

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: P193083

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193083
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 27738.7 lumens
Efficiency: N/A
Efficacy: 86.7 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



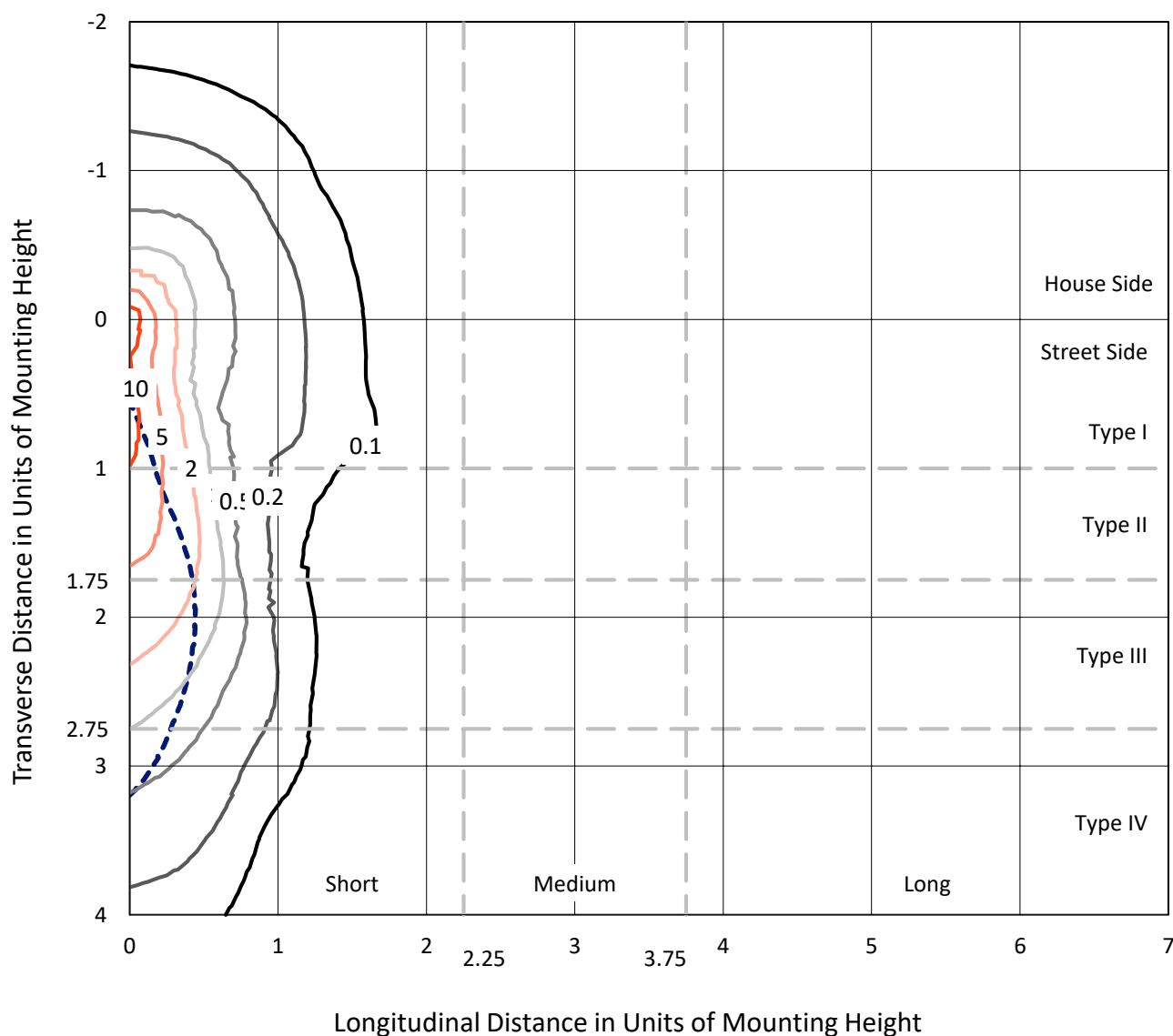
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

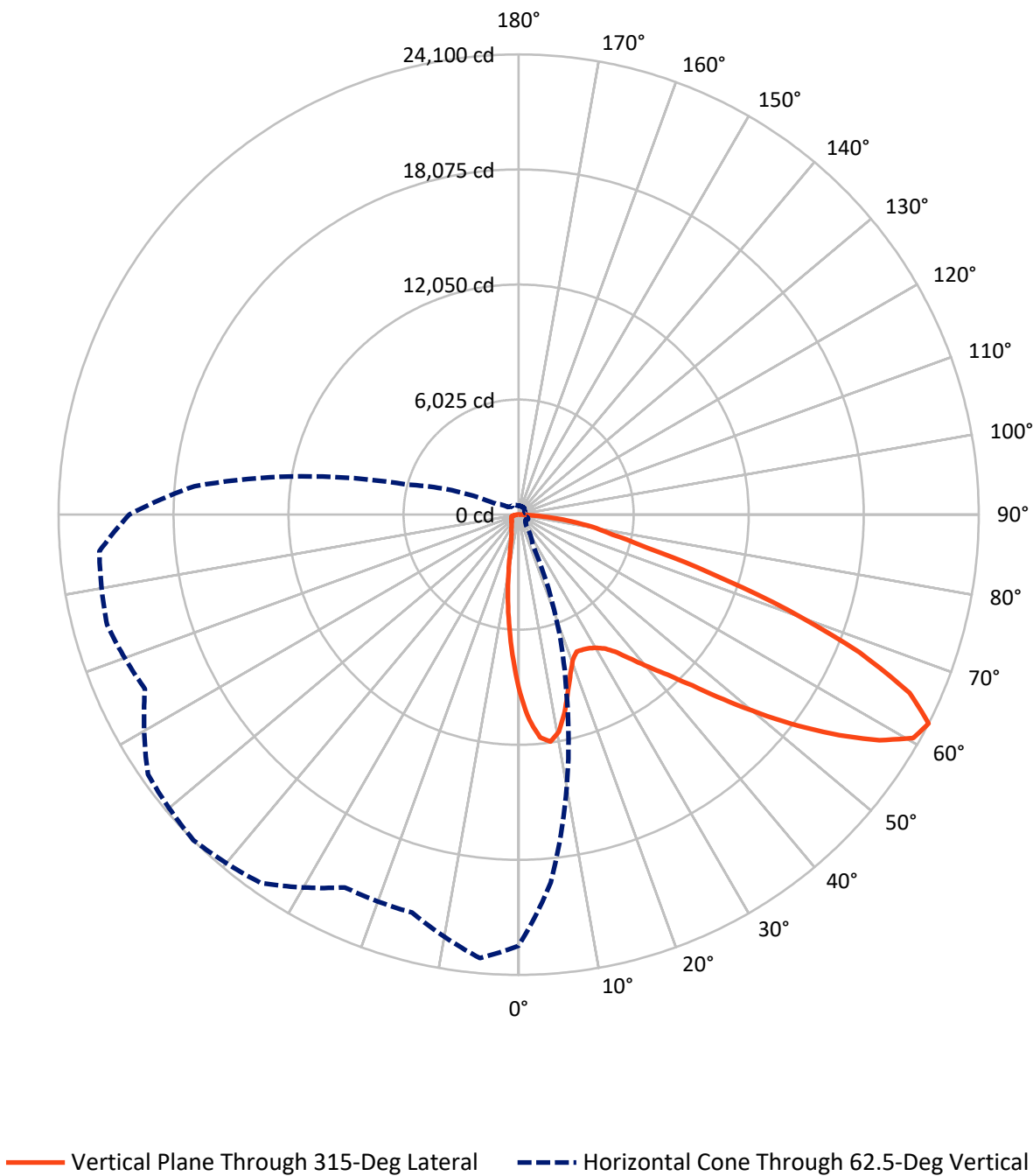


Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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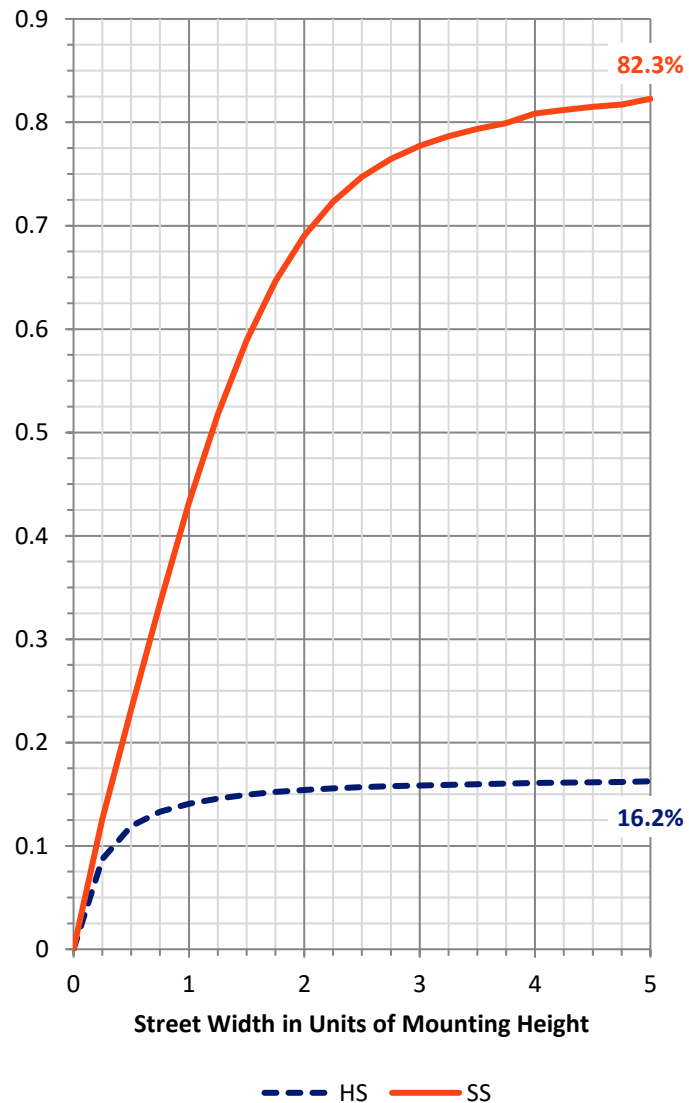
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4590.4	0.0	4590.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	23148.4	0.0	23148.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	27738.7	0.0	27738.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.2	2.5
10°-20°	1251.0	4.5
20°-30°	1823.9	6.6
30°-40°	2809.1	10.1
40°-50°	4134.3	14.9
50°-60°	6064.2	21.9
60°-70°	6778.9	24.4
70°-80°	3318.8	12.0
80°-90°	876.3	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°	27738.7	100.0
0°-180°	27738.7	100.0

Coefficient of Utilization



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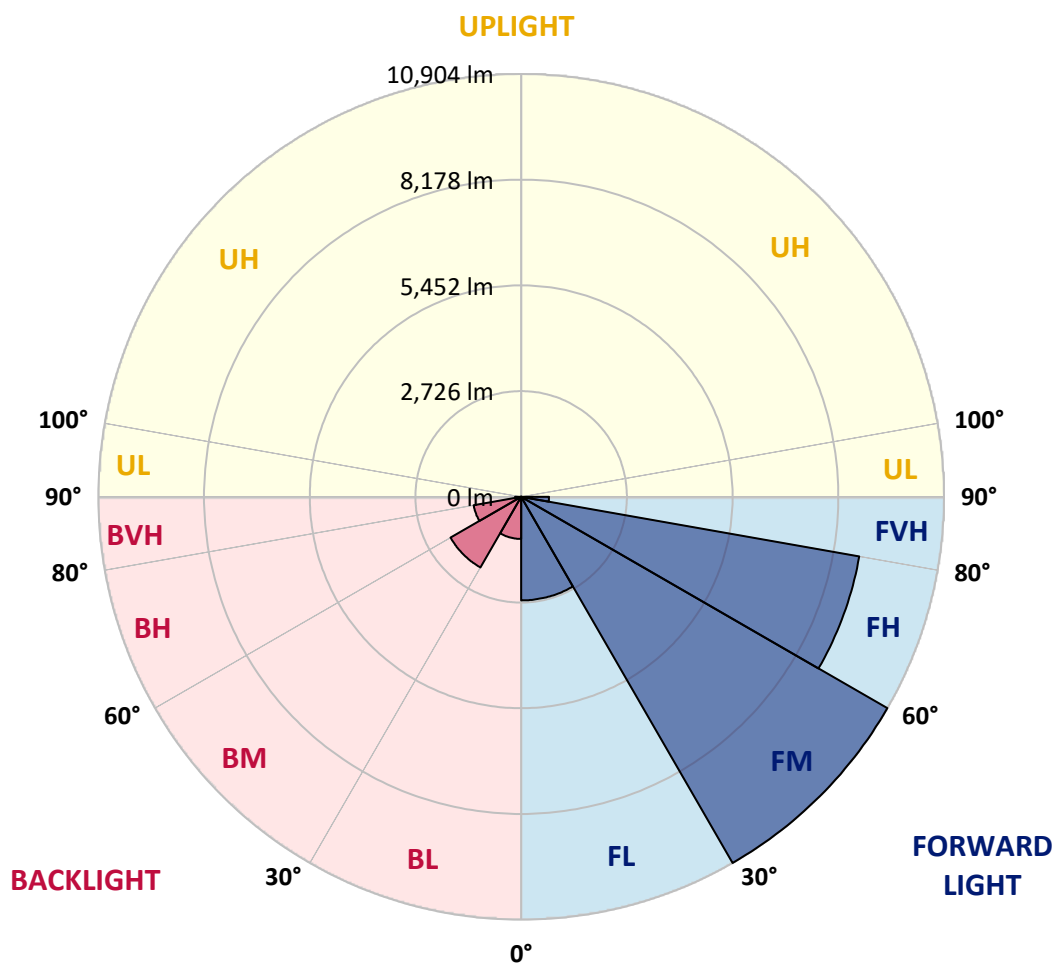
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2671.1	9.6			
FM	(30°-60°)	10904.3	39.3			
FH	(60°-80°)	8853.2	31.9			G4/12000
FVH	(80°-90°)	719.6	2.6			G4/750
BL	(0°-30°)	1086.0	3.9	B3/2500		
BM	(30°-60°)	2103.3	7.6	B2/2500		
BH	(60°-80°)	1244.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	156.6	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°	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6
