

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: P194664

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194664
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-06-LED-E1-SLR-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 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: 25278 lumens
Efficiency: N/A
Efficacy: 101.5 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): 249
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



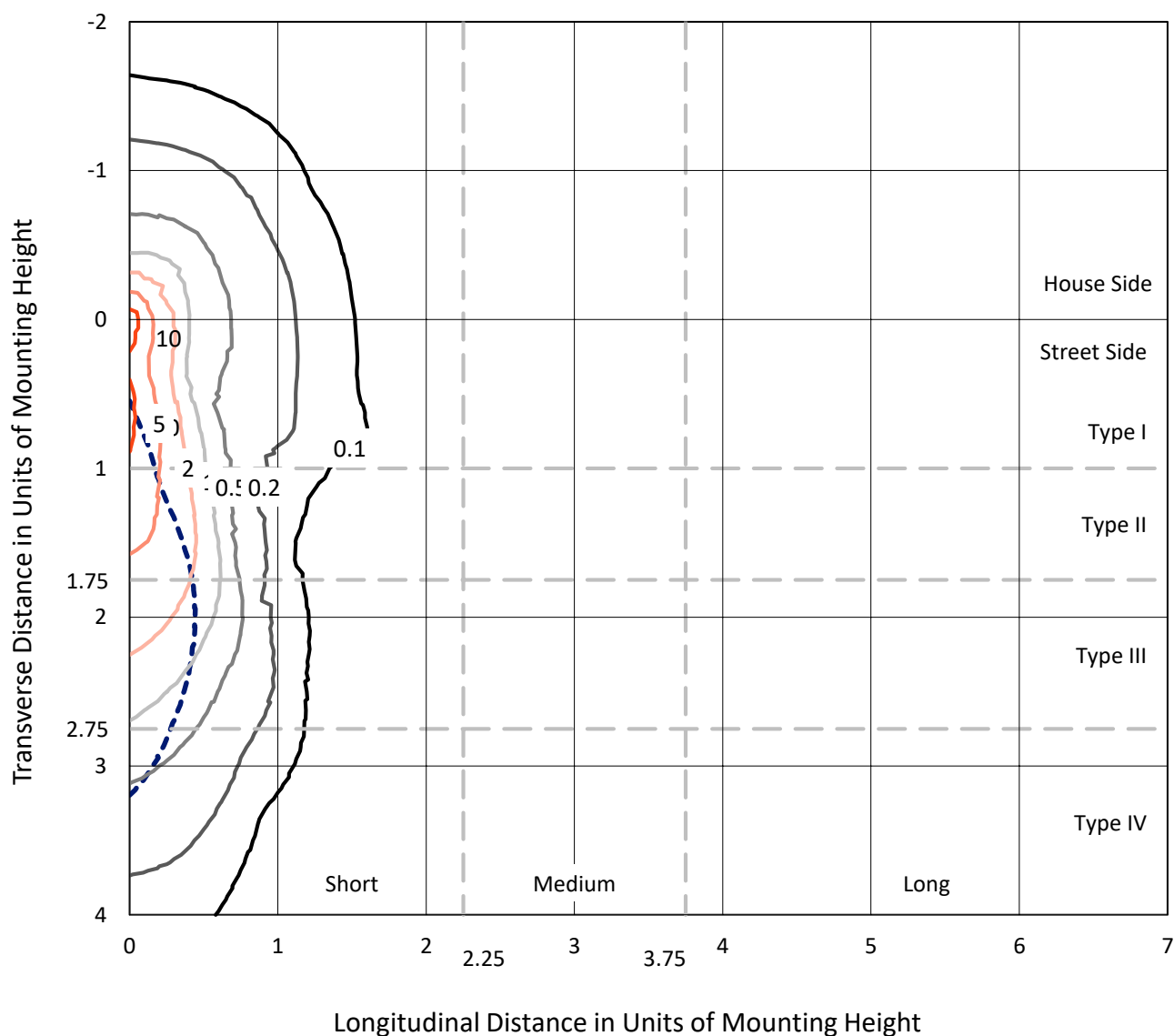
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

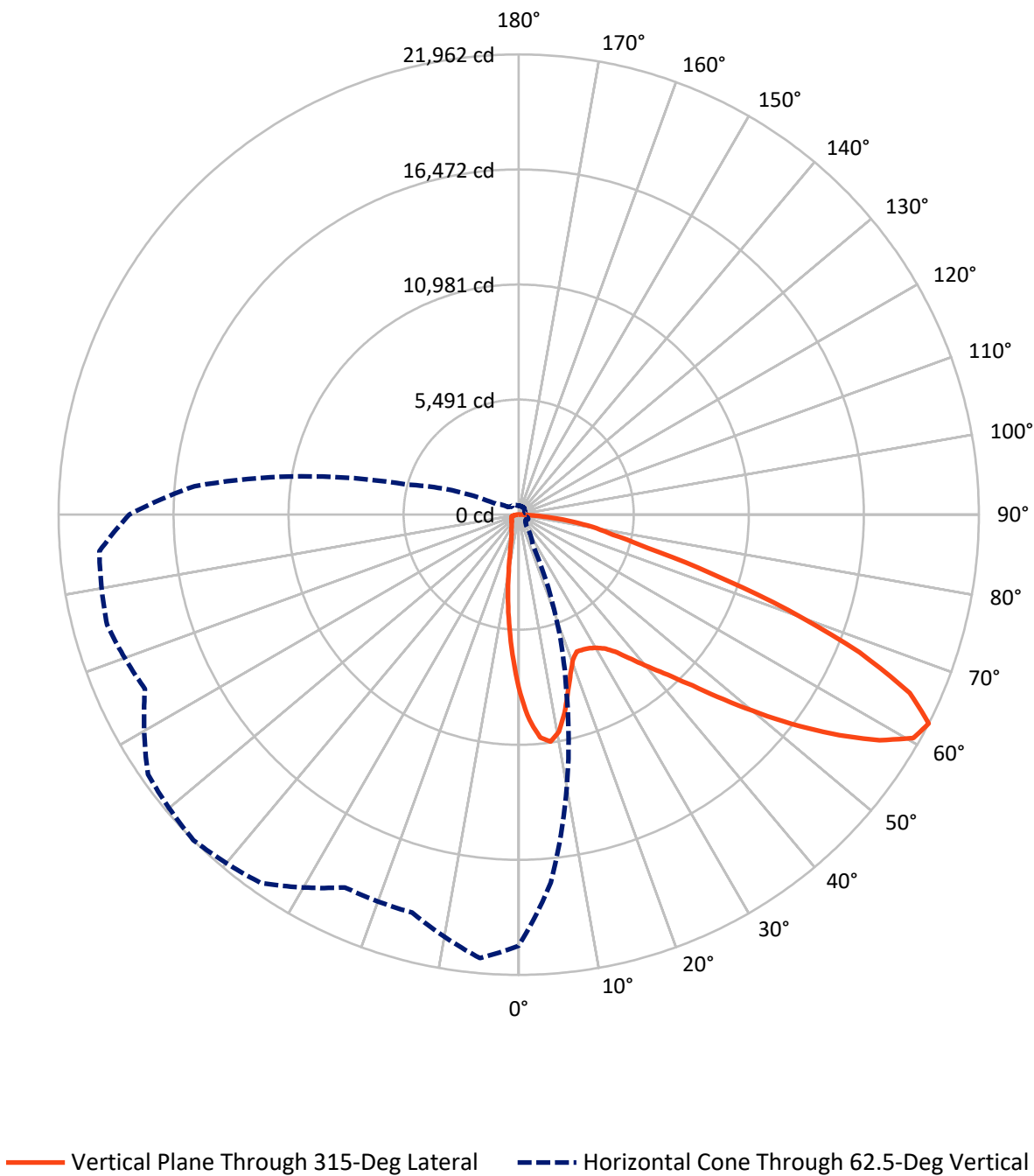


Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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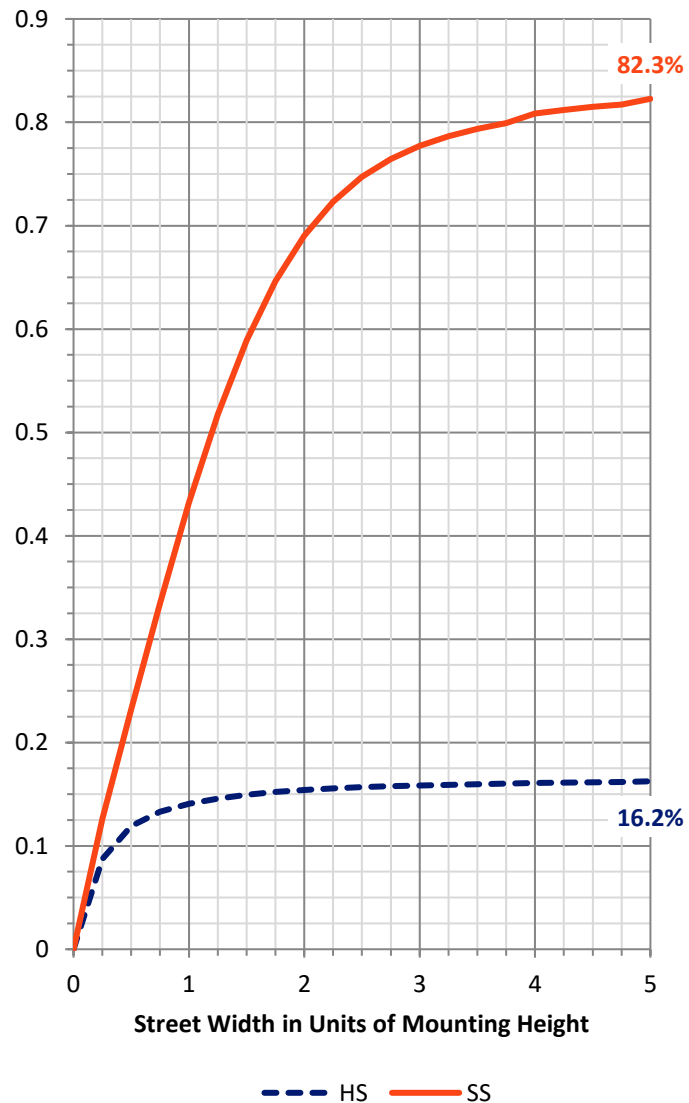
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4183.2	0.0	4183.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21094.8	0.0	21094.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	25278.0	0.0	25278.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.7	2.5
10°-20°	1140.0	4.5
20°-30°	1662.1	6.6
30°-40°	2559.9	10.1
40°-50°	3767.6	14.9
50°-60°	5526.2	21.9
60°-70°	6177.5	24.4
70°-80°	3024.4	12.0
80°-90°	798.5	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°	25278.0	100.0
0°-180°	25278.0	100.0

Coefficient of Utilization



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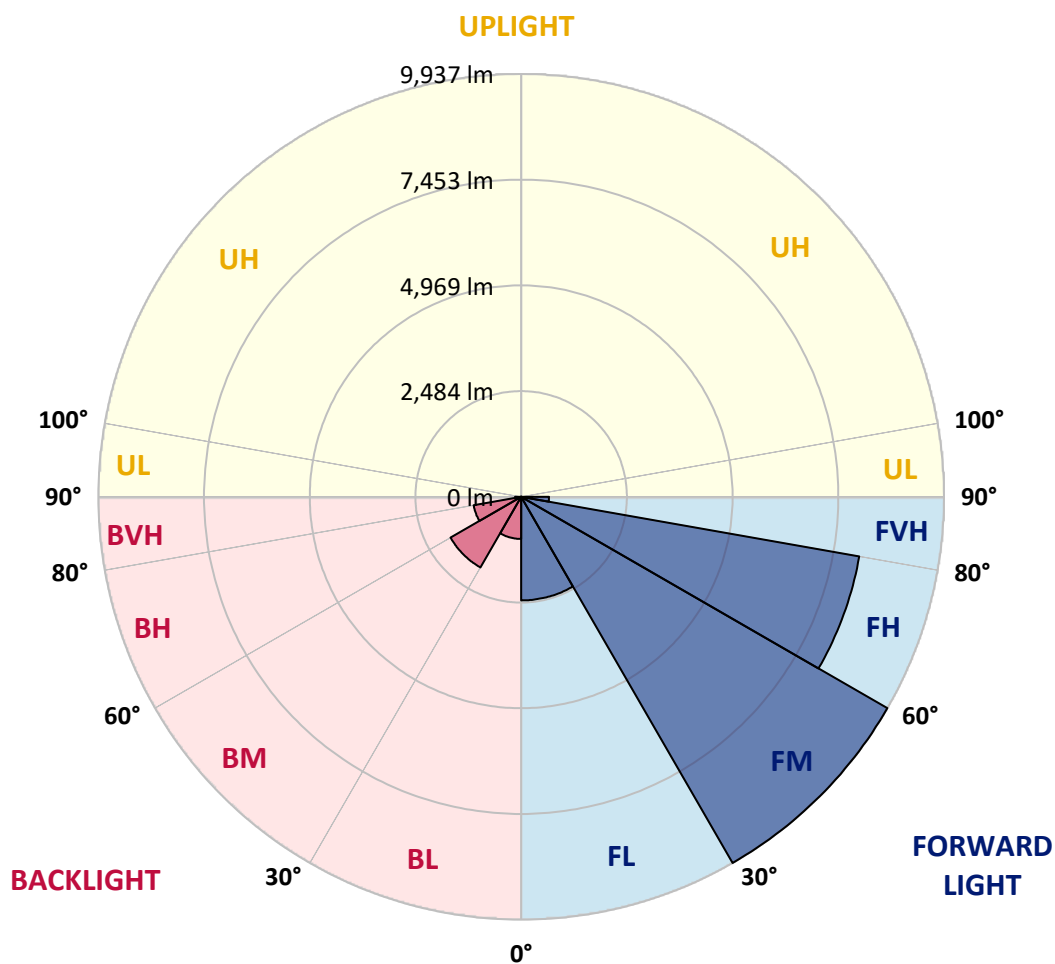
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2434.2	9.6			
FM	(30°-60°)	9937.0	39.3			
FH	(60°-80°)	8067.9	31.9			G4/12000
FVH	(80°-90°)	655.8	2.6			G4/750
BL	(0°-30°)	989.7	3.9	B2/1000		
