

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: P193864

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193864
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 20627 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 249
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

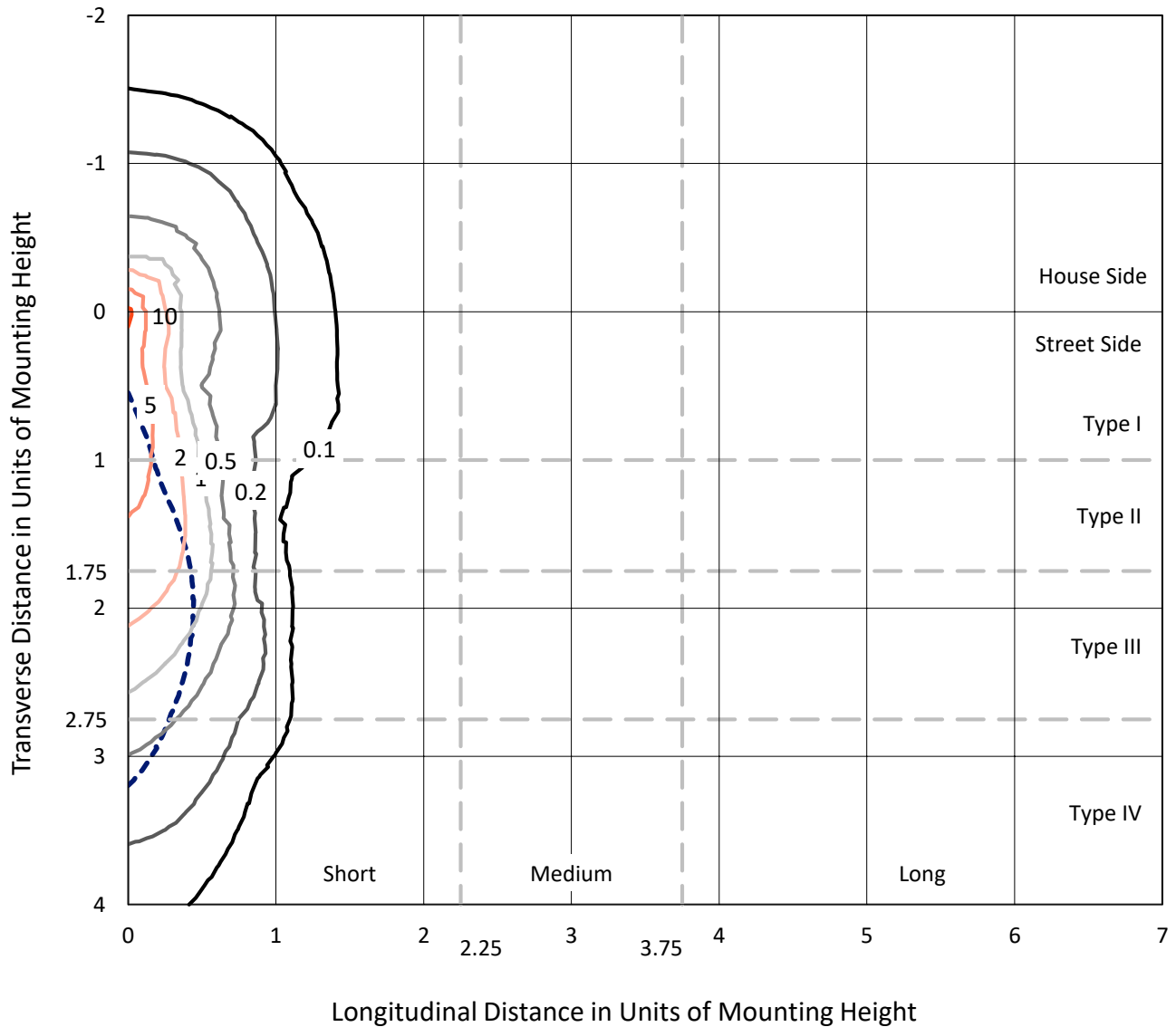


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

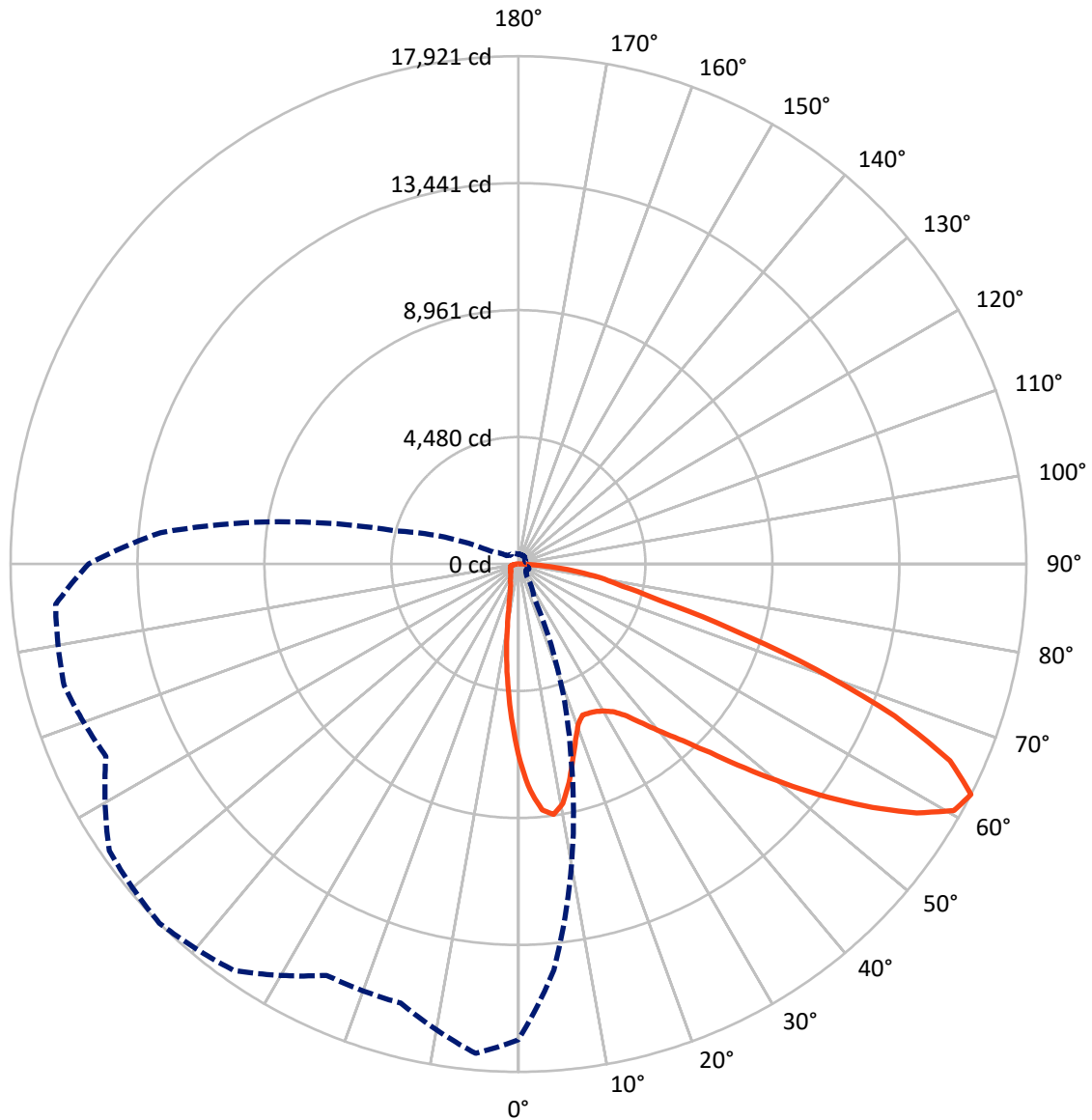


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Short - Non-Cutoff

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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	3413.5	0.0	3413.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17213.5	0.0	17213.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	20627.0	0.0	20627.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.3	2.5
10°-20°	930.3	4.5
20°-30°	1356.3	6.6
30°-40°	2088.9	10.1
40°-50°	3074.4	14.9
50°-60°	4509.4	21.9
60°-70°	5040.9	24.4
70°-80°	2467.9	12.0
80°-90°	651.6	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°	20627.0	100.0
0°-180°	20627.0	100.0



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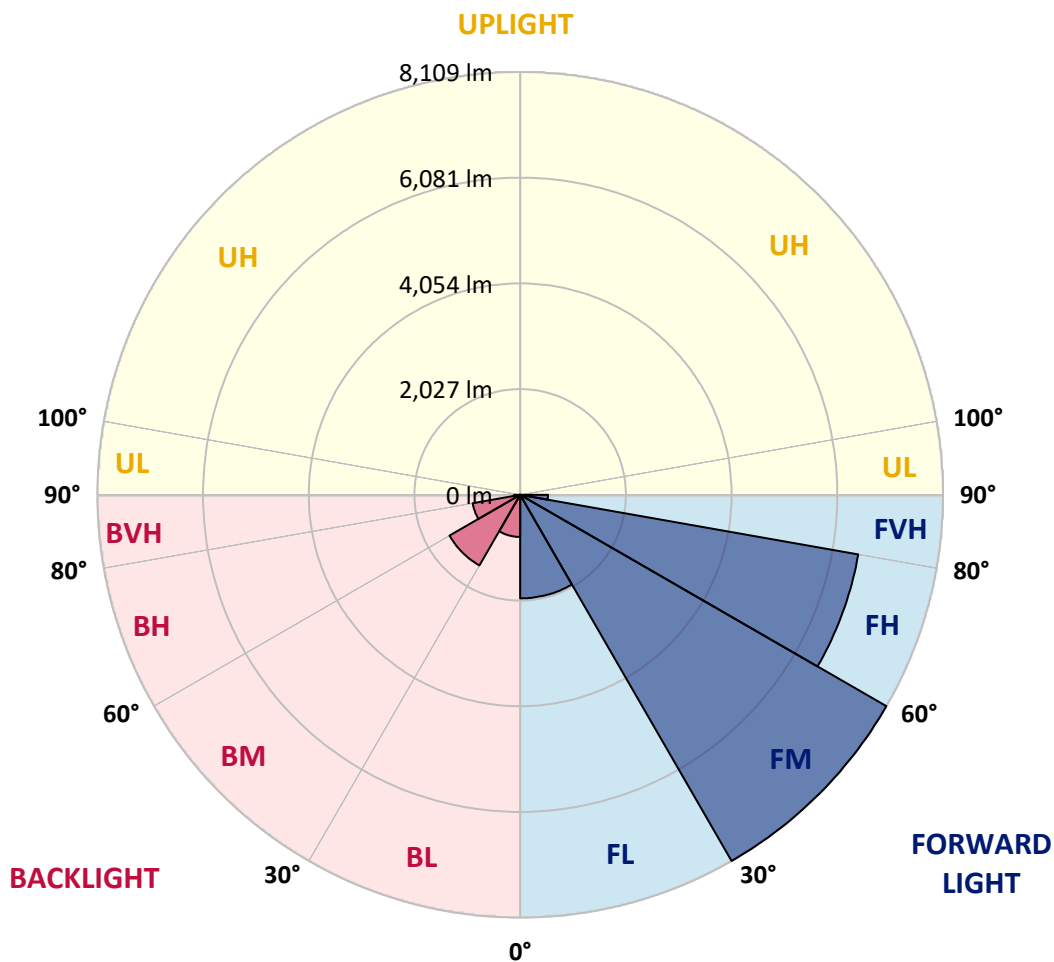
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1986.3	9.6			
FM	(30°-60°)	8108.7	39.3			
FH	(60°-80°)	6583.4	31.9			G3/7500
FVH	(80°-90°)	535.1	2.6			G4/750
BL	(0°-30°)	807.6	3.9	B2/1000		
BM	(30°-60°)	1564.0	7.6	B2/2500		
BH	(60°-80°)	925.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	116.5	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9
2.5°	7241.0	7093.6	6848.7	6593.6	6438.2	6256.8	6115.1	5990.4	5740.9	5692.1	5736.4
5°	6809.0	6513.1	6051.6	5586.7	5277.1	4944.9	4686.4	4478.9	4162.5	4107.0	4173.9
7.5°	6116.2	5762.4	5152.4	4559.4	4121.7	3706.7	3427.8	3205.5	2958.3	2851.7	2858.5
