5	134.8	141.2	143.5	181.1	219.7	234.7	319.6	211.0	242.3	1949.2
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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5	7674.5
2.5°	8815.7	8887.0	8814.6	8762.1	8536.1	8350.0	8101.5	7974.2
5°	9476.4	9657.4	9596.2	9376.5	8904.4	8373.8	7770.7	7498.4
7.5°	9396.5	9817.2	9827.3	9416.5	8720.8	7939.2	7122.7	6735.5
10°	8774.6	9312.8	9466.3	9068.0	8330.1	7455.9	6519.4	6077.5
12.5°	8080.3	8607.3	8724.7	8587.3	7970.4	7092.6	6142.3	5709.1
15°	7512.2	7748.2	7887.9	8007.9	7662.1	6947.8	6121.1	5645.4
17.5°	7166.3	7140.1	7180.1	7388.5	7447.2	7113.8	6445.8	5921.3
20°	7041.5	6640.6	6630.6	6917.8	7346.1	7509.7	7080.1	6450.8
22.5°	7110.1	6460.8	6378.3	6719.2	7399.8	8080.3	7911.7	7193.7
25°	7347.3	6475.7	6409.5	6739.3	7594.6	8688.4	8809.6	8155.3
27.5°	7720.8	6570.7	6483.2	6821.5	7853.1	9199.2	9693.6	9086.7
30°	8075.4	6735.5	6626.8	6984.0	8089.1	9401.4	10235.6	9813.5
32.5°	8506.1	7043.9	6852.8	7282.4	8381.2	9723.7	10718.8	10415.4
35°	8928.2	7483.4	7246.2	7743.2	8707.1	10124.4	11270.8	11184.5
37.5°	9391.4	8057.8	7861.7	8338.7	9152.9	10502.9	11974.9	12086.2
40°	9885.9	8819.5	8587.3	9207.8	9844.7	10977.3	12710.5	12977.8
42.5°	10384.1	9665.0	9387.6	10017.0	10605.2	11445.6	13339.8	13735.7
45°	10954.8	10582.8	10451.6	11132.2	11335.6	11891.4	13804.3	14296.3
47.5°	11619.0	11624.1	11835.1	12107.4	12072.4	12395.8	14271.4	14797.1
50°	12394.5	12924.0	13389.7	13570.9	12831.6	12937.7	14919.4	15467.6
52.5°	13326.0	14478.6	15055.6	14936.8	13649.4	13599.5	15945.9	16391.6
55°	14491.1	16124.4	16697.5	16612.6	14589.7	14501.1	17224.6	17484.3
57.5°	15839.8	17719.0	18246.0	17863.9	15718.6	15490.1	18282.1	18337.1
60°	17024.7	18982.7	19444.7	19021.4	16857.5	16542.7	18942.6	18676.8
62.5°	17684.0	19410.9	19735.7	19279.9	17637.9	17664.0	19087.5	18493.1
65°	17389.3	18328.4	18433.3	18395.9	17436.8	18314.6	18566.9	17645.3
67.5°	15776.0	15591.3	15767.3	16010.9	15713.6	17458.0	17124.6	15798.5
70°	12933.9	11918.8	12269.7	12433.4	12568.1	15023.1	14863.3	12867.9
72.5°	9747.2	8350.0	8627.2	8593.5	9217.9	12050.0	11559.2	9461.4
75°	6906.6	5661.6	5696.5	5682.8	6432.0	9427.6	8370.0	6473.2
77.5°	4832.4	4102.0	4120.6	4198.0	4324.3	7110.1	5979.9	4728.8
80°	3322.8	3112.9	3216.7	3222.8	2996.8	4776.3	4417.9	3794.8
82.5°	2474.9	2163.9	2139.0	2175.2	2348.8	3869.7	3395.2	2632.3
85°	2026.7	1281.2	1030.1	1291.1	2081.6	3832.3	2255.1	1388.5
87.5°	1141.2	608.2	274.7	509.5	830.5	2537.4	651.8	177.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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