

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: P193065

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193065
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-07-LED-E1-SLR-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 28912.2 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 295
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



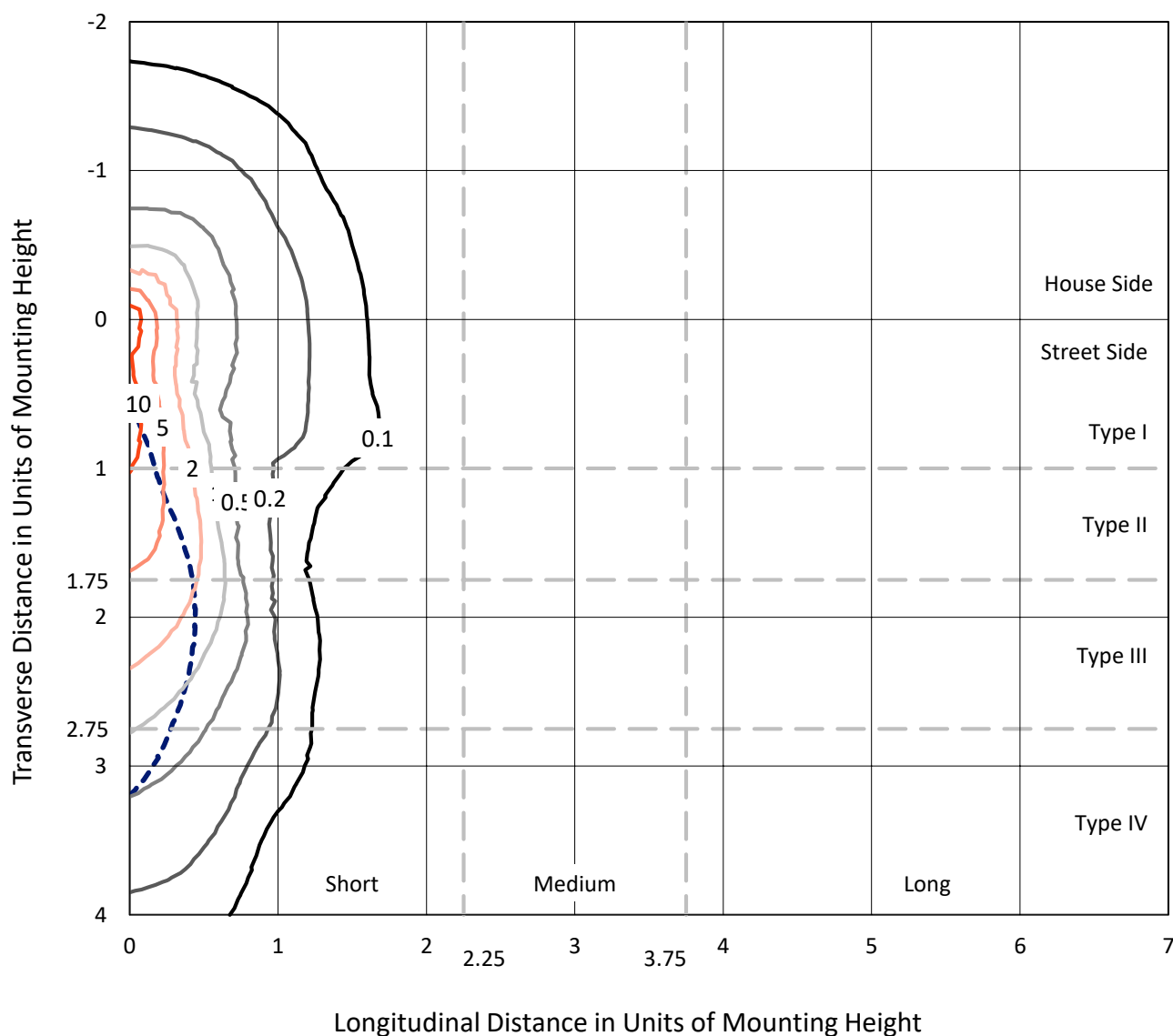
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

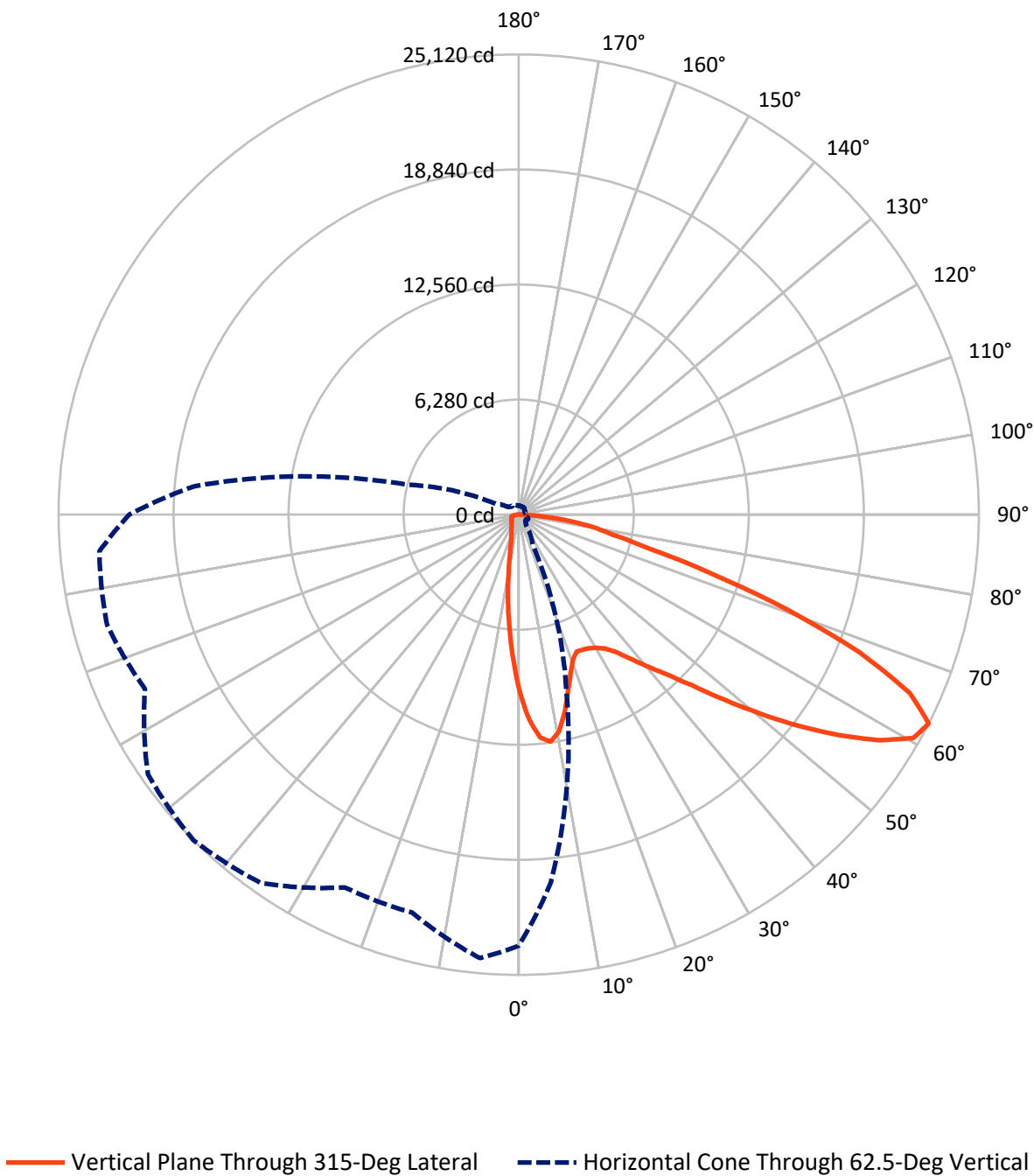


Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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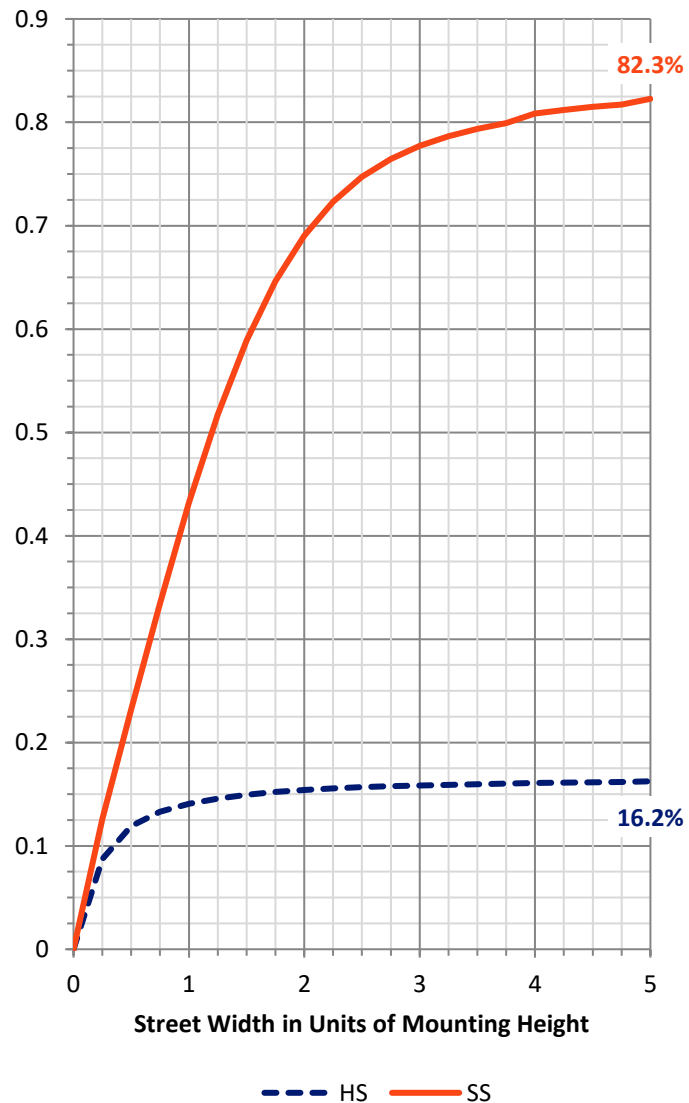
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4784.6	0.0	4784.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24127.6	0.0	24127.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	28912.2	0.0	28912.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.1	2.5
10°-20°	1303.9	4.5
20°-30°	1901.1	6.6
30°-40°	2928.0	10.1
40°-50°	4309.2	14.9
50°-60°	6320.7	21.9
60°-70°	7065.6	24.4
70°-80°	3459.2	12.0
80°-90°	913.3	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°	28912.2	100.0
0°-180°	28912.2	100.0

Coefficient of Utilization



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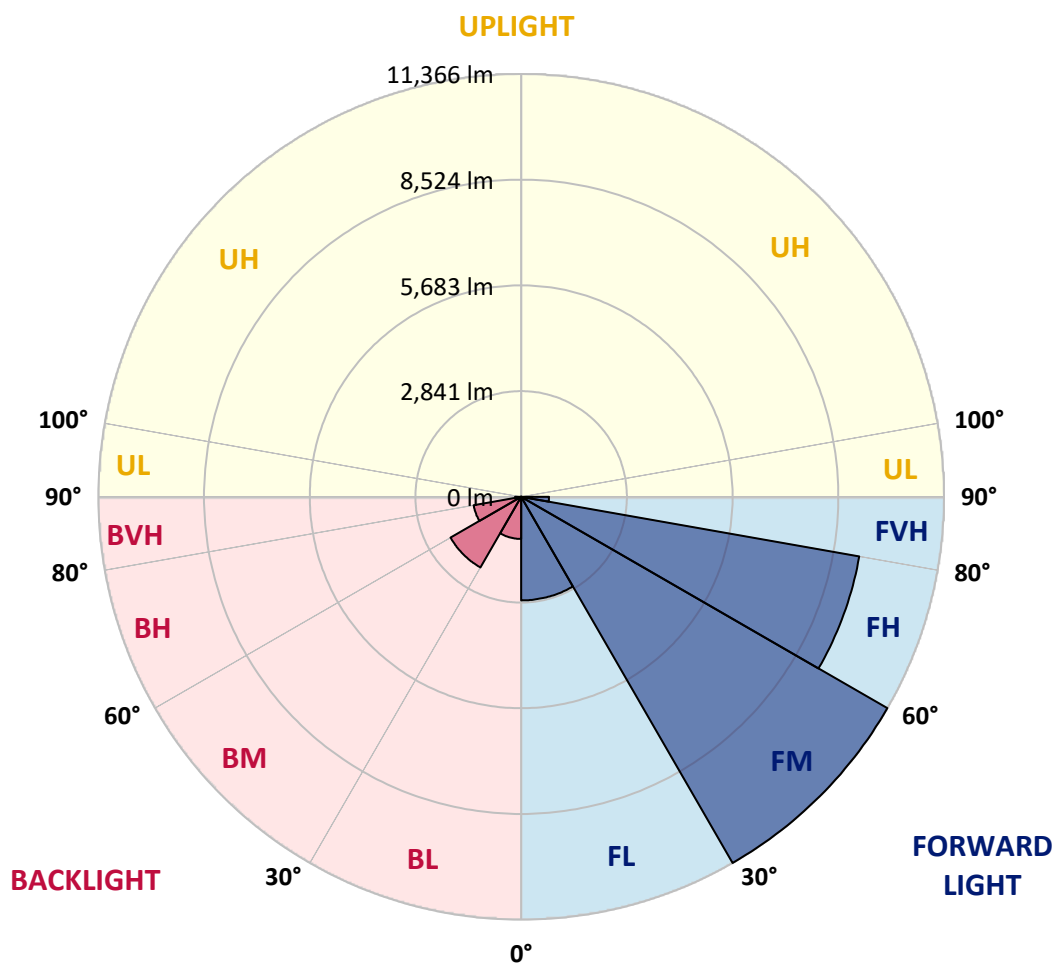
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2784.1	9.6			
FM	(30°-60°)	11365.6	39.3			
FH	(60°-80°)	9227.8	31.9			G4/12000
FVH	(80°-90°)	750.1	2.6			G5
BL	(0°-30°)	1131.9	3.9	B3/2500		
BM	(30°-60°)	2192.2	7.6	B2/2500		
