

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: P193024

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193024
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-SLL-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24447.9 lumens
Efficiency: N/A
Efficacy: 98.2 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



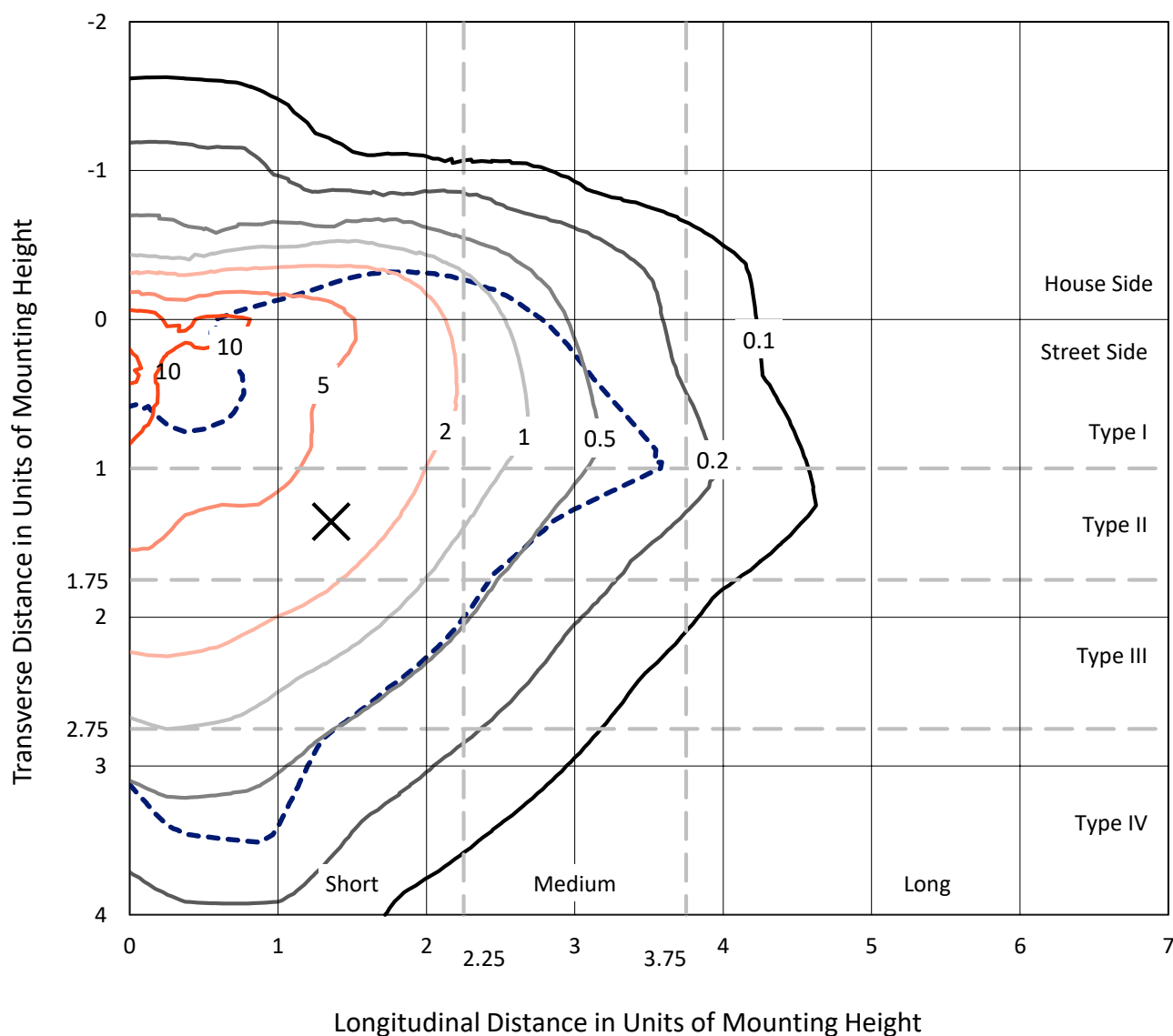
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

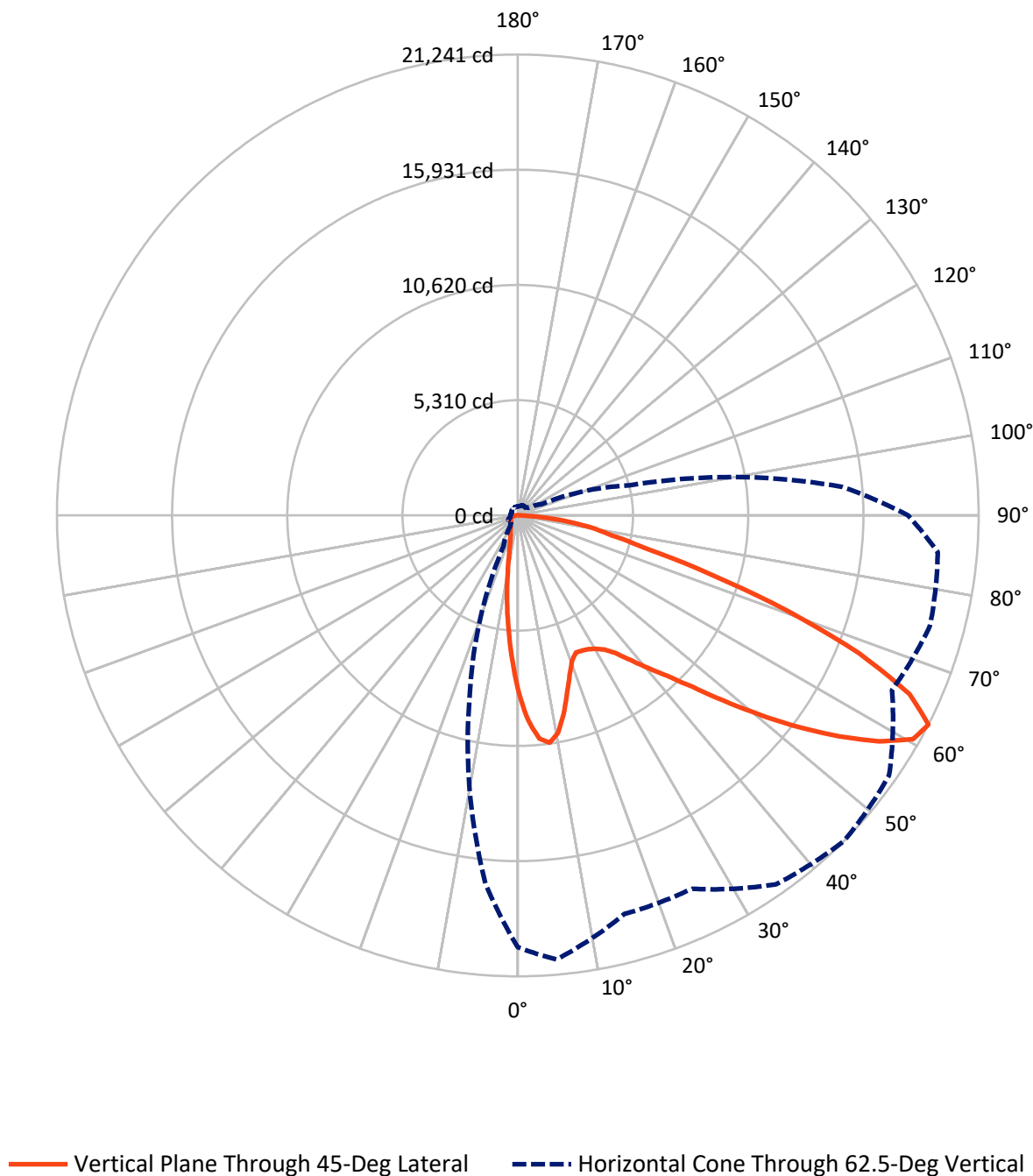


Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4045.8	0.0	4045.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20402.1	0.0	20402.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	24447.9	0.0	24447.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.3	2.5
10°-20°	1102.6	4.5
20°-30°	1607.6	6.6
30°-40°	2475.9	10.1
40°-50°	3643.8	14.9
50°-60°	5344.7	21.9
60°-70°	5974.6	24.4
70°-80°	2925.1	12.0
80°-90°	772.3	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°	24447.9	100.0
0°-180°	24447.9	100.0

Coefficient of Utilization



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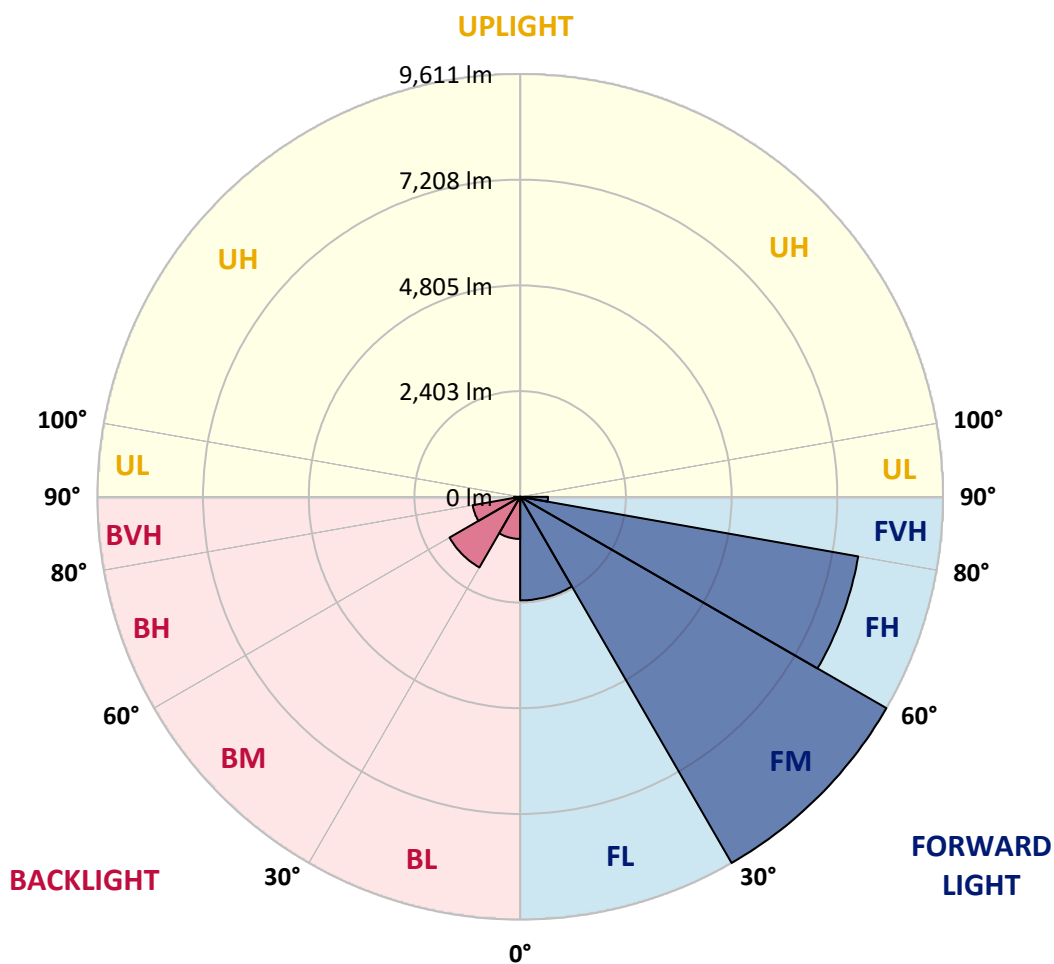
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2354.2	9.6			
FM	(30°-60°)	9610.7	39.3			
FH	(60°-80°)	7802.9	31.9			G4/12000
FVH	(80°-90°)	634.2	2.6			G4/750
BL	(0°-30°)	957.2	3.9	B2/1000		
BM	(30°-60°)	1853.7	7.6	B2/2500		
BH	(60°-80°)	1096.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	138.1	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°	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8
2.5°	8582.4	8719.4	8986.9	9187.1	9430.3	9486.8	9564.8	9488.2	9352.4	9172.4	9113.2
5°	8070.3	8363.2	9012.4	9583.5	10091.6	10328.1	10394.0	10199.2	9805.4	9287.9	8972.1
7.5°	7249.2	7665.7	8544.7	9386.0	10134.6	10576.8	10566.0	10113.0	9388.7	8546.0	8039.4
