

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: P192081

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192081
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-03-LED-E1-SLL-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 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: 12903 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

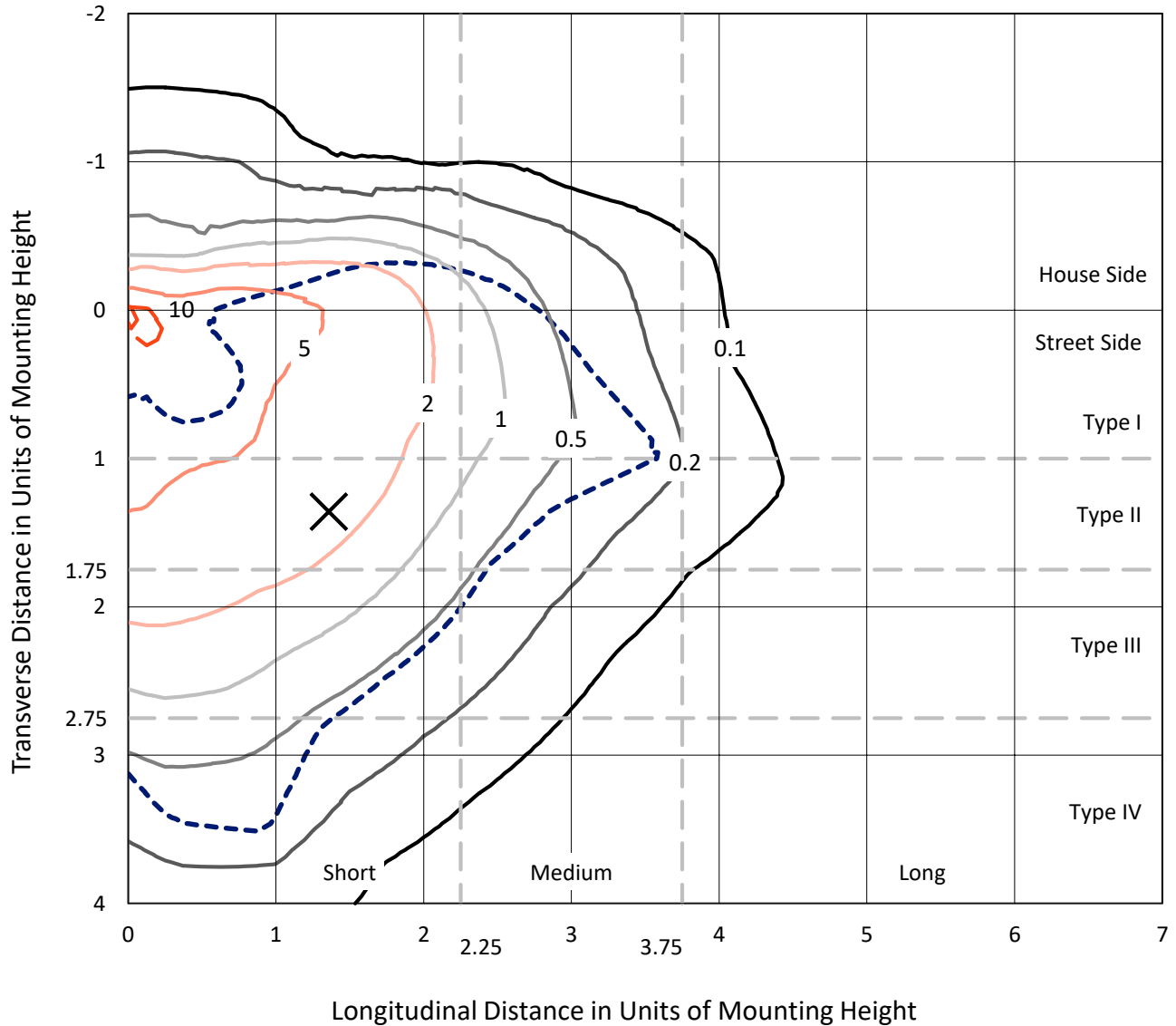
Input Watts (W): 124
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

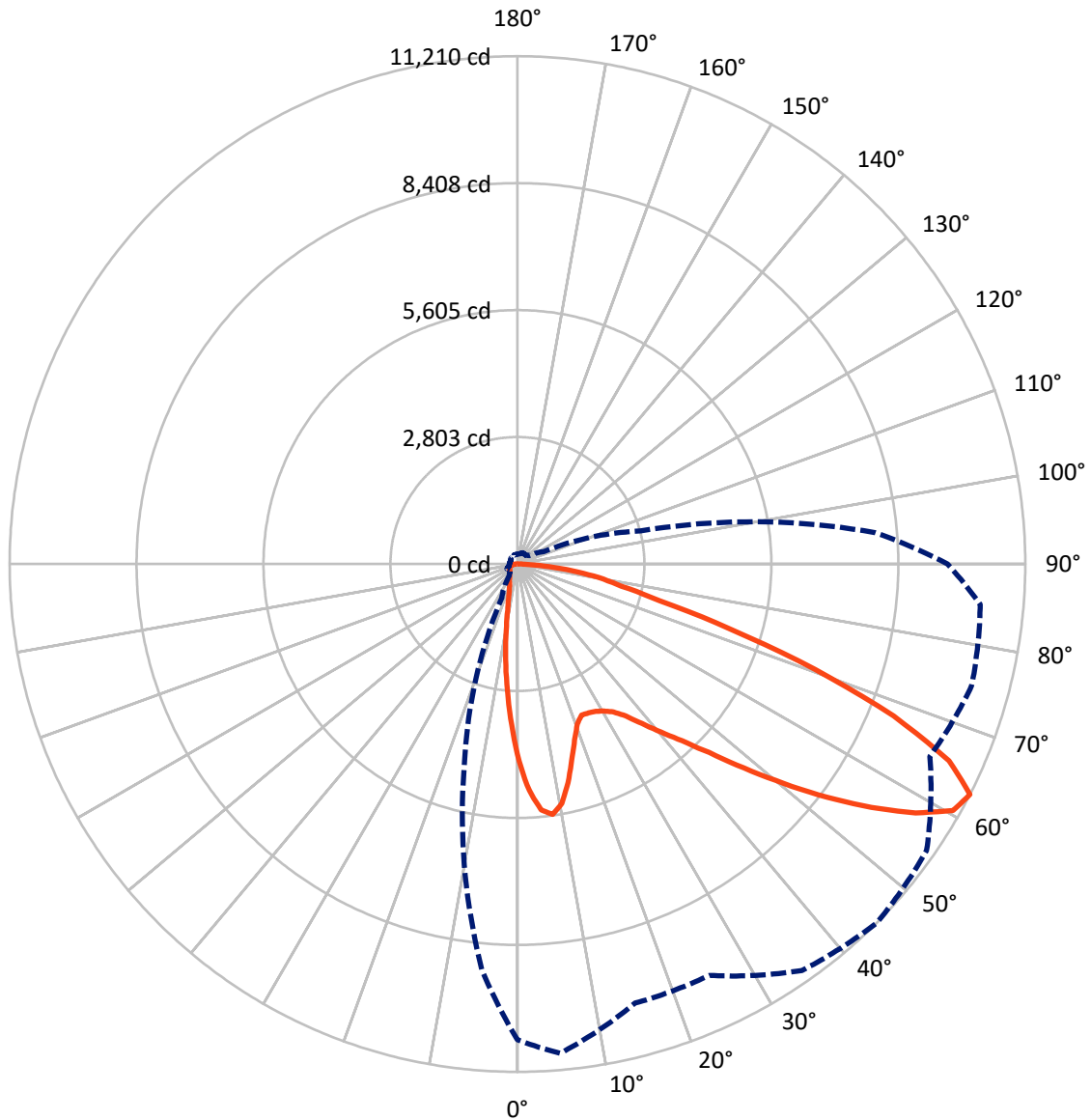
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.8 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	2135.3	0.0	2135.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10767.7	0.0	10767.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	12903.0	0.0	12903.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.3	2.5
10°-20°	581.9	4.5
20°-30°	848.4	6.6
30°-40°	1306.7	10.1
40°-50°	1923.1	14.9
50°-60°	2820.8	21.9
60°-70°	3153.3	24.4
70°-80°	1543.8	12.0
80°-90°	407.6	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°	12903.0	100.0
0°-180°	12903.0	100.0



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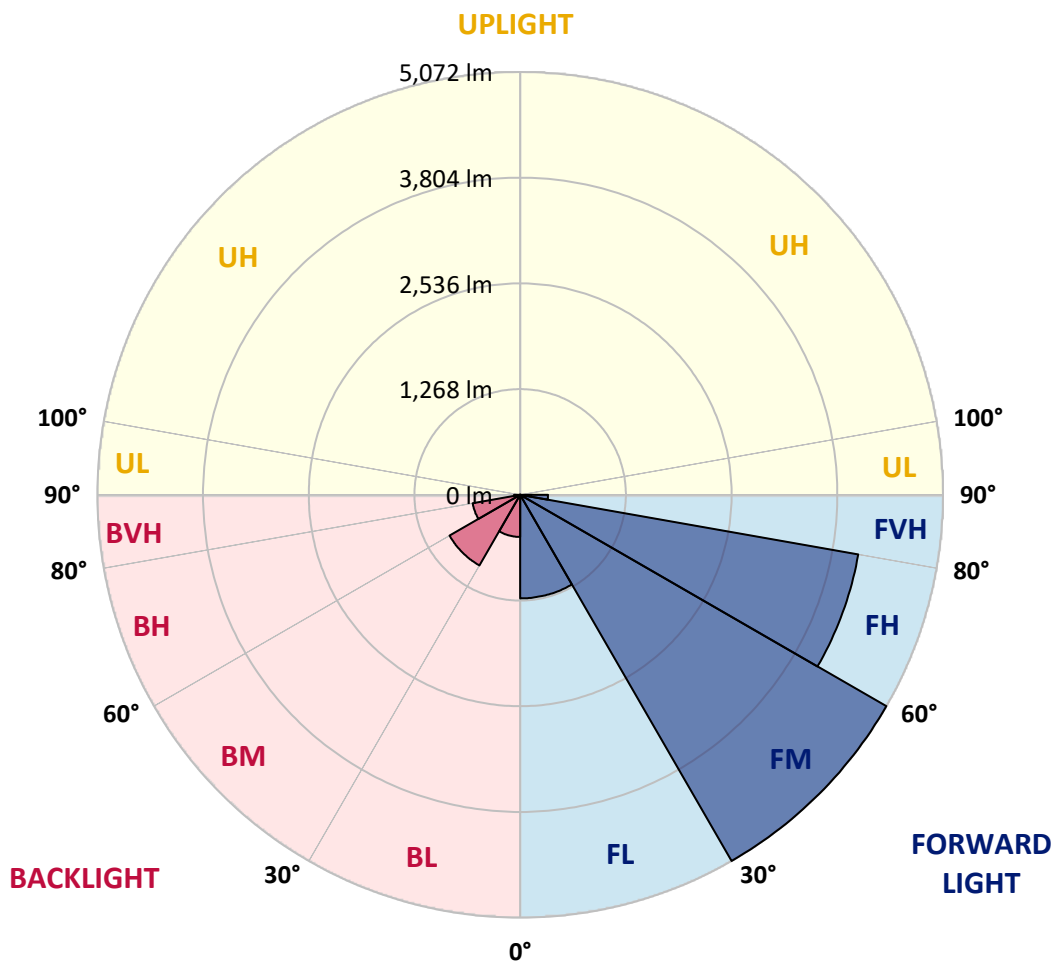
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-7050-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1242.5	9.6			
FM	(30°-60°)	5072.3	39.3			
FH	(60°-80°)	4118.2	31.9			G2/5000
FVH	(80°-90°)	334.7	2.6			G3/500
BL	(0°-30°)	505.2	3.9	B2/1000		
BM	(30°-60°)	978.4	7.6	B1/1000		
BH	(60°-80°)	578.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	72.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3