10°	5518.7	5119.5	4398.4	3753.2	3394.9	3114.8	2880.1	2652.2	2401.6	2237.2	2191.8
12.5°	5184.2	4724.9	3893.8	3317.8	2985.5	2690.7	2437.9	2194.1	1926.5	1758.7	1711.0
15°	5126.3	4627.4	3704.4	3038.8	2622.7	2249.6	1951.4	1679.3	1403.8	1267.7	1239.3
17.5°	5376.9	4802.0	3643.2	2790.5	2281.4	1821.0	1454.8	1150.9	926.4	858.4	852.7
20°	5857.7	5137.7	3635.3	2556.9	1944.6	1404.9	1013.7	792.6	693.9	674.7	675.8
22.5°	6532.4	5658.1	3732.8	2381.2	1635.1	1047.7	762.0	663.3	624.8	606.6	606.6
25°	7405.5	6374.8	3957.3	2253.0	1366.3	836.8	672.4	613.4	577.2	564.7	566.9
27.5°	8251.3	7072.1	4218.1	2152.1	1190.6	759.7	637.2	584.0	552.2	539.7	545.4
30°	8911.3	7691.2	4435.8	2014.9	1101.0	738.2	649.7	595.3	549.9	530.7	531.8
32.5°	9457.8	8233.2	4618.3	1916.3	1021.6	632.7	560.1	536.3	530.7	508.0	496.6
35°	10156.3	8824.0	4740.8	1918.5	984.2	564.7	498.9	457.0	426.3	400.3	400.3
37.5°	10975.0	9502.0	4871.2	1944.6	970.6	525.0	477.4	435.4	407.1	382.1	377.6
40°	11784.6	10166.5	4990.3	1969.6	962.7	501.2	460.4	421.8	395.7	370.8	364.0
42.5°	12472.8	10713.0	5096.9	1982.0	935.5	498.9	447.9	412.7	387.8	360.6	353.8
45°	12982.0	11171.1	5211.4	2001.3	908.2	508.0	447.9	411.6	381.0	354.9	348.1
47.5°	13436.6	11708.6	5403.0	2001.3	875.4	491.0	462.6	412.7	379.9	352.6	347.0
50°	14045.5	12445.6	5765.9	1954.8	828.9	472.8	487.6	408.2	369.6	348.1	341.3
52.5°	14884.6	13390.2	6341.9	1874.3	757.4	437.7	484.2	405.9	359.4	336.8	328.8
55°	15876.8	14401.6	6970.0	1780.2	650.9	412.7	467.2	400.3	348.1	323.2	315.2
57.5°	16651.2	15097.8	7412.3	1635.1	557.9	399.1	413.9	394.6	334.5	308.4	301.6
60°	16959.7	15070.6	7533.6	1441.2	512.5	387.8	361.7	442.2	323.2	297.1	289.1
62.5°	16793.0	14374.4	7193.4	1305.1	502.3	373.1	339.0	409.3	314.1	289.1	277.8