10°	6541.0	7016.6	8024.6	8965.4	9759.6	10188.3	10023.0	9443.9	8579.7	7609.4	7059.7
12.5°	6144.4	6610.8	7633.5	8578.3	9242.2	9390.1	9263.8	8696.6	7882.2	6901.1	6420.0
15°	6075.9	6587.9	7477.6	8246.4	8618.6	8489.7	8339.1	8085.0	7509.9	6672.6	6171.3
17.5°	6372.9	6937.4	7656.4	8015.3	7952.0	7727.6	7684.6	7712.8	7574.4	6926.6	6348.7
20°	6942.8	7620.1	8082.5	7906.3	7445.4	7136.3	7146.9	7578.4	7988.4	7570.3	6910.5
22.5°	7742.4	8515.1	8696.6	7964.1	7231.7	6864.8	6953.5	7652.3	8648.2	8511.1	7668.5
25°	8777.3	9481.4	9351.1	8173.8	7253.1	6898.4	6969.6	7907.6	9427.7	9451.9	8606.6
27.5°	9779.8	10432.9	9900.7	8452.0	7341.9	6977.8	7071.8	8309.5	10172.2	10473.3	9678.9
30°	10562.0	11016.2	10118.5	8706.0	7516.6	7132.2	7249.2	8691.2	10510.8	11162.7	10504.1
32.5°	11209.8	11536.3	10465.2	9020.5	7837.8	7375.5	7581.1	9154.9	10998.7	11818.6	11311.8
35°	12037.6	12130.3	10896.7	9371.2	8333.8	7798.8	8054.1	9609.2	11463.7	12481.1	12107.4
37.5°	13007.9	12888.3	11303.9	9851.1	8974.8	8461.4	8672.4	10107.7	11846.8	13232.4	12920.6
40°	13967.4	13680.0	11814.5	10595.5	9910.2	9242.2	9492.2	10639.8	12204.3	13984.9	13714.8
42.5°	14783.3	14357.2	12318.4	11414.0	10781.0	10103.6	10402.0	11176.1	12545.5	14627.3	14404.3
45°	15386.7	14857.2	12798.3	12200.2	11981.2	11248.7	11389.8	11790.2	12915.2	15163.5	14971.4
47.5°	15925.6	15359.7	13341.2	12993.1	13030.8	12737.8	12510.6	12505.3	13350.6	15601.6	15507.6
50°	16647.3	16057.3	13924.4	13810.3	14605.9	14411.0	13909.7	13339.9	13901.6	16099.0	16088.2
52.5°	17641.8	17162.0	14636.8	14690.6	16076.1	16203.8	15582.9	14342.5	14764.4	17011.4	16946.9
55°	18817.7	18538.2	15607.0	15702.5	17879.6	17971.1	17354.2	15596.3	16033.1	18332.6	18153.9
57.5°	19735.6	19676.5	16671.5	16917.3	19226.3	19637.5	19070.3	17047.7	17463.0	19445.3	18996.5
