

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: P193066

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193066
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-08-LED-E1-SLR-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 32759.2 lumens
Efficiency: N/A
Efficacy: 98.1 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): 334
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



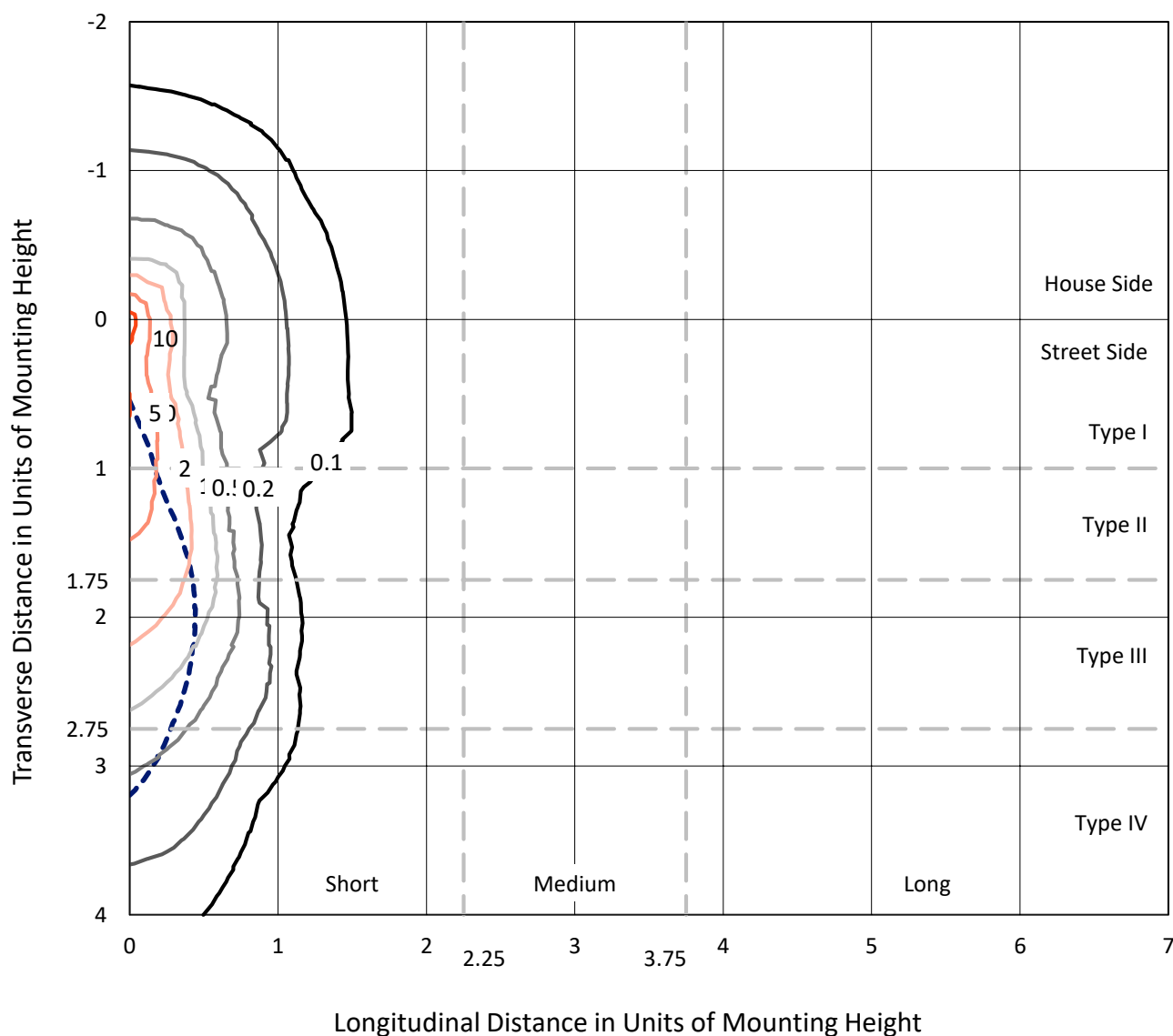
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

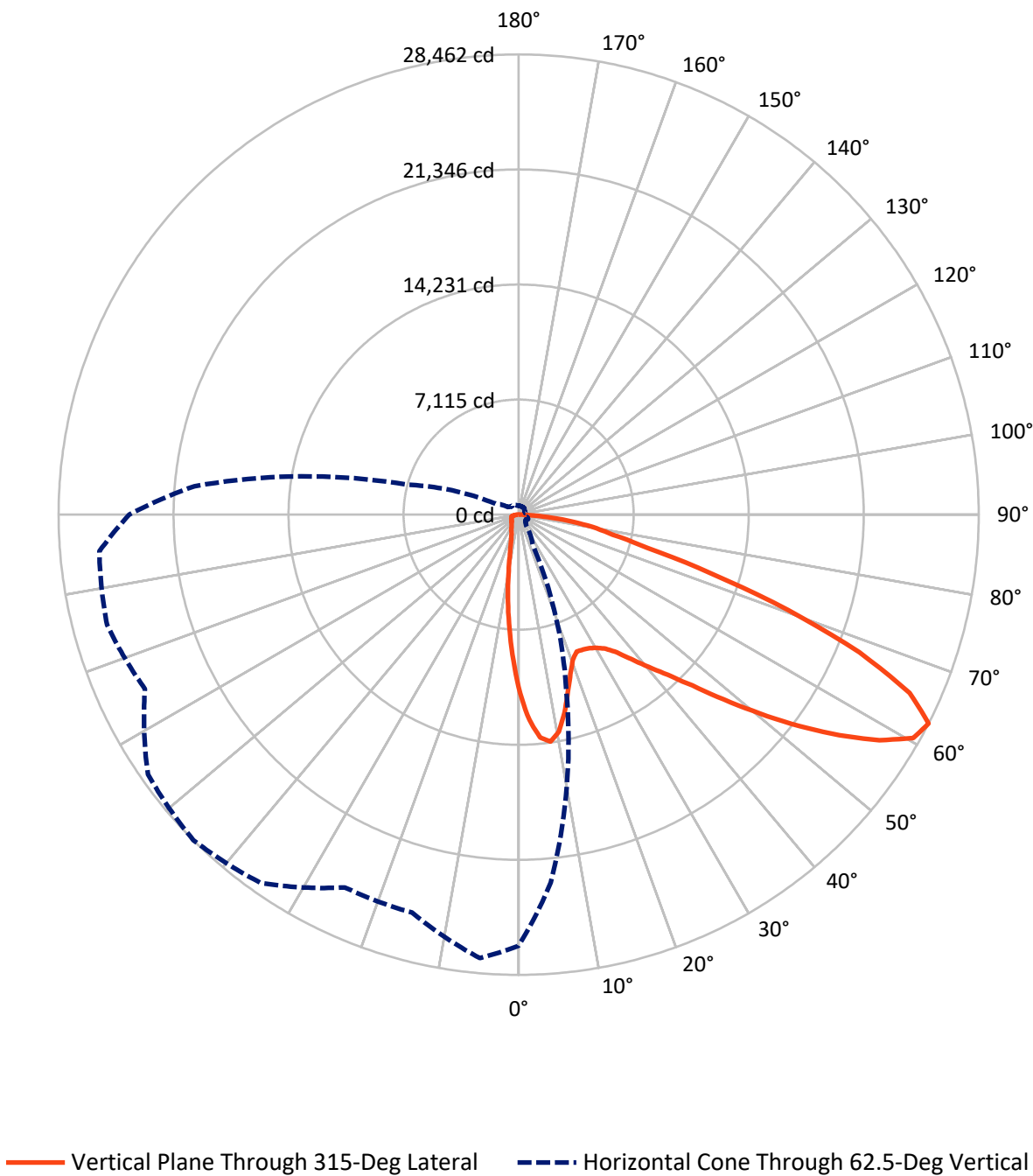


Based on 30 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5421.2	0.0	5421.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	27338.0	0.0	27338.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	32759.2	0.0	32759.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	805.7	2.5
10°-20°	1477.4	4.5
20°-30°	2154.1	6.6
30°-40°	3317.6	10.1
40°-50°	4882.6	14.9
50°-60°	7161.7	21.9
60°-70°	8005.8	24.4
70°-80°	3919.5	12.0
80°-90°	1034.9	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°	32759.2	100.0
0°-180°	32759.2	100.0

Coefficient of Utilization



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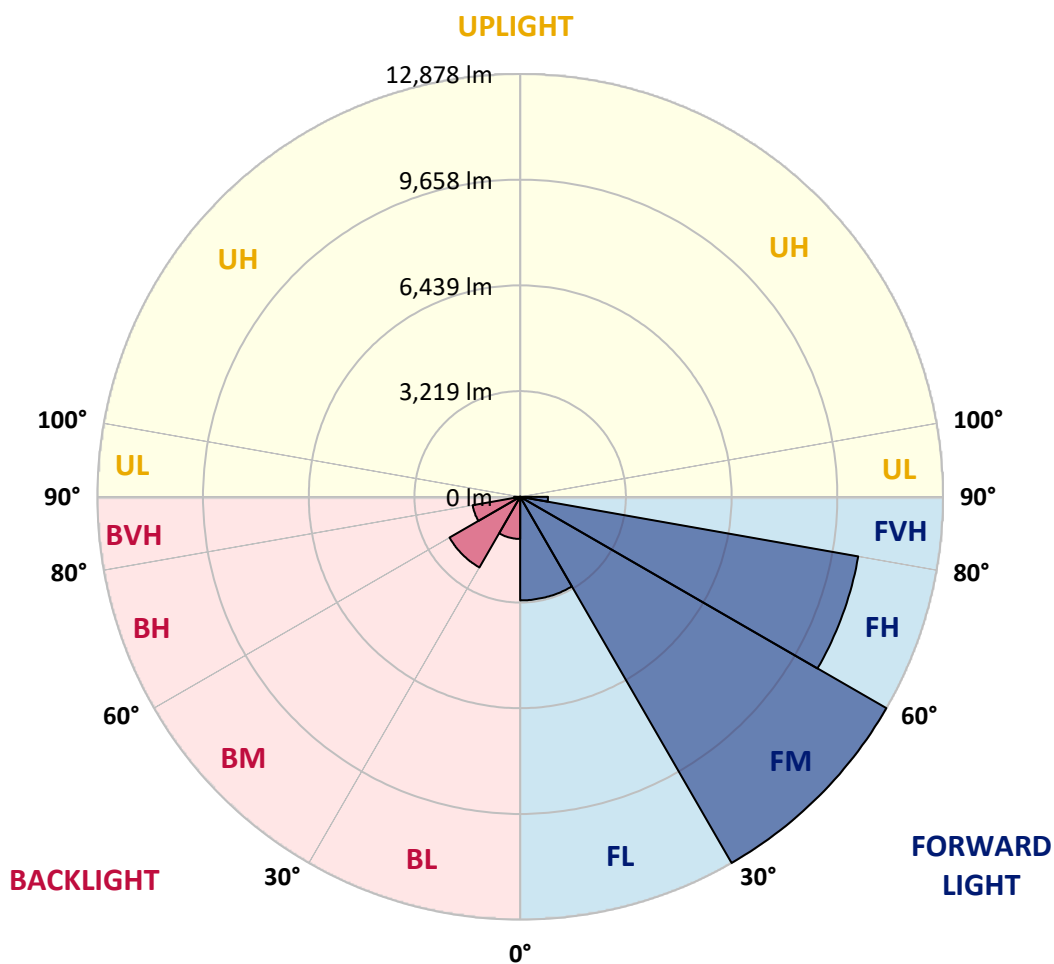
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3154.6	9.6			
FM	(30°-60°)	12877.9	39.3			
FH	(60°-80°)	10455.6	31.9			G4/12000
FVH	(80°-90°)	849.9	2.6			G5
BL	(0°-30°)	1282.6	3.9	B3/2500		
BM	(30°-60°)	2484.0	7.6	B2/2500		
BH	(60°-80°)	1469.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	185.0	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°	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9
2.5°	11500.0	11265.9	10877.0	10471.7	10225.0	9936.9	9711.8	9513.8	9117.5	9040.1	9110.4
5°	10813.9	10343.9	9611.0	8872.6	8380.9	7853.3	7442.7	7113.3	6610.8	6522.6	6628.8
