

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: P193058

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193058
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-10-LED-E1-SLR-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA 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: 32994.1 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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



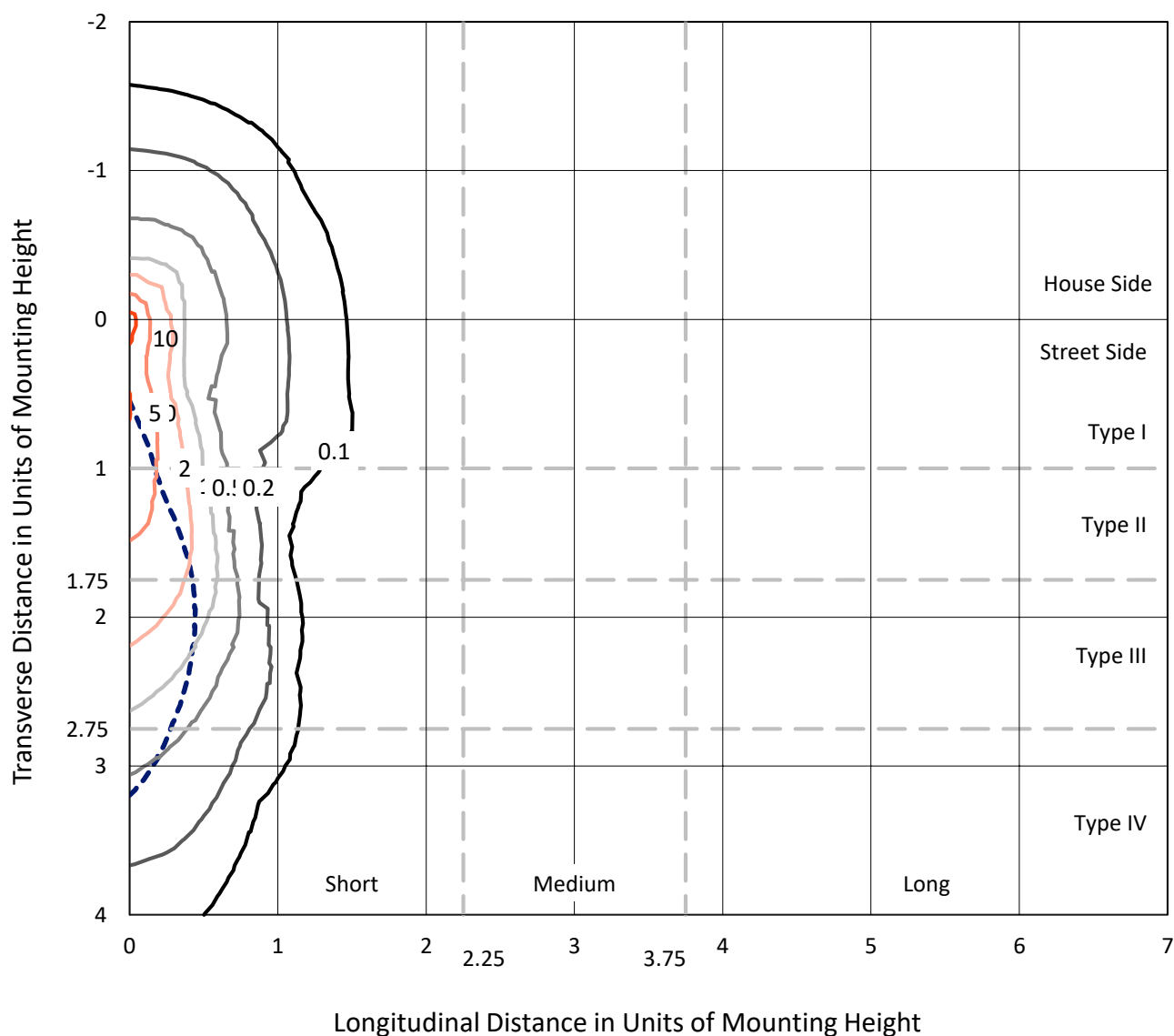
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

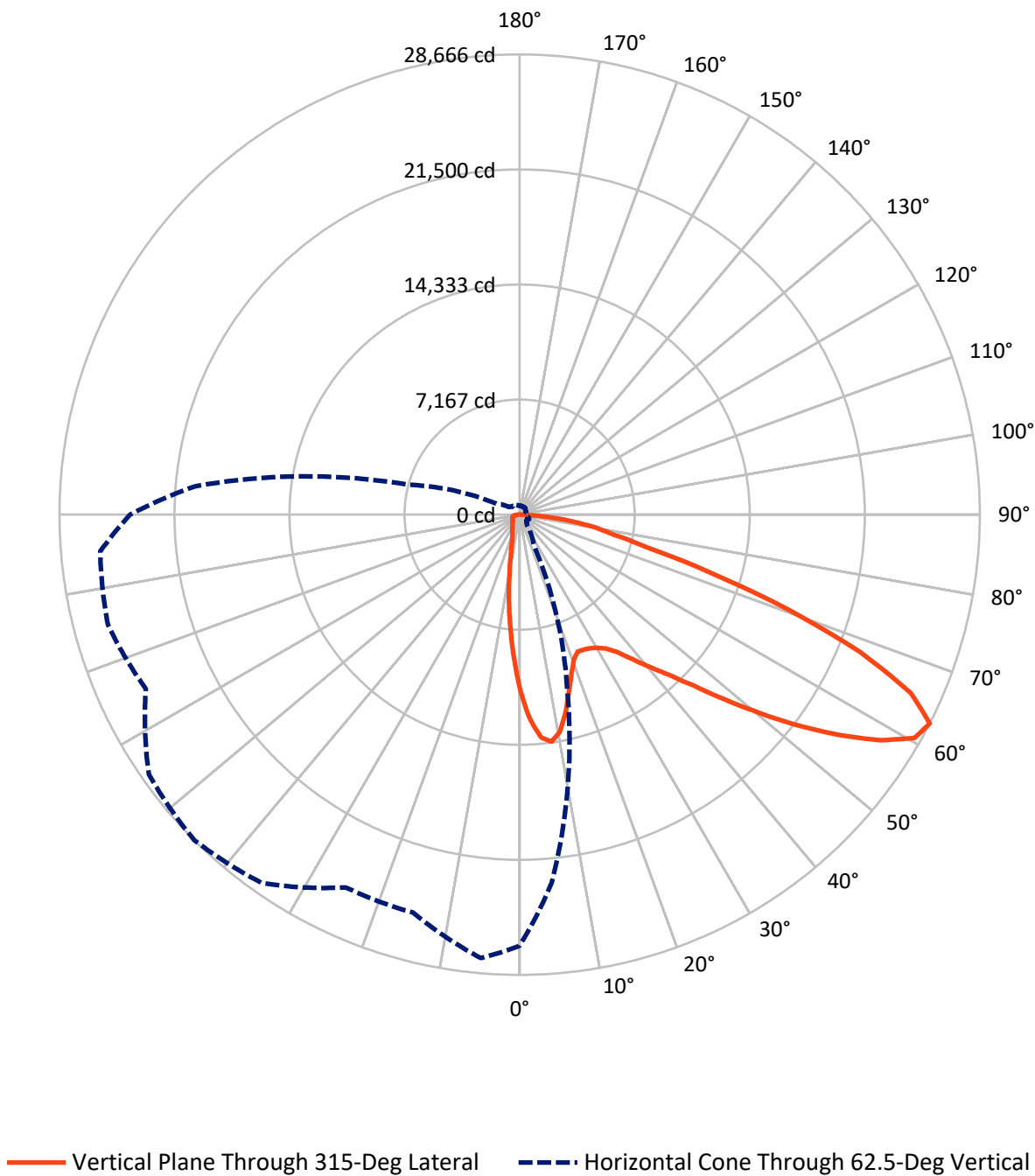


Based on 30 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5460.1	0.0	5460.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	27534.0	0.0	27534.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	32994.1	0.0	32994.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.5	2.5
10°-20°	1488.0	4.5
20°-30°	2169.5	6.6
30°-40°	3341.4	10.1
40°-50°	4917.6	14.9
50°-60°	7213.1	21.9
60°-70°	8063.2	24.4
70°-80°	3947.6	12.0
80°-90°	1042.3	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°	32994.1	100.0
0°-180°	32994.1	100.0

Coefficient of Utilization



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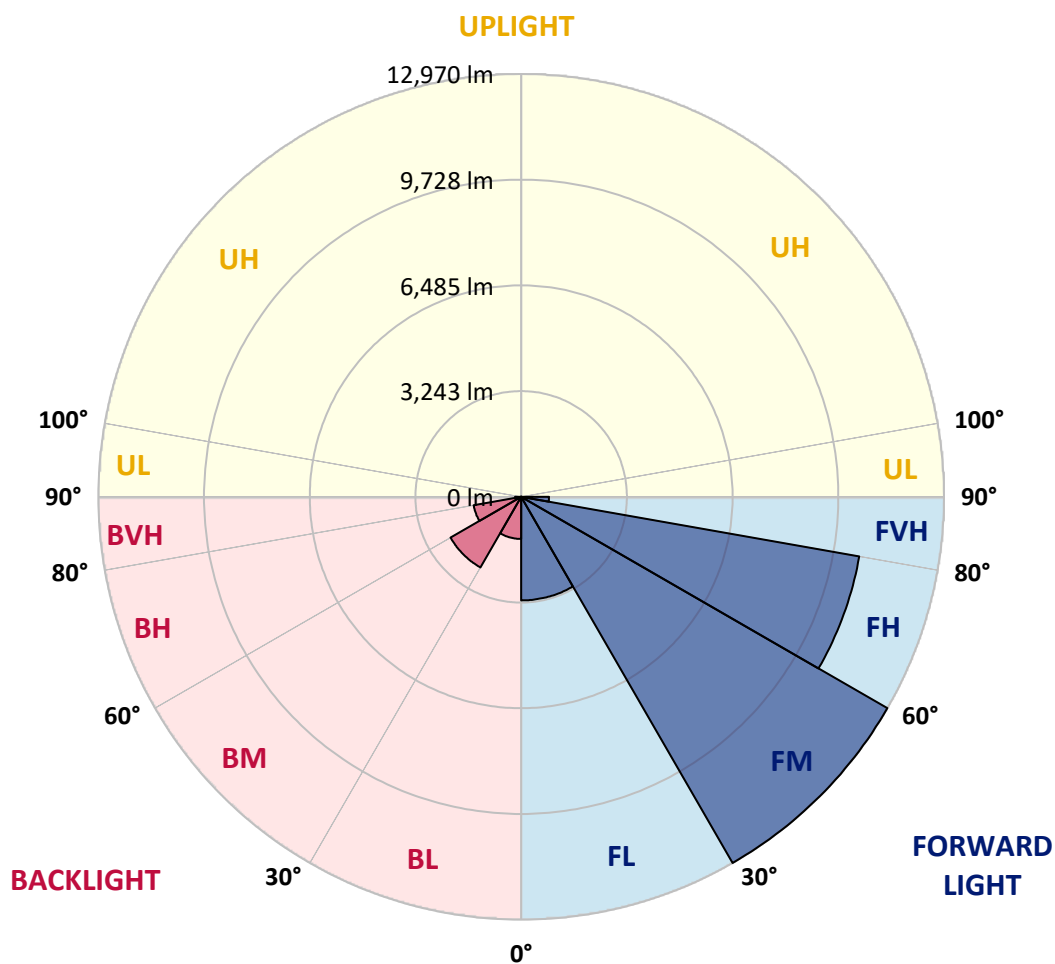
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3177.2	9.6			
FM	(30°-60°)	12970.3	39.3			
FH	(60°-80°)	10530.6	31.9			G4/12000
FVH	(80°-90°)	856.0	2.6			G5
BL	(0°-30°)	1291.8	3.9	B3/2500		
BM	(30°-60°)	2501.8	7.6	B3/5000		
BH	(60°-80°)	1480.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	186.3	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°	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1
2.5°	11582.5	11346.7	10954.9	10546.8	10298.3	10008.1	9781.4	9581.9	9182.9	9104.9	9175.7
5°	10891.4	10418.1	9680.0	8936.2	8441.2	7909.8	7496.2	7164.2	6658.3	6569.3	6676.4