60°	20101.2	20387.4	17804.5	18143.0	20472.1	20927.7	20430.4	18323.1	18730.5	19906.3	18938.7
62.5°	19903.6	20543.4	19011.2	18983.0	20750.3	21240.9	20891.5	19032.8	19669.7	19430.5	17980.5
65°	18991.1	19982.9	19711.5	18766.7	19798.8	19839.1	19726.2	18715.6	19891.5	17926.7	16128.6
67.5°	17003.5	18430.7	18789.6	16912.0	17232.0	16969.8	16780.4	16979.2	18735.8	15672.9	13554.9
70°	13849.1	15996.8	16168.8	13526.7	13381.5	13205.5	12827.8	13920.4	16455.1	12845.3	10755.5
72.5°	10183.0	12440.8	12969.0	9920.8	9248.9	9285.2	8986.9	10490.7	13378.8	9541.9	8030.0
75°	6966.9	9008.3	10146.7	6922.5	6116.3	6131.0	6093.4	7433.2	10656.0	6637.7	6008.7
77.5°	5089.6	6436.1	7652.3	4654.0	4518.3	4435.0	4414.8	5201.0	8169.8	4819.3	4666.1
80°	4084.2	4754.9	5140.5	3225.5	3468.7	3462.0	3350.4	3576.2	5335.4	3525.1	3490.2
82.5°	2833.0	3654.1	4164.9	2527.9	2341.1	2302.2	2329.1	2663.6	3771.1	2409.7	2291.3
85°	1494.4	2427.0	4124.5	2240.4	1389.7	1108.8	1378.9	2181.3	3267.1	1276.7	1118.2
87.5°	190.8	701.6	2730.8	893.7	548.4	295.6	654.5	1228.4	2097.9	260.7	227.2
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°	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8
2.5°	8961.3	8782.6	8548.8	8332.3	8107.9	7884.8	7593.2	7410.4	7284.1	7259.9	7206.2
5°	8743.6	8149.6	7700.7	7312.2	6960.3	6463.0	6187.5	5959.0	5836.7	5824.6	5795.0
7.5°	7739.7	6919.9	6313.8	5764.1	5265.5	4863.6	4420.2	4213.2	4128.6	4148.7	4168.9
10°	6695.5	5778.9	5082.7	4521.0	4081.5	3742.9	3386.7	3146.1	2979.5	2945.8	2939.2
12.5°	5932.1	4926.8	4250.8	3854.4	3514.5	3195.9	2818.3	2534.7	2318.3	2244.4	2194.7
15°	5609.6	4510.2	3802.0	3374.6	2999.6	2595.1	2244.4	1947.3	1748.4	1683.9	1647.6
17.5°	5678.1	4394.6	3492.9	2945.8	2466.1	2044.1	1602.0	1347.9	1228.4	1197.5	1197.5