2.5°	9737.6	9539.4	9210.0	8866.9	8658.0	8414.0	8223.4	8055.6	7720.3	7654.7	7714.1
5°	9156.7	8758.7	8138.0	7512.8	7096.6	6649.8	6302.2	6023.1	5597.7	5522.9	5612.8
7.5°	8224.9	7749.2	6928.9	6131.4	5542.8	4984.7	4609.5	4310.8	3978.3	3835.0	3844.1
10°	7421.3	6884.7	5914.9	5047.2	4565.4	4188.7	3873.1	3566.6	3229.6	3008.5	2947.5
12.5°	6971.5	6354.0	5236.2	4461.7	4014.8	3618.4	3278.5	2950.5	2590.6	2365.0	2301.0
15°	6893.8	6222.9	4981.6	4086.6	3527.0	3025.3	2624.2	2258.3	1887.8	1704.8	1666.6
17.5°	7230.8	6457.7	4899.3	3752.6	3068.0	2448.9	1956.4	1547.6	1245.8	1154.4	1146.6
20°	7877.3	6909.0	4888.6	3438.5	2615.1	1889.3	1363.2	1065.9	933.2	907.3	908.8
22.5°	8784.6	7609.0	5019.8	3202.2	2198.9	1408.9	1024.8	892.0	840.2	815.8	815.8
25°	9958.7	8572.6	5321.7	3029.9	1837.4	1125.4	904.2	824.9	776.2	759.4	762.4
27.5°	11096.3	9510.4	5672.4	2894.2	1601.0	1021.7	856.9	785.2	742.6	725.8	733.4
30°	11983.7	10342.9	5965.1	2709.6	1480.6	992.6	873.7	800.6	739.5	713.6	715.1
32.5°	12718.7	11071.8	6210.7	2577.0	1373.8	850.9	753.3	721.2	713.6	683.1	667.9
35°	13658.0	11866.3	6375.4	2580.0	1323.5	759.4	671.0	614.5	573.4	538.3	538.3
37.5°	14758.8	12778.1	6550.7	2615.1	1305.2	706.1	642.0	585.5	547.4	513.8	507.7
40°	15847.6	13671.7	6710.8	2648.7	1294.6	674.0	619.1	567.3	532.2	498.7	489.5
42.5°	16773.2	14406.6	6854.2	2665.4	1258.0	671.0	602.3	555.0	521.5	484.9	475.8
45°	17457.9	15022.7	7008.1	2691.4	1221.4	683.1	602.3	553.5	512.3	477.3	468.1
