

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: P194673

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194673
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-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA 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: 26145 lumens
Efficiency: N/A
Efficacy: 93.7 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): 279
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



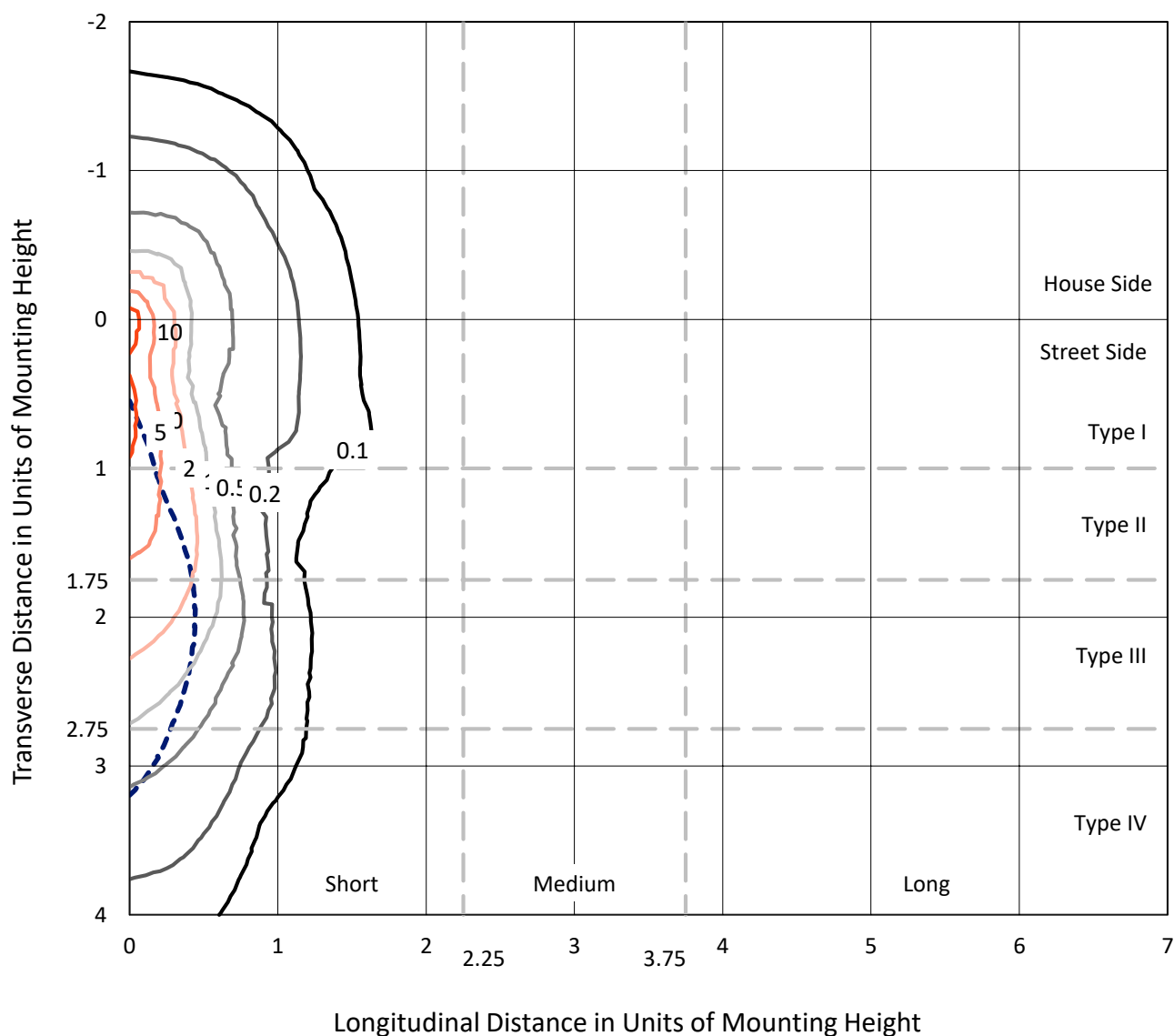
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

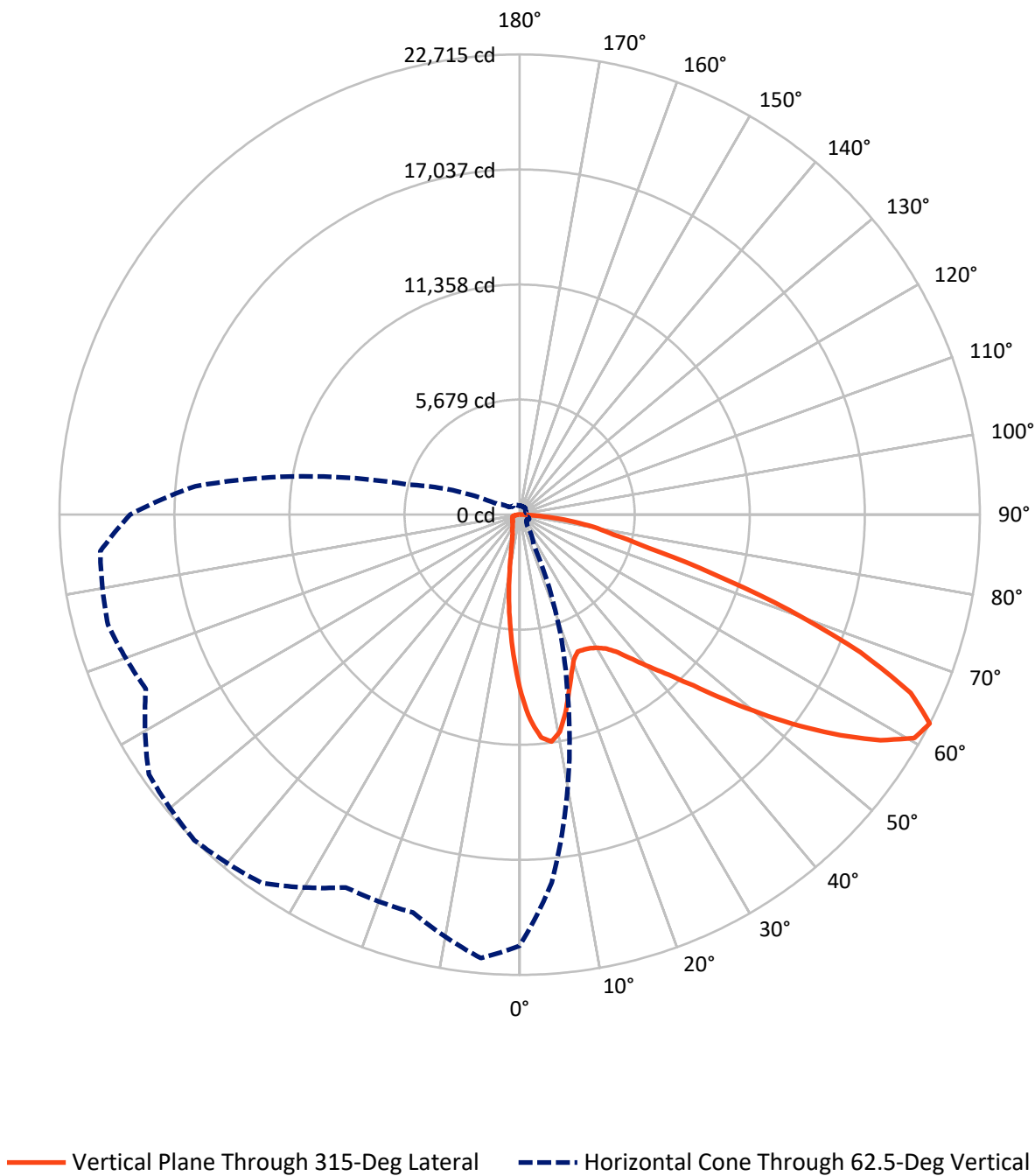


Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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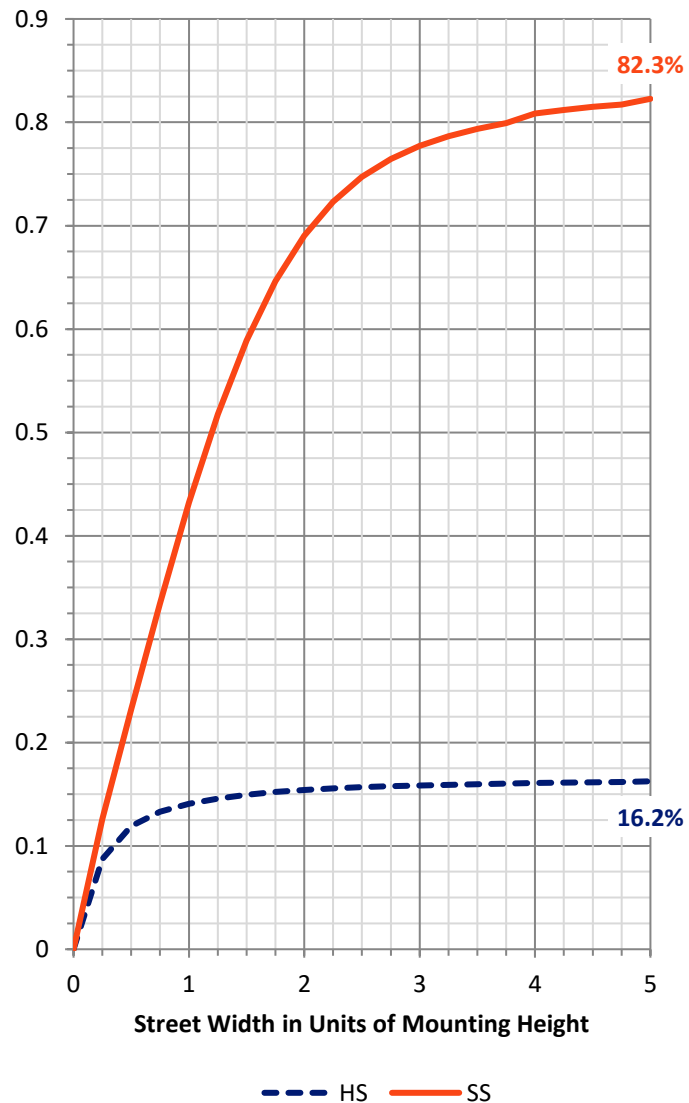
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4326.6	0.0	4326.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21818.4	0.0	21818.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	26145.0	0.0	26145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.0	2.5
10°-20°	1179.1	4.5
20°-30°	1719.2	6.6
30°-40°	2647.7	10.1
40°-50°	3896.8	14.9
50°-60°	5715.7	21.9
60°-70°	6389.4	24.4
70°-80°	3128.2	12.0
80°-90°	825.9	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°	26145.0	100.0
0°-180°	26145.0	100.0

Coefficient of Utilization



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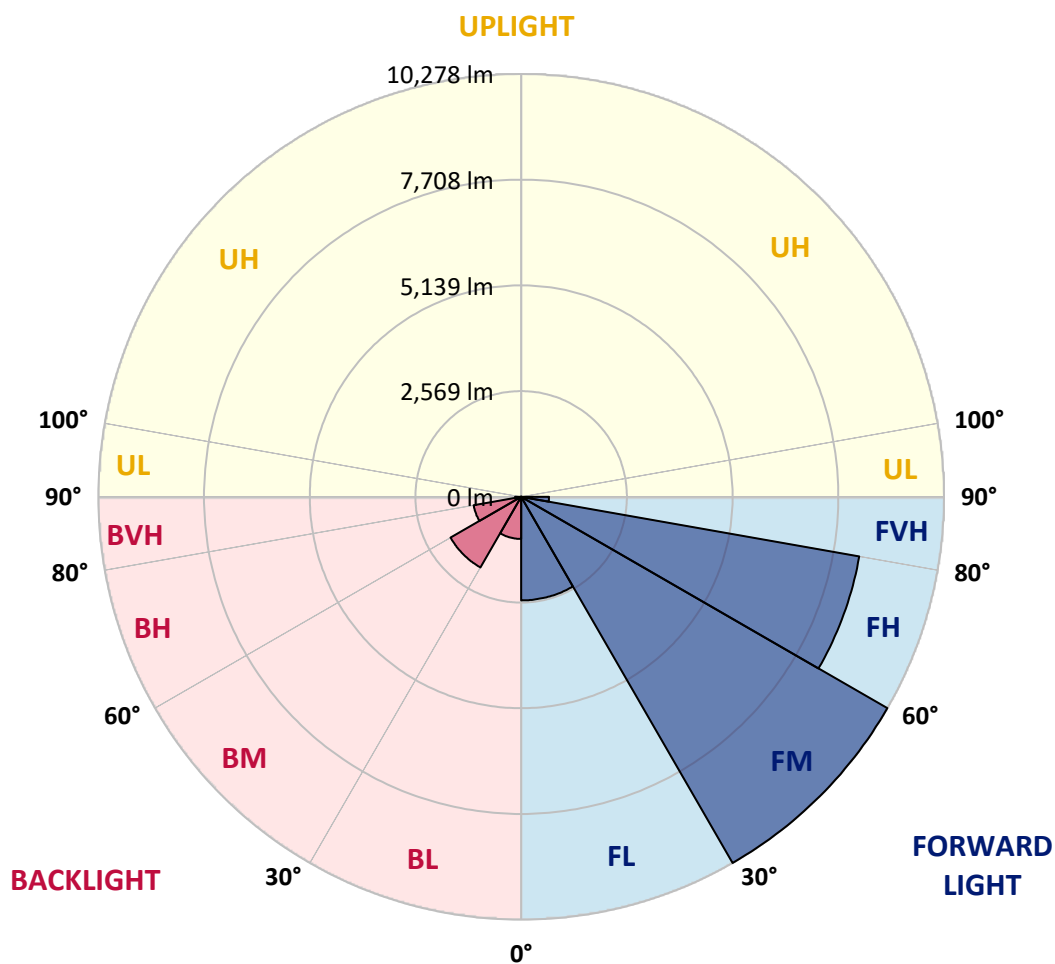
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2517.7	9.6			
FM	(30°-60°)	10277.8	39.3			
FH	(60°-80°)	8344.6	31.9			G4/12000
FVH	(80°-90°)	678.3	2.6			G4/750
BL	(0°-30°)	1023.6	3.9	B3/2500		