20°	6038.3	4373.1	3237.6	2550.7	1952.7	1463.5	1100.7	955.6	916.5	912.6	923.2
22.5°	6543.6	4448.4	3046.7	2208.1	1517.3	1068.4	857.4	803.7	786.2	790.3	802.3
25°	7296.3	4702.4	2908.3	1903.0	1190.7	874.9	764.7	732.5	724.4	735.1	749.9
27.5°	8188.6	4956.4	2822.2	1673.2	1005.3	799.7	727.1	693.5	698.8	712.3	725.7
30°	8972.1	5164.6	2686.4	1509.2	947.5	803.7	727.1	681.3	676.0	678.7	682.8
32.5°	9674.9	5305.8	2527.9	1353.2	817.1	713.7	678.7	672.0	642.5	631.6	632.9
35°	10281.1	5305.8	2432.5	1262.0	732.5	632.9	576.6	542.9	528.2	529.5	544.3
37.5°	10865.8	5199.6	2385.4	1210.9	686.7	602.1	552.3	522.8	502.6	498.6	501.3
40°	11381.7	5045.1	2331.7	1189.4	651.8	583.2	536.3	512.0	490.6	483.8	485.1
42.5°	11795.7	4920.2	2272.6	1161.2	630.3	569.8	525.4	504.0	479.7	473.1	471.7
45°	12243.3	4878.4	2194.7	1104.7	641.1	571.2	522.8	500.0	475.8	467.7	465.0
47.5°	12833.1	5008.9	2114.0	1037.5	663.9	577.9	526.8	500.0	474.4	467.7	465.0
50°	13576.4	5315.3	2011.9	939.4	641.1	596.7	525.4	495.9	474.4	467.7	462.2
52.5°	14530.6	5729.2	1877.5	826.5	627.5	642.5	522.8	487.9	467.7	458.3	448.8
55°	15690.4	6067.8	1717.5	733.7	596.7	630.3	518.8	478.4	456.9	443.5	435.4
57.5°	16539.7	6190.2	1511.9	673.2	553.7	610.1	513.4	466.3	443.5	432.7	422.0
60°	16371.7	5953.6	1338.5	635.7	528.2	551.0	509.3	455.6	431.3	423.4	414.0
62.5°	15026.5	5335.4	1227.0	618.2	512.0	502.6	513.4	444.8	420.6	412.6	409.9
65°	13009.3	4423.0	1182.6	614.1	498.6	474.4	477.1	432.7	408.5	401.8	399.2
67.5°	10731.3	3569.5	1143.7	627.5	481.2	454.3	440.9	416.6	396.5	389.7	384.4
70°	8462.7	2968.8	1126.3	619.5	459.7	434.1	419.3	399.2	381.7	375.0	370.9
72.5°	6815.0	2507.8	1116.8	611.6	431.3	407.2	393.8	376.3	357.5	354.8	350.7
75°	5766.8	1971.6	1022.7	585.9	399.2	375.0	365.6	349.4	330.6	330.6	327.9