7.5°	9783.3	9217.3	8241.7	7293.0	6592.9	5929.1	5482.9	5127.4	4732.0	4561.6	4572.4
10°	8827.4	8189.0	7035.4	6003.5	5430.3	4982.3	4606.9	4242.3	3841.4	3578.5	3505.9
12.5°	8292.3	7557.8	6228.4	5306.9	4775.5	4303.9	3899.6	3509.5	3081.5	2813.1	2737.0
15°	8199.9	7401.9	5925.4	4860.8	4195.1	3598.5	3121.4	2686.1	2245.4	2027.8	1982.4
17.5°	8600.7	7681.2	5827.6	4463.6	3649.3	2912.9	2327.0	1840.9	1481.8	1373.0	1363.9
20°	9369.7	8218.1	5814.8	4090.0	3110.5	2247.3	1621.5	1267.9	1110.0	1079.2	1081.0
22.5°	10448.9	9050.5	5970.8	3808.9	2615.4	1675.9	1218.8	1061.0	999.4	970.3	970.3
25°	11845.5	10196.8	6329.9	3603.9	2185.5	1338.5	1075.5	981.2	923.2	903.2	906.9
27.5°	13198.5	11312.2	6747.1	3442.4	1904.4	1215.2	1019.3	934.0	883.3	863.3	872.4
30°	14254.1	12302.5	7095.3	3223.0	1761.2	1180.8	1039.3	952.2	879.6	848.8	850.7
32.5°	15128.4	13169.4	7387.3	3065.2	1634.2	1012.1	896.0	857.9	848.8	812.6	794.5
35°	16245.5	14114.4	7583.2	3068.9	1574.3	903.2	798.0	731.0	682.0	640.3	640.3
37.5°	17555.1	15199.0	7791.9	3110.5	1552.6	839.7	763.6	696.4	651.0	611.2	603.9
40°	18850.1	16261.9	7982.3	3150.5	1539.9	801.6	736.4	674.6	632.9	593.1	582.3
42.5°	19951.1	17136.1	8152.7	3170.3	1496.3	798.0	716.4	660.2	620.3	576.8	565.9
45°	20765.4	17869.0	8335.9	3201.2	1452.8	812.6	716.4	658.4	609.4	567.7	556.7
47.5°	21492.7	18728.5	8642.4	3201.2	1400.1	785.3	740.0	660.2	607.6	564.1	555.0
50°	22466.7	19907.5	9222.8	3126.9	1325.9	756.3	779.9	653.0	591.3	556.7	546.0
52.5°	23808.8	21418.3	10144.1	2998.1	1211.5	700.2	774.4	649.3	574.9	538.6	526.0
55°	25395.9	23036.2	11149.1	2847.6	1041.1	660.2	747.3	640.3	556.7	516.9	504.2
57.5°	26634.6	24149.8	11856.4	2615.4	892.3	638.4	662.0	631.2	535.1	493.3	482.5
60°	27128.0	24106.3	12050.4	2305.3	819.8	620.3	578.5	707.4	516.9	475.2	462.5