65°	16023.1	13140.7	6292.0	1268.8	531.8	358.3	324.3	320.9	301.6	277.8	266.5
67.5°	14346.0	11297.0	5037.9	1272.2	569.2	343.6	309.6	293.7	284.6	265.3	255.1
70°	11684.8	8931.7	3755.5	1281.3	588.5	326.6	293.7	276.7	266.5	247.2	240.4
72.5°	8591.5	6883.9	2728.1	1222.3	591.9	307.3	272.1	257.4	247.2	226.8	221.1
75°	5878.1	5265.8	1892.5	1012.6	515.9	280.1	248.3	234.7	227.9	203.0	199.6
77.5°	4294.1	3952.8	1211.0	751.8	398.0	246.1	218.8	208.6	204.1	176.9	172.4
80°	3445.9	3127.3	757.4	514.8	291.4	206.4	183.7	178.0	173.5	146.3	142.9
82.5°	2390.2	2094.3	486.4	334.5	218.8	159.9	145.1	142.9	136.1	111.1	107.7
85°	1260.9	1137.3	308.4	227.9	158.7	110.0	100.9	100.9	97.5	73.7	71.4
87.5°	161.0	261.9	156.5	119.1	87.3	48.8	48.8	47.6	51.0	42.0	36.3
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°	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9
2.5°	5632.1	5686.5	5634.3	5637.7	5695.5	5867.9	5946.1	6010.8	6079.9	6125.3	6145.7
5°	4082.0	4209.0	4252.1	4342.8	4476.6	4696.6	4783.9	4847.4	4889.4	4914.3	4924.5
7.5°	2791.6	2868.8	2954.9	3101.2	3392.6	3521.9	3579.7	3565.0	3517.3	3500.3	3483.3
10°	2104.5	2073.9	2058.0	2138.5	2374.4	2504.8	2545.6	2505.9	2479.8	2485.5	2513.8
12.5°	1630.5	1577.2	1512.6	1503.5	1658.9	1775.7	1801.8	1804.0	1851.6	1893.6	1956.0
15°	1188.3	1182.7	1150.9	1131.6	1220.1	1315.3	1326.7	1347.1	1390.2	1420.8	1475.2
17.5°	837.9	868.6	893.5	906.0	972.9	1040.9	1028.4	1018.2	1010.3	1010.3	1036.4
20°	675.8	696.2	728.0	764.2	832.3	879.9	849.3	808.5	779.0	769.9	773.3
22.5°	608.9	624.8	642.9	674.7	735.9	768.8	735.9	706.4	676.9	666.7	663.3
25°	574.9	595.3	612.3	636.1	681.5	704.1	672.4	650.9	632.7	620.2	611.2
27.5°	555.6	573.8	578.3	589.6	628.2	648.6	632.7	623.6	612.3	601.0	589.6
30°	535.2	531.8	523.9	525.0	555.6	576.0	574.9	577.2	576.0	572.6	570.3