BM	(30°-60°)	1982.4	7.6	B2/2500		
BH	(60°-80°)	1173.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	147.6	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°	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2
2.5°	9178.1	8991.3	8680.8	8357.5	8160.6	7930.6	7751.0	7592.9	7276.7	7214.9	7270.9
5°	8630.5	8255.4	7670.5	7081.2	6688.8	6267.7	5940.1	5677.0	5276.1	5205.6	5290.4
7.5°	7752.4	7304.0	6530.8	5779.1	5224.3	4698.3	4344.7	4063.0	3749.7	3614.6	3623.2
10°	6995.0	6489.1	5575.0	4757.2	4303.1	3948.1	3650.6	3361.7	3044.0	2835.6	2778.2
12.5°	6571.0	5988.9	4935.4	4205.3	3784.2	3410.5	3090.0	2781.0	2441.8	2229.1	2168.8
15°	6497.7	5865.3	4695.4	3851.8	3324.3	2851.5	2473.5	2128.5	1779.3	1606.8	1570.9
17.5°	6815.3	6086.7	4617.8	3537.0	2891.7	2308.2	1844.0	1458.8	1174.2	1088.0	1080.8
20°	7424.7	6512.1	4607.7	3240.9	2464.8	1780.7	1284.9	1004.6	879.6	855.1	856.6
22.5°	8279.9	7171.8	4731.3	3018.2	2072.5	1328.0	965.8	840.8	791.9	768.9	768.9
25°	9386.5	8080.1	5015.9	2855.8	1731.9	1060.7	852.3	777.5	731.5	715.7	718.6
27.5°	10458.7	8964.0	5346.5	2727.9	1509.1	962.9	807.7	740.2	699.9	684.1	691.3
30°	11295.2	9748.7	5622.4	2554.0	1395.5	935.6	823.5	754.5	697.1	672.6	674.1
32.5°	11987.9	10435.7	5853.8	2428.9	1294.9	802.0	710.0	679.8	672.6	643.9	629.5
35°	12873.2	11184.5	6009.0	2431.8	1247.5	715.7	632.4	579.2	540.4	507.3	507.3
37.5°	13910.9	12044.0	6174.3	2464.8	1230.3	665.4	605.1	551.9	516.0	484.3	478.6
40°	14937.1	12886.2	6325.2	2496.5	1220.2	635.3	583.5	534.6	501.6	470.0	461.3
42.5°	15809.5	13578.9	6460.3	2512.3	1185.7	632.4	567.7	523.2	491.5	457.0	448.4