BH	(60°-80°)	1297.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	163.3	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1
2.5°	10149.5	9942.9	9599.6	9242.0	9024.3	8770.0	8571.3	8396.5	8046.8	7978.5	8040.5
5°	9544.1	9129.1	8482.4	7830.7	7396.8	6931.1	6568.7	6277.9	5834.5	5756.6	5850.4
7.5°	8572.9	8077.0	7221.9	6390.8	5777.3	5195.6	4804.5	4493.1	4146.6	3997.1	4006.7
10°	7735.3	7175.9	6165.1	5260.8	4758.5	4365.9	4036.9	3717.4	3366.3	3135.7	3072.2
12.5°	7266.5	6622.7	5457.8	4650.4	4184.7	3771.5	3417.1	3075.4	2700.4	2465.1	2398.3
15°	7185.4	6486.0	5192.3	4259.5	3676.1	3153.2	2735.3	2353.8	1967.6	1776.9	1737.1
17.5°	7536.7	6730.8	5106.6	3911.4	3197.8	2552.6	2039.1	1613.2	1298.5	1203.2	1195.2
20°	8210.5	7201.3	5095.5	3583.9	2725.7	1969.2	1420.9	1110.9	972.6	945.6	947.3
22.5°	9156.2	7930.8	5232.1	3337.7	2291.8	1468.6	1068.0	929.8	875.7	850.2	850.2
25°	10379.9	8935.3	5546.8	3158.0	1915.2	1172.9	942.5	859.9	808.9	791.5	794.7
27.5°	11565.6	9912.8	5912.3	3016.5	1668.8	1064.8	893.2	818.5	774.0	756.5	764.5
30°	12490.6	10780.5	6217.5	2824.3	1543.3	1034.6	910.6	834.4	770.9	743.8	745.3
32.5°	13256.7	11540.2	6473.4	2686.0	1432.0	886.8	785.1	751.8	743.8	712.1	696.1
35°	14235.7	12368.2	6645.0	2689.2	1379.5	791.5	699.3	640.5	597.5	561.0	561.0
37.5°	15383.2	13318.7	6827.8	2725.7	1360.5	735.9	669.1	610.3	570.6	535.6	529.3
40°	16518.1	14250.0	6994.7	2760.7	1349.4	702.5	645.2	591.2	554.7	519.7	510.1
42.5°	17482.8	15016.0	7144.1	2778.1	1311.2	699.3	627.8	578.5	543.6	505.5	495.9
45°	18196.4	15658.2	7304.6	2805.2	1273.1	712.1	627.8	576.9	534.1	497.4	488.0
