

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: P193818

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193818
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-SLL-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA 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: 27837 lumens
Efficiency: N/A
Efficacy: 86.2 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 - G4

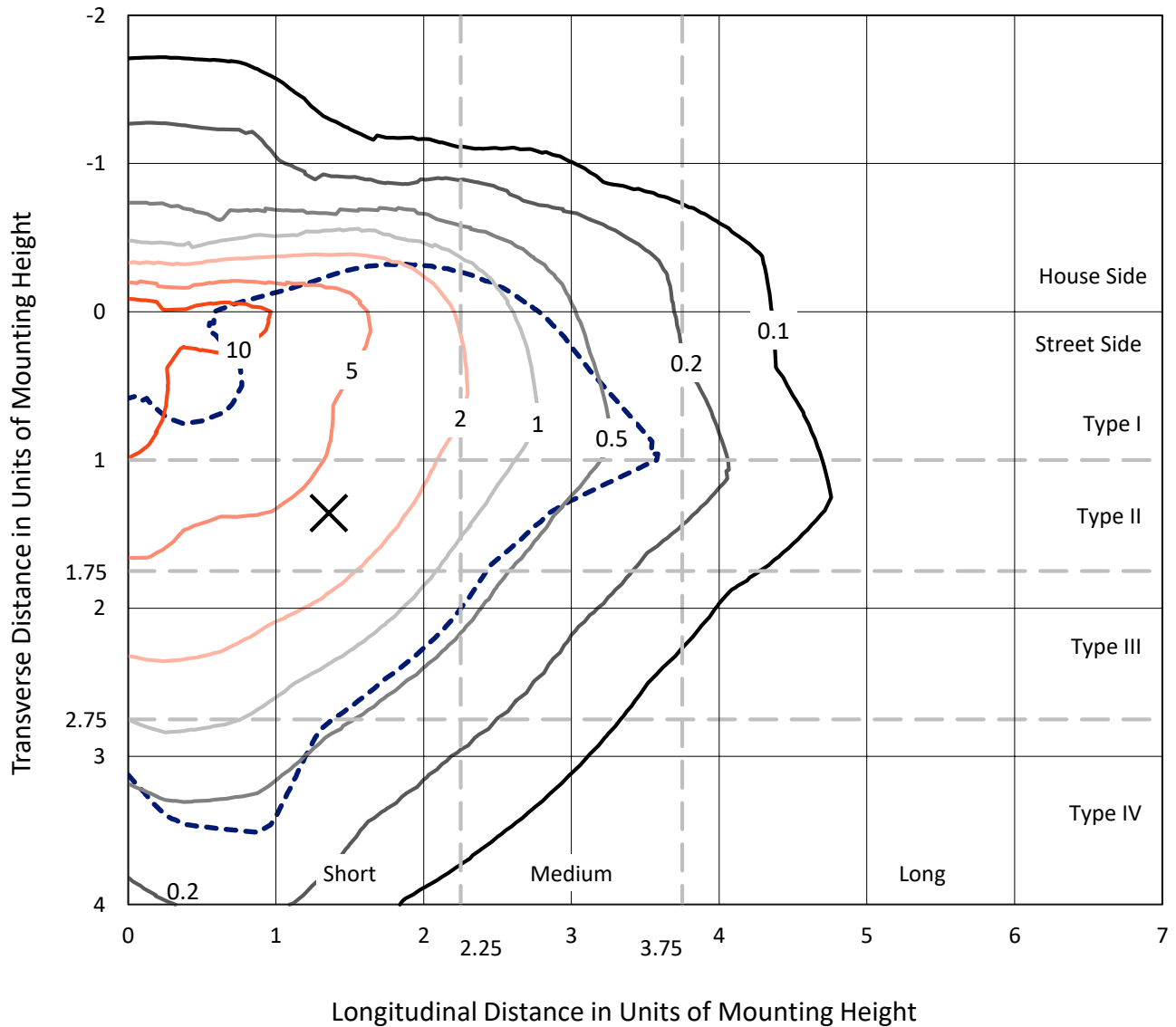
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

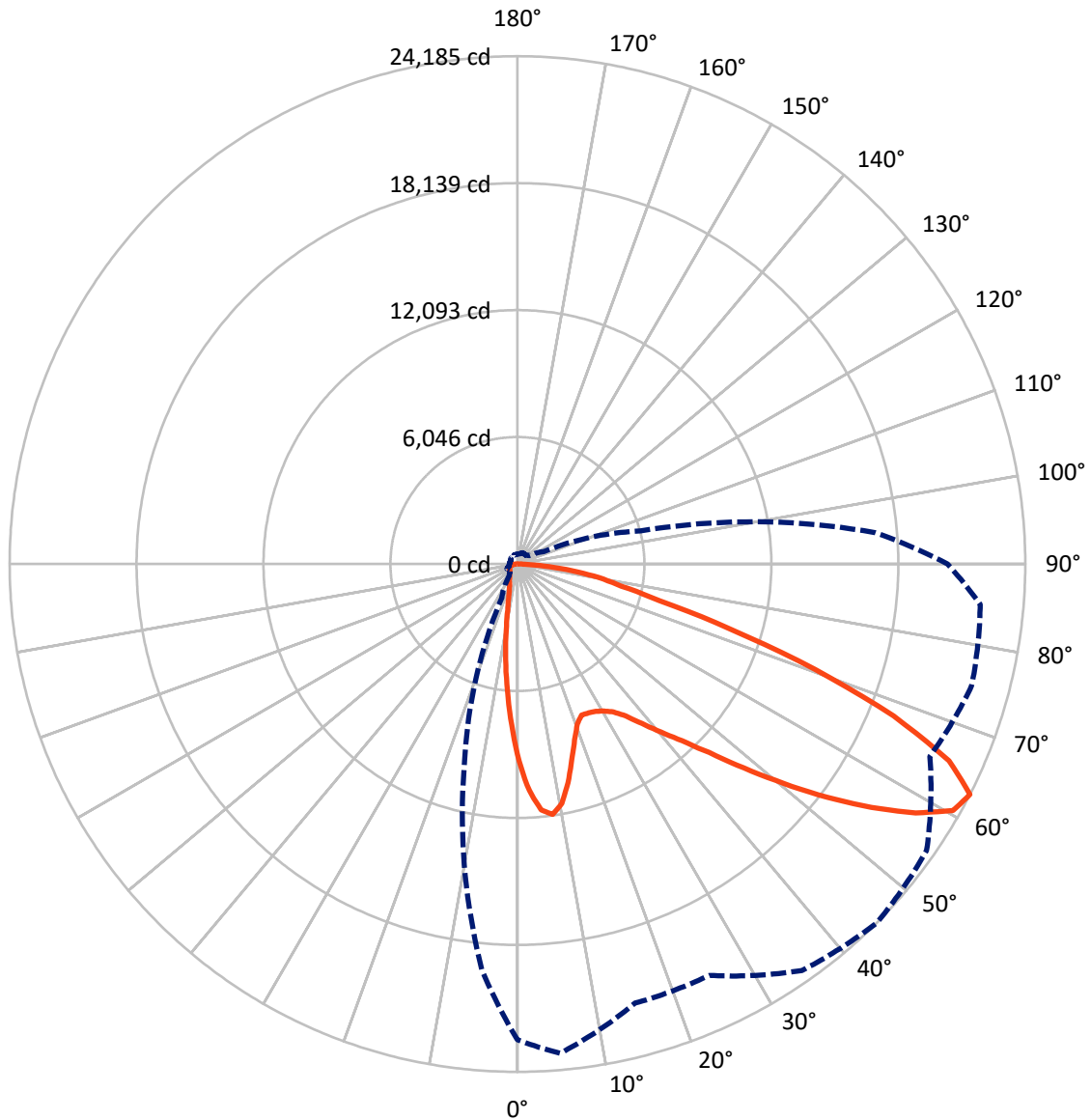
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4606.6	0.0	4606.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	23230.4	0.0	23230.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	27837.0	0.0	27837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.6	2.5
10°-20°	1255.4	4.5
20°-30°	1830.4	6.6
30°-40°	2819.1	10.1
40°-50°	4149.0	14.9
50°-60°	6085.6	21.9
60°-70°	6802.9	24.4
70°-80°	3330.6	12.0
80°-90°	879.4	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°	27837.0	100.0
0°-180°	27837.0	100.0

Coefficient of Utilization



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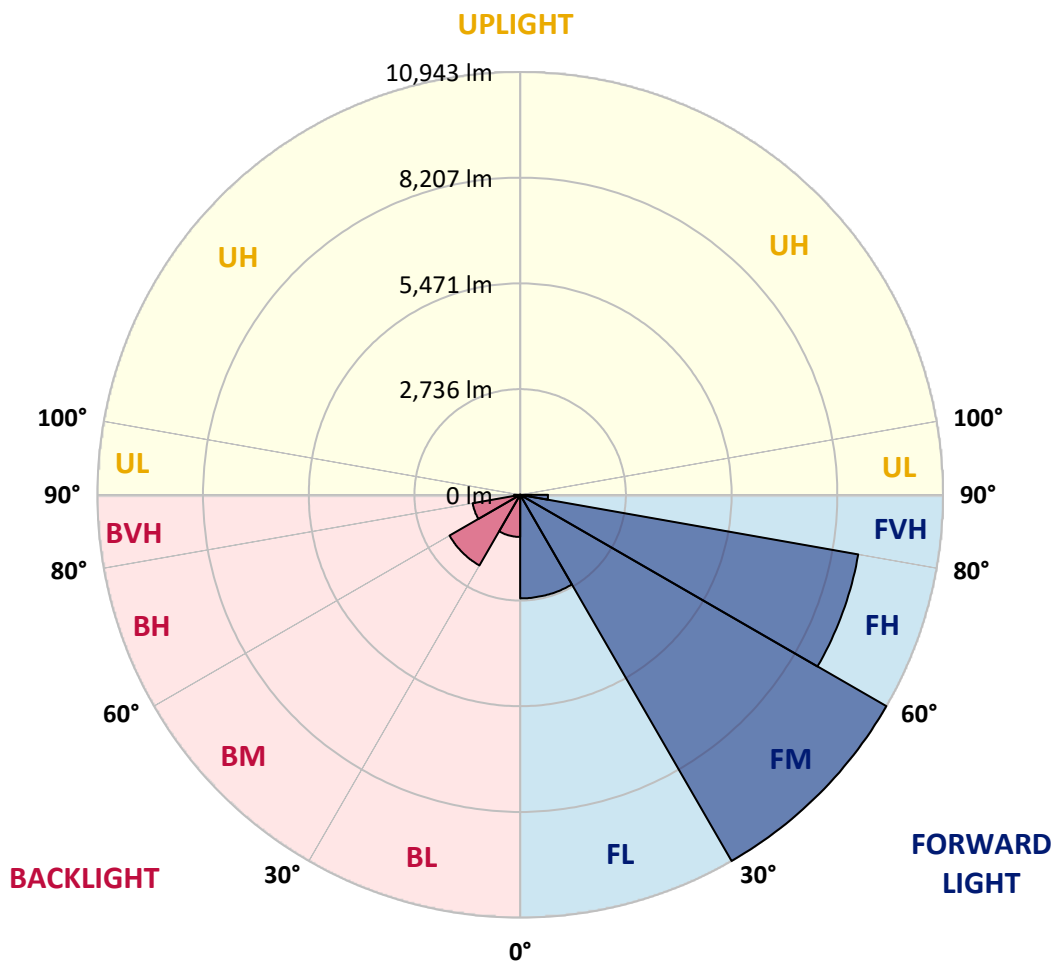
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2680.6	9.6			
FM	(30°-60°)	10943.0	39.3			
FH	(60°-80°)	8884.6	31.9			G4/12000
FVH	(80°-90°)	722.2	2.6			G4/750
BL	(0°-30°)	1089.9	3.9	B3/2500		
BM	(30°-60°)	2110.7	7.6	B2/2500		
BH	(60°-80°)	1248.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	157.2	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°	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8
2.5°	9772.1	9928.2	10232.7	10460.7	10737.7	10801.9	10890.7	10803.5	10648.9	10443.9	10376.5
5°	9189.1	9522.7	10261.8	10912.1	11490.6	11759.9	11834.9	11613.0	11164.6	10575.5	10215.9