45°	16454.8	14159.5	6605.5	2536.7	1151.2	643.9	567.7	521.7	482.9	449.9	441.2
47.5°	17031.1	14840.8	6848.4	2536.7	1109.5	622.3	586.4	523.2	481.5	447.0	439.8
50°	17802.9	15775.0	7308.3	2477.8	1050.6	599.3	618.0	517.4	468.5	441.2	432.6
52.5°	18866.5	16972.2	8038.4	2375.7	960.1	554.8	613.7	514.5	455.6	426.9	416.8
55°	20124.0	18254.2	8834.6	2256.4	825.0	523.2	592.1	507.3	441.2	409.6	399.5
57.5°	21105.7	19136.7	9395.1	2072.5	707.1	505.9	524.6	500.2	424.0	390.9	382.3
60°	21496.6	19102.2	9548.9	1826.7	649.6	491.5	458.5	560.5	409.6	376.6	366.5
62.5°	21285.3	18219.7	9117.8	1654.2	636.7	472.8	429.7	518.8	398.1	366.5	352.1
65°	20309.4	16656.0	7975.2	1608.3	674.1	454.2	411.0	406.7	382.3	352.1	337.7
67.5°	18183.8	14319.1	6385.6	1612.6	721.5	435.5	392.4	372.2	360.7	336.3	323.4
70°	14810.6	11321.0	4760.1	1624.1	745.9	413.9	372.2	350.7	337.7	313.3	304.7
72.5°	10889.9	8725.4	3458.0	1549.3	750.2	389.5	344.9	326.3	313.3	287.4	280.3
75°	7450.6	6674.5	2398.7	1283.4	653.9	355.0	314.8	297.5	288.9	257.3	253.0
77.5°	5442.8	5010.2	1535.0	952.9	504.5	311.9	277.4	264.4	258.7	224.2	218.5
80°	4367.7	3963.9	960.1	652.5	369.4	261.6	232.8	225.6	219.9	185.4	181.1
82.5°	3029.7	2654.6	616.6	424.0	277.4	202.6	184.0	181.1	172.5	140.8	136.5
85°	1598.2	1441.5	390.9	288.9	201.2	139.4	127.9	127.9	123.6	93.4	90.5
87.5°	204.1	332.0	198.3	150.9	110.7	61.8	61.8	60.4	64.7	53.2	46.0
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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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2
2.5°	7138.7	7207.7	7141.6	7145.9	7219.2	7437.6	7536.8	7618.7	7706.4	7763.9	7789.8