2.5°	4529.6	4601.9	4743.1	4848.7	4977.1	5006.9	5048.1	5007.6	4936.0	4840.9	4809.7
5°	4259.3	4413.9	4756.5	5058.0	5326.1	5450.9	5485.7	5382.8	5175.0	4901.9	4735.3
7.5°	3825.9	4045.8	4509.7	4953.7	5348.8	5582.2	5576.5	5337.4	4955.1	4510.4	4243.0
10°	3452.1	3703.2	4235.2	4731.7	5150.9	5377.2	5289.9	4984.2	4528.1	4016.0	3725.9
12.5°	3242.9	3489.0	4028.8	4527.4	4877.8	4955.8	4889.2	4589.8	4160.0	3642.2	3388.3
15°	3206.7	3477.0	3946.5	4352.2	4548.7	4480.6	4401.2	4267.1	3963.5	3521.7	3257.1
17.5°	3363.5	3661.4	4040.9	4230.2	4196.9	4078.4	4055.8	4070.6	3997.6	3655.7	3350.7
20°	3664.2	4021.7	4265.7	4172.8	3929.5	3766.4	3772.0	3999.7	4216.1	3995.5	3647.2
22.5°	4086.2	4494.1	4589.8	4203.3	3816.7	3623.1	3669.9	4038.7	4564.3	4492.0	4047.2
25°	4632.4	5004.1	4935.3	4313.9	3828.1	3640.8	3678.4	4173.5	4975.7	4988.5	4542.3
27.5°	5161.5	5506.3	5225.4	4460.8	3874.9	3682.7	3732.3	4385.6	5368.7	5527.5	5108.3
30°	5574.4	5814.1	5340.3	4594.8	3967.1	3764.2	3825.9	4587.0	5547.4	5891.4	5543.9
32.5°	5916.2	6088.6	5523.3	4760.8	4136.6	3892.6	4001.1	4831.7	5804.9	6237.5	5970.1
35°	6353.2	6402.1	5751.0	4945.9	4398.3	4116.0	4250.8	5071.5	6050.3	6587.2	6390.0
37.5°	6865.3	6802.1	5965.9	5199.1	4736.7	4465.7	4577.1	5334.6	6252.4	6983.7	6819.2
40°	7371.7	7219.9	6235.4	5592.1	5230.3	4877.8	5009.8	5615.5	6441.1	7380.9	7238.4
42.5°	7802.2	7577.4	6501.4	6024.0	5690.0	5332.5	5489.9	5898.5	6621.3	7720.0	7602.2
45°	8120.7	7841.3	6754.6	6439.0	6323.4	5936.8	6011.3	6222.6	6816.3	8003.0	7901.5