7.5°	8254.1	8728.5	9729.2	10687.2	11539.5	12043.0	12030.7	11515.0	10690.2	9730.8	9153.9
10°	7447.7	7989.4	9137.0	10208.2	11112.6	11600.7	11412.5	10753.0	9769.0	8664.2	8038.3
12.5°	6996.2	7527.2	8691.7	9767.5	10523.4	10691.8	10547.9	9902.2	8974.8	7857.8	7309.9
15°	6918.2	7501.2	8514.2	9389.5	9813.4	9666.5	9495.1	9205.9	8551.0	7597.6	7026.8
17.5°	7256.4	7899.1	8717.8	9126.3	9054.4	8798.9	8749.9	8782.0	8624.4	7886.8	7228.8
20°	7905.2	8676.4	9202.8	9002.4	8477.5	8125.6	8137.8	8629.0	9095.7	8619.8	7868.5
22.5°	8815.7	9695.6	9902.2	9068.2	8234.2	7816.5	7917.4	8713.2	9847.1	9691.0	8731.5
25°	9994.0	10795.8	10647.4	9306.9	8258.7	7854.7	7935.8	9003.9	10734.6	10762.2	9799.6
27.5°	11135.5	11879.2	11273.3	9623.7	8359.7	7945.0	8052.1	9461.5	11582.4	11925.1	11020.8
30°	12026.1	12543.4	11521.2	9912.9	8558.6	8121.0	8254.1	9896.0	11968.0	12710.2	11960.3
32.5°	12763.7	13135.6	11916.0	10271.0	8924.3	8397.9	8632.1	10424.0	12523.5	13456.9	12880.0
35°	13706.3	13811.9	12407.2	10670.3	9489.0	8880.0	9170.7	10941.2	13052.9	14211.3	13785.9
37.5°	14811.2	14675.0	12870.8	11216.6	10218.9	9634.4	9874.6	11508.9	13489.0	15066.7	14711.7
40°	15903.8	15576.3	13452.3	12064.4	11284.0	10523.4	10808.1	12114.9	13896.1	15923.6	15616.1
42.5°	16832.6	16347.5	14026.2	12996.3	12275.6	11504.3	11844.0	12725.5	14284.8	16655.1	16401.1
45°	17519.7	16916.8	14572.4	13891.5	13642.1	12808.1	12968.8	13424.8	14705.6	17265.7	17046.8
47.5°	18133.3	17489.1	15190.7	14794.3	14837.2	14503.6	14245.0	14238.9	15201.4	17764.5	17657.4
50°	18955.0	18283.3	15854.8	15724.7	16630.6	16408.7	15838.0	15189.1	15828.8	18330.7	18318.5
52.5°	20087.4	19541.1	16665.8	16727.0	18304.7	18450.1	17743.1	16330.7	16811.2	19369.7	19296.3
55°	21426.4	21108.1	17770.6	17879.3	20358.3	20462.3	19760.0	17758.4	18255.7	20874.0	20670.4
