

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: P193843

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193843
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 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

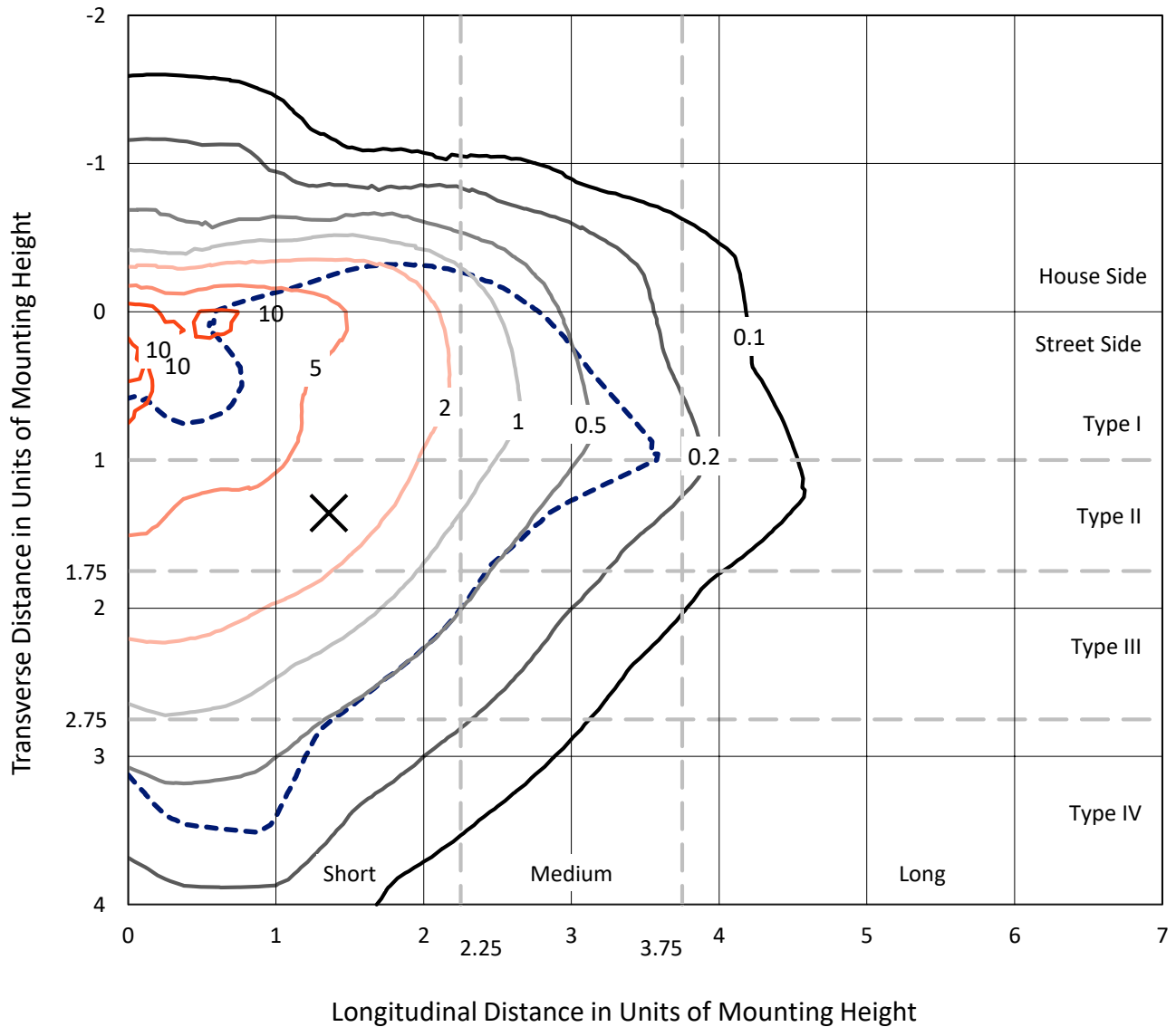


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

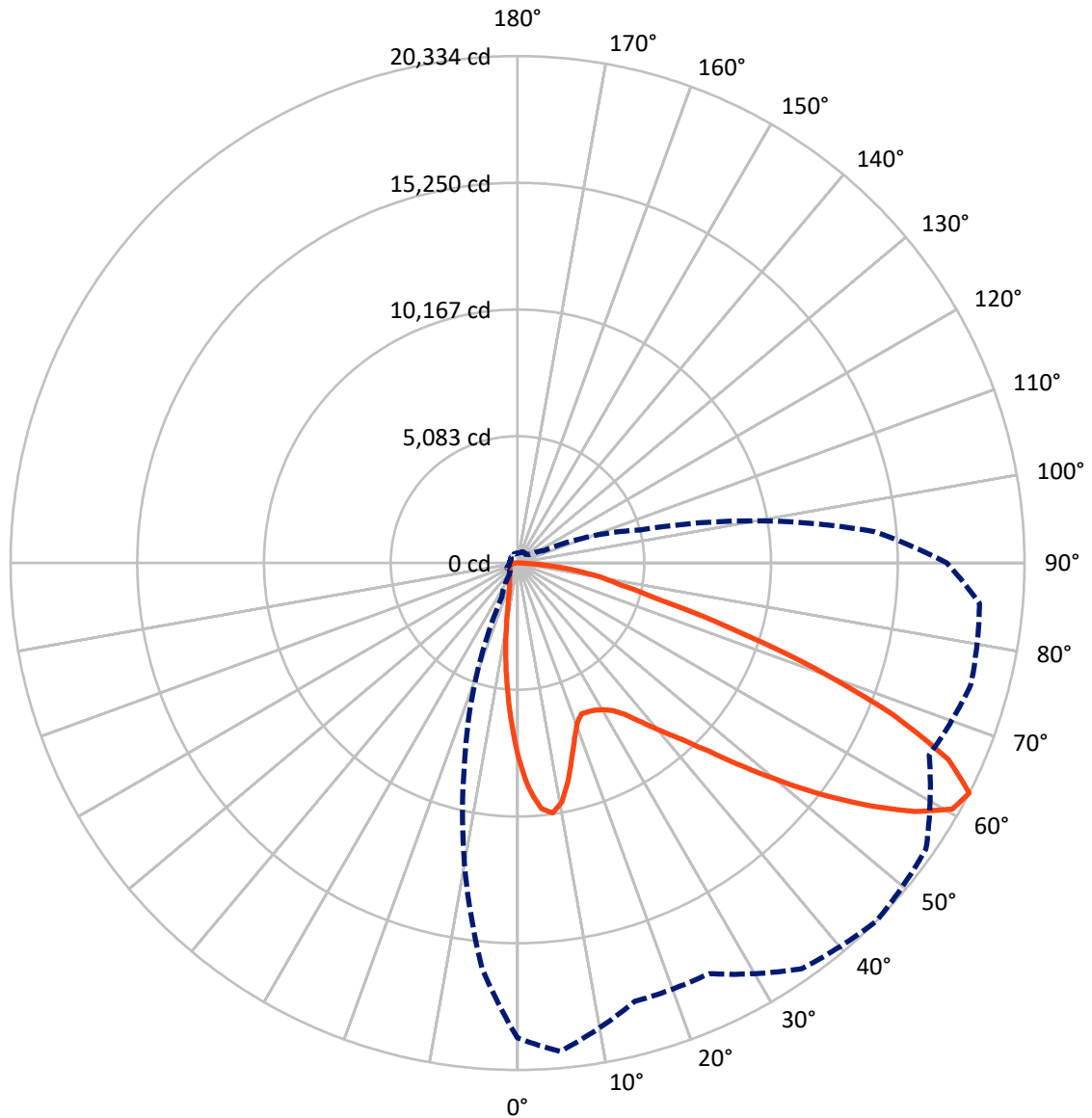


Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type IV - Short - Non-Cutoff

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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	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

Coefficient of Utilization

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



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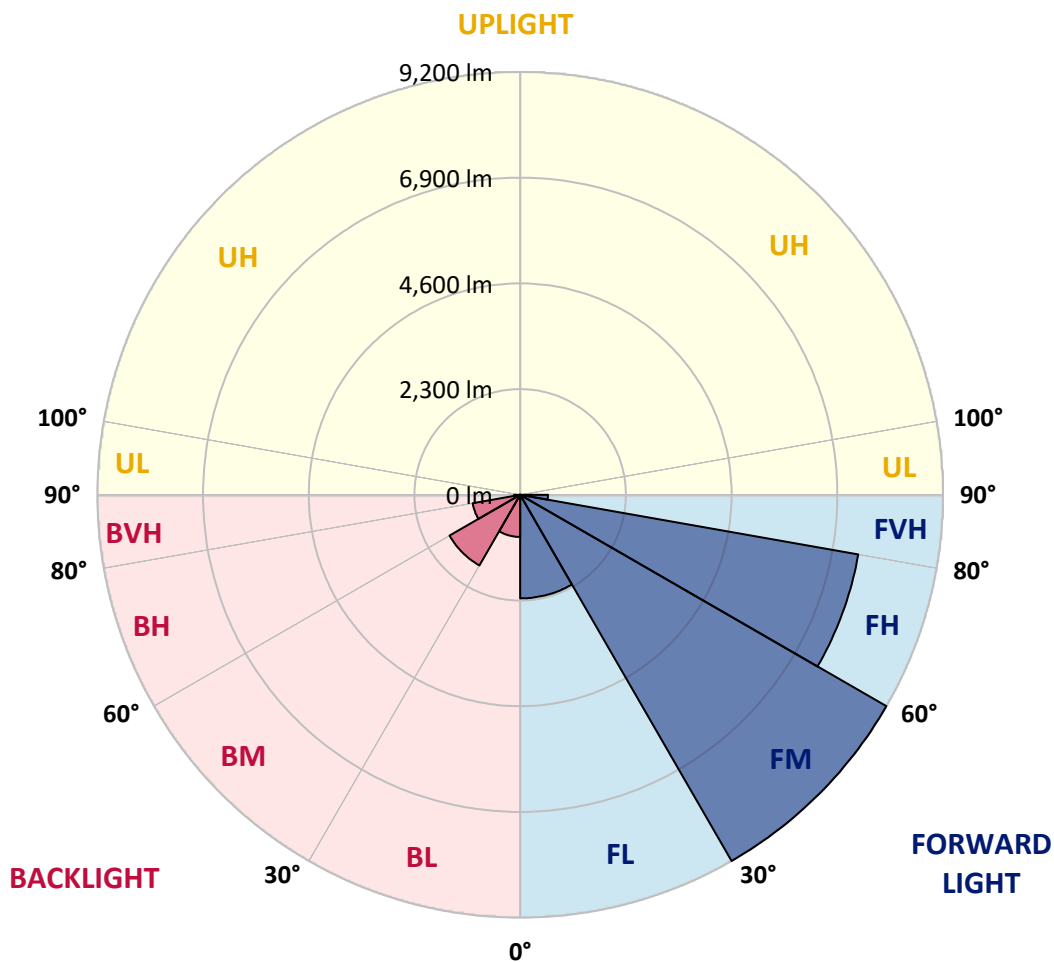
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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	8347.1	8603.2	8794.9	9027.7	9081.8	9156.4	9083.0	8953.1	8780.7	8724.1
5°	7725.7	8006.2	8627.6	9174.4	9660.7	9887.1	9950.2	9763.6	9386.7	8891.3	8589.0
7.5°	6939.6	7338.5	8179.9	8985.3	9701.9	10125.1	10114.9	9681.3	8987.8	8181.2	7696.1
10°	6261.6	6717.1	7682.0	8582.6	9342.9	9753.3	9595.1	9040.6	8213.3	7284.4	6758.2
12.5°	5882.1	6328.5	7307.6	8212.0	8847.6	8989.1	8868.2	8325.3	7545.6	6606.4	6145.8
15°	5816.5	6306.7	7158.4	7894.3	8250.6	8127.1	7983.0	7739.9	7189.2	6387.7	5907.8
17.5°	6100.8	6641.2	7329.5	7673.0	7612.5	7397.7	7356.5	7383.5	7251.0	6630.9	6077.7
20°	6646.3	7294.7	7737.3	7568.8	7127.5	6831.6	6841.9	7254.9	7647.2	7247.1	6615.4
22.5°	7411.8	8151.6	8325.3	7624.1	6922.9	6571.7	6656.6	7325.6	8278.9	8147.7	7341.1