47.5°	8405.1	8106.5	7041.2	6857.5	6877.3	6722.7	6602.8	6600.0	7046.1	8234.2	8184.6
50°	8786.0	8474.7	7349.0	7288.7	7708.6	7605.8	7341.2	7040.5	7336.9	8496.6	8491.0
52.5°	9310.9	9057.7	7724.9	7753.3	8484.6	8552.0	8224.3	7569.6	7792.3	8978.3	8944.2
55°	9931.6	9784.0	8237.0	8287.4	9436.5	9484.7	9159.1	8231.4	8461.9	9675.5	9581.2
57.5°	10416.0	10384.8	8798.8	8928.6	10147.2	10364.2	10064.9	8997.4	9216.6	10262.8	10025.9
60°	10608.9	10760.0	9396.7	9575.5	10804.7	11045.1	10782.7	9670.5	9885.4	10506.1	9995.4
62.5°	10504.7	10842.3	10033.7	10018.8	10951.5	11210.4	11026.0	10045.0	10381.2	10255.0	9489.7
65°	10023.1	10546.5	10403.2	9904.6	10449.3	10470.6	10411.0	9877.6	10498.3	9461.3	8512.3
67.5°	8974.0	9727.3	9916.7	8925.8	9094.6	8956.3	8856.3	8961.2	9888.3	8271.8	7154.0
70°	7309.3	8442.7	8533.5	7139.1	7062.5	6969.5	6770.2	7346.9	8684.6	6779.4	5676.5
72.5°	5374.3	6565.9	6844.7	5236.0	4881.4	4900.5	4743.1	5536.8	7061.0	5036.0	4238.0
75°	3677.0	4754.4	5355.2	3653.6	3228.0	3235.8	3215.9	3923.1	5624.0	3503.2	3171.3
77.5°	2686.1	3396.8	4038.7	2456.3	2384.7	2340.7	2330.0	2745.0	4311.8	2543.5	2462.7
80°	2155.5	2509.5	2713.1	1702.3	1830.7	1827.1	1768.3	1887.4	2815.9	1860.5	1842.0
82.5°	1495.2	1928.6	2198.1	1334.2	1235.6	1215.0	1229.2	1405.8	1990.3	1271.8	1209.3
85°	788.7	1281.0	2176.8	1182.4	733.4	585.2	727.7	1151.2	1724.3	673.8	590.1
87.5°	100.7	370.3	1441.3	471.7	289.4	156.0	345.4	648.3	1107.2	137.6	119.9
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°	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3
2.5°	4729.6	4635.2	4511.8	4397.6	4279.2	4161.4	4007.5	3911.1	3844.4	3831.6	3803.2