57.5°	22471.5	22404.2	18982.6	19262.6	21891.6	22359.8	21714.1	19411.1	19883.9	22141.0	21629.9
60°	22887.8	23213.7	20272.6	20658.2	23310.1	23828.9	23262.7	20863.3	21326.9	22665.9	21564.1
62.5°	22662.8	23391.2	21646.7	21614.6	23626.9	24185.4	23787.5	21671.2	22396.6	22124.2	20473.0
65°	21623.8	22753.1	22444.0	21368.2	22543.5	22589.4	22460.8	21310.1	22649.0	20411.8	18364.4
67.5°	19360.6	20985.7	21394.2	19256.5	19620.7	19322.3	19106.5	19333.0	21333.0	17845.6	15434.0
70°	15769.1	18214.4	18410.3	15401.8	15236.6	15036.1	14606.1	15850.2	18736.2	14626.0	12246.5
72.5°	11594.6	14165.4	14766.8	11296.2	10531.1	10572.4	10232.7	11945.0	15233.5	10864.7	9143.2
75°	7932.7	10257.2	11553.3	7882.3	6964.1	6980.9	6938.1	8463.7	12133.3	7557.8	6841.7
77.5°	5795.0	7328.3	8713.2	5299.2	5144.7	5049.8	5026.8	5922.0	9302.3	5487.4	5313.0
80°	4650.4	5414.0	5853.2	3672.6	3949.5	3941.9	3814.9	4072.0	6075.0	4013.8	3974.0
82.5°	3225.7	4160.7	4742.2	2878.4	2665.7	2621.3	2651.9	3032.9	4293.8	2743.7	2609.1
85°	1701.6	2763.6	4696.3	2550.9	1582.3	1262.4	1570.0	2483.6	3720.0	1453.7	1273.2
87.5°	217.3	798.8	3109.4	1017.6	624.3	336.7	745.2	1398.6	2388.7	296.9	258.6
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°	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8
2.5°	10203.6	10000.1	9733.8	9487.5	9231.9	8977.9	8645.8	8437.7	8293.9	8266.3	8205.1
5°	9955.7	9279.4	8768.3	8326.0	7925.1	7358.9	7045.2	6785.1	6645.8	6632.0	6598.4
7.5°	8812.6	7879.2	7189.1	6563.2	5995.5	5537.9	5033.0	4797.3	4700.9	4723.8	4746.8
10°	7623.6	6580.0	5787.4	5147.7	4647.3	4261.7	3856.2	3582.3	3392.5	3354.3	3346.6
12.5°	6754.5	5609.8	4840.1	4388.7	4001.6	3638.9	3208.9	2886.0	2639.7	2555.5	2498.9
15°	6387.2	5135.5	4329.0	3842.4	3415.5	2954.9	2555.5	2217.3	1990.8	1917.4	1876.1
17.5°	6465.3	5003.9	3977.1	3354.3	2808.0	2327.5	1824.0	1534.8	1398.6	1363.4	1363.4