62.5°	26861.4	22992.6	11506.3	2087.6	803.5	596.7	542.3	654.8	502.4	462.5	444.3
65°	25629.8	21019.3	10064.4	2029.6	850.7	573.2	518.8	513.3	482.5	444.3	426.2
67.5°	22947.2	18070.2	8058.4	2035.0	910.4	549.6	495.2	469.7	455.3	424.4	408.1
70°	18690.6	14286.7	6007.1	2049.4	941.4	522.4	469.7	442.5	426.2	395.4	384.5
72.5°	13742.6	11011.1	4363.9	1955.2	946.7	491.5	435.3	411.7	395.4	362.7	353.7
75°	9402.5	8423.1	3027.1	1619.7	825.2	448.0	397.1	375.5	364.6	324.6	319.2
77.5°	6868.6	6322.7	1937.0	1202.5	636.7	393.6	350.0	333.7	326.4	283.0	275.7
80°	5511.9	5002.2	1211.5	823.5	466.1	330.1	293.8	284.7	277.5	234.0	228.6
82.5°	3823.3	3350.0	778.2	535.1	350.0	255.7	232.1	228.6	217.7	177.8	172.3
85°	2016.8	1819.1	493.3	364.6	253.9	175.9	161.3	161.3	156.0	117.9	114.2
87.5°	257.6	419.0	250.3	190.4	139.7	78.0	78.0	76.2	81.6	67.0	58.0
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°	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1
2.5°	9008.8	9095.9	9012.5	9017.8	9110.4	9386.0	9511.2	9614.6	9725.2	9797.9	9830.4
5°	6529.5	6732.5	6801.5	6946.6	7160.7	7512.4	7652.1	7753.7	7820.8	7860.6	7877.0
7.5°	4465.4	4588.8	4726.5	4960.6	5426.7	5633.4	5725.9	5702.3	5626.2	5599.0	5571.7
10°	3366.3	3317.3	3291.9	3420.7	3798.0	4006.5	4071.9	4008.4	3966.6	3975.7	4021.1
12.5°	2608.1	2522.9	2419.5	2405.1	2653.5	2840.3	2882.0	2885.6	2961.8	3028.8	3128.6
15°	1900.8	1891.8	1840.9	1810.1	1951.6	2103.9	2122.1	2154.7	2223.7	2272.6	2359.7
17.5°	1340.4	1389.3	1429.2	1449.3	1556.2	1665.0	1645.0	1628.7	1616.1	1616.1	1657.8
20°	1081.0	1113.7	1164.3	1222.5	1331.4	1407.5	1358.5	1293.2	1246.0	1231.6	1237.0
22.5°	973.9	999.4	1028.3	1079.2	1177.2	1229.7	1177.2	1130.0	1082.8	1066.5	1061.0
25°	919.5	952.2	979.4	1017.5	1090.1	1126.4	1075.5	1041.1	1012.1	992.1	977.7
27.5°	888.8	917.8	925.0	943.1	1004.8	1037.4	1012.1	997.5	979.4	961.3	943.1