7.5°	9713.5	9151.8	8182.9	7241.0	6545.9	5886.9	5443.9	5090.9	4698.3	4529.1	4539.8
10°	8764.6	8130.6	6985.4	5960.7	5391.6	4946.8	4574.0	4212.2	3814.1	3553.0	3481.0
12.5°	8233.3	7504.0	6184.0	5269.2	4741.6	4273.3	3871.7	3484.6	3059.6	2793.1	2717.4
15°	8141.5	7349.1	5883.3	4826.2	4165.3	3572.8	3099.2	2667.0	2229.4	2013.3	1968.3
17.5°	8539.4	7626.6	5786.1	4431.8	3623.2	2892.1	2310.4	1827.8	1471.2	1363.2	1354.3
20°	9303.0	8159.5	5773.4	4060.8	3088.4	2231.2	1609.9	1258.7	1102.1	1071.5	1073.3
22.5°	10374.5	8986.0	5928.3	3781.7	2596.8	1663.9	1210.1	1053.5	992.3	963.4	963.4
25°	11761.1	10124.2	6284.8	3578.2	2170.0	1329.0	1067.9	974.3	916.5	896.8	900.4
27.5°	13104.5	11231.8	6699.0	3417.9	1890.8	1206.5	1012.1	927.4	877.1	857.1	866.2
30°	14152.6	12214.9	7044.8	3200.1	1748.5	1172.4	1031.9	945.4	873.4	842.8	844.6
32.5°	15020.6	13075.7	7334.7	3043.4	1622.5	1004.8	889.6	851.7	842.8	806.8	788.8
35°	16130.0	14013.9	7529.2	3047.0	1563.1	896.8	792.3	725.7	677.1	635.7	635.7
37.5°	17430.1	15090.9	7736.3	3088.4	1541.5	833.7	758.1	691.5	646.5	606.8	599.8
40°	18715.9	16146.2	7925.4	3128.0	1528.9	796.0	731.2	669.9	628.5	588.9	578.1
42.5°	19809.0	17014.1	8094.7	3147.9	1485.7	792.3	711.3	655.4	615.9	572.6	561.8
45°	20617.5	17741.6	8276.6	3178.5	1442.4	806.8	711.3	653.7	605.1	563.7	552.9
47.5°	21339.7	18595.3	8580.9	3178.5	1390.3	779.8	734.8	655.4	603.2	560.1	551.1
50°	22306.7	19765.8	9157.1	3104.6	1316.3	750.9	774.3	648.4	587.0	552.9	542.0
52.5°	23639.4	21265.9	10071.9	2976.8	1203.0	695.1	768.9	644.7	570.9	534.9	522.3
55°	25215.1	22872.3	11069.6	2827.3	1033.7	655.4	742.0	635.7	552.9	513.2	500.6
57.5°	26445.0	23977.9	11771.9	2596.8	886.0	633.9	657.3	626.7	531.2	489.8	479.0
60°	26934.8	23934.7	11964.7	2288.9	814.0	615.9	574.4	702.3	513.2	471.8	459.2
62.5°	26670.0	22828.9	11424.3	2072.7	797.8	592.5	538.4	650.1	498.9	459.2	441.2