20°	6875.4	4979.4	3686.3	2904.4	2223.4	1666.4	1253.3	1088.0	1043.6	1039.0	1051.3
22.5°	7450.7	5065.1	3469.0	2514.2	1727.6	1216.5	976.3	915.1	895.2	899.8	913.6
25°	8307.7	5354.3	3311.4	2166.8	1355.8	996.2	870.7	834.0	824.8	837.0	853.9
27.5°	9323.7	5643.5	3213.5	1905.1	1144.6	910.5	827.9	789.6	795.7	811.0	826.3
30°	10215.9	5880.7	3058.9	1718.5	1078.8	915.1	827.9	775.8	769.7	772.8	777.4
32.5°	11016.2	6041.4	2878.4	1540.9	930.4	812.6	772.8	765.1	731.5	719.2	720.7
35°	11706.3	6041.4	2769.7	1436.9	834.0	720.7	656.5	618.2	601.4	602.9	619.7
37.5°	12372.0	5920.5	2716.2	1378.7	782.0	685.5	628.9	595.3	572.3	567.7	570.8
40°	12959.6	5744.5	2655.0	1354.3	742.2	664.1	610.6	583.0	558.5	550.9	552.4
42.5°	13430.9	5602.2	2587.6	1322.1	717.7	648.8	598.3	573.8	546.3	538.6	537.1
45°	13940.5	5554.8	2498.9	1257.9	729.9	650.4	595.3	569.2	541.7	532.5	529.5
47.5°	14612.2	5703.2	2407.1	1181.3	755.9	658.0	599.9	569.2	540.2	532.5	529.5
50°	15458.5	6052.1	2290.8	1069.6	729.9	679.4	598.3	564.7	540.2	532.5	526.4
52.5°	16544.9	6523.4	2137.7	941.1	714.6	731.5	595.3	555.5	532.5	521.8	511.1
55°	17865.5	6909.0	1955.6	835.5	679.4	717.7	590.7	544.8	520.3	505.0	495.8
57.5°	18832.6	7048.3	1721.5	766.6	630.5	694.7	584.6	531.0	505.0	492.7	480.5
60°	18641.4	6779.0	1524.1	723.8	601.4	627.4	580.0	518.8	491.2	482.0	471.3
62.5°	17109.6	6075.0	1397.1	703.9	583.0	572.3	584.6	506.5	479.0	469.8	466.7
65°	14812.7	5036.0	1346.6	699.3	567.7	540.2	543.2	492.7	465.2	457.5	454.5
67.5°	12218.9	4064.3	1302.2	714.6	547.8	517.2	501.9	474.4	451.4	443.8	437.6
70°	9635.9	3380.3	1282.3	705.4	523.3	494.3	477.4	454.5	434.6	426.9	422.3
72.5°	7759.8	2855.4	1271.6	696.3	491.2	463.7	448.4	428.5	407.0	404.0	399.4
75°	6566.2	2244.9	1164.5	667.2	454.5	426.9	416.2	397.9	376.4	376.4	373.4