32.5°	488.7	481.9	475.1	481.9	510.3	528.4	529.5	534.1	534.1	532.9	542.0
35°	407.1	419.5	427.5	447.9	481.9	497.8	491.0	479.6	459.2	446.8	445.6
37.5°	376.5	378.7	392.3	420.7	458.1	472.8	462.6	436.5	422.9	420.7	424.1
40°	361.7	364.0	371.9	398.0	435.4	450.2	441.1	421.8	409.3	408.2	413.9
42.5°	351.5	353.8	358.3	376.5	407.1	425.2	426.3	412.7	398.0	399.1	404.8
45°	345.8	347.0	345.8	354.9	383.3	404.8	413.9	404.8	392.3	394.6	401.4
47.5°	344.7	341.3	336.8	339.0	368.5	390.1	401.4	398.0	392.3	394.6	400.3
50°	340.2	332.2	326.6	325.4	354.9	377.6	387.8	387.8	390.1	394.6	400.3
52.5°	326.6	317.5	317.5	314.1	345.8	367.4	374.2	375.3	378.7	386.7	394.6
55°	309.6	306.2	309.6	303.9	339.0	359.4	362.8	365.1	367.4	374.2	385.5
57.5°	294.8	290.3	298.2	295.9	333.4	351.5	351.5	356.0	356.0	365.1	374.2
60°	286.9	277.8	281.2	283.5	325.4	344.7	342.4	347.0	349.2	357.2	364.0
62.5°	276.7	268.7	268.7	274.4	316.4	334.5	333.4	336.8	345.8	348.1	354.9
65°	264.2	260.8	257.4	264.2	307.3	323.2	324.3	328.8	336.8	339.0	344.7
67.5°	251.7	252.9	246.1	252.9	299.3	311.8	311.8	320.9	324.3	328.8	334.5
70°	238.1	239.3	233.6	241.5	293.7	299.3	298.2	310.7	313.0	316.4	322.0
72.5°	221.1	221.1	218.8	230.2	284.6	286.9	284.6	294.8	295.9	299.3	301.6
75°	203.0	203.0	200.7	216.6	278.9	273.3	266.5	274.4	276.7	278.9	278.9
77.5°	179.2	181.4	181.4	200.7	259.7	267.6	244.9	249.5	252.9	254.0	250.6
80°	149.7	155.3	157.6	182.6	217.7	247.2	218.8	222.2	223.4	223.4	218.8
82.5°	114.5	124.7	130.4	157.6	166.7	207.5	190.5	193.9	190.5	183.7	181.4
85°	79.4	93.0	99.8	120.2	125.9	159.9	158.7	158.7	151.9	142.9	141.7
87.5°	43.1	51.0	55.6	71.4	86.2	107.7	116.8	113.4	107.7	102.1	103.2
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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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9