30°	856.0	850.7	837.9	839.7	888.8	921.4	919.5	923.2	921.4	915.9	912.4
32.5°	781.7	770.9	760.0	770.9	816.1	845.2	847.0	854.3	854.3	852.4	867.0
35°	651.0	671.1	683.8	716.4	770.9	796.3	785.3	767.2	734.6	714.5	712.8
37.5°	602.1	605.8	627.5	672.9	732.7	756.3	740.0	698.2	676.6	672.9	678.3
40°	578.5	582.3	594.9	636.7	696.4	720.0	705.5	674.6	654.8	653.0	662.0
42.5°	562.2	565.9	573.2	602.1	651.0	680.1	682.0	660.2	636.7	638.4	647.5
45°	553.2	555.0	553.2	567.7	613.1	647.5	662.0	647.5	627.5	631.2	642.0
47.5°	551.3	546.0	538.6	542.3	589.5	623.9	642.0	636.7	627.5	631.2	640.3
50°	544.1	531.4	522.4	520.5	567.7	603.9	620.3	620.3	623.9	631.2	640.3
52.5°	522.4	507.8	507.8	502.4	553.2	587.6	598.5	600.4	605.8	618.5	631.2
55°	495.2	489.7	495.2	486.1	542.3	574.9	580.3	584.0	587.6	598.5	616.7
57.5°	471.6	464.4	477.0	473.4	533.1	562.2	562.2	569.5	569.5	584.0	598.5
60°	458.9	444.3	449.8	453.4	520.5	551.3	547.7	555.0	558.7	571.3	582.3
62.5°	442.5	429.8	429.8	438.9	506.0	535.1	533.1	538.6	553.2	556.7	567.7
65°	422.7	417.2	411.7	422.7	491.5	516.9	518.8	526.0	538.6	542.3	551.3
67.5°	402.6	404.5	393.6	404.5	478.8	498.8	498.8	513.3	518.8	526.0	535.1
70°	380.9	382.7	373.6	386.3	469.7	478.8	477.0	496.9	500.6	506.0	515.0
72.5°	353.7	353.7	350.0	368.2	455.3	458.9	455.3	471.6	473.4	478.8	482.5
75°	324.6	324.6	321.0	346.5	446.3	437.1	426.2	438.9	442.5	446.3	446.3
77.5°	286.6	290.2	290.2	321.0	415.3	428.1	391.8	399.1	404.5	406.2	400.9
80°	239.4	248.4	252.1	292.0	348.2	395.4	350.0	355.5	357.3	357.3	350.0
82.5°	183.2	199.5	208.5	252.1	266.6	331.9	304.8	310.2	304.8	293.8	290.2
85°	127.0	148.7	159.6	192.3	201.4	255.7	253.9	253.9	243.0	228.6	226.7
87.5°	69.0	81.6	88.8	114.2	137.8	172.3	186.9	181.4	172.3	163.3	165.1
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°	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1