5°	4614.7	4301.2	4064.3	3859.3	3673.4	3411.0	3265.6	3145.0	3080.5	3074.1	3058.5
7.5°	4084.8	3652.2	3332.3	3042.2	2779.0	2566.9	2332.9	2223.6	2179.0	2189.6	2200.2
10°	3533.7	3050.0	2682.6	2386.1	2154.1	1975.4	1787.4	1660.5	1572.5	1554.8	1551.2
12.5°	3130.8	2600.3	2243.5	2034.3	1854.8	1686.7	1487.4	1337.7	1223.5	1184.5	1158.3
15°	2960.6	2380.4	2006.6	1781.0	1583.1	1369.6	1184.5	1027.8	922.8	888.7	869.6
17.5°	2996.8	2319.4	1843.5	1554.8	1301.6	1078.8	845.5	711.4	648.3	632.0	632.0
20°	3186.9	2308.0	1708.7	1346.2	1030.6	772.4	580.9	504.3	483.7	481.6	487.3
22.5°	3453.6	2347.8	1608.0	1165.4	800.8	563.9	452.5	424.2	414.9	417.1	423.4
25°	3850.8	2481.8	1534.9	1004.4	628.4	461.8	403.6	386.6	382.3	388.0	395.8
27.5°	4321.7	2615.9	1489.5	883.1	530.6	422.0	383.7	366.0	368.8	375.9	383.0
30°	4735.3	2725.8	1417.9	796.5	500.1	424.2	383.7	359.6	356.8	358.2	360.3
32.5°	5106.2	2800.3	1334.2	714.3	431.3	376.6	358.2	354.6	339.0	333.4	334.1
35°	5426.1	2800.3	1283.8	666.0	386.6	334.1	304.3	286.6	278.8	279.5	287.3
37.5°	5734.7	2744.3	1259.0	639.1	362.4	317.8	291.5	275.9	265.3	263.1	264.6
40°	6007.0	2662.7	1230.6	627.7	344.0	307.8	283.0	270.2	258.9	255.3	256.1
42.5°	6225.5	2596.7	1199.4	612.8	332.7	300.7	277.3	266.0	253.2	249.7	249.0
45°	6461.7	2574.7	1158.3	583.0	338.3	301.5	275.9	263.9	251.1	246.8	245.4
47.5°	6773.1	2643.5	1115.7	547.6	350.4	305.0	278.0	263.9	250.4	246.8	245.4
50°	7165.3	2805.3	1061.8	495.8	338.3	314.9	277.3	261.7	250.4	246.8	244.0
52.5°	7668.9	3023.7	990.9	436.2	331.2	339.0	275.9	257.5	246.8	241.9	236.9