65°	25447.3	20869.7	9992.8	2015.1	844.6	569.0	515.0	509.5	479.0	441.2	423.2
67.5°	22784.0	17941.6	8001.0	2020.5	904.0	545.6	491.6	466.4	452.0	421.4	405.2
70°	18557.4	14185.0	5964.4	2035.0	934.6	518.7	466.4	439.4	423.2	392.6	381.8
72.5°	13644.9	10932.8	4332.7	1941.3	940.0	488.1	432.2	408.7	392.6	360.1	351.2
75°	9335.4	8363.0	3005.6	1608.1	819.3	444.8	394.4	372.8	361.9	322.4	317.0
77.5°	6819.8	6277.6	1923.3	1193.9	632.1	390.8	347.6	331.4	324.2	280.9	273.7
80°	5472.7	4966.7	1203.0	817.6	462.8	327.8	291.7	282.8	275.6	232.2	226.9
82.5°	3796.1	3326.1	772.6	531.2	347.6	253.9	230.5	226.9	216.2	176.5	171.1
85°	2002.5	1806.3	489.8	361.9	252.1	174.7	160.3	160.3	154.8	117.0	113.4
87.5°	255.6	415.9	248.6	189.1	138.6	77.5	77.5	75.6	81.1	66.6	57.6
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°	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9
2.5°	8944.6	9031.2	8948.3	8953.7	9045.5	9319.3	9443.5	9546.1	9656.0	9728.0	9760.4
5°	6482.9	6684.6	6753.1	6897.1	7109.6	7459.0	7597.7	7698.5	7765.2	7804.7	7821.0
7.5°	4433.6	4556.1	4692.9	4925.2	5388.0	5593.3	5685.2	5661.9	5586.1	5559.1	5532.2
10°	3342.3	3293.7	3268.5	3396.4	3770.9	3978.0	4042.8	3979.8	3938.4	3947.4	3992.5
12.5°	2589.6	2505.0	2402.3	2387.9	2634.6	2820.1	2861.5	2865.1	2940.7	3007.4	3106.5
15°	1887.2	1878.2	1827.8	1797.2	1937.7	2088.9	2106.9	2139.4	2207.8	2256.4	2342.8
17.5°	1330.8	1379.4	1419.1	1438.8	1545.2	1653.2	1633.3	1617.1	1604.6	1604.6	1646.0
20°	1073.3	1105.7	1156.1	1213.8	1321.8	1397.4	1348.8	1284.1	1237.2	1222.7	1228.2
22.5°	967.1	992.3	1021.0	1071.5	1168.7	1221.0	1168.7	1121.9	1075.1	1058.8	1053.5
25°	913.0	945.4	972.4	1010.2	1082.3	1118.3	1067.9	1033.7	1004.8	985.1	970.7
27.5°	882.4	911.2	918.5	936.5	997.6	1030.1	1004.8	990.4	972.4	954.4	936.5
30°	850.0	844.6	832.0	833.7	882.4	914.8	913.0	916.5	914.8	909.4	905.8