BM	(30°-60°)	1916.7	7.6	B2/2500		
BH	(60°-80°)	1134.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	142.7	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°	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3
2.5°	8873.8	8693.1	8393.0	8080.3	7890.0	7667.6	7493.9	7341.1	7035.4	6975.6	7029.8
5°	8344.3	7981.7	7416.1	6846.4	6467.0	6059.9	5743.1	5488.8	5101.1	5033.0	5115.0
7.5°	7495.3	7061.8	6314.2	5587.4	5051.1	4542.5	4200.7	3928.3	3625.4	3494.8	3503.1
10°	6763.0	6273.9	5390.1	4599.5	4160.4	3817.1	3529.5	3250.2	2943.1	2741.6	2686.0
12.5°	6353.1	5790.3	4771.8	4065.9	3658.7	3297.4	2987.6	2688.8	2360.9	2155.2	2096.9
15°	6282.2	5670.8	4539.7	3724.0	3214.1	2756.9	2391.4	2057.9	1720.3	1553.5	1518.8
17.5°	6589.3	5884.8	4464.7	3419.7	2795.8	2231.6	1782.8	1410.4	1135.3	1051.9	1045.0
20°	7178.5	6296.1	4454.9	3133.5	2383.1	1721.7	1242.3	971.3	850.4	826.8	828.2
22.5°	8005.3	6933.9	4574.4	2918.1	2003.8	1284.0	933.8	812.9	765.7	743.4	743.4
25°	9075.3	7812.1	4849.6	2761.1	1674.4	1025.5	824.0	751.8	707.3	692.0	694.8
27.5°	10111.9	8666.7	5169.2	2637.4	1459.0	931.0	780.9	715.6	676.7	661.4	668.4
30°	10920.6	9425.4	5436.0	2469.3	1349.3	904.6	796.2	729.5	673.9	650.3	651.7
32.5°	11590.4	10089.6	5659.7	2348.4	1252.0	775.4	686.4	657.3	650.3	622.5	608.6
35°	12446.3	10813.6	5809.8	2351.1	1206.1	692.0	611.4	560.0	522.5	490.5	490.5
37.5°	13449.6	11644.6	5969.6	2383.1	1189.5	643.4	585.0	533.6	498.9	468.3	462.7
40°	14441.8	12458.8	6115.5	2413.7	1179.7	614.2	564.2	516.9	485.0	454.4	446.1
42.5°	15285.2	13128.6	6246.1	2429.0	1146.4	611.4	548.9	505.8	475.2	441.9	433.5