47.5°	18833.7	16411.5	7573.2	2805.2	1227.0	688.3	648.5	578.5	532.4	494.3	486.3
50°	19687.2	17444.7	8081.8	2740.0	1161.9	662.7	683.4	572.2	518.1	488.0	478.4
52.5°	20863.3	18768.5	8889.3	2627.1	1061.7	613.5	678.6	569.0	503.8	472.0	460.8
55°	22253.9	20186.2	9769.6	2495.3	912.4	578.5	654.8	561.0	488.0	453.0	441.9
57.5°	23339.5	21162.1	10389.6	2291.8	782.0	559.4	580.0	553.1	468.8	432.3	422.8
60°	23771.7	21123.9	10559.6	2020.1	718.4	543.6	507.0	619.8	453.0	416.4	405.3
62.5°	23538.2	20148.1	10082.8	1829.3	704.0	523.0	475.2	573.7	440.2	405.3	389.4
65°	22459.0	18418.9	8819.3	1778.5	745.3	502.3	454.5	449.8	422.8	389.4	373.4
67.5°	20108.4	15834.6	7061.4	1783.2	797.8	481.7	433.9	411.7	398.9	371.9	357.6
70°	16378.2	12519.3	5263.9	1796.0	824.9	457.7	411.7	387.8	373.4	346.5	336.9
72.5°	12042.4	9648.9	3824.0	1713.3	829.6	430.7	381.5	360.8	346.5	317.8	310.0
75°	8239.1	7380.9	2652.6	1419.3	723.2	392.6	348.1	329.0	319.5	284.5	279.7
77.5°	6018.9	5540.4	1697.5	1053.7	557.9	344.9	306.7	292.5	286.0	247.9	241.6
80°	4830.1	4383.4	1061.7	721.5	408.4	289.2	257.6	249.5	243.2	205.1	200.3
82.5°	3350.3	2935.5	681.8	468.8	306.7	224.1	203.4	200.3	190.7	155.8	151.0
85°	1767.4	1594.1	432.3	319.5	222.6	154.2	141.5	141.5	136.7	103.4	100.1
87.5°	225.7	367.1	219.3	166.8	122.4	68.4	68.4	66.7	71.6	58.8	50.8
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°	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1
2.5°	7894.3	7970.6	7897.5	7902.1	7983.2	8224.8	8334.6	8425.1	8522.0	8585.6	8614.2
5°	5721.6	5899.7	5960.0	6087.2	6274.8	6583.1	6705.5	6794.4	6853.3	6888.2	6902.6