47.5°	18069.3	15745.5	7265.8	2691.4	1177.2	660.3	622.1	555.0	510.8	474.1	466.6
50°	18888.2	16736.6	7753.8	2628.8	1114.7	635.9	655.7	548.9	497.1	468.1	459.0
52.5°	20016.6	18006.8	8528.4	2520.5	1018.7	588.6	651.0	545.9	483.4	452.9	442.2
55°	21350.8	19367.0	9373.2	2394.0	875.2	555.0	628.2	538.3	468.1	434.6	423.9
57.5°	22392.2	20303.2	9967.8	2198.9	750.2	536.8	556.5	530.7	449.8	414.7	405.6
60°	22807.0	20266.6	10130.9	1938.0	689.2	521.5	486.4	594.7	434.6	399.6	388.9
62.5°	22582.8	19330.3	9673.6	1755.0	675.6	501.7	455.9	550.4	422.4	388.9	373.5
65°	21547.4	17671.4	8461.4	1706.3	715.1	481.9	436.1	431.6	405.6	373.5	358.4
67.5°	19292.2	15192.0	6774.8	1710.9	765.5	462.0	416.3	395.0	382.7	356.8	343.1
70°	15713.4	12011.1	5050.3	1723.0	791.4	439.1	395.0	372.0	358.4	332.3	323.3
72.5°	11553.7	9257.3	3668.7	1643.8	796.0	413.2	365.9	346.2	332.3	305.0	297.3
75°	7904.8	7081.3	2544.9	1361.7	693.8	376.6	333.9	315.6	306.5	272.9	268.3
77.5°	5774.6	5315.6	1628.5	1010.9	535.3	330.8	294.4	280.6	274.5	237.8	231.7
80°	4634.0	4205.5	1018.7	692.2	391.9	277.5	247.0	239.4	233.3	196.6	192.1
82.5°	3214.4	2816.3	654.1	449.8	294.4	215.0	195.1	192.1	183.0	149.4	144.9
85°	1695.6	1529.4	414.7	306.5	213.5	147.9	135.7	135.7	131.1	99.1	96.0
87.5°	216.6	352.3	210.5	160.1	117.5	65.5	65.5	64.0	68.7	56.4	48.8
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°	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6
2.5°	7573.9	7647.0	7576.9	7581.5	7659.3	7891.0	7996.2	8083.1	8176.2	8237.2	8264.6
5°	5489.4	5660.1	5718.1	5840.1	6020.0	6315.8	6433.3	6518.6	6575.1	6608.6	6622.3