55°	8281.0	3202.5	906.5	387.3	314.9	332.7	273.8	252.5	241.2	234.1	229.8
57.5°	8729.3	3267.0	798.0	355.4	292.2	322.0	271.0	246.1	234.1	228.4	222.7
60°	8640.6	3142.2	706.5	335.5	278.8	290.8	268.8	240.5	227.7	223.4	218.5
62.5°	7930.6	2815.9	647.6	326.3	270.2	265.3	271.0	234.8	222.0	217.8	216.3
65°	6866.0	2334.3	624.2	324.1	263.1	250.4	251.8	228.4	215.6	212.1	210.7
67.5°	5663.7	1883.9	603.6	331.2	253.9	239.7	232.6	219.9	209.2	205.7	202.9
70°	4466.4	1566.8	594.4	327.0	242.6	229.1	221.3	210.7	201.4	197.9	195.8
72.5°	3596.8	1323.5	589.4	322.7	227.7	214.9	207.8	198.6	188.7	187.3	185.1
75°	3043.6	1040.5	539.8	309.3	210.7	197.9	192.9	184.4	174.5	174.5	173.1
77.5°	2347.8	752.6	449.0	273.8	192.9	178.7	174.5	168.1	156.8	158.9	158.2
80°	1734.2	490.8	351.1	227.0	170.9	157.5	155.3	149.0	136.9	139.7	139.7
82.5°	1188.1	322.0	252.5	185.8	146.1	133.3	133.3	127.0	113.5	114.9	119.2
85°	596.5	221.3	188.7	144.0	113.5	107.1	107.1	102.1	88.7	89.4	95.0
87.5°	181.6	133.3	124.8	102.8	81.6	80.2	76.6	73.1	64.5	63.8	67.4
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°	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3
2.5°	3760.0	3719.5	3670.6	3562.8	3526.6	3524.5	3557.1	3523.1	3588.3	3560.7	3591.2
5°	3032.2	2992.5	2937.9	2800.3	2716.6	2659.9	2632.9	2553.5	2610.9	2569.1	2603.8
7.5°	2230.0	2239.2	2203.1	2122.2	1939.9	1848.4	1794.5	1746.3	1788.1	1783.9	1850.6
10°	1567.5	1592.4	1566.8	1485.3	1337.7	1287.4	1297.3	1316.5	1371.1	1399.4	1502.3
12.5°	1128.5	1127.1	1110.8	1037.7	940.5	946.2	986.6	1020.0	1070.3	1100.1	1205.1