45°	15909.1	13690.0	6386.4	2452.6	1113.0	622.5	548.9	504.4	466.9	434.9	426.6
47.5°	16466.4	14348.7	6621.3	2452.6	1072.7	601.7	566.9	505.8	465.5	432.2	425.2
50°	17212.5	15251.9	7065.9	2395.6	1015.8	579.4	597.5	500.2	453.0	426.6	418.3
52.5°	18240.8	16409.4	7771.8	2297.0	928.2	536.4	593.3	497.5	440.5	412.7	403.0
55°	19456.7	17648.9	8541.7	2181.6	797.6	505.8	572.5	490.5	426.6	396.0	386.3
57.5°	20405.8	18502.1	9083.6	2003.8	683.7	489.1	507.2	483.6	409.9	378.0	369.6
60°	20783.7	18468.7	9232.3	1766.1	628.1	475.2	443.3	541.9	396.0	364.1	354.3
62.5°	20579.5	17615.5	8815.4	1599.4	615.6	457.2	415.5	501.6	384.9	354.3	340.4
65°	19636.0	16103.7	7710.7	1554.9	651.7	439.1	397.4	393.2	369.6	340.4	326.5
67.5°	17580.8	13844.2	6173.8	1559.1	697.6	421.0	379.4	359.9	348.8	325.2	312.7
70°	14319.5	10945.6	4602.2	1570.2	721.2	400.2	359.9	339.1	326.5	302.9	294.6
72.5°	10528.7	8436.1	3343.3	1498.0	725.4	376.6	333.5	315.4	302.9	277.9	271.0
75°	7203.5	6453.1	2319.2	1240.9	632.3	343.2	304.3	287.6	279.3	248.7	244.6
77.5°	5262.3	4844.0	1484.1	921.3	487.7	301.5	268.2	255.7	250.1	216.8	211.2
80°	4222.9	3832.4	928.2	630.9	357.1	252.9	225.1	218.2	212.6	179.3	175.1
82.5°	2929.2	2566.5	596.1	409.9	268.2	195.9	177.9	175.1	166.7	136.2	132.0
85°	1545.2	1393.7	378.0	279.3	194.5	134.8	123.7	123.7	119.5	90.3	87.5
87.5°	197.3	321.0	191.8	145.9	107.0	59.8	59.8	58.4	62.5	51.4	44.5
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°	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3
2.5°	6902.0	6968.7	6904.8	6908.9	6979.8	7191.0	7286.9	7366.1	7450.9	7506.4	7531.4