5°	5174.0	5335.0	5389.6	5504.6	5674.2	5953.0	6063.7	6144.1	6197.3	6228.9	6241.9
7.5°	3538.4	3636.2	3745.4	3930.8	4300.2	4464.0	4537.3	4518.6	4458.3	4436.7	4415.2
10°	2667.5	2628.7	2608.6	2710.6	3009.6	3174.8	3226.6	3176.3	3143.2	3150.4	3186.3
12.5°	2066.7	1999.2	1917.3	1905.8	2102.7	2250.7	2283.8	2286.6	2347.0	2400.2	2479.2
15°	1506.2	1499.0	1458.8	1434.4	1546.5	1667.2	1681.6	1707.4	1762.0	1800.8	1869.8
17.5°	1062.1	1100.9	1132.5	1148.3	1233.1	1319.4	1303.6	1290.6	1280.6	1280.6	1313.6
20°	856.6	882.5	922.7	968.7	1054.9	1115.3	1076.5	1024.7	987.4	975.9	980.2
22.5°	771.8	791.9	814.9	855.1	932.8	974.4	932.8	895.4	858.0	845.1	840.8
25°	728.7	754.5	776.1	806.3	863.8	892.5	852.3	825.0	802.0	786.2	774.7
27.5°	704.2	727.2	733.0	747.4	796.2	822.1	802.0	790.5	776.1	761.7	747.4
30°	678.4	674.1	664.0	665.4	704.2	730.1	728.7	731.5	730.1	725.8	722.9
32.5°	619.4	610.8	602.2	610.8	646.8	669.7	671.2	676.9	676.9	675.5	687.0
35°	516.0	531.8	541.8	567.7	610.8	630.9	622.3	607.9	582.1	566.3	564.8
37.5°	477.2	480.0	497.3	533.2	580.6	599.3	586.4	553.3	536.1	533.2	537.5
40°	458.5	461.3	471.4	504.5	551.9	570.6	559.1	534.6	518.8	517.4	524.6
42.5°	445.5	448.4	454.2	477.2	516.0	539.0	540.4	523.2	504.5	505.9	513.1
45°	438.4	439.8	438.4	449.9	485.8	513.1	524.6	513.1	497.3	500.2	508.8
47.5°	436.9	432.6	426.9	429.7	467.1	494.4	508.8	504.5	497.3	500.2	507.3
50°	431.2	421.1	413.9	412.5	449.9	478.6	491.5	491.5	494.4	500.2	507.3
52.5°	413.9	402.4	402.4	398.1	438.4	465.7	474.3	475.7	480.0	490.1	500.2
55°	392.4	388.1	392.4	385.2	429.7	455.6	459.9	462.8	465.7	474.3	488.7