15°	842.6	829.9	822.8	763.2	707.9	719.9	739.8	743.3	775.3	793.0	878.1
17.5°	636.9	643.3	651.1	608.6	566.7	558.9	543.3	524.2	533.4	536.9	579.5
20°	505.7	531.3	550.4	520.6	478.1	455.4	435.5	422.7	422.7	422.0	434.1
22.5°	441.9	460.3	480.9	460.3	422.0	402.2	390.8	380.9	379.5	379.5	390.8
25°	407.1	420.6	440.5	426.3	397.9	383.0	372.4	359.6	354.6	353.2	361.0
27.5°	390.1	395.8	405.7	392.9	368.8	361.7	358.9	347.6	341.2	337.6	345.4
30°	361.0	359.6	360.3	347.6	328.4	327.7	332.7	334.8	332.7	332.0	344.0
32.5°	334.1	331.2	330.5	319.2	301.5	297.2	301.5	305.7	310.7	317.8	332.0
35°	300.0	307.1	311.4	301.5	280.2	267.4	262.4	254.6	250.4	250.4	266.7
37.5°	273.1	289.4	295.8	286.6	263.1	245.4	236.9	235.5	236.2	239.0	254.6
40°	263.9	275.9	281.6	272.4	249.0	232.6	227.7	226.3	227.7	231.9	247.5
42.5°	258.2	266.7	266.0	254.6	235.5	224.1	221.3	219.9	221.3	225.6	242.6
45°	253.2	258.9	253.2	239.7	222.0	216.3	217.0	216.3	217.8	222.0	238.3
47.5°	249.0	251.1	244.0	230.5	212.1	210.7	213.5	215.6	217.0	220.6	237.6
50°	242.6	242.6	236.2	222.0	203.6	204.3	207.8	212.8	213.5	217.8	231.2
52.5°	234.8	234.1	229.8	216.3	196.5	198.6	198.6	204.3	205.7	210.7	224.8
55°	228.4	227.0	224.8	212.1	190.1	193.6	191.5	193.6	197.2	202.1	217.8
57.5°	222.7	219.9	219.9	208.5	185.1	186.5	181.6	184.4	188.7	192.9	209.2
60°	217.0	214.2	215.6	203.6	177.3	175.9	173.8	179.5	180.9	185.8	202.1
62.5°	210.7	208.5	209.2	197.9	171.6	168.1	168.1	173.1	173.8	180.9	196.5
65°	205.7	202.9	202.1	192.2	165.3	161.0	163.1	165.3	166.7	173.8	188.7
67.5°	200.7	195.1	195.1	187.3	158.2	153.9	158.2	157.5	159.6	166.0	178.0