2.5°	10000.9	10247.5	10641.2	10942.2	11245.2	11537.1	11852.8	12093.9	12298.9	12378.7	12621.7
5°	8042.0	8350.4	8722.2	9393.3	9868.6	10392.6	10998.5	11800.1	12108.4	12534.7	13232.9
7.5°	5686.1	5965.3	6563.9	7106.2	7779.0	8520.9	9338.9	10445.3	10849.8	11533.5	12670.7
10°	4246.0	4570.7	5051.3	5508.3	6101.4	6859.6	7799.0	9036.0	9527.5	10269.4	11578.9
12.5°	3420.7	3803.5	4313.0	4743.0	5201.9	5736.8	6649.2	8005.8	8664.1	9313.5	10637.5
15°	2628.1	3028.8	3502.3	4048.3	4554.3	5131.1	6086.9	7570.5	8328.7	9005.1	10135.1
17.5°	1819.1	2161.9	2758.7	3328.1	3975.7	4713.9	5930.9	7663.0	8568.1	9348.0	10222.2
20°	1289.6	1485.5	1975.2	2635.4	3442.4	4369.3	5901.8	8149.1	9326.2	10216.8	10780.8
22.5°	1084.6	1157.2	1441.9	2047.7	2979.9	4111.8	6003.5	8831.1	10349.1	11486.3	11671.4
25°	988.5	1032.1	1180.8	1606.9	2568.2	3924.9	6346.3	9846.8	11615.2	12756.0	12723.4
27.5°	936.0	981.2	1079.2	1356.7	2258.1	3808.9	6689.1	11051.0	13062.5	14134.5	13728.1
30°	919.5	981.2	1084.6	1278.7	2036.8	3625.7	6970.2	12108.4	14176.2	15064.8	14185.2
32.5°	906.9	915.9	963.1	1102.8	1826.4	3411.6	7160.7	13057.0	15266.1	15950.0	14843.5
35°	732.7	778.2	854.3	988.5	1703.2	3282.8	7160.7	13875.1	16339.9	16844.1	15471.1
37.5°	705.5	745.4	812.6	926.8	1634.2	3219.4	7017.2	14664.0	17437.2	17858.0	15988.0
40°	691.1	723.7	787.2	879.6	1605.1	3146.7	6808.7	15360.4	18509.2	18873.7	16470.5
42.5°	680.1	709.2	769.0	850.7	1567.1	3067.0	6640.0	15919.1	19439.5	19740.6	16931.2
45°	674.6	705.5	770.9	865.2	1490.9	2961.8	6583.9	16523.1	20205.0	20464.4	17429.9
47.5°	674.6	710.9	779.9	896.0	1400.1	2853.0	6759.8	17319.3	20928.6	21055.6	18017.6
50°	669.2	709.2	805.4	865.2	1267.9	2715.2	7173.3	18322.3	21712.2	21726.6	18761.2
52.5°	658.4	705.5	867.0	847.0	1115.4	2533.8	7731.9	19610.1	22871.1	22958.2	19925.6