25°	8402.5	9076.6	8951.8	7824.8	6943.5	6603.9	6672.0	7570.1	9025.1	9048.3	8239.1
27.5°	9362.2	9987.5	9478.0	8091.1	7028.4	6679.8	6769.8	7954.7	9737.9	10026.1	9265.7
30°	10111.0	10545.8	9686.4	8334.3	7195.7	6827.7	6939.6	8320.1	10062.1	10686.1	10055.7
32.5°	10731.1	11043.7	10018.4	8635.3	7503.2	7060.6	7257.4	8764.0	10529.1	11313.9	10828.9
35°	11523.6	11612.4	10431.3	8971.1	7977.9	7465.8	7710.3	9198.8	10974.3	11948.2	11590.5
37.5°	12452.5	12338.0	10821.2	9430.4	8591.6	8100.1	8302.1	9676.1	11340.9	12667.4	12368.9
40°	13371.1	13095.8	11310.1	10143.2	9487.0	8847.6	9086.9	10185.6	11683.2	13387.8	13129.2
42.5°	14152.0	13744.2	11792.5	10926.7	10320.7	9672.3	9957.9	10698.9	12009.9	14002.8	13789.2
45°	14729.7	14222.8	12251.8	11679.3	11469.6	10768.4	10903.5	11286.9	12363.7	14516.1	14332.2
47.5°	15245.6	14704.0	12771.6	12438.4	12474.4	12193.9	11976.5	11971.3	12780.6	14935.6	14845.5
50°	15936.5	15371.7	13329.9	13220.6	13982.2	13795.7	13315.8	12770.3	13308.1	15411.6	15401.3
52.5°	16888.5	16429.2	14011.8	14063.3	15389.7	15511.9	14917.5	13730.1	14134.0	16285.1	16223.4
55°	18014.3	17746.7	14940.7	15032.0	17116.3	17203.7	16613.2	14930.4	15348.5	17549.8	17378.7
57.5°	18893.0	18836.4	15959.6	16195.1	18405.4	18799.1	18256.1	16319.9	16717.4	18615.1	18185.4
60°	19242.9	19517.0	17044.2	17368.4	19598.0	20034.1	19558.1	17540.8	17930.6	19056.4	18130.1
62.5°	19053.8	19666.2	18199.5	18172.5	19864.3	20333.9	19999.4	18220.1	18829.9	18600.9	17212.7
65°	18180.2	19129.7	18869.8	17965.4	18953.4	18992.0	18884.0	17916.5	19042.2	17161.3	15439.9
67.5°	16277.4	17643.7	17987.2	16189.9	16496.1	16245.3	16063.9	16254.3	17935.8	15003.7	12976.1
