

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: P193883

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193883
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 23404 lumens
Efficiency: N/A
Efficacy: 73.1 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 - 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

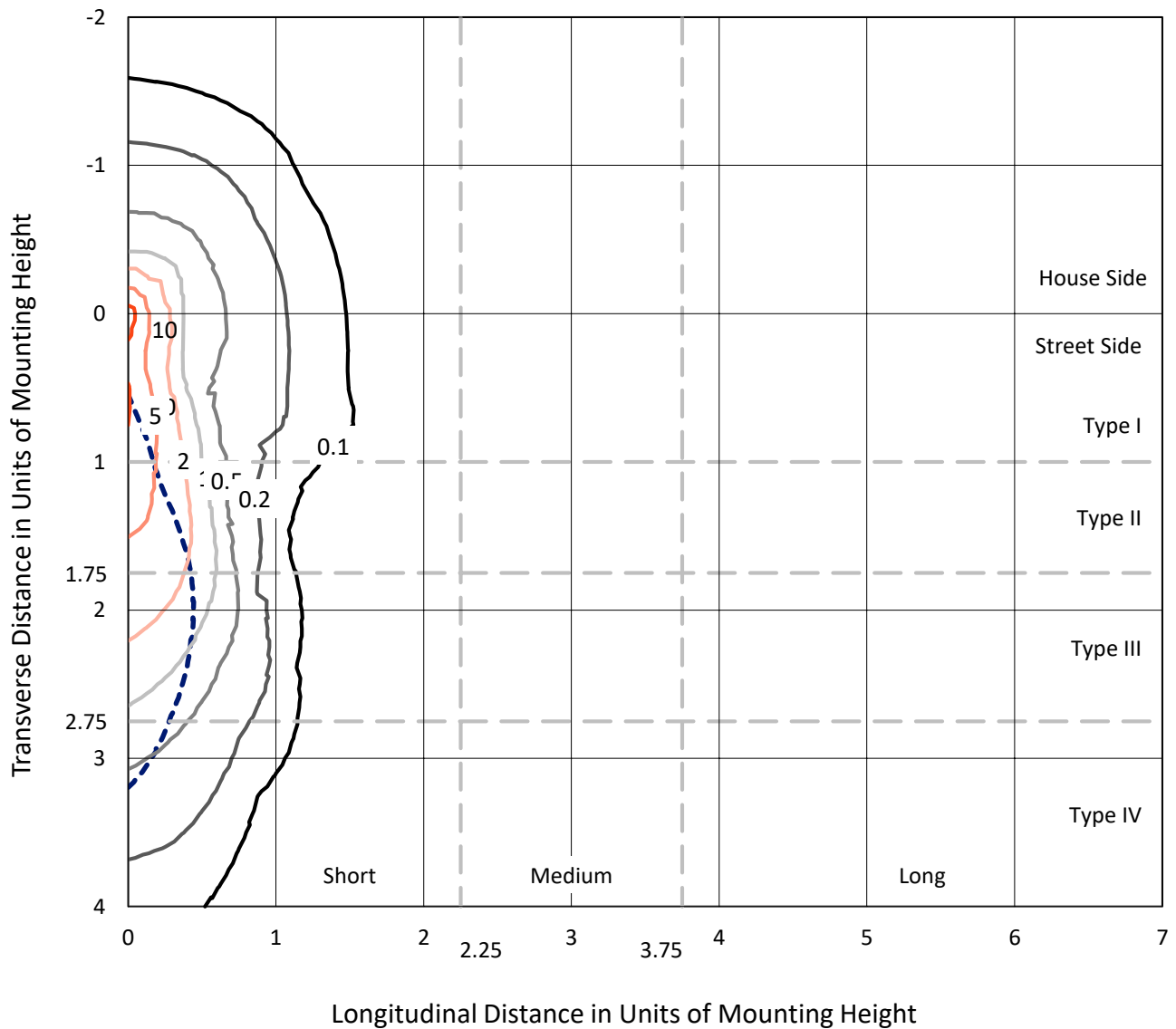


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

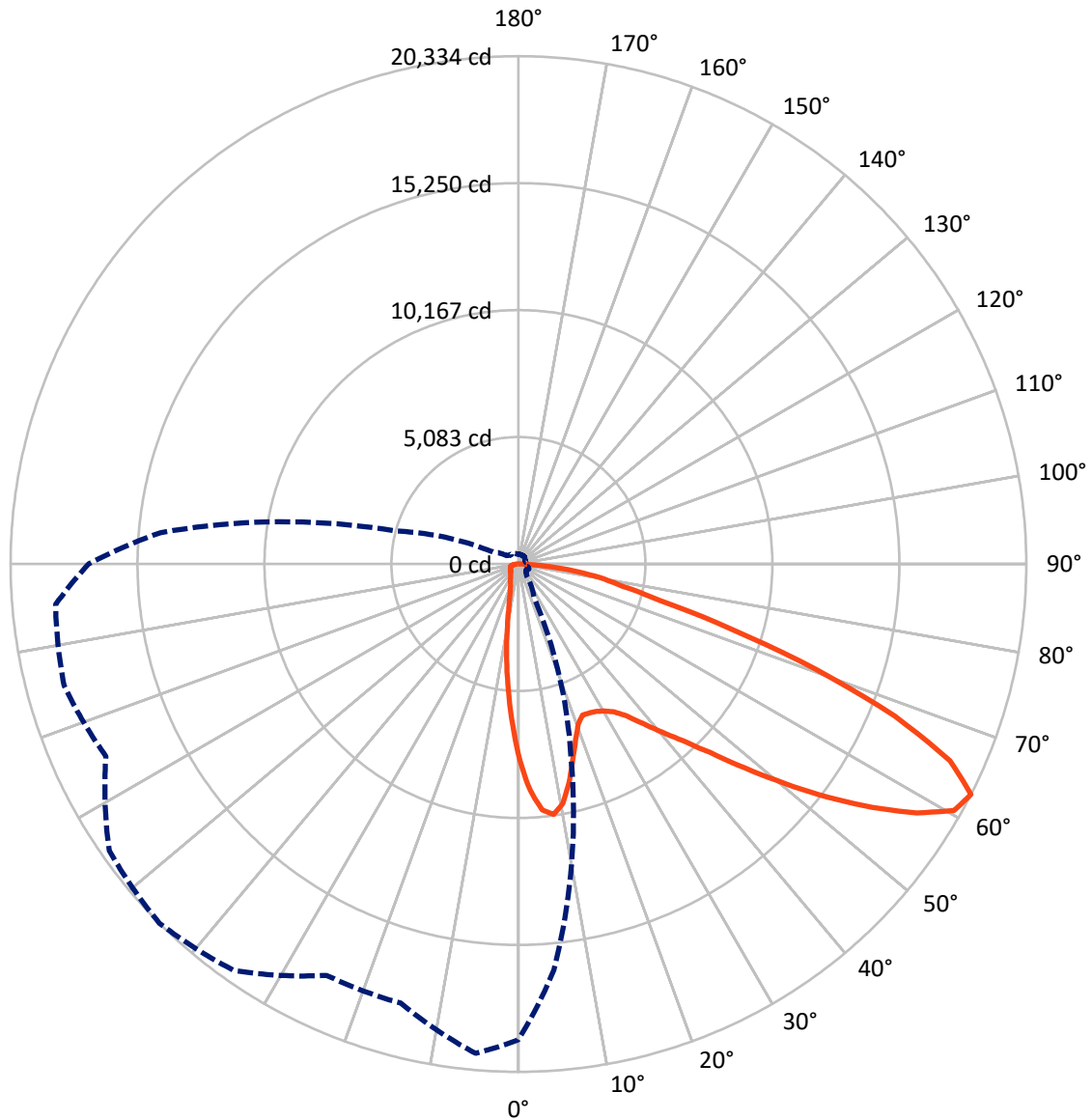


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - Non-Cutoff

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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	3873.0	0.0	3873.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	19531.0	0.0	19531.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	23404.0	0.0	23404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.6	2.5
10°-20°	1055.5	4.5
20°-30°	1538.9	6.6
30°-40°	2370.2	10.1
40°-50°	3488.3	14.9
50°-60°	5116.5	21.9
60°-70°	5719.5	24.4
70°-80°	2800.2	12.0
80°-90°	739.3	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°	23404.0	100.0
0°-180°	23404.0	100.0

Coefficient of Utilization



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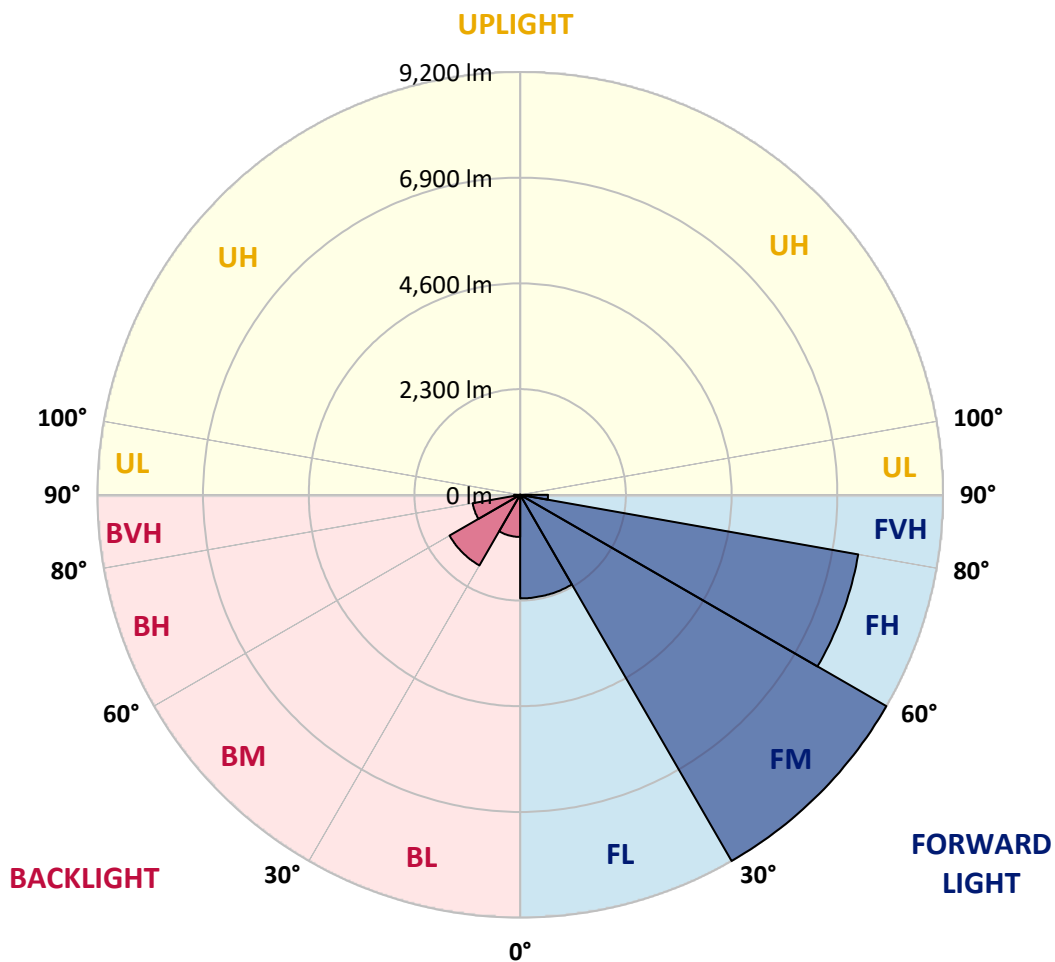
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2253.7	9.6			
FM (30°-60°)	9200.3	39.3			
FH (60°-80°)	7469.7	31.9			G3/7500
FVH (80°-90°)	607.2	2.6			G4/750
BL (0°-30°)	916.3	3.9	B2/1000		
BM (30°-60°)	1774.6	7.6	B2/2500		
BH (60°-80°)	1050.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	132.2	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°	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1
2.5°	8215.9	8048.7	7770.8	7481.3	7305.0	7099.2	6938.4	6796.8	6513.8	6458.5	6508.7