77.5°	4448.4	1426.0	850.7	518.8	365.6	338.7	330.6	318.5	296.9	301.0	299.7
80°	3285.9	930.1	665.3	430.1	323.9	298.4	294.4	282.2	259.4	264.7	264.7
82.5°	2251.1	610.1	478.4	352.2	276.9	252.6	252.6	240.6	215.0	217.8	225.7
85°	1130.3	419.3	357.5	272.8	215.0	202.9	202.9	193.5	168.0	169.4	180.1
87.5°	344.0	252.6	236.5	194.9	154.6	151.9	145.1	138.4	122.3	121.0	127.8
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°	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8
2.5°	7124.1	7047.6	6954.9	6750.6	6682.1	6678.0	6739.7	6675.3	6798.9	6746.5	6804.3
5°	5745.3	5670.0	5566.5	5305.8	5147.2	5039.7	4988.7	4838.1	4947.0	4867.7	4933.6
7.5°	4225.3	4242.7	4174.2	4021.1	3675.7	3502.3	3400.1	3308.8	3388.0	3379.9	3506.3
10°	2970.1	3017.0	2968.8	2814.2	2534.7	2439.2	2458.0	2494.4	2597.8	2651.6	2846.4
12.5°	2138.2	2135.5	2104.6	1966.1	1782.0	1792.8	1869.4	1932.6	2028.0	2084.4	2283.3
15°	1596.6	1572.4	1558.9	1446.0	1341.2	1364.1	1401.7	1408.5	1468.9	1502.6	1663.8
17.5°	1206.9	1218.9	1233.7	1153.1	1073.8	1059.0	1029.4	993.1	1010.6	1017.3	1097.9
20°	958.2	1006.6	1042.9	986.4	905.8	862.8	825.1	801.0	801.0	799.7	822.5
22.5°	837.3	872.2	911.2	872.2	799.7	762.0	740.6	721.6	719.0	719.0	740.6
25°	771.4	796.9	834.6	807.8	754.0	725.7	705.6	681.3	672.0	669.3	684.1
27.5°	739.1	749.9	768.7	744.5	698.8	685.4	680.0	658.5	646.4	639.7	654.5
30°	684.1	681.3	682.8	658.5	622.2	620.9	630.3	634.4	630.3	629.0	651.8
32.5°	632.9	627.5	626.3	604.8	571.2	563.1	571.2	579.2	588.7	602.1	629.0
35°	568.4	582.0	590.0	571.2	530.9	506.6	497.2	482.5	474.4	474.4	505.4
37.5°	517.5	548.4	560.4	542.9	498.6	465.0	448.8	446.3	447.5	452.9	482.5
40°	500.0	522.8	533.5	516.0	471.7	440.9	431.3	428.8	431.3	439.4	469.0
42.5°	489.2	505.4	504.0	482.5	446.3	424.7	419.3	416.6	419.3	427.4	459.7