32.5°	776.2	765.4	754.6	765.4	810.3	839.2	841.0	848.2	848.2	846.4	860.8
35°	646.5	666.3	678.9	711.3	765.4	790.6	779.8	761.7	729.3	709.5	707.7
37.5°	597.8	601.5	623.1	668.1	727.5	750.9	734.8	693.4	671.7	668.1	673.5
40°	574.4	578.1	590.6	632.1	691.5	714.9	700.6	669.9	650.1	648.4	657.3
42.5°	558.2	561.8	569.0	597.8	646.5	675.3	677.1	655.4	632.1	633.9	642.9
45°	549.2	551.1	549.2	563.7	608.7	642.9	657.3	642.9	623.1	626.7	637.5
47.5°	547.5	542.0	534.9	538.4	585.3	619.5	637.5	632.1	623.1	626.7	635.7
50°	540.3	527.6	518.7	516.8	563.7	599.8	615.9	615.9	619.5	626.7	635.7
52.5°	518.7	504.2	504.2	498.9	549.2	583.5	594.3	596.1	601.5	614.0	626.7
55°	491.6	486.2	491.6	482.6	538.4	570.9	576.3	579.8	583.5	594.3	612.3
57.5°	468.1	461.0	473.6	470.1	529.5	558.2	558.2	565.4	565.4	579.8	594.3
60°	455.6	441.2	446.7	450.2	516.8	547.5	543.9	551.1	554.6	567.3	578.1
62.5°	439.4	426.7	426.7	435.8	502.4	531.2	529.5	534.9	549.2	552.9	563.7
65°	419.5	414.2	408.7	419.5	488.1	513.2	515.0	522.3	534.9	538.4	547.5
67.5°	399.8	401.5	390.8	401.5	475.4	495.3	495.3	509.5	515.0	522.3	531.2
70°	378.1	380.0	370.9	383.6	466.4	475.4	473.6	493.5	497.0	502.4	511.5
72.5°	351.2	351.2	347.6	365.6	452.0	455.6	452.0	468.1	470.1	475.4	479.0
75°	322.4	322.4	318.7	343.9	443.0	434.0	423.2	435.8	439.4	443.0	443.0
77.5°	284.5	288.1	288.1	318.7	412.4	425.0	389.0	396.2	401.5	403.3	398.0
80°	237.7	246.7	250.3	290.0	345.8	392.6	347.6	352.9	354.8	354.8	347.6
82.5°	181.9	198.1	207.0	250.3	264.7	329.5	302.5	307.9	302.5	291.7	288.1
85°	126.0	147.7	158.4	190.8	200.0	253.9	252.1	252.1	241.4	226.9	225.1
87.5°	68.4	81.1	88.3	113.4	136.9	171.1	185.5	180.1	171.1	162.0	163.9
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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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9