5°	7725.7	7389.9	6866.3	6338.8	5987.6	5610.6	5317.3	5081.9	4722.9	4659.9	4735.8
7.5°	6939.6	6538.2	5846.1	5173.2	4676.6	4205.7	3889.2	3637.1	3356.6	3235.7	3243.4
10°	6261.6	5808.8	4990.5	4258.5	3851.9	3534.2	3267.8	3009.2	2724.9	2538.4	2486.9
12.5°	5882.1	5361.1	4418.0	3764.4	3387.5	3053.0	2766.1	2489.5	2185.8	1995.4	1941.4
15°	5816.5	5250.4	4203.2	3448.0	2975.8	2552.5	2214.2	1905.4	1592.7	1438.4	1406.2
17.5°	6100.8	5448.5	4133.7	3166.2	2588.5	2066.2	1650.6	1305.8	1051.1	973.9	967.5
20°	6646.3	5829.4	4124.7	2901.2	2206.4	1594.0	1150.2	899.3	787.4	765.5	766.8
22.5°	7411.8	6419.9	4235.3	2701.8	1855.2	1188.8	864.6	752.6	708.9	688.3	688.3
25°	8402.5	7233.0	4490.1	2556.4	1550.3	949.5	762.9	696.0	654.9	640.7	643.3
27.5°	9362.2	8024.2	4786.0	2441.9	1350.9	862.0	723.0	662.6	626.5	612.4	618.8
30°	10111.0	8726.7	5033.0	2286.2	1249.2	837.5	737.2	675.4	624.0	602.1	603.4
32.5°	10731.1	9341.6	5240.1	2174.3	1159.2	717.9	635.6	608.5	602.1	576.4	563.5
35°	11523.6	10011.9	5379.1	2176.8	1116.7	640.7	566.1	518.5	483.7	454.2	454.2
37.5°	12452.5	10781.3	5527.0	2206.4	1101.3	595.7	541.6	494.0	461.9	433.6	428.4
40°	13371.1	11535.2	5662.1	2234.7	1092.3	568.7	522.3	478.6	449.0	420.7	413.0
42.5°	14152.0	12155.3	5783.0	2248.9	1061.4	566.1	508.2	468.3	440.0	409.1	401.4
45°	14729.7	12675.1	5913.0	2270.8	1030.5	576.4	508.2	467.0	432.3	402.7	395.0
47.5°	15245.6	13284.9	6130.4	2270.8	993.2	557.1	524.9	468.3	431.0	400.1	393.7
50°	15936.5	14121.2	6542.1	2218.0	940.5	536.5	553.2	463.2	419.4	395.0	387.3
52.5°	16888.5	15192.9	7195.7	2126.7	859.4	496.6	549.4	460.6	407.8	382.1	373.1
55°	18014.3	16340.5	7908.4	2019.9	738.5	468.3	530.1	454.2	395.0	366.7	357.7
57.5°	18893.0	17130.4	8410.2	1855.2	633.0	452.9	469.6	447.7	379.5	349.9	342.2
60°	19242.9	17099.5	8547.8	1635.2	581.5	440.0	410.4	501.8	366.7	337.1	328.1