70°	13257.9	15313.8	15478.5	12949.1	12810.2	12641.6	12280.1	13326.1	15752.5	12296.8	10296.3
72.5°	9748.2	11909.6	12415.2	9497.3	8854.0	8888.8	8603.2	10042.8	12807.6	9134.5	7687.1
75°	6669.5	8623.7	9713.4	6627.0	5855.1	5869.2	5833.2	7115.9	10201.0	6354.3	5752.2
77.5°	4872.2	6161.3	7325.6	4455.3	4325.4	4245.6	4226.3	4978.9	7820.9	4613.6	4466.9
80°	3909.8	4551.8	4921.1	3087.7	3320.6	3314.2	3207.4	3423.5	5107.6	3374.6	3341.2
82.5°	2712.0	3498.1	3987.0	2420.0	2241.2	2203.9	2229.6	2549.9	3610.1	2306.8	2193.6
85°	1430.6	2323.5	3948.4	2144.7	1330.3	1061.4	1320.0	2088.1	3127.6	1222.2	1070.4
87.5°	182.7	671.6	2614.3	855.6	524.9	283.0	626.5	1175.9	2008.3	249.6	217.4
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°	8578.7	8407.6	8183.7	7976.6	7761.8	7548.2	7269.0	7094.0	6973.1	6949.9	6898.5
5°	8370.3	7801.6	7371.9	7000.1	6663.0	6187.0	5923.3	5704.6	5587.5	5575.9	5547.6
7.5°	7409.2	6624.4	6044.2	5518.0	5040.7	4656.0	4231.5	4033.3	3952.3	3971.6	3990.9
10°	6409.6	5532.2	4865.7	4328.0	3907.3	3583.0	3242.1	3011.8	2852.3	2820.1	2813.7
12.5°	5678.8	4716.5	4069.4	3689.8	3364.3	3059.4	2697.9	2426.4	2219.3	2148.5	2100.9
15°	5370.1	4317.7	3639.6	3230.5	2871.6	2484.3	2148.5	1864.2	1673.8	1612.0	1577.3
17.5°	5435.7	4207.0	3343.7	2820.1	2360.8	1956.8	1533.6	1290.4	1175.9	1146.3	1146.3
20°	5780.5	4186.4	3099.3	2441.9	1869.4	1401.1	1053.7	914.7	877.4	873.6	883.9
22.5°	6264.2	4258.5	2916.6	2113.8	1452.5	1022.8	820.8	769.4	752.6	756.5	768.1
25°	6984.7	4501.6	2784.1	1821.8	1139.9	837.5	732.0	701.2	693.5	703.7	717.9
27.5°	7838.9	4744.8	2701.8	1601.8	962.3	765.5	696.0	663.9	669.0	681.9	694.7
30°	8589.0	4944.2	2571.8	1444.8	907.0	769.4	696.0	652.3	647.1	649.7	653.6