45°	479.7	490.6	479.7	454.3	420.6	409.9	411.3	409.9	412.6	420.6	451.6
47.5°	471.7	475.8	462.2	436.8	401.8	399.2	404.5	408.5	411.3	417.9	450.2
50°	459.7	459.7	447.5	420.6	385.6	387.1	393.8	403.1	404.5	412.6	438.1
52.5°	444.8	443.5	435.4	409.9	372.2	376.3	376.3	387.1	389.7	399.2	426.0
55°	432.7	430.1	426.0	401.8	360.2	366.9	362.8	366.9	373.6	383.1	412.6
57.5°	422.0	416.6	416.6	395.1	350.7	353.5	344.0	349.4	357.5	365.6	396.5
60°	411.3	405.9	408.5	385.6	336.0	333.2	329.3	340.1	342.7	352.2	383.1
62.5°	399.2	395.1	396.5	375.0	325.3	318.5	318.5	327.9	329.3	342.7	372.2
65°	389.7	384.4	383.1	364.2	313.1	305.1	309.1	313.1	315.9	329.3	357.5
67.5°	380.3	369.7	369.7	354.8	299.7	291.6	299.7	298.4	302.4	314.4	337.3
70°	368.2	353.5	354.8	348.1	286.3	276.9	283.5	282.2	284.9	293.0	315.9
72.5°	349.4	337.3	340.1	337.3	272.8	259.4	262.1	262.1	262.1	268.8	293.0
75°	325.3	315.9	323.9	330.6	256.6	237.8	240.6	240.6	236.5	240.6	270.1
77.5°	295.6	290.3	317.2	307.8	237.8	215.0	215.0	212.3	204.4	209.7	241.9
80°	263.5	259.4	293.0	258.1	216.4	186.9	184.1	177.4	169.4	173.4	205.6
82.5°	229.8	225.7	246.0	197.5	186.9	154.6	147.8	135.7	127.8	131.6	161.2
85°	188.2	188.2	189.4	149.1	142.5	118.2	110.3	94.1	84.6	87.4	115.6
87.5°	134.4	138.4	127.8	102.1	84.6	65.9	60.5	51.1	43.0	49.7	60.5
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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CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8
2.5°	7100.0	7247.8	7415.9	7630.8	7815.0	8117.3	8407.6	8582.4
5°	5308.6	5554.5	5860.8	6254.6	6621.5	7172.6	7719.5	8070.3
7.5°	3799.3	4062.7	4393.4	4885.2	5404.0	6106.8	6829.9	7249.2
10°	3143.5	3413.6	3691.8	4023.7	4448.4	5213.1	6067.8	6541.0
12.5°	2600.5	2889.5	3189.2	3538.6	3932.3	4615.1	5600.2	6144.4
15°	1990.3	2312.9	2666.4	3108.5	3601.7	4390.6	5484.6	6075.9