62.5°	19053.8	16309.6	8161.9	1480.8	569.9	423.3	384.7	464.4	356.4	328.1	315.2
65°	18180.2	14909.8	7139.1	1439.6	603.4	406.5	368.0	364.1	342.2	315.2	302.3
67.5°	16277.4	12817.9	5716.1	1443.5	645.8	389.8	351.2	333.2	322.9	301.1	289.5
70°	13257.9	10134.1	4261.1	1453.8	667.7	370.5	333.2	313.9	302.3	280.5	272.7
72.5°	9748.2	7810.6	3095.4	1386.9	671.6	348.7	308.8	292.0	280.5	257.3	250.9
75°	6669.5	5974.7	2147.3	1148.9	585.4	317.8	281.8	266.3	258.6	230.3	226.4
77.5°	4872.2	4484.9	1374.0	853.0	451.6	279.2	248.3	236.7	231.6	200.7	195.6
80°	3909.8	3548.3	859.4	584.1	330.6	234.2	208.4	202.0	196.8	166.0	162.1
82.5°	2712.0	2376.3	551.9	379.5	248.3	181.4	164.7	162.1	154.4	126.1	122.2
85°	1430.6	1290.4	349.9	258.6	180.1	124.8	114.5	114.5	110.6	83.6	81.1
87.5°	182.7	297.2	177.5	135.1	99.1	55.3	55.3	54.0	57.9	47.6	41.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1
2.5°	6390.3	6452.0	6392.9	6396.7	6462.3	6657.9	6746.7	6820.0	6898.5	6949.9	6973.1
5°	4631.6	4775.7	4824.6	4927.5	5079.3	5328.9	5428.0	5500.0	5547.6	5575.9	5587.5
7.5°	3167.5	3255.0	3352.7	3518.7	3849.4	3996.0	4061.6	4044.9	3990.9	3971.6	3952.3
10°	2387.8	2353.1	2335.1	2426.4	2694.0	2842.0	2888.3	2843.3	2813.7	2820.1	2852.3
12.5°	1850.1	1789.6	1716.3	1706.0	1882.2	2014.7	2044.3	2046.9	2100.9	2148.5	2219.3
15°	1348.3	1341.9	1305.8	1284.0	1384.3	1492.4	1505.3	1528.4	1577.3	1612.0	1673.8
17.5°	950.8	985.5	1013.8	1028.0	1103.9	1181.1	1166.9	1155.3	1146.3	1146.3	1175.9
20°	766.8	789.9	826.0	867.1	944.3	998.4	963.6	917.3	883.9	873.6	877.4
22.5°	690.9	708.9	729.5	765.5	835.0	872.3	835.0	801.5	768.1	756.5	752.6
25°	652.3	675.4	694.7	721.8	773.2	798.9	762.9	738.5	717.9	703.7	693.5
27.5°	630.4	651.0	656.1	669.0	712.7	735.9	717.9	707.6	694.7	681.9	669.0