2.5°	9929.7	10174.7	10565.4	10864.3	11165.1	11455.0	11768.4	12007.8	12211.4	12290.6	12531.9
5°	7984.7	8290.9	8660.1	9326.5	9798.3	10318.7	10920.1	11716.1	12022.3	12445.4	13138.8
7.5°	5645.5	5922.8	6517.2	7055.6	7723.7	8460.3	9272.4	10370.9	10772.5	11451.4	12580.5
10°	4215.7	4538.1	5015.3	5469.1	6058.0	6810.6	7743.5	8971.8	9459.6	10196.2	11496.4
12.5°	3396.4	3776.3	4282.3	4709.2	5164.8	5696.0	6601.8	7948.8	8602.5	9247.1	10561.8
15°	2609.4	3007.4	3477.4	4019.4	4521.8	5094.5	6043.5	7516.6	8269.4	8941.0	10063.0
17.5°	1806.3	2146.6	2739.0	3304.5	3947.4	4680.3	5888.6	7608.5	8507.0	9281.5	10149.4
20°	1280.4	1474.9	1961.1	2616.5	3417.9	4338.1	5859.9	8091.0	9259.8	10143.9	10704.0
22.5°	1076.9	1149.0	1431.7	2033.1	2958.7	4082.5	5960.7	8768.2	10275.5	11404.6	11588.2
25°	981.4	1024.7	1172.4	1595.5	2550.0	3897.0	6301.1	9776.6	11532.5	12665.2	12632.8
27.5°	929.2	974.3	1071.5	1347.0	2242.0	3781.7	6641.5	10972.4	12969.5	14033.8	13630.4
30°	913.0	974.3	1076.9	1269.6	2022.3	3599.9	6920.6	12022.3	14075.3	14957.6	14084.2
32.5°	900.4	909.4	956.2	1094.9	1813.3	3387.4	7109.6	12964.0	15157.4	15836.4	14737.9
35°	727.5	772.6	848.2	981.4	1691.0	3259.5	7109.6	13776.3	16223.6	16724.2	15361.0
37.5°	700.6	740.1	806.8	920.2	1622.5	3196.5	6967.4	14559.6	17313.1	17730.8	15874.2
40°	686.1	718.5	781.5	873.4	1593.8	3124.4	6760.3	15251.2	18377.3	18739.3	16353.3
42.5°	675.3	704.0	763.5	844.6	1555.9	3045.2	6592.8	15805.8	19301.2	19600.1	16810.6
45°	669.9	700.6	765.4	859.0	1480.3	2940.7	6537.0	16405.5	20061.1	20318.6	17305.9
47.5°	669.9	706.0	774.3	889.6	1390.3	2832.6	6711.7	17196.0	20779.6	20905.6	17889.3
50°	664.6	704.0	799.6	859.0	1258.7	2695.9	7122.3	18191.8	21557.6	21572.0	18627.6
52.5°	653.7	700.6	860.8	841.0	1107.5	2515.7	7676.9	19470.4	22708.3	22794.8	19783.8