77.5°	5065.1	1623.6	968.6	590.7	416.2	385.6	376.4	362.7	338.2	342.8	341.2
80°	3741.4	1058.9	757.5	489.7	368.8	339.7	335.1	321.3	295.3	301.5	301.5
82.5°	2563.1	694.7	544.8	400.9	315.2	287.7	287.7	273.9	244.8	247.9	257.1
85°	1286.9	477.4	407.0	310.6	244.8	231.1	231.1	220.4	191.3	192.8	205.1
87.5°	391.7	287.7	269.3	221.9	176.0	172.9	165.3	157.6	139.3	137.7	145.4
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°	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8
2.5°	8111.8	8024.6	7919.0	7686.4	7608.3	7603.7	7674.1	7600.7	7741.5	7681.8	7747.6
5°	6541.8	6456.1	6338.2	6041.4	5860.8	5738.4	5680.2	5508.9	5632.8	5542.5	5617.5
7.5°	4811.1	4831.0	4752.9	4578.5	4185.2	3987.8	3871.5	3767.4	3857.7	3848.5	3992.4
10°	3381.8	3435.4	3380.3	3204.3	2886.0	2777.4	2798.8	2840.1	2957.9	3019.2	3241.0
12.5°	2434.6	2431.5	2396.4	2238.7	2029.1	2041.3	2128.6	2200.5	2309.1	2373.4	2599.9
15°	1817.9	1790.4	1775.1	1646.5	1527.2	1553.2	1596.0	1603.7	1672.5	1710.8	1894.4
17.5°	1374.2	1387.9	1404.8	1312.9	1222.7	1205.8	1172.2	1130.8	1150.7	1158.4	1250.2
20°	1091.1	1146.1	1187.5	1123.2	1031.4	982.4	939.6	912.0	912.0	910.5	936.5
22.5°	953.3	993.1	1037.5	993.1	910.5	867.6	843.2	821.7	818.7	818.7	843.2
25°	878.4	907.4	950.3	919.7	858.5	826.3	803.4	775.8	765.1	762.1	778.9
27.5°	841.6	853.9	875.3	847.8	795.7	780.4	774.3	749.8	736.0	728.4	745.2
30°	778.9	775.8	777.4	749.8	708.5	707.0	717.7	722.3	717.7	716.2	742.2
32.5°	720.7	714.6	713.1	688.6	650.4	641.2	650.4	659.5	670.2	685.5	716.2
35°	647.3	662.6	671.8	650.4	604.4	576.9	566.2	549.4	540.2	540.2	575.4
37.5°	589.1	624.3	638.1	618.2	567.7	529.5	511.1	508.0	509.6	515.7	549.4
40°	569.2	595.3	607.5	587.6	537.1	501.9	491.2	488.1	491.2	500.4	534.1
42.5°	557.0	575.4	573.8	549.4	508.0	483.6	477.4	474.4	477.4	486.6	523.3