57.5°	373.7	367.9	378.0	375.1	422.5	445.5	445.5	451.3	451.3	462.8	474.3
60°	363.6	352.1	356.4	359.3	412.5	436.9	434.0	439.8	442.7	452.7	461.3
62.5°	350.7	340.6	340.6	347.8	401.0	424.0	422.5	426.9	438.4	441.2	449.9
65°	334.9	330.6	326.3	334.9	389.5	409.6	411.0	416.8	426.9	429.7	436.9
67.5°	319.1	320.5	311.9	320.5	379.4	395.2	395.2	406.7	411.0	416.8	424.0
70°	301.8	303.3	296.1	306.1	372.2	379.4	378.0	393.8	396.7	401.0	408.2
72.5°	280.3	280.3	277.4	291.8	360.7	363.6	360.7	373.7	375.1	379.4	382.3
75°	257.3	257.3	254.4	274.5	353.6	346.4	337.7	347.8	350.7	353.6	353.6
77.5°	227.1	230.0	230.0	254.4	329.1	339.2	310.4	316.2	320.5	321.9	317.6
80°	189.7	196.9	199.8	231.4	275.9	313.3	277.4	281.7	283.1	283.1	277.4
82.5°	145.2	158.1	165.3	199.8	211.3	263.0	241.5	245.8	241.5	232.8	230.0
85°	100.6	117.9	126.5	152.3	159.5	202.6	201.2	201.2	192.6	181.1	179.7
87.5°	54.6	64.7	70.4	90.5	109.2	136.5	148.0	143.7	136.5	129.4	130.8
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°	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2
2.5°	7924.9	8120.3	8432.2	8670.8	8910.8	9142.2	9392.3	9583.4	9745.8	9809.1	10001.7
5°	6372.7	6617.0	6911.6	7443.4	7819.9	8235.3	8715.3	9350.6	9594.9	9932.7	10486.0
7.5°	4505.7	4727.0	5201.3	5631.1	6164.3	6752.1	7400.3	8277.0	8597.5	9139.3	10040.5
10°	3364.5	3621.8	4002.7	4364.9	4834.8	5435.6	6180.1	7160.3	7549.7	8137.6	9175.2
12.5°	2710.6	3013.9	3417.7	3758.3	4122.0	4545.9	5268.9	6343.9	6865.6	7380.2	8429.3
15°	2082.5	2400.2	2775.3	3207.9	3608.9	4065.9	4823.3	5999.0	6599.7	7135.8	8031.2
17.5°	1441.5	1713.2	2186.0	2637.3	3150.4	3735.3	4699.7	6072.3	6789.5	7407.5	8100.2