32.5°	9261.9	5079.3	2420.0	1295.6	782.2	683.2	649.7	643.3	615.0	604.7	606.0
35°	9842.1	5079.3	2328.7	1208.1	701.2	606.0	551.9	519.8	505.6	506.9	521.1
37.5°	10401.8	4977.7	2283.6	1159.2	657.4	576.4	528.8	500.5	481.2	477.3	479.9
40°	10895.8	4829.7	2232.2	1138.6	624.0	558.4	513.3	490.2	469.6	463.2	464.4
42.5°	11292.0	4710.1	2175.6	1111.6	603.4	545.5	503.0	482.5	459.3	452.9	451.6
45°	11720.5	4670.2	2100.9	1057.5	613.7	546.8	500.5	478.6	455.4	447.7	445.1
47.5°	12285.3	4795.0	2023.7	993.2	635.6	553.2	504.3	478.6	454.2	447.7	445.1
50°	12996.7	5088.3	1926.0	899.3	613.7	571.2	503.0	474.7	454.2	447.7	442.6
52.5°	13910.2	5484.6	1797.3	791.2	600.8	615.0	500.5	467.0	447.7	438.7	429.7
55°	15020.5	5808.8	1644.2	702.5	571.2	603.4	496.6	458.0	437.4	424.6	416.8
57.5°	15833.6	5925.8	1447.4	644.6	530.1	584.1	491.5	446.4	424.6	414.3	404.0
60°	15672.7	5699.4	1281.4	608.5	505.6	527.5	487.6	436.1	413.0	405.3	396.3
62.5°	14384.9	5107.6	1174.6	591.8	490.2	481.2	491.5	425.8	402.7	395.0	392.4
65°	12453.8	4234.0	1132.2	588.0	477.3	454.2	456.7	414.3	391.1	384.7	382.1
67.5°	10273.1	3417.1	1094.9	600.8	460.6	434.9	422.0	398.8	379.5	373.1	368.0
70°	8101.4	2842.0	1078.1	593.1	440.0	415.6	401.4	382.1	365.4	358.9	355.1
72.5°	6524.1	2400.7	1069.1	585.4	413.0	389.8	377.0	360.2	342.2	339.6	335.8
75°	5520.6	1887.4	979.1	560.9	382.1	358.9	349.9	334.5	316.5	316.5	313.9
77.5°	4258.5	1365.0	814.4	496.6	349.9	324.2	316.5	304.9	284.3	288.2	286.9
80°	3145.6	890.3	636.8	411.7	310.1	285.6	281.8	270.2	248.3	253.5	253.5
82.5°	2155.0	584.1	458.0	337.1	265.0	241.9	241.9	230.3	205.8	208.4	216.1
85°	1082.0	401.4	342.2	261.2	205.8	194.3	194.3	185.3	160.8	162.1	172.4