5°	5002.4	5158.1	5210.9	5322.0	5486.0	5755.6	5862.6	5940.4	5991.8	6022.4	6034.9
7.5°	3421.1	3515.6	3621.2	3800.5	4157.6	4316.0	4386.9	4368.8	4310.4	4289.6	4268.7
10°	2579.0	2541.5	2522.1	2620.7	2909.8	3069.6	3119.6	3070.9	3039.0	3045.9	3080.7
12.5°	1998.2	1932.9	1853.7	1842.6	2032.9	2176.1	2208.0	2210.8	2269.2	2320.6	2397.0
15°	1456.3	1449.3	1410.4	1386.8	1495.2	1611.9	1625.8	1650.8	1703.6	1741.1	1807.8
17.5°	1026.9	1064.4	1095.0	1110.3	1192.2	1275.6	1260.3	1247.8	1238.1	1238.1	1270.1
20°	828.2	853.2	892.1	936.6	1019.9	1078.3	1040.8	990.8	954.6	943.5	947.7
22.5°	746.2	765.7	787.9	826.8	901.8	942.1	901.8	865.7	829.6	817.1	812.9
25°	704.5	729.5	750.4	779.5	835.1	862.9	824.0	797.6	775.4	760.1	749.0
27.5°	680.9	703.1	708.7	722.6	769.8	794.8	775.4	764.3	750.4	736.5	722.6
30°	655.9	651.7	642.0	643.4	680.9	705.9	704.5	707.3	705.9	701.7	699.0
32.5°	598.9	590.6	582.2	590.6	625.3	647.5	648.9	654.5	654.5	653.1	664.2
35°	498.9	514.1	523.9	548.9	590.6	610.0	601.7	587.8	562.8	547.5	546.1
37.5°	461.3	464.1	480.8	515.5	561.4	579.4	566.9	535.0	518.3	515.5	519.7
40°	443.3	446.1	455.8	487.7	533.6	551.7	540.5	516.9	501.6	500.2	507.2
42.5°	430.8	433.5	439.1	461.3	498.9	521.1	522.5	505.8	487.7	489.1	496.1
45°	423.8	425.2	423.8	434.9	469.7	496.1	507.2	496.1	480.8	483.6	491.9
47.5°	422.4	418.3	412.7	415.5	451.6	478.0	491.9	487.7	480.8	483.6	490.5
50°	416.9	407.1	400.2	398.8	434.9	462.7	475.2	475.2	478.0	483.6	490.5
52.5°	400.2	389.1	389.1	384.9	423.8	450.2	458.6	459.9	464.1	473.8	483.6
55°	379.4	375.2	379.4	372.4	415.5	440.5	444.7	447.4	450.2	458.6	472.5