7.5°	3913.0	4021.1	4141.8	4346.9	4755.3	4936.5	5017.5	4996.9	4930.1	4906.3	4882.5
10°	2949.8	2907.0	2884.7	2997.5	3328.0	3510.8	3568.1	3512.4	3475.9	3483.8	3523.6
12.5°	2285.4	2210.8	2120.1	2107.5	2325.2	2488.9	2525.4	2528.7	2595.4	2654.2	2741.7
15°	1665.6	1657.7	1613.2	1586.1	1710.1	1843.6	1859.5	1888.1	1948.5	1991.5	2067.7
17.5°	1174.5	1217.4	1252.4	1269.9	1363.7	1459.0	1441.5	1427.3	1416.1	1416.1	1452.7
20°	947.3	975.9	1020.4	1071.2	1166.6	1233.3	1190.4	1133.2	1091.8	1079.2	1084.0
22.5°	853.5	875.7	901.2	945.6	1031.5	1077.7	1031.5	990.1	948.8	934.5	929.8
25°	805.8	834.4	858.2	891.7	955.2	986.9	942.5	912.4	886.8	869.3	856.7
27.5°	778.8	804.2	810.6	826.4	880.5	909.1	886.8	874.2	858.2	842.4	826.4
30°	750.2	745.3	734.2	735.9	778.8	807.4	805.8	808.9	807.4	802.6	799.4
32.5°	685.0	675.4	665.9	675.4	715.2	740.7	742.2	748.5	748.5	747.0	759.7
35°	570.6	588.1	599.2	627.8	675.4	697.7	688.3	672.3	643.6	626.2	624.6
37.5°	527.6	530.9	549.9	589.7	642.1	662.7	648.5	611.9	592.8	589.7	594.4
40°	507.0	510.1	521.2	557.9	610.3	631.0	618.3	591.2	573.7	572.2	580.0
42.5°	492.6	495.9	502.3	527.6	570.6	596.0	597.5	578.5	557.9	559.4	567.4
45°	484.8	486.3	484.8	497.4	537.2	567.4	580.0	567.4	549.9	553.1	562.5
47.5°	483.2	478.4	472.0	475.2	516.6	546.8	562.5	557.9	549.9	553.1	561.0
50°	476.8	465.7	457.7	456.1	497.4	529.3	543.6	543.6	546.8	553.1	561.0
52.5°	457.7	445.0	445.0	440.2	484.8	514.9	524.5	526.1	530.9	541.9	553.1
55°	433.9	429.2	433.9	425.9	475.2	503.8	508.6	511.8	514.9	524.5	540.4
57.5°	413.2	406.9	418.0	414.8	467.3	492.6	492.6	499.1	499.1	511.8	524.5