87.5°	329.4	241.9	226.4	186.5	148.0	145.4	138.9	132.5	117.1	115.8	122.2
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°	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1	7907.1
2.5°	6820.0	6746.7	6657.9	6462.3	6396.7	6392.9	6452.0	6390.3	6508.7	6458.5	6513.8
5°	5500.0	5428.0	5328.9	5079.3	4927.5	4824.6	4775.7	4631.6	4735.8	4659.9	4722.9
7.5°	4044.9	4061.6	3996.0	3849.4	3518.7	3352.7	3255.0	3167.5	3243.4	3235.7	3356.6
10°	2843.3	2888.3	2842.0	2694.0	2426.4	2335.1	2353.1	2387.8	2486.9	2538.4	2724.9
12.5°	2046.9	2044.3	2014.7	1882.2	1706.0	1716.3	1789.6	1850.1	1941.4	1995.4	2185.8
15°	1528.4	1505.3	1492.4	1384.3	1284.0	1305.8	1341.9	1348.3	1406.2	1438.4	1592.7
17.5°	1155.3	1166.9	1181.1	1103.9	1028.0	1013.8	985.5	950.8	967.5	973.9	1051.1
20°	917.3	963.6	998.4	944.3	867.1	826.0	789.9	766.8	766.8	765.5	787.4
22.5°	801.5	835.0	872.3	835.0	765.5	729.5	708.9	690.9	688.3	688.3	708.9
25°	738.5	762.9	798.9	773.2	721.8	694.7	675.4	652.3	643.3	640.7	654.9
27.5°	707.6	717.9	735.9	712.7	669.0	656.1	651.0	630.4	618.8	612.4	626.5
30°	654.9	652.3	653.6	630.4	595.7	594.4	603.4	607.3	603.4	602.1	624.0
32.5°	606.0	600.8	599.5	578.9	546.8	539.1	546.8	554.5	563.5	576.4	602.1
35°	544.2	557.1	564.8	546.8	508.2	485.0	476.0	461.9	454.2	454.2	483.7
37.5°	495.3	524.9	536.5	519.8	477.3	445.1	429.7	427.1	428.4	433.6	461.9
40°	478.6	500.5	510.8	494.0	451.6	422.0	413.0	410.4	413.0	420.7	449.0
42.5°	468.3	483.7	482.5	461.9	427.1	406.5	401.4	398.8	401.4	409.1	440.0
45°	459.3	469.6	459.3	434.9	402.7	392.4	393.7	392.4	395.0	402.7	432.3
47.5°	451.6	455.4	442.6	418.1	384.7	382.1	387.3	391.1	393.7	400.1	431.0
50°	440.0	440.0	428.4	402.7	369.2	370.5	377.0	386.0	387.3	395.0	419.4