20°	1021.9	1177.1	1565.1	2088.3	2727.9	3462.3	4676.7	6457.5	7390.2	8095.9	8542.9
22.5°	859.5	917.0	1142.6	1622.6	2361.4	3258.2	4757.2	6997.9	8200.8	9102.0	9248.5
25°	783.3	817.8	935.6	1273.4	2035.1	3110.2	5028.9	7802.7	9204.0	10108.0	10082.1
27.5°	741.6	777.5	855.1	1075.0	1789.3	3018.2	5300.5	8757.0	10350.9	11200.3	10878.4
30°	728.7	777.5	859.5	1013.2	1614.0	2873.0	5523.3	9594.9	11233.4	11937.6	11240.5
32.5°	718.6	725.8	763.2	873.8	1447.3	2703.4	5674.2	10346.6	12097.1	12639.0	11762.3
35°	580.6	616.6	676.9	783.3	1349.6	2601.4	5674.2	10994.8	12948.0	13347.5	12259.5
37.5°	559.1	590.7	643.9	734.4	1294.9	2551.1	5560.6	11620.0	13817.5	14150.9	12669.1
40°	547.6	573.5	623.8	697.1	1271.9	2493.6	5395.3	12171.9	14666.9	14955.8	13051.4
42.5°	539.0	562.0	609.4	674.1	1241.8	2430.3	5261.7	12614.5	15404.2	15642.8	13416.5
45°	534.6	559.1	610.8	685.6	1181.4	2347.0	5217.1	13093.1	16010.7	16216.2	13811.7
47.5°	534.6	563.4	618.0	710.0	1109.5	2260.8	5356.5	13724.1	16584.1	16684.8	14277.4
50°	530.3	562.0	638.1	685.6	1004.6	2151.5	5684.2	14518.9	17205.0	17216.5	14866.7
52.5°	521.7	559.1	687.0	671.2	883.9	2007.8	6126.9	15539.3	18123.4	18192.4	15789.4
55°	511.7	554.8	674.1	638.1	784.7	1836.8	6489.1	16779.6	19414.0	19605.2	17146.1
57.5°	498.7	549.0	652.5	592.1	720.1	1616.9	6619.9	17687.9	20315.2	20795.2	18675.3
60°	487.2	544.7	589.3	564.8	679.8	1431.5	6366.9	17508.3	20253.4	21288.2	20030.6
62.5°	475.7	549.0	537.5	547.6	661.1	1312.2	5705.8	16069.6	19228.6	20779.4	21035.2
65°	462.8	510.2	507.3	533.2	656.8	1264.8	4729.9	13912.3	17248.1	19171.2	21272.4
67.5°	445.5	471.4	485.8	514.5	671.2	1223.1	3817.3	11476.2	14495.9	16760.9	20036.4