45°	546.3	558.5	546.3	517.2	479.0	466.7	468.3	466.7	469.8	479.0	514.2
47.5°	537.1	541.7	526.4	497.3	457.5	454.5	460.6	465.2	468.3	475.9	512.6
50°	523.3	523.3	509.6	479.0	439.2	440.7	448.4	459.1	460.6	469.8	498.9
52.5°	506.5	505.0	495.8	466.7	423.9	428.5	428.5	440.7	443.8	454.5	485.1
55°	492.7	489.7	485.1	457.5	410.1	417.8	413.2	417.8	425.4	436.1	469.8
57.5°	480.5	474.4	474.4	449.9	399.4	402.5	391.7	397.9	407.0	416.2	451.4
60°	468.3	462.1	465.2	439.2	382.6	379.5	374.9	387.2	390.2	400.9	436.1
62.5°	454.5	449.9	451.4	426.9	370.3	362.7	362.7	373.4	374.9	390.2	423.9
65°	443.8	437.6	436.1	414.7	356.5	347.4	352.0	356.5	359.6	374.9	407.0
67.5°	433.1	420.8	420.8	404.0	341.2	332.1	341.2	339.7	344.3	358.1	384.1
70°	419.3	402.5	404.0	396.3	325.9	315.2	322.9	321.3	324.4	333.6	359.6
72.5°	397.9	384.1	387.2	384.1	310.6	295.3	298.4	298.4	298.4	306.0	333.6
75°	370.3	359.6	368.8	376.4	292.3	270.9	273.9	273.9	269.3	273.9	307.6
77.5°	336.7	330.5	361.1	350.4	270.9	244.8	244.8	241.8	232.6	238.7	275.4
80°	299.9	295.3	333.6	293.8	246.4	212.7	209.6	202.0	192.8	197.4	234.1
82.5°	261.7	257.1	280.0	224.9	212.7	176.0	168.3	154.6	145.4	150.0	183.6
85°	214.2	214.2	215.8	169.9	162.2	134.7	125.5	107.1	96.4	99.5	131.6
87.5°	153.0	157.6	145.4	116.3	96.4	75.0	68.9	58.1	49.0	56.6	68.9
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: P193818

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-8030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8	9404.8
2.5°	8084.2	8252.6	8443.8	8688.7	8898.3	9242.6	9573.2	9772.1
5°	6044.4	6324.5	6673.4	7121.7	7539.5	8166.9	8789.7	9189.1
7.5°	4326.0	4625.9	5002.3	5562.4	6153.1	6953.4	7776.7	8254.1
10°	3579.2	3886.8	4203.6	4581.5	5065.1	5935.8	6909.0	7447.7
12.5°	2961.0	3290.0	3631.3	4029.1	4477.5	5254.8	6376.5	6996.2
15°	2266.3	2633.5	3036.0	3539.4	4101.0	4999.3	6244.9	6918.2