57.5°	361.3	355.7	365.5	362.7	408.5	430.8	430.8	436.3	436.3	447.4	458.6
60°	351.6	340.4	344.6	347.4	398.8	422.4	419.6	425.2	428.0	437.7	446.1
62.5°	339.1	329.3	329.3	336.3	387.7	409.9	408.5	412.7	423.8	426.6	434.9
65°	323.8	319.6	315.4	323.8	376.6	396.0	397.4	403.0	412.7	415.5	422.4
67.5°	308.5	309.9	301.5	309.9	366.8	382.1	382.1	393.2	397.4	403.0	409.9
70°	291.8	293.2	286.3	296.0	359.9	366.8	365.5	380.7	383.5	387.7	394.6
72.5°	271.0	271.0	268.2	282.1	348.8	351.6	348.8	361.3	362.7	366.8	369.6
75°	248.7	248.7	246.0	265.4	341.8	334.9	326.5	336.3	339.1	341.8	341.8
77.5°	219.6	222.3	222.3	246.0	318.2	327.9	300.1	305.7	309.9	311.3	307.1
80°	183.4	190.4	193.1	223.7	266.8	302.9	268.2	272.4	273.7	273.7	268.2
82.5°	140.3	152.9	159.8	193.1	204.3	254.3	233.4	237.6	233.4	225.1	222.3
85°	97.3	113.9	122.3	147.3	154.2	195.9	194.5	194.5	186.2	175.1	173.7
87.5°	52.8	62.5	68.1	87.5	105.6	132.0	143.1	139.0	132.0	125.1	126.5
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°	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3
2.5°	7662.1	7851.0	8152.6	8383.2	8615.3	8839.0	9080.8	9265.6	9422.6	9483.8	9670.0
5°	6161.3	6397.6	6682.4	7196.6	7560.6	7962.2	8426.3	9040.5	9276.7	9603.3	10138.3
7.5°	4356.3	4570.3	5028.8	5444.3	5959.8	6528.2	7154.9	8002.5	8312.4	8836.2	9707.5
10°	3253.0	3501.7	3869.9	4220.1	4674.5	5255.3	5975.1	6922.8	7299.4	7867.7	8871.0
12.5°	2620.7	2913.9	3304.4	3633.7	3985.3	4395.2	5094.1	6133.5	6638.0	7135.4	8149.8
15°	2013.5	2320.6	2683.3	3101.5	3489.2	3931.1	4663.4	5800.0	6380.9	6899.2	7764.9
17.5°	1393.7	1656.4	2113.5	2549.9	3045.9	3611.5	4543.9	5870.9	6564.3	7161.8	7831.6