30°	607.3	603.4	594.4	595.7	630.4	653.6	652.3	654.9	653.6	649.7	647.1
32.5°	554.5	546.8	539.1	546.8	578.9	599.5	600.8	606.0	606.0	604.7	615.0
35°	461.9	476.0	485.0	508.2	546.8	564.8	557.1	544.2	521.1	506.9	505.6
37.5°	427.1	429.7	445.1	477.3	519.8	536.5	524.9	495.3	479.9	477.3	481.2
40°	410.4	413.0	422.0	451.6	494.0	510.8	500.5	478.6	464.4	463.2	469.6
42.5°	398.8	401.4	406.5	427.1	461.9	482.5	483.7	468.3	451.6	452.9	459.3
45°	392.4	393.7	392.4	402.7	434.9	459.3	469.6	459.3	445.1	447.7	455.4
47.5°	391.1	387.3	382.1	384.7	418.1	442.6	455.4	451.6	445.1	447.7	454.2
50°	386.0	377.0	370.5	369.2	402.7	428.4	440.0	440.0	442.6	447.7	454.2
52.5°	370.5	360.2	360.2	356.4	392.4	416.8	424.6	425.8	429.7	438.7	447.7
55°	351.2	347.4	351.2	344.8	384.7	407.8	411.7	414.3	416.8	424.6	437.4
57.5°	334.5	329.4	338.4	335.8	378.2	398.8	398.8	404.0	404.0	414.3	424.6
60°	325.5	315.2	319.1	321.6	369.2	391.1	388.5	393.7	396.3	405.3	413.0
62.5°	313.9	304.9	304.9	311.3	358.9	379.5	378.2	382.1	392.4	395.0	402.7
65°	299.8	295.9	292.0	299.8	348.7	366.7	368.0	373.1	382.1	384.7	391.1
67.5°	285.6	286.9	279.2	286.9	339.6	353.8	353.8	364.1	368.0	373.1	379.5
70°	270.2	271.5	265.0	274.0	333.2	339.6	338.4	352.5	355.1	358.9	365.4
72.5°	250.9	250.9	248.3	261.2	322.9	325.5	322.9	334.5	335.8	339.6	342.2
75°	230.3	230.3	227.7	245.7	316.5	310.1	302.3	311.3	313.9	316.5	316.5
77.5°	203.3	205.8	205.8	227.7	294.6	303.6	277.9	283.0	286.9	288.2	284.3
80°	169.8	176.3	178.8	207.1	247.0	280.5	248.3	252.2	253.5	253.5	248.3
82.5°	129.9	141.5	148.0	178.8	189.1	235.4	216.1	220.0	216.1	208.4	205.8
85°	90.1	105.5	113.2	136.4	142.8	181.4	180.1	180.1	172.4	162.1	160.8
87.5°	48.9	57.9	63.0	81.1	97.8	122.2	132.5	128.7	122.2	115.8	117.1
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°	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1