55°	641.2	695.1	844.6	799.6	983.3	2301.4	8130.6	21024.5	24325.5	24565.0	21483.7
57.5°	624.9	687.9	817.6	742.0	902.3	2025.8	8294.5	22162.7	25454.5	26056.0	23399.8
60°	610.4	682.6	738.4	707.7	851.7	1793.6	7977.7	21937.5	25377.1	26673.7	25098.0
62.5°	596.1	687.9	673.5	686.1	828.4	1644.2	7149.3	20135.0	24093.1	26036.3	26356.7
65°	579.8	639.2	635.7	668.1	822.9	1584.7	5926.4	17431.9	21611.6	24021.0	26653.9
67.5°	558.2	590.6	608.7	644.7	841.0	1532.5	4783.0	14379.5	18163.0	21001.2	25105.1
70°	534.9	561.8	581.7	615.9	830.2	1509.1	3978.0	11339.8	14412.0	17212.2	22049.2
72.5°	504.2	527.6	545.6	578.1	819.3	1496.6	3360.4	9132.0	10759.9	12785.8	17927.1
75°	468.1	489.8	502.4	534.9	785.1	1370.4	2641.8	7727.4	8051.5	8894.2	14278.6
77.5°	426.7	443.0	453.8	489.8	695.1	1139.9	1910.6	5960.7	6252.5	6457.8	10947.1
80°	378.1	394.4	399.8	434.0	576.3	891.4	1246.2	4403.0	4676.8	4723.5	7149.3
82.5°	322.4	338.6	338.6	370.9	471.8	641.2	817.6	3016.3	3070.4	3228.8	5053.1
85°	259.3	271.9	271.9	288.1	365.6	479.0	561.8	1514.5	1498.3	1710.8	4377.8
87.5°	185.5	194.5	203.4	207.0	261.1	317.0	338.6	461.0	304.3	349.4	2811.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P193066

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9	11067.9
2.5°	12713.7	12816.4	12712.0	12636.4	12310.4	12042.1	11683.7	11500.0
5°	13666.3	13927.5	13839.4	13522.4	12841.7	12076.3	11206.5	10813.9
7.5°	13551.1	14158.1	14172.4	13580.0	12577.0	11449.6	10271.9	9713.5
10°	12654.3	13430.4	13652.0	13077.6	12013.3	10752.6	9402.1	8764.6
12.5°	11653.0	12413.1	12582.3	12384.2	11494.6	10228.7	8858.2	8233.3
15°	10833.7	11174.1	11375.7	11548.6	11049.8	10019.7	8827.6	8141.5
17.5°	10335.0	10297.0	10354.7	10655.4	10740.0	10259.2	9295.8	8539.4
20°	10154.8	9576.8	9562.4	9976.6	10594.3	10830.1	10210.6	9303.0
22.5°	10253.9	9317.4	9198.5	9690.2	10671.7	11653.0	11410.0	10374.5