55°	645.7	700.2	850.7	805.4	990.3	2317.9	8189.0	21175.3	24499.9	24741.1	21637.8
57.5°	629.4	692.8	823.5	747.3	908.7	2040.4	8354.1	22321.5	25637.0	26242.9	23567.7
60°	614.8	687.4	743.6	712.8	857.9	1806.5	8034.8	22094.9	25559.1	26865.0	25278.0
62.5°	600.4	692.8	678.3	691.1	834.3	1656.0	7200.5	20279.3	24265.9	26222.9	26545.7
65°	584.0	643.9	640.3	672.9	828.8	1596.1	5969.0	17556.9	21766.6	24193.4	26845.0
67.5°	562.2	594.9	613.1	649.3	847.0	1543.5	4817.2	14482.7	18293.3	21151.7	25285.3
70°	538.6	565.9	585.8	620.3	836.2	1519.9	4006.5	11421.1	14515.3	17335.6	22207.3
72.5°	507.8	531.4	549.6	582.3	825.2	1507.2	3384.5	9197.5	10837.0	12877.6	18055.6
75°	471.6	493.3	506.0	538.6	790.8	1380.3	2660.8	7782.7	8109.2	8958.0	14381.0
77.5°	429.8	446.3	457.0	493.3	700.2	1148.1	1924.4	6003.5	6297.2	6503.9	11025.7
80°	380.9	397.1	402.6	437.1	580.3	897.8	1255.1	4434.7	4710.2	4757.3	7200.5
82.5°	324.6	341.0	341.0	373.6	475.2	645.7	823.5	3038.0	3092.4	3252.0	5089.3
85°	261.1	273.9	273.9	290.2	368.2	482.5	565.9	1525.4	1509.0	1723.0	4409.1
87.5°	186.9	195.9	205.0	208.5	263.0	319.2	341.0	464.4	306.5	351.9	2831.2
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: P193058

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1
2.5°	12804.9	12908.3	12803.1	12726.9	12398.6	12128.5	11767.4	11582.5
5°	13764.4	14027.4	13938.5	13619.2	12933.7	12162.8	11286.8	10891.4
7.5°	13648.3	14259.5	14274.0	13677.3	12667.1	11531.7	10345.5	9783.3
10°	12745.1	13526.9	13749.8	13171.3	12099.4	10829.8	9469.5	8827.4
12.5°	11736.6	12502.0	12672.6	12473.0	11577.0	10301.9	8921.8	8292.3
15°	10911.4	11254.2	11457.4	11631.4	11129.0	10091.6	8890.9	8199.9
17.5°	10409.0	10370.9	10428.9	10731.9	10817.1	10332.8	9362.4	8600.7
20°	10227.6	9645.4	9630.8	10048.0	10670.1	10907.8	10283.8	9369.7
22.5°	10327.4	9384.3	9264.5	9759.7	10748.2	11736.6	11491.8	10448.9