2.5°	7094.0	7269.0	7548.2	7761.8	7976.6	8183.7	8407.6	8578.7	8724.1	8780.7	8953.1
5°	5704.6	5923.3	6187.0	6663.0	7000.1	7371.9	7801.6	8370.3	8589.0	8891.3	9386.7
7.5°	4033.3	4231.5	4656.0	5040.7	5518.0	6044.2	6624.4	7409.2	7696.1	8181.2	8987.8
10°	3011.8	3242.1	3583.0	3907.3	4328.0	4865.7	5532.2	6409.6	6758.2	7284.4	8213.3
12.5°	2426.4	2697.9	3059.4	3364.3	3689.8	4069.4	4716.5	5678.8	6145.8	6606.4	7545.6
15°	1864.2	2148.5	2484.3	2871.6	3230.5	3639.6	4317.7	5370.1	5907.8	6387.7	7189.2
17.5°	1290.4	1533.6	1956.8	2360.8	2820.1	3343.7	4207.0	5435.7	6077.7	6630.9	7251.0
20°	914.7	1053.7	1401.1	1869.4	2441.9	3099.3	4186.4	5780.5	6615.4	7247.1	7647.2
22.5°	769.4	820.8	1022.8	1452.5	2113.8	2916.6	4258.5	6264.2	7341.1	8147.7	8278.9
25°	701.2	732.0	837.5	1139.9	1821.8	2784.1	4501.6	6984.7	8239.1	9048.3	9025.1
27.5°	663.9	696.0	765.5	962.3	1601.8	2701.8	4744.8	7838.9	9265.7	10026.1	9737.9
30°	652.3	696.0	769.4	907.0	1444.8	2571.8	4944.2	8589.0	10055.7	10686.1	10062.1
32.5°	643.3	649.7	683.2	782.2	1295.6	2420.0	5079.3	9261.9	10828.9	11313.9	10529.1
35°	519.8	551.9	606.0	701.2	1208.1	2328.7	5079.3	9842.1	11590.5	11948.2	10974.3
37.5°	500.5	528.8	576.4	657.4	1159.2	2283.6	4977.7	10401.8	12368.9	12667.4	11340.9
40°	490.2	513.3	558.4	624.0	1138.6	2232.2	4829.7	10895.8	13129.2	13387.8	11683.2
42.5°	482.5	503.0	545.5	603.4	1111.6	2175.6	4710.1	11292.0	13789.2	14002.8	12009.9
45°	478.6	500.5	546.8	613.7	1057.5	2100.9	4670.2	11720.5	14332.2	14516.1	12363.7
47.5°	478.6	504.3	553.2	635.6	993.2	2023.7	4795.0	12285.3	14845.5	14935.6	12780.6
50°	474.7	503.0	571.2	613.7	899.3	1926.0	5088.3	12996.7	15401.3	15411.6	13308.1
52.5°	467.0	500.5	615.0	600.8	791.2	1797.3	5484.6	13910.2	16223.4	16285.1	14134.0