25°	10596.0	9339.1	9243.6	9719.0	10952.5	12530.1	12704.7	11761.1
27.5°	11134.5	9475.9	9349.9	9837.8	11325.4	13266.6	13979.7	13104.5
30°	11645.8	9713.5	9556.9	10071.9	11665.7	13558.3	14761.3	14152.6
32.5°	12267.2	10158.4	9882.9	10502.3	12087.2	14023.0	15458.2	15020.6
35°	12875.8	10792.3	10450.1	11166.9	12557.0	14601.1	16254.2	16130.0
37.5°	13544.0	11620.7	11338.0	12025.8	13199.9	15146.7	17269.8	17430.1
40°	14257.0	12719.2	12384.2	13279.3	14197.7	15831.0	18330.5	18715.9
42.5°	14975.6	13938.3	13538.6	14446.1	15294.3	16506.4	19238.2	19809.0
45°	15798.6	15261.9	15072.9	16054.3	16347.8	17149.3	19908.0	20617.5
47.5°	16756.6	16763.7	17068.2	17460.7	17410.4	17876.7	20581.5	21339.7
50°	17875.0	18638.4	19310.2	19571.3	18505.2	18658.3	21516.2	22306.7
52.5°	19218.3	20880.4	21712.4	21541.3	19684.7	19612.7	22996.5	23639.4
55°	20898.4	23253.9	24080.5	23958.1	21040.7	20912.9	24840.5	25215.1
57.5°	22843.4	25553.5	26313.6	25762.5	22668.7	22339.1	26365.8	26445.0
60°	24552.3	27376.0	28042.4	27431.8	24311.1	23857.2	27318.4	26934.8
62.5°	25503.2	27993.8	28461.9	27804.7	25436.5	25474.4	27527.4	26670.0
65°	25078.2	26432.4	26583.7	26529.7	25146.6	26412.6	26776.3	25447.3
67.5°	22751.5	22485.0	22738.9	23090.1	22661.5	25177.2	24696.4	22784.0
70°	18652.8	17188.7	17694.9	17930.7	18125.2	21665.7	21435.1	18557.4
72.5°	14057.2	12042.1	12441.9	12393.3	13293.7	17377.9	16670.1	13644.9
75°	9960.3	8165.0	8215.3	8195.5	9276.0	13596.2	12070.9	9335.4
77.5°	6969.2	5915.8	5942.7	6054.4	6236.2	10253.9	8624.2	6819.8
80°	4792.0	4489.5	4638.9	4647.9	4322.0	6888.1	6371.4	5472.7
82.5°	3569.2	3120.8	3084.8	3137.1	3387.4	5580.8	4896.5	3796.1
85°	2922.6	1847.7	1485.7	1862.0	3002.0	5526.7	3252.3	2002.5
87.5°	1646.0	877.1	396.2	734.8	1197.6	3659.3	940.0	255.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)