7.5°	3754.1	3857.8	3973.8	4170.4	4562.3	4736.2	4813.9	4794.1	4730.1	4707.2	4684.3
10°	2830.2	2789.0	2767.5	2875.8	3193.0	3368.4	3423.2	3369.9	3334.8	3342.5	3380.6
12.5°	2192.8	2121.0	2034.1	2022.0	2230.8	2387.9	2423.0	2426.0	2490.0	2546.5	2630.3
15°	1598.0	1590.4	1547.6	1521.8	1640.7	1768.8	1784.1	1811.5	1869.4	1910.6	1983.8
17.5°	1126.9	1168.0	1201.6	1218.4	1308.3	1399.8	1383.0	1369.3	1358.6	1358.6	1393.7
20°	908.8	936.3	979.0	1027.7	1119.3	1183.3	1142.1	1087.2	1047.6	1035.3	1039.9
22.5°	818.8	840.2	864.6	907.3	989.7	1033.8	989.7	950.0	910.3	896.6	892.0
25°	773.1	800.6	823.4	855.4	916.4	947.0	904.2	875.2	850.9	834.0	821.8
27.5°	747.3	771.6	777.7	792.9	844.8	872.2	850.9	838.7	823.4	808.2	792.9
30°	719.7	715.1	704.5	706.1	747.3	774.6	773.1	776.2	774.6	770.1	767.0
32.5°	657.2	648.0	638.9	648.0	686.1	710.6	712.2	718.2	718.2	716.6	728.9
35°	547.4	564.3	574.8	602.3	648.0	669.4	660.3	644.9	617.6	600.8	599.3
37.5°	506.2	509.2	527.6	565.8	616.0	635.9	622.1	587.0	568.8	565.8	570.4
40°	486.4	489.5	500.2	535.3	585.5	605.4	593.2	567.3	550.4	548.9	556.5
42.5°	472.6	475.8	481.9	506.2	547.4	571.9	573.4	555.0	535.3	536.8	544.3
45°	465.1	466.6	465.1	477.3	515.3	544.3	556.5	544.3	527.6	530.7	539.7
47.5°	463.6	459.0	452.9	455.9	495.6	524.6	539.7	535.3	527.6	530.7	538.3
50°	457.5	446.8	439.1	437.6	477.3	507.7	521.5	521.5	524.6	530.7	538.3
52.5°	439.1	426.9	426.9	422.4	465.1	494.1	503.2	504.7	509.2	520.0	530.7
55°	416.3	411.7	416.3	408.6	455.9	483.4	488.0	491.0	494.1	503.2	518.4
57.5°	396.5	390.4	401.0	398.0	448.3	472.6	472.6	478.8	478.8	491.0	503.2