55°	458.0	496.6	603.4	571.2	702.5	1644.2	5808.8	15020.5	17378.7	17549.8	15348.5
57.5°	446.4	491.5	584.1	530.1	644.6	1447.4	5925.8	15833.6	18185.4	18615.1	16717.4
60°	436.1	487.6	527.5	505.6	608.5	1281.4	5699.4	15672.7	18130.1	19056.4	17930.6
62.5°	425.8	491.5	481.2	490.2	591.8	1174.6	5107.6	14384.9	17212.7	18600.9	18829.9
65°	414.3	456.7	454.2	477.3	588.0	1132.2	4234.0	12453.8	15439.9	17161.3	19042.2
67.5°	398.8	422.0	434.9	460.6	600.8	1094.9	3417.1	10273.1	12976.1	15003.7	17935.8
70°	382.1	401.4	415.6	440.0	593.1	1078.1	2842.0	8101.4	10296.3	12296.8	15752.5
72.5°	360.2	377.0	389.8	413.0	585.4	1069.1	2400.7	6524.1	7687.1	9134.5	12807.6
75°	334.5	349.9	358.9	382.1	560.9	979.1	1887.4	5520.6	5752.2	6354.3	10201.0
77.5°	304.9	316.5	324.2	349.9	496.6	814.4	1365.0	4258.5	4466.9	4613.6	7820.9
80°	270.2	281.8	285.6	310.1	411.7	636.8	890.3	3145.6	3341.2	3374.6	5107.6
82.5°	230.3	241.9	241.9	265.0	337.1	458.0	584.1	2155.0	2193.6	2306.8	3610.1
85°	185.3	194.3	194.3	205.8	261.2	342.2	401.4	1082.0	1070.4	1222.2	3127.6
87.5°	132.5	138.9	145.4	148.0	186.5	226.4	241.9	329.4	217.4	249.6	2008.3
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-05-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1
2.5°	9083.0	9156.4	9081.8	9027.7	8794.9	8603.2	8347.1	8215.9
5°	9763.6	9950.2	9887.1	9660.7	9174.4	8627.6	8006.2	7725.7
7.5°	9681.3	10114.9	10125.1	9701.9	8985.3	8179.9	7338.5	6939.6
10°	9040.6	9595.1	9753.3	9342.9	8582.6	7682.0	6717.1	6261.6
12.5°	8325.3	8868.2	8989.1	8847.6	8212.0	7307.6	6328.5	5882.1
15°	7739.9	7983.0	8127.1	8250.6	7894.3	7158.4	6306.7	5816.5
17.5°	7383.5	7356.5	7397.7	7612.5	7673.0	7329.5	6641.2	6100.8
20°	7254.9	6841.9	6831.6	7127.5	7568.8	7737.3	7294.7	6646.3
22.5°	7325.6	6656.6	6571.7	6922.9	7624.1	8325.3	8151.6	7411.8
25°	7570.1	6672.0	6603.9	6943.5	7824.8	8951.8	9076.6	8402.5