2.5°	6252.3	6406.5	6652.6	6840.8	7030.1	7212.7	7410.0	7560.8	7688.9	7738.8	7890.8
5°	5027.7	5220.4	5452.9	5872.4	6169.5	6497.2	6875.9	7377.1	7569.9	7836.3	8272.9
7.5°	3554.8	3729.4	4103.6	4442.6	4863.3	5327.0	5838.4	6530.1	6783.0	7210.4	7921.4
10°	2654.4	2857.4	3157.9	3443.6	3814.4	4288.4	4875.7	5649.1	5956.3	6420.1	7238.8
12.5°	2138.5	2377.8	2696.4	2965.1	3252.0	3586.5	4156.9	5005.0	5416.6	5822.5	6650.3
15°	1643.0	1893.6	2189.5	2530.9	2847.2	3207.8	3805.3	4732.9	5206.8	5629.8	6336.2
17.5°	1137.3	1351.6	1724.7	2080.7	2485.5	2947.0	3707.8	4790.7	5356.5	5844.1	6390.6
20°	806.2	928.7	1234.8	1647.5	2152.1	2731.6	3689.7	5094.6	5830.5	6387.2	6739.9
22.5°	678.1	723.4	901.4	1280.2	1863.0	2570.5	3753.2	5520.9	6470.0	7180.9	7296.6
25°	618.0	645.2	738.2	1004.6	1605.6	2453.7	3967.5	6155.9	7261.5	7974.7	7954.3
27.5°	585.1	613.4	674.7	848.2	1411.7	2381.2	4181.8	6908.8	8166.3	8836.4	8582.4
30°	574.9	613.4	678.1	799.4	1273.4	2266.7	4357.6	7569.9	8862.5	9418.1	8868.2
32.5°	566.9	572.6	602.1	689.4	1141.8	2132.9	4476.6	8162.9	9544.0	9971.5	9279.8
35°	458.1	486.4	534.1	618.0	1064.7	2052.3	4476.6	8674.3	10215.2	10530.5	9672.1
37.5°	441.1	466.0	508.0	579.4	1021.6	2012.7	4387.0	9167.5	10901.3	11164.3	9995.3
40°	432.0	452.4	492.1	549.9	1003.5	1967.3	4256.6	9602.9	11571.4	11799.3	10296.9
42.5°	425.2	443.4	480.8	531.8	979.7	1917.4	4151.2	9952.2	12153.1	12341.3	10584.9
45°	421.8	441.1	481.9	540.9	932.1	1851.6	4116.0	10329.8	12631.6	12793.7	10896.7
47.5°	421.8	444.5	487.6	560.1	875.4	1783.6	4226.0	10827.6	13084.0	13163.4	11264.1
50°	418.4	443.4	503.4	540.9	792.6	1697.4	4484.6	11454.6	13573.8	13582.9	11729.0
52.5°	411.6	441.1	542.0	529.5	697.3	1584.0	4833.8	12259.7	14298.4	14352.8	12457.0
55°	403.7	437.7	531.8	503.4	619.1	1449.1	5119.5	13238.2	15316.6	15467.4	13527.4