20°	988.0	1138.1	1513.2	2019.0	2637.4	3347.5	4521.6	6243.3	7145.1	7827.4	8259.6
22.5°	831.0	886.5	1104.7	1568.8	2283.1	3150.1	4599.5	6765.8	7928.9	8800.1	8941.9
25°	757.3	790.7	904.6	1231.2	1967.6	3007.0	4862.1	7544.0	8898.8	9772.8	9747.8
27.5°	717.0	751.8	826.8	1039.4	1730.0	2918.1	5124.7	8466.6	10007.7	10828.9	10517.6
30°	704.5	751.8	831.0	979.6	1560.5	2777.7	5340.1	9276.7	10860.8	11541.7	10867.8
32.5°	694.8	701.7	737.9	844.9	1399.3	2613.8	5486.0	10003.5	11696.0	12219.8	11372.2
35°	561.4	596.1	654.5	757.3	1304.8	2515.1	5486.0	10630.2	12518.6	12904.9	11853.0
37.5°	540.5	571.1	622.5	710.1	1252.0	2466.5	5376.2	11234.6	13359.3	13681.7	12249.0
40°	529.4	554.4	603.1	673.9	1229.8	2410.9	5216.4	11768.2	14180.5	14459.8	12618.6
42.5°	521.1	543.3	589.2	651.7	1200.6	2349.8	5087.2	12196.2	14893.4	15124.0	12971.6
45°	516.9	540.5	590.6	662.8	1142.2	2269.2	5044.1	12658.9	15479.8	15678.5	13353.7
47.5°	516.9	544.7	597.5	686.4	1072.7	2185.8	5178.9	13269.0	16034.2	16131.5	13803.9
50°	512.7	543.3	617.0	662.8	971.3	2080.2	5495.7	14037.4	16634.5	16645.6	14373.7
52.5°	504.4	540.5	664.2	648.9	854.6	1941.2	5923.7	15024.0	17522.4	17589.1	15265.8
55°	494.7	536.4	651.7	617.0	758.7	1775.9	6273.9	16223.2	18770.3	18955.1	16577.5
57.5°	482.2	530.8	630.9	572.5	696.2	1563.3	6400.3	17101.4	19641.5	20105.6	18056.0
60°	471.1	526.6	569.7	546.1	657.3	1384.0	6155.8	16927.7	19581.8	20582.2	19366.4
62.5°	459.9	530.8	519.7	529.4	639.2	1268.7	5516.6	15536.7	18591.0	20090.3	20337.7
65°	447.4	493.3	490.5	515.5	635.0	1222.8	4573.1	13451.0	16676.2	18535.4	20567.0