17.5°	1364.1	1724.2	2158.3	2703.9	3307.4	4318.0	5691.6	6372.9
20°	939.4	1201.6	1665.1	2304.9	3030.6	4308.6	6089.3	6942.8
22.5°	786.2	903.1	1241.8	1937.9	2822.2	4424.2	6706.3	7742.4
25°	727.1	796.9	991.8	1619.4	2670.4	4690.3	7555.6	8777.3
27.5°	692.1	755.3	900.4	1411.1	2550.7	4999.3	8382.2	9779.8
30°	705.6	770.1	874.9	1305.0	2388.2	5257.4	9115.9	10562.0
32.5°	635.7	663.9	749.9	1210.9	2271.3	5473.8	9758.3	11209.8
35°	541.6	591.3	669.3	1166.6	2273.9	5618.9	10458.6	12037.6
37.5°	516.0	565.8	622.2	1150.4	2304.9	5773.5	11262.1	13007.9
40°	500.0	545.6	594.1	1141.0	2334.5	5914.6	12049.6	13967.4
42.5°	489.2	530.9	591.3	1108.8	2349.2	6041.0	12697.4	14783.3
45°	487.9	530.9	602.1	1076.5	2372.0	6176.8	13240.4	15386.7
47.5°	489.2	548.4	582.0	1037.5	2372.0	6403.8	13877.4	15925.6
50°	483.8	577.9	560.4	982.5	2317.0	6833.8	14751.0	16647.3
52.5°	481.2	573.8	518.8	897.8	2221.6	7516.6	15870.5	17641.8
55°	474.4	553.7	489.2	771.4	2110.1	8261.1	17069.2	18817.7
57.5°	467.7	490.6	473.1	661.2	1937.9	8785.3	17894.5	19735.6
60°	524.1	428.8	459.7	607.5	1708.2	8929.1	17862.1	20101.2
62.5°	485.1	401.8	442.2	595.4	1546.9	8525.9	17037.1	19903.6
65°	380.3	384.4	424.7	630.3	1503.9	7457.5	15574.8	18991.1
67.5°	348.1	366.9	407.2	674.6	1507.9	5971.1	13389.6	17003.5
70°	327.9	348.1	387.1	697.5	1518.6	4451.1	10586.1	13849.1
72.5°	305.1	322.6	364.2	701.6	1448.8	3233.5	8159.1	10183.0
75°	278.2	294.4	331.9	611.6	1200.1	2243.0	6241.2	6966.9
77.5°	247.3	259.4	291.6	471.7	891.0	1435.3	4684.9	5089.6
80°	211.0	217.8	244.6	345.4	610.1	897.8	3706.5	4084.2
82.5°	169.4	172.0	189.4	259.4	396.5	576.6	2482.3	2833.0
85°	119.6	119.6	130.3	188.2	270.1	365.6	1347.9	1494.4
87.5°	56.5	57.8	57.8	103.5	141.2	185.4	310.4	190.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)