57.5°	393.5	433.1	514.8	467.2	568.1	1275.6	5222.7	13954.8	16027.6	16406.3	14733.8
60°	384.4	429.7	464.9	445.6	536.3	1129.4	5023.1	13813.1	15978.8	16795.2	15803.1
62.5°	375.3	433.1	424.1	432.0	521.6	1035.2	4501.6	12678.1	15170.4	16393.8	16595.7
65°	365.1	402.5	400.3	420.7	518.2	997.8	3731.6	10976.1	13607.9	15125.0	16782.8
67.5°	351.5	371.9	383.3	405.9	529.5	964.9	3011.6	9054.1	11436.5	13223.5	15807.6
70°	336.8	353.8	366.2	387.8	522.7	950.2	2504.8	7140.1	9074.6	10837.8	13883.4
72.5°	317.5	332.2	343.6	364.0	515.9	942.3	2115.8	5750.0	6775.0	8050.6	11287.9
75°	294.8	308.4	316.4	336.8	494.4	862.9	1663.4	4865.5	5069.6	5600.3	8990.6
77.5°	268.7	278.9	285.7	308.4	437.7	717.8	1203.1	3753.2	3936.9	4066.1	6892.9
80°	238.1	248.3	251.7	273.3	362.8	561.3	784.7	2772.4	2944.7	2974.2	4501.6
82.5°	203.0	213.2	213.2	233.6	297.1	403.7	514.8	1899.3	1933.3	2033.1	3181.7
85°	163.3	171.2	171.2	181.4	230.2	301.6	353.8	953.6	943.4	1077.2	2756.5
87.5°	116.8	122.5	128.1	130.4	164.4	199.6	213.2	290.3	191.6	220.0	1770.0
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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CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9
2.5°	8005.3	8069.9	8004.2	7956.5	7751.3	7582.3	7356.7	7241.0
5°	8605.1	8769.5	8714.0	8514.4	8085.8	7603.9	7056.2	6809.0
7.5°	8532.6	8914.7	8923.7	8550.7	7919.1	7209.3	6467.7	6116.2
10°	7967.9	8456.6	8596.0	8234.3	7564.2	6770.5	5920.1	5518.7
12.5°	7337.4	7815.9	7922.5	7797.8	7237.6	6440.5	5577.6	5184.2
15°	6821.5	7035.8	7162.8	7271.7	6957.6	6309.0	5558.3	5126.3
17.5°	6507.4	6483.6	6519.9	6709.3	6762.5	6459.8	5853.2	5376.9
20°	6394.0	6030.0	6021.0	6281.8	6670.7	6819.2	6429.2	5857.7
22.5°	6456.4	5866.8	5791.9	6101.5	6719.5	7337.4	7184.4	6532.4