67.5°	430.8	455.8	469.7	497.5	648.9	1182.5	3690.7	11095.7	14015.2	16205.1	19371.9
70°	412.7	433.5	448.8	475.2	640.6	1164.5	3069.6	8750.1	11120.7	13281.5	17013.8
72.5°	389.1	407.1	421.0	446.1	632.3	1154.7	2592.9	7046.5	8302.7	9865.9	13833.1
75°	361.3	378.0	387.7	412.7	605.9	1057.5	2038.5	5962.6	6212.7	6863.1	11017.9
77.5°	329.3	341.8	350.2	378.0	536.4	879.6	1474.3	4599.5	4824.6	4983.0	8447.2
80°	291.8	304.3	308.5	334.9	444.7	687.8	961.6	3397.5	3608.7	3644.8	5516.6
82.5°	248.7	261.2	261.2	286.3	364.1	494.7	630.9	2327.5	2369.2	2491.5	3899.1
85°	200.1	209.8	209.8	222.3	282.1	369.6	433.5	1168.6	1156.1	1320.1	3378.0
87.5°	143.1	150.1	157.0	159.8	201.5	244.6	261.2	355.7	234.8	269.6	2169.1
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: P194664

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-7060-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3
2.5°	9810.3	9889.5	9808.9	9750.6	9499.1	9292.0	9015.5	8873.8
5°	10545.4	10746.9	10678.8	10434.2	9909.0	9318.4	8647.3	8344.3
7.5°	10456.5	10924.8	10935.9	10478.7	9704.7	8834.9	7926.1	7495.3
10°	9764.5	10363.4	10534.3	10091.0	9269.8	8297.1	7254.9	6763.0
12.5°	8991.9	9578.3	9708.9	9556.0	8869.6	7892.7	6835.3	6353.1
15°	8359.6	8622.3	8777.9	8911.3	8526.4	7731.5	6811.7	6282.2
17.5°	7974.7	7945.5	7990.0	8222.1	8287.4	7916.4	7172.9	6589.3
20°	7835.8	7389.7	7378.6	7698.2	8174.8	8356.8	7878.8	7178.5
22.5°	7912.2	7189.6	7097.9	7477.3	8234.6	8991.9	8804.3	8005.3
25°	8176.2	7206.3	7132.6	7499.5	8451.3	9668.6	9803.4	9075.3
27.5°	8591.7	7311.9	7214.6	7591.2	8739.0	10236.9	10787.2	10111.9
30°	8986.3	7495.3	7374.4	7771.8	9001.6	10462.0	11390.3	10920.6