60°	402.1	389.4	394.2	397.3	456.1	483.2	479.9	486.3	489.5	500.6	510.1
62.5°	387.8	376.7	376.7	384.6	443.4	468.8	467.3	472.0	484.8	488.0	497.4
65°	370.3	365.6	360.8	370.3	430.7	453.0	454.5	460.8	472.0	475.2	483.2
67.5°	352.8	354.4	344.9	354.4	419.5	437.0	437.0	449.8	454.5	460.8	468.8
70°	333.8	335.3	327.4	338.4	411.7	419.5	418.0	435.5	438.6	443.4	451.4
72.5°	310.0	310.0	306.7	322.7	398.9	402.1	398.9	413.2	414.8	419.5	422.8
75°	284.5	284.5	281.4	303.5	390.9	383.1	373.4	384.6	387.8	390.9	390.9
77.5°	251.1	254.2	254.2	281.4	364.0	375.1	343.3	349.6	354.4	355.9	351.3
80°	209.8	217.8	220.9	255.8	305.2	346.5	306.7	311.5	313.1	313.1	306.7
82.5°	160.5	174.9	182.8	220.9	233.6	290.8	267.0	271.7	267.0	257.6	254.2
85°	111.2	130.3	139.9	168.5	176.5	224.1	222.6	222.6	212.9	200.3	198.7
87.5°	60.4	71.6	77.9	100.1	120.8	151.0	163.7	159.0	151.0	143.0	144.7
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°	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1
2.5°	8763.5	8979.8	9324.6	9588.5	9853.9	10109.8	10386.3	10597.7	10777.4	10847.3	11060.2
5°	7047.1	7317.3	7643.1	8231.1	8647.7	9107.0	9637.8	10340.3	10610.5	10984.0	11595.8
7.5°	4982.6	5227.3	5751.9	6227.0	6816.6	7466.8	8183.5	9152.9	9507.4	10106.6	11103.2
10°	3720.6	4005.1	4426.3	4826.8	5346.5	6010.9	6834.1	7918.1	8348.8	8998.8	10146.4
12.5°	2997.5	3332.9	3779.5	4156.1	4558.2	5027.1	5826.6	7015.3	7592.3	8161.2	9321.5
15°	2302.9	2654.2	3069.0	3547.4	3990.8	4496.2	5333.8	6633.9	7298.3	7891.0	8881.2
17.5°	1594.1	1894.4	2417.4	2916.4	3483.8	4130.6	5197.1	6715.0	7508.1	8191.5	8957.5
20°	1130.1	1301.8	1730.7	2309.3	3016.5	3828.8	5171.7	7140.8	8172.4	8952.8	9447.0