52.5°	425.8	424.6	416.8	392.4	356.4	360.2	360.2	370.5	373.1	382.1	407.8
55°	414.3	411.7	407.8	384.7	344.8	351.2	347.4	351.2	357.7	366.7	395.0
57.5°	404.0	398.8	398.8	378.2	335.8	338.4	329.4	334.5	342.2	349.9	379.5
60°	393.7	388.5	391.1	369.2	321.6	319.1	315.2	325.5	328.1	337.1	366.7
62.5°	382.1	378.2	379.5	358.9	311.3	304.9	304.9	313.9	315.2	328.1	356.4
65°	373.1	368.0	366.7	348.7	299.8	292.0	295.9	299.8	302.3	315.2	342.2
67.5°	364.1	353.8	353.8	339.6	286.9	279.2	286.9	285.6	289.5	301.1	322.9
70°	352.5	338.4	339.6	333.2	274.0	265.0	271.5	270.2	272.7	280.5	302.3
72.5°	334.5	322.9	325.5	322.9	261.2	248.3	250.9	250.9	250.9	257.3	280.5
75°	311.3	302.3	310.1	316.5	245.7	227.7	230.3	230.3	226.4	230.3	258.6
77.5°	283.0	277.9	303.6	294.6	227.7	205.8	205.8	203.3	195.6	200.7	231.6
80°	252.2	248.3	280.5	247.0	207.1	178.8	176.3	169.8	162.1	166.0	196.8
82.5°	220.0	216.1	235.4	189.1	178.8	148.0	141.5	129.9	122.2	126.1	154.4
85°	180.1	180.1	181.4	142.8	136.4	113.2	105.5	90.1	81.1	83.6	110.6
87.5°	128.7	132.5	122.2	97.8	81.1	63.0	57.9	48.9	41.2	47.6	57.9
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-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°	6796.8	6938.4	7099.2	7305.0	7481.3	7770.8	8048.7	8215.9
5°	5081.9	5317.3	5610.6	5987.6	6338.8	6866.3	7389.9	7725.7
7.5°	3637.1	3889.2	4205.7	4676.6	5173.2	5846.1	6538.2	6939.6
10°	3009.2	3267.8	3534.2	3851.9	4258.5	4990.5	5808.8	6261.6
12.5°	2489.5	2766.1	3053.0	3387.5	3764.4	4418.0	5361.1	5882.1
15°	1905.4	2214.2	2552.5	2975.8	3448.0	4203.2	5250.4	5816.5
17.5°	1305.8	1650.6	2066.2	2588.5	3166.2	4133.7	5448.5	6100.8
20°	899.3	1150.2	1594.0	2206.4	2901.2	4124.7	5829.4	6646.3