60°	385.8	373.5	378.1	381.2	437.6	463.6	460.5	466.6	469.6	480.3	489.5
62.5°	372.0	361.4	361.4	369.0	425.4	449.8	448.3	452.9	465.1	468.1	477.3
65°	355.3	350.7	346.2	355.3	413.2	434.6	436.1	442.2	452.9	455.9	463.6
67.5°	338.4	340.1	330.8	340.1	402.5	419.3	419.3	431.6	436.1	442.2	449.8
70°	320.2	321.8	314.1	324.8	395.0	402.5	401.0	417.8	420.8	425.4	433.1
72.5°	297.3	297.3	294.4	309.5	382.7	385.8	382.7	396.5	398.0	402.5	405.6
75°	272.9	272.9	269.9	291.2	375.1	367.4	358.4	369.0	372.0	375.1	375.1
77.5°	240.9	243.9	243.9	269.9	349.2	359.9	329.4	335.4	340.1	341.6	336.9
80°	201.2	208.9	212.0	245.5	292.9	332.3	294.4	298.9	300.4	300.4	294.4
82.5°	154.0	167.7	175.4	212.0	224.2	279.0	256.2	260.7	256.2	247.0	243.9
85°	106.7	125.0	134.2	161.6	169.3	215.0	213.5	213.5	204.4	192.1	190.6
87.5°	57.9	68.7	74.8	96.0	116.0	144.9	157.0	152.5	144.9	137.2	138.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6
2.5°	8407.9	8615.3	8946.2	9199.3	9453.9	9699.5	9964.8	10167.5	10339.9	10407.1	10611.4
5°	6761.1	7020.4	7332.9	7897.2	8296.6	8737.4	9246.6	9920.6	10179.8	10538.2	11125.3
7.5°	4780.3	5015.2	5518.3	5974.3	6540.0	7163.7	7851.4	8781.5	9121.6	9696.4	10652.4
10°	3569.6	3842.5	4246.7	4631.0	5129.5	5766.9	6556.7	7596.7	8010.1	8633.6	9734.6
12.5°	2875.8	3197.6	3626.1	3987.4	4373.2	4823.0	5590.0	6730.6	7284.1	7830.1	8943.2
15°	2209.4	2546.5	2944.4	3403.4	3828.9	4313.8	5117.3	6364.7	7002.1	7570.8	8520.8
17.5°	1529.4	1817.6	2319.2	2798.0	3342.5	3963.1	4986.3	6442.5	7203.4	7859.0	8594.0
20°	1084.2	1248.9	1660.5	2215.6	2894.2	3673.3	4961.8	6851.1	7840.7	8589.4	9063.6