22.5°	950.4	1014.0	1263.5	1794.4	2611.3	3603.1	5260.8	7738.5	9068.7	10065.3	10227.4
25°	866.2	904.3	1034.6	1408.2	2250.5	3439.4	5561.1	8628.5	10178.1	11177.9	11149.3
27.5°	820.1	859.9	945.6	1188.8	1978.6	3337.7	5861.5	9683.8	11446.4	12385.7	12029.8
30°	805.8	859.9	950.4	1120.5	1784.9	3177.0	6107.8	10610.5	12422.3	13201.0	12430.2
32.5°	794.7	802.6	843.9	966.3	1600.4	2989.6	6274.8	11441.6	13377.4	13976.7	13007.2
35°	642.1	681.8	748.5	866.2	1492.4	2876.7	6274.8	12158.5	14318.4	14760.2	13557.1
37.5°	618.3	653.3	712.1	812.2	1432.0	2821.1	6149.1	12849.9	15279.9	15648.6	14010.1
40°	605.6	634.1	689.8	770.9	1406.6	2757.4	5966.4	13460.0	16219.2	16538.7	14432.8
42.5°	596.0	621.4	673.9	745.3	1373.2	2687.6	5818.6	13949.6	17034.6	17298.4	14836.6
45°	591.2	618.3	675.4	758.1	1306.4	2595.4	5769.3	14478.9	17705.3	17932.5	15273.6
47.5°	591.2	623.0	683.4	785.1	1227.0	2500.1	5923.5	15176.6	18339.3	18450.7	15788.5
50°	586.5	621.4	705.7	758.1	1110.9	2379.2	6285.8	16055.5	19026.0	19038.8	16440.1
52.5°	576.9	618.3	759.7	742.2	977.5	2220.2	6775.3	17184.0	20041.7	20117.9	17460.5
55°	565.9	613.5	745.3	705.7	867.7	2031.1	7175.9	18555.6	21468.8	21680.2	18960.9
57.5°	551.5	607.2	721.5	654.8	796.3	1788.0	7320.5	19560.0	22465.4	22996.3	20651.8
60°	538.7	602.3	651.6	624.6	751.8	1582.9	7040.7	19361.4	22397.0	23541.3	22150.6
62.5°	526.1	607.2	594.4	605.6	731.1	1451.1	6309.7	17770.5	21263.8	22978.8	23261.7
65°	511.8	564.3	561.0	589.7	726.3	1398.6	5230.6	15384.8	19073.7	21200.2	23523.8
67.5°	492.6	521.2	537.2	569.0	742.2	1352.5	4221.3	12690.9	16030.1	18534.8	22157.0