25°	6671.8	5880.4	5820.3	6119.6	6896.3	7889.6	7999.6	7405.5
27.5°	7010.9	5966.5	5887.2	6194.5	7131.1	8353.4	8802.4	8251.3
30°	7332.9	6116.2	6017.6	6341.9	7345.4	8537.1	9294.5	8911.3
32.5°	7724.1	6396.3	6222.8	6612.9	7610.7	8829.6	9733.3	9457.8
35°	8107.3	6795.4	6580.0	7031.3	7906.6	9193.6	10234.5	10156.3
37.5°	8528.0	7317.0	7139.0	7572.1	8311.4	9537.2	10874.0	10975.0
40°	8977.0	8008.7	7797.8	8361.3	8939.6	9968.1	11541.9	11784.6
42.5°	9429.5	8776.3	8524.6	9096.1	9630.2	10393.3	12113.4	12472.8
45°	9947.7	9609.8	9490.7	10108.7	10293.5	10798.1	12535.2	12982.0
47.5°	10550.9	10555.4	10747.0	10994.2	10962.5	11256.2	12959.3	13436.6
50°	11255.0	11735.8	12158.7	12323.2	11651.9	11748.3	13547.8	14045.5
52.5°	12100.9	13147.5	13671.4	13563.6	12394.6	12349.2	14479.8	14884.6
55°	13158.8	14642.0	15162.4	15085.3	13248.4	13167.9	15640.9	15876.8
57.5°	14383.4	16090.0	16568.5	16221.5	14273.5	14066.0	16601.3	16651.2
60°	15459.5	17237.5	17657.0	17272.6	15307.6	15021.8	17201.2	16959.7
62.5°	16058.2	17626.4	17921.2	17507.3	16016.3	16040.1	17332.7	16793.0
65°	15790.6	16643.3	16738.5	16704.5	15833.7	16630.8	16859.9	16023.1
67.5°	14325.6	14157.8	14317.7	14538.8	14268.9	15853.0	15550.2	14346.0
70°	11744.9	10823.0	11141.6	11290.2	11412.6	13641.9	13496.7	11684.8
72.5°	8851.2	7582.3	7834.1	7803.5	8370.4	10942.1	10496.5	8591.5
75°	6271.6	5141.1	5172.8	5160.4	5840.7	8560.9	7600.5	5878.1
77.5°	4388.2	3724.8	3741.8	3812.2	3926.7	6456.4	5430.2	4294.1
80°	3017.3	2826.8	2920.9	2926.6	2721.3	4337.1	4011.7	3445.9
82.5°	2247.4	1965.0	1942.4	1975.2	2132.9	3513.9	3083.1	2390.2
85°	1840.3	1163.4	935.5	1172.4	1890.2	3479.9	2047.8	1260.9
87.5°	1036.4	552.2	249.5	462.6	754.0	2304.1	591.9	161.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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