22.5°	911.9	972.9	1212.2	1721.5	2505.4	3456.9	5047.2	7424.3	8700.8	9656.8	9812.3
25°	831.0	867.6	992.6	1351.0	2159.2	3299.7	5335.3	8278.3	9765.0	10724.2	10696.7
27.5°	786.7	824.9	907.3	1140.5	1898.4	3202.2	5623.6	9290.9	10981.8	11883.0	11541.5
30°	773.1	824.9	911.9	1075.0	1712.4	3048.2	5859.9	10179.8	11918.1	12665.4	11925.7
32.5°	762.4	770.1	809.7	927.1	1535.5	2868.2	6020.0	10977.3	12834.5	13409.4	12479.3
35°	616.0	654.1	718.2	831.0	1431.9	2760.0	6020.0	11664.9	13737.2	14161.2	13006.9
37.5°	593.2	626.7	683.1	779.2	1373.8	2706.6	5899.6	12328.3	14659.8	15013.6	13441.4
40°	580.9	608.3	661.8	739.5	1349.5	2645.6	5724.2	12913.8	15560.9	15867.4	13847.1
42.5°	571.9	596.2	646.5	715.1	1317.4	2578.5	5582.4	13383.5	16343.2	16596.3	14234.3
45°	567.3	593.2	648.0	727.3	1253.4	2490.0	5535.2	13891.2	16986.6	17204.7	14653.7
47.5°	567.3	597.7	655.7	753.3	1177.2	2398.6	5683.0	14560.7	17595.1	17701.8	15147.7
50°	562.6	596.2	677.1	727.3	1065.9	2282.7	6030.7	15403.9	18253.8	18266.0	15772.8
52.5°	553.5	593.2	728.9	712.2	937.8	2130.2	6500.4	16486.5	19228.2	19301.4	16751.8
55°	542.8	588.6	715.1	677.1	832.5	1948.7	6884.7	17802.4	20597.4	20800.2	18191.3
57.5°	529.2	582.5	692.2	628.2	763.9	1715.5	7023.4	18766.2	21553.6	22062.8	19813.7
60°	516.9	577.9	625.2	599.3	721.2	1518.7	6755.1	18575.6	21488.0	22585.8	21251.7
62.5°	504.7	582.5	570.4	580.9	701.5	1392.2	6053.6	17049.2	20400.8	22046.2	22317.6
65°	491.0	541.3	538.3	565.8	696.8	1341.8	5018.3	14760.4	18299.5	20339.8	22569.1
67.5°	472.6	500.2	515.3	545.9	712.2	1297.7	4049.9	12175.9	15379.5	17782.6	21257.7