27.5°	7954.7	6769.8	6679.8	7028.4	8091.1	9478.0	9987.5	9362.2
30°	8320.1	6939.6	6827.7	7195.7	8334.3	9686.4	10545.8	10111.0
32.5°	8764.0	7257.4	7060.6	7503.2	8635.3	10018.4	11043.7	10731.1
35°	9198.8	7710.3	7465.8	7977.9	8971.1	10431.3	11612.4	11523.6
37.5°	9676.1	8302.1	8100.1	8591.6	9430.4	10821.2	12338.0	12452.5
40°	10185.6	9086.9	8847.6	9487.0	10143.2	11310.1	13095.8	13371.1
42.5°	10698.9	9957.9	9672.3	10320.7	10926.7	11792.5	13744.2	14152.0
45°	11286.9	10903.5	10768.4	11469.6	11679.3	12251.8	14222.8	14729.7
47.5°	11971.3	11976.5	12193.9	12474.4	12438.4	12771.6	14704.0	15245.6
50°	12770.3	13315.8	13795.7	13982.2	13220.6	13329.9	15371.7	15936.5
52.5°	13730.1	14917.5	15511.9	15389.7	14063.3	14011.8	16429.2	16888.5
55°	14930.4	16613.2	17203.7	17116.3	15032.0	14940.7	17746.7	18014.3
57.5°	16319.9	18256.1	18799.1	18405.4	16195.1	15959.6	18836.4	18893.0
60°	17540.8	19558.1	20034.1	19598.0	17368.4	17044.2	19517.0	19242.9
62.5°	18220.1	19999.4	20333.9	19864.3	18172.5	18199.5	19666.2	19053.8
65°	17916.5	18884.0	18992.0	18953.4	17965.4	18869.8	19129.7	18180.2
67.5°	16254.3	16063.9	16245.3	16496.1	16189.9	17987.2	17643.7	16277.4
70°	13326.1	12280.1	12641.6	12810.2	12949.1	15478.5	15313.8	13257.9
72.5°	10042.8	8603.2	8888.8	8854.0	9497.3	12415.2	11909.6	9748.2
75°	7115.9	5833.2	5869.2	5855.1	6627.0	9713.4	8623.7	6669.5
77.5°	4978.9	4226.3	4245.6	4325.4	4455.3	7325.6	6161.3	4872.2
80°	3423.5	3207.4	3314.2	3320.6	3087.7	4921.1	4551.8	3909.8
82.5°	2549.9	2229.6	2203.9	2241.2	2420.0	3987.0	3498.1	2712.0
85°	2088.1	1320.0	1061.4	1330.3	2144.7	3948.4	2323.5	1430.6
87.5°	1175.9	626.5	283.0	524.9	855.6	2614.3	671.6	182.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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