70°	472.0	495.9	513.4	543.6	732.7	1331.9	3510.8	10008.0	12719.5	15191.0	19459.9
72.5°	445.0	465.7	481.7	510.1	723.2	1320.7	2965.8	8059.5	9496.3	11284.3	15822.0
75°	413.2	432.3	443.4	472.0	692.9	1209.5	2331.6	6819.9	7105.9	7849.7	12601.9
77.5°	376.7	390.9	400.6	432.3	613.5	1006.1	1686.3	5260.8	5518.2	5699.4	9661.6
80°	333.8	348.1	352.8	383.1	508.6	786.7	1099.8	3886.0	4127.5	4168.9	6309.7
82.5°	284.5	298.9	298.9	327.4	416.4	565.9	721.5	2662.1	2709.8	2849.7	4459.8
85°	228.9	240.1	240.1	254.2	322.7	422.8	495.9	1336.7	1322.4	1509.9	3863.7
87.5°	163.7	171.6	179.6	182.8	230.4	279.7	298.9	406.9	268.6	308.3	2481.0
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-07-LED-E1-SLR-7030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1
2.5°	11220.7	11311.4	11219.2	11152.4	10864.7	10627.9	10311.7	10149.5
5°	12061.5	12292.0	12214.1	11934.4	11333.6	10658.1	9890.4	9544.1
7.5°	11959.8	12495.4	12508.1	11985.2	11099.9	10105.1	9065.6	8572.9
10°	11168.3	11853.3	12048.8	11541.8	10602.5	9489.9	8297.9	7735.3
12.5°	10284.7	10955.3	11104.8	10929.9	10144.7	9027.4	7817.9	7266.5
15°	9561.5	9861.8	10039.9	10192.5	9752.2	8843.1	7790.9	7185.4
17.5°	9121.2	9087.8	9138.7	9404.2	9478.8	9054.6	8204.2	7536.7
20°	8962.3	8452.1	8439.4	8804.9	9350.1	9558.3	9011.6	8210.5
22.5°	9049.7	8223.3	8118.4	8552.3	9418.4	10284.7	10070.1	9156.2
25°	9351.7	8242.3	8158.1	8577.7	9666.3	11058.6	11212.8	10379.9
27.5°	9826.9	8363.1	8252.0	8682.7	9995.4	11708.7	12338.1	11565.6
30°	10278.2	8572.9	8434.6	8889.3	10295.7	11966.2	13027.8	12490.6