70°	452.9	475.8	492.5	521.5	703.0	1277.8	3368.4	9601.9	12203.2	14574.4	18670.1
72.5°	426.9	446.8	462.0	489.5	693.8	1267.2	2845.3	7732.5	9110.9	10826.3	15179.7
75°	396.5	414.7	425.4	452.9	664.9	1160.5	2237.0	6543.1	6817.6	7531.1	12090.4
77.5°	361.4	375.1	384.3	414.7	588.6	965.2	1617.8	5047.2	5294.2	5468.1	9269.4
80°	320.2	333.9	338.4	367.4	488.0	754.8	1055.2	3728.3	3960.0	3999.7	6053.6
82.5°	272.9	286.7	286.7	314.1	399.6	542.8	692.2	2554.2	2599.9	2734.0	4278.7
85°	219.6	230.2	230.2	243.9	309.5	405.6	475.8	1282.3	1268.6	1448.6	3706.8
87.5°	157.0	164.7	172.3	175.4	221.1	268.3	286.7	390.4	257.8	295.8	2380.3
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-7030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6
2.5°	10765.4	10852.2	10763.7	10699.8	10423.8	10196.6	9893.1	9737.6
5°	11571.9	11793.1	11718.4	11450.1	10873.6	10225.6	9489.0	9156.7
7.5°	11474.4	11988.3	12000.5	11498.8	10649.5	9694.9	8697.7	8224.9
10°	10715.0	11372.2	11559.7	11073.3	10172.1	9104.8	7961.1	7421.3
12.5°	9867.2	10510.7	10654.0	10486.2	9733.1	8661.1	7500.6	6971.5
15°	9173.4	9461.7	9632.4	9778.8	9356.4	8484.2	7474.8	6893.8
17.5°	8751.0	8719.0	8767.8	9022.4	9094.0	8686.9	7871.2	7230.8
20°	8598.6	8109.1	8096.8	8447.6	8970.6	9170.3	8645.8	7877.3
22.5°	8682.4	7889.5	7788.9	8205.2	9036.2	9867.2	9661.4	8784.6
25°	8972.2	7907.7	7827.0	8229.5	9274.0	10609.8	10757.6	9958.7
27.5°	9428.1	8023.7	7916.9	8330.2	9589.6	11233.5	11837.2	11096.3
30°	9861.0	8224.9	8092.3	8528.4	9877.9	11480.5	12499.0	11983.7
32.5°	10387.2	8601.6	8368.2	8892.8	10234.8	11873.9	13089.1	12718.7