70°	426.9	448.4	464.2	491.5	662.6	1204.4	3174.8	9050.2	11502.1	13737.0	17597.4
72.5°	402.4	421.1	435.5	461.3	653.9	1194.3	2681.9	7288.2	8587.4	10204.3	14307.6
75°	373.7	390.9	401.0	426.9	626.6	1093.7	2108.4	6167.1	6425.8	7098.5	11395.8
77.5°	340.6	353.6	362.2	390.9	554.8	909.8	1524.9	4757.2	4990.0	5153.9	8736.9
80°	301.8	314.8	319.1	346.4	459.9	711.4	994.6	3514.0	3732.5	3769.8	5705.8
82.5°	257.3	270.2	270.2	296.1	376.6	511.7	652.5	2407.4	2450.5	2576.9	4032.9
85°	207.0	217.0	217.0	230.0	291.8	382.3	448.4	1208.7	1195.8	1365.4	3493.9
87.5°	148.0	155.2	162.4	165.3	208.4	253.0	270.2	367.9	242.9	278.8	2243.5
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: P194673

CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-7060

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2	8833.2
2.5°	10146.8	10228.7	10145.4	10085.0	9824.9	9610.7	9324.7	9178.1
5°	10907.1	11115.5	11045.1	10792.1	10248.9	9638.0	8943.9	8630.5
7.5°	10815.1	11299.5	11311.0	10838.1	10037.6	9137.9	8197.9	7752.4
10°	10099.4	10718.8	10895.6	10437.1	9587.7	8581.7	7503.8	6995.0
12.5°	9300.3	9906.8	10041.9	9883.8	9173.8	8163.4	7069.7	6571.0
15°	8646.4	8918.0	9079.0	9216.9	8818.8	7996.7	7045.3	6497.7
17.5°	8248.2	8218.1	8264.0	8504.1	8571.6	8187.9	7419.0	6815.3
20°	8104.5	7643.2	7631.7	7962.2	8455.2	8643.5	8149.1	7424.7
22.5°	8183.6	7436.2	7341.3	7733.7	8517.0	9300.3	9106.3	8279.9
25°	8456.6	7453.5	7377.3	7756.7	8741.2	10000.2	10139.6	9386.5
27.5°	8886.4	7562.7	7462.1	7851.6	9038.7	10588.0	11157.2	10458.7
30°	9294.5	7752.4	7627.4	8038.4	9310.3	10820.9	11780.9	11295.2