25°	10672.0	9406.0	9309.9	9788.7	11031.2	12620.0	12795.9	11845.5
27.5°	11214.3	9543.8	9416.8	9908.4	11406.5	13361.8	14080.0	13198.5
30°	11729.4	9783.3	9625.5	10144.1	11749.3	13655.6	14867.1	14254.1
32.5°	12355.1	10231.2	9953.7	10577.7	12173.7	14123.5	15569.1	15128.4
35°	12968.2	10869.6	10525.1	11246.9	12647.2	14705.7	16370.8	16245.5
37.5°	13641.0	11704.0	11419.2	12112.1	13294.6	15255.4	17393.6	17555.1
40°	14359.3	12810.4	12473.0	13374.4	14299.5	15944.5	18462.0	18850.1
42.5°	15083.0	14038.2	13635.7	14549.7	15404.0	16624.7	19376.0	19951.1
45°	15911.9	15371.3	15180.9	16169.4	16465.1	17272.1	20050.8	20765.4
47.5°	16876.7	16884.1	17190.6	17586.0	17535.1	18005.0	20729.1	21492.7
50°	18003.0	18772.2	19448.5	19711.6	18637.9	18792.0	21670.5	22466.7
52.5°	19356.2	21030.2	21868.1	21695.8	19825.8	19753.3	23161.4	23808.8
55°	21048.4	23420.7	24253.2	24129.9	21191.6	21062.9	25018.6	25395.9
57.5°	23007.2	25736.8	26502.3	25947.2	22831.3	22499.3	26554.8	26634.6
60°	24728.4	27572.3	28243.4	27628.6	24485.3	24028.3	27514.3	27128.0
62.5°	25686.1	28194.5	28666.1	28004.0	25618.9	25657.1	27724.6	26861.4
65°	25258.0	26621.9	26774.3	26719.9	25327.0	26602.0	26968.4	25629.8
67.5°	22914.7	22646.2	22902.0	23255.7	22823.9	25357.8	24873.5	22947.2
70°	18786.6	17312.0	17821.8	18059.4	18255.1	21821.0	21588.9	18690.6
72.5°	14158.1	12128.5	12531.1	12482.1	13388.9	17502.5	16789.7	13742.6
75°	10031.7	8223.5	8274.2	8254.3	9342.5	13693.7	12157.4	9402.5
77.5°	7019.2	5958.1	5985.3	6097.8	6281.0	10327.4	8686.0	6868.6
80°	4826.3	4521.5	4672.2	4681.2	4353.0	6937.5	6417.1	5511.9
82.5°	3594.8	3143.2	3106.9	3159.6	3411.6	5620.8	4931.5	3823.3
85°	2943.7	1860.9	1496.3	1875.4	3023.5	5566.3	3275.6	2016.8
87.5°	1657.8	883.3	399.1	740.0	1206.1	3685.6	946.7	257.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)