17.5°	1553.2	1963.3	2457.6	3078.8	3765.9	4916.7	6480.6	7256.4
20°	1069.6	1368.0	1896.0	2624.4	3450.7	4905.9	6933.5	7905.2
22.5°	895.2	1028.3	1413.9	2206.6	3213.5	5037.5	7635.9	8815.7
25°	827.9	907.4	1129.3	1843.9	3040.6	5340.5	8603.0	9994.0
27.5°	788.1	860.0	1025.3	1606.7	2904.4	5692.5	9544.1	11135.5
30°	803.4	876.8	996.2	1485.9	2719.2	5986.3	10379.6	12026.1
32.5°	723.8	755.9	853.9	1378.7	2586.1	6232.7	11111.1	12763.7
35°	616.7	673.3	762.1	1328.2	2589.2	6397.9	11908.3	13706.3
37.5°	587.6	644.2	708.5	1309.9	2624.4	6573.9	12823.4	14811.2
40°	569.2	621.3	676.4	1299.2	2658.0	6734.6	13720.1	15903.8
42.5°	557.0	604.4	673.3	1262.4	2674.9	6878.4	14457.7	16832.6
45°	555.5	604.4	685.5	1225.7	2700.9	7033.0	15075.9	17519.7
47.5°	557.0	624.3	662.6	1181.3	2700.9	7291.6	15801.2	18133.3
50°	550.9	658.0	638.1	1118.6	2638.1	7781.3	16795.9	18955.0
52.5°	547.8	653.4	590.7	1022.2	2529.5	8558.6	18070.6	20087.4
55°	540.2	630.5	557.0	878.4	2402.5	9406.4	19435.5	21426.4
57.5°	532.5	558.5	538.6	752.9	2206.6	10003.2	20375.1	22471.5
60°	596.8	488.1	523.3	691.7	1944.9	10166.9	20338.4	22887.8
62.5°	552.4	457.5	503.4	677.9	1761.3	9707.8	19398.8	22662.8
65°	433.1	437.6	483.6	717.7	1712.3	8491.3	17733.9	21623.8
67.5°	396.3	417.8	463.7	768.2	1716.9	6798.8	15245.8	19360.6
70°	373.4	396.3	440.7	794.2	1729.2	5068.1	12053.7	15769.1
72.5°	347.4	367.3	414.7	798.8	1649.6	3681.8	9290.1	11594.6
75°	316.8	335.1	378.0	696.3	1366.5	2554.0	7106.4	7932.7
77.5°	281.6	295.3	332.1	537.1	1014.5	1634.3	5334.4	5795.0
80°	240.2	247.9	278.5	393.3	694.7	1022.2	4220.4	4650.4
82.5°	192.8	195.9	215.8	295.3	451.4	656.5	2826.3	3225.7
85°	136.2	136.2	148.4	214.2	307.6	416.2	1534.8	1701.6
87.5°	64.3	65.8	65.8	117.8	160.7	211.2	353.5	217.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)