32.5°	9790.4	8107.4	7887.5	8381.9	9646.7	11191.7	12337.1	11987.9
35°	10276.2	8613.3	8340.2	8912.2	10021.8	11653.0	12972.4	12873.2
37.5°	10809.4	9274.4	9048.8	9597.8	10534.9	12088.5	13783.0	13910.9
40°	11378.5	10151.1	9883.8	10598.1	11331.1	12634.7	14629.5	14937.1
42.5°	11952.0	11124.1	10805.1	11529.4	12206.4	13173.6	15353.9	15809.5
45°	12608.8	12180.5	12029.6	12812.9	13047.1	13686.7	15888.5	16454.8
47.5°	13373.4	13379.1	13622.0	13935.3	13895.1	14267.3	16426.1	17031.1
50°	14265.9	14875.3	15411.4	15619.8	14768.9	14891.1	17172.0	17802.9
52.5°	15338.1	16664.6	17328.6	17192.1	15710.3	15652.8	18353.4	18866.5
55°	16679.0	18558.9	19218.6	19120.9	16792.5	16690.5	19825.1	20124.0
57.5°	18231.2	20394.2	21000.7	20561.0	18091.8	17828.8	21042.4	21105.7
60°	19595.1	21848.7	22380.5	21893.3	19402.5	19040.4	21802.7	21496.6
62.5°	20354.0	22341.7	22715.4	22190.8	20300.8	20331.0	21969.4	21285.3
65°	20014.8	21095.6	21216.3	21173.2	20069.4	21079.8	21370.1	20309.4
67.5°	18157.9	17945.2	18147.8	18428.1	18086.0	20093.9	19710.1	18183.8
70°	14886.8	13718.3	14122.2	14310.5	14465.7	17291.3	17107.3	14810.6
72.5°	11219.0	9610.7	9929.8	9891.0	10609.6	13869.2	13304.4	10889.9
75°	7949.3	6516.4	6556.6	6540.8	7403.1	10851.1	9633.7	7450.6
77.5°	5562.1	4721.3	4742.8	4832.0	4977.1	8183.6	6882.9	5442.8
80°	3824.5	3583.0	3702.3	3709.5	3449.3	5497.4	5084.9	4367.7
82.5°	2848.6	2490.7	2462.0	2503.6	2703.4	4454.0	3907.8	3029.7
85°	2332.6	1474.6	1185.7	1486.1	2395.9	4410.8	2595.6	1598.2
87.5°	1313.6	699.9	316.2	586.4	955.8	2920.4	750.2	204.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)