35°	10902.6	9138.3	8848.6	9455.6	10632.7	12363.3	13763.2	13658.0
37.5°	11468.3	9839.8	9600.4	10182.9	11177.0	12825.4	14623.1	14758.8
40°	12072.2	10769.9	10486.2	11244.1	12021.8	13404.8	15521.3	15847.6
42.5°	12680.5	11802.1	11463.7	12232.2	12950.4	13976.7	16289.8	16773.2
45°	13377.3	12922.9	12762.9	13593.9	13842.5	14521.0	16857.1	17457.9
47.5°	14188.6	14194.8	14452.4	14784.9	14742.2	15137.0	17427.4	18069.3
50°	15135.4	15782.1	16350.8	16571.9	15669.2	15798.8	18218.8	18888.2
52.5°	16273.1	17680.5	18384.9	18240.1	16667.9	16607.0	19472.1	20016.6
55°	17695.7	19690.1	20390.1	20286.3	17816.2	17707.8	21033.6	21350.8
57.5°	19342.5	21637.3	22280.9	21814.2	19194.6	18915.6	22325.2	22392.2
60°	20789.7	23180.6	23744.8	23227.9	20585.3	20201.1	23131.8	22807.0
62.5°	21594.8	23703.6	24100.1	23543.5	21538.3	21570.3	23308.6	22582.8
65°	21234.9	22381.5	22509.6	22463.9	21292.8	22364.8	22672.8	21547.4
67.5°	19264.8	19039.1	19254.1	19551.4	19188.5	21318.7	20911.5	19292.2
70°	15794.3	14554.5	14983.0	15182.7	15347.4	18345.2	18150.1	15713.4
72.5°	11902.9	10196.6	10535.1	10494.0	11256.3	14714.7	14115.4	11553.7
75°	8433.8	6913.6	6956.3	6939.5	7854.4	11512.5	10220.9	7904.8
77.5°	5901.1	5009.1	5031.9	5126.5	5280.5	8682.4	7302.5	5774.6
80°	4057.6	3801.4	3928.0	3935.6	3659.6	5832.5	5394.9	4634.0
82.5°	3022.2	2642.6	2612.1	2656.3	2868.2	4725.5	4146.1	3214.4
85°	2474.8	1564.5	1258.0	1576.7	2541.9	4679.7	2753.9	1695.6
87.5°	1393.7	742.6	335.4	622.1	1014.0	3098.5	796.0	216.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)