32.5°	10826.6	8965.5	8722.2	9269.0	10667.6	12376.3	13642.8	13256.7
35°	11363.8	9524.9	9222.9	9855.5	11082.5	12886.4	14345.4	14235.7
37.5°	11953.4	10256.0	10006.5	10613.7	11649.9	13368.0	15241.7	15383.2
40°	12582.9	11225.6	10929.9	11719.8	12530.4	13971.8	16177.9	16518.1
42.5°	13217.0	12301.5	11948.7	12749.7	13498.3	14567.9	16978.9	17482.8
45°	13943.3	13469.7	13302.8	14169.0	14428.0	15135.2	17570.2	18196.4
47.5°	14788.8	14795.3	15063.8	15410.3	15365.7	15777.4	18164.6	18833.7
50°	15775.8	16449.6	17042.5	17273.1	16332.1	16467.1	18989.5	19687.2
52.5°	16961.4	18428.4	19162.7	19011.6	17373.1	17309.5	20295.9	20863.3
55°	18444.3	20523.1	21252.7	21144.6	18569.8	18457.0	21923.4	22253.9
57.5°	20160.8	22552.8	23223.5	22737.1	20006.7	19715.9	23269.6	23339.5
60°	21669.1	24161.1	24749.2	24210.4	21456.2	21055.6	24110.4	23771.7
62.5°	22508.3	24706.4	25119.6	24539.4	22449.5	22482.9	24294.7	23538.2
65°	22133.2	23328.4	23461.9	23414.1	22193.7	23310.9	23631.9	22459.0
67.5°	20079.7	19844.5	20068.6	20378.5	20000.2	22220.6	21796.2	20108.4
70°	16462.4	15170.2	15616.9	15825.1	15996.7	19121.4	18917.9	16378.2
72.5°	12406.4	10627.9	10980.8	10937.8	11732.5	15337.2	14712.6	12042.4
75°	8790.7	7206.0	7250.6	7233.1	8186.7	11999.5	10653.4	8239.1
77.5°	6150.7	5221.0	5244.9	5343.4	5503.9	9049.7	7611.3	6018.9
80°	4229.2	3962.2	4094.2	4102.1	3814.5	6079.1	5623.1	4830.1
82.5°	3150.1	2754.3	2722.5	2768.6	2989.6	4925.4	4321.4	3350.3
85°	2579.5	1630.7	1311.2	1643.4	2649.4	4877.7	2870.3	1767.4
87.5°	1452.7	774.0	349.6	648.5	1056.9	3229.6	829.6	225.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)