22.5°	752.6	864.6	1188.8	1855.2	2701.8	4235.3	6419.9	7411.8
25°	696.0	762.9	949.5	1550.3	2556.4	4490.1	7233.0	8402.5
27.5°	662.6	723.0	862.0	1350.9	2441.9	4786.0	8024.2	9362.2
30°	675.4	737.2	837.5	1249.2	2286.2	5033.0	8726.7	10111.0
32.5°	608.5	635.6	717.9	1159.2	2174.3	5240.1	9341.6	10731.1
35°	518.5	566.1	640.7	1116.7	2176.8	5379.1	10011.9	11523.6
37.5°	494.0	541.6	595.7	1101.3	2206.4	5527.0	10781.3	12452.5
40°	478.6	522.3	568.7	1092.3	2234.7	5662.1	11535.2	13371.1
42.5°	468.3	508.2	566.1	1061.4	2248.9	5783.0	12155.3	14152.0
45°	467.0	508.2	576.4	1030.5	2270.8	5913.0	12675.1	14729.7
47.5°	468.3	524.9	557.1	993.2	2270.8	6130.4	13284.9	15245.6
50°	463.2	553.2	536.5	940.5	2218.0	6542.1	14121.2	15936.5
52.5°	460.6	549.4	496.6	859.4	2126.7	7195.7	15192.9	16888.5
55°	454.2	530.1	468.3	738.5	2019.9	7908.4	16340.5	18014.3
57.5°	447.7	469.6	452.9	633.0	1855.2	8410.2	17130.4	18893.0
60°	501.8	410.4	440.0	581.5	1635.2	8547.8	17099.5	19242.9
62.5°	464.4	384.7	423.3	569.9	1480.8	8161.9	16309.6	19053.8
65°	364.1	368.0	406.5	603.4	1439.6	7139.1	14909.8	18180.2
67.5°	333.2	351.2	389.8	645.8	1443.5	5716.1	12817.9	16277.4
70°	313.9	333.2	370.5	667.7	1453.8	4261.1	10134.1	13257.9
72.5°	292.0	308.8	348.7	671.6	1386.9	3095.4	7810.6	9748.2
75°	266.3	281.8	317.8	585.4	1148.9	2147.3	5974.7	6669.5
77.5°	236.7	248.3	279.2	451.6	853.0	1374.0	4484.9	4872.2
80°	202.0	208.4	234.2	330.6	584.1	859.4	3548.3	3909.8
82.5°	162.1	164.7	181.4	248.3	379.5	551.9	2376.3	2712.0
85°	114.5	114.5	124.8	180.1	258.6	349.9	1290.4	1430.6
87.5°	54.0	55.3	55.3	99.1	135.1	177.5	297.2	182.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)