32.5°	9465.7	7838.5	7625.9	8103.9	9326.8	10820.5	11928.0	11590.4
35°	9935.4	8327.7	8063.6	8616.7	9689.4	11266.6	12542.2	12446.3
37.5°	10450.9	8966.9	8748.7	9279.5	10185.5	11687.6	13325.9	13449.6
40°	11001.2	9814.5	9556.0	10246.7	10955.3	12215.7	14144.4	14441.8
42.5°	11555.6	10755.2	10446.8	11147.1	11801.6	12736.8	14844.7	15285.2
45°	12190.7	11776.6	11630.7	12388.0	12614.5	13232.8	15361.6	15909.1
47.5°	12929.9	12935.5	13170.3	13473.2	13434.3	13794.2	15881.3	16466.4
50°	13792.8	14382.0	14900.3	15101.8	14279.2	14397.3	16602.5	17212.5
52.5°	14829.4	16112.0	16754.0	16622.0	15189.3	15133.8	17744.8	18240.8
55°	16125.9	17943.5	18581.3	18486.8	16235.7	16137.0	19167.7	19456.7
57.5°	17626.6	19717.9	20304.3	19879.1	17491.9	17237.6	20344.6	20405.8
60°	18945.3	21124.2	21638.3	21167.3	18759.1	18409.0	21079.7	20783.7
62.5°	19679.0	21600.8	21962.1	21454.9	19627.6	19656.8	21240.9	20579.5
65°	19351.1	20396.0	20512.8	20471.1	19403.9	20380.8	20661.5	19636.0
67.5°	17555.8	17350.1	17546.0	17817.0	17486.3	19427.5	19056.5	17580.8
70°	14393.1	13263.4	13653.9	13835.9	13986.0	16717.9	16540.0	14319.5
72.5°	10846.9	9292.0	9600.5	9563.0	10257.8	13409.3	12863.2	10528.7
75°	7685.7	6300.3	6339.2	6323.9	7157.7	10491.2	9314.3	7203.5
77.5°	5377.6	4564.7	4585.6	4671.7	4812.1	7912.2	6654.6	5262.3
80°	3697.6	3464.2	3579.5	3586.5	3335.0	5315.1	4916.3	4222.9
82.5°	2754.1	2408.1	2380.3	2420.6	2613.8	4306.3	3778.2	2929.2
85°	2255.3	1425.7	1146.4	1436.8	2316.4	4264.6	2509.6	1545.2
87.5°	1270.1	676.7	305.7	566.9	924.1	2823.6	725.4	197.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)