70°	194.3	186.5	187.3	183.7	151.1	146.1	149.7	149.0	150.4	154.6	166.7
72.5°	184.4	178.0	179.5	178.0	144.0	136.9	138.3	138.3	138.3	141.9	154.6
75°	171.6	166.7	170.9	174.5	135.5	125.5	127.0	127.0	124.8	127.0	142.6
77.5°	156.0	153.2	167.4	162.4	125.5	113.5	113.5	112.1	107.8	110.7	127.7
80°	139.0	136.9	154.6	136.2	114.2	98.6	97.2	93.6	89.4	91.5	108.5
82.5°	121.3	119.2	129.8	104.3	98.6	81.6	78.0	71.6	67.4	69.5	85.1
85°	99.3	99.3	100.0	78.7	75.2	62.4	58.2	49.7	44.7	46.1	61.0
87.5°	70.9	73.1	67.4	53.9	44.7	34.8	31.9	27.0	22.7	26.2	31.9
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-03-LED-E1-SLL-7050-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3	4359.3
2.5°	3747.2	3825.2	3913.9	4027.4	4124.6	4284.1	4437.4	4529.6
5°	2801.7	2931.5	3093.2	3301.1	3494.7	3785.5	4074.2	4259.3
7.5°	2005.2	2144.2	2318.7	2578.3	2852.1	3223.0	3604.6	3825.9
10°	1659.0	1801.6	1948.4	2123.6	2347.8	2751.4	3202.5	3452.1
12.5°	1372.5	1525.0	1683.2	1867.6	2075.4	2435.7	2955.6	3242.9
15°	1050.5	1220.7	1407.2	1640.6	1900.9	2317.3	2894.6	3206.7
17.5°	719.9	910.0	1139.1	1427.1	1745.6	2279.0	3003.9	3363.5
20°	495.8	634.1	878.8	1216.4	1599.5	2274.0	3213.8	3664.2
22.5°	414.9	476.6	655.4	1022.8	1489.5	2335.0	3539.4	4086.2
25°	383.7	420.6	523.5	854.7	1409.4	2475.4	3987.7	4632.4
27.5°	365.3	398.6	475.2	744.8	1346.2	2638.6	4423.9	5161.5
30°	372.4	406.4	461.8	688.7	1260.4	2774.8	4811.1	5574.4
32.5°	335.5	350.4	395.8	639.1	1198.7	2889.0	5150.2	5916.2
35°	285.8	312.1	353.2	615.7	1200.1	2965.6	5519.7	6353.2
37.5°	272.4	298.6	328.4	607.2	1216.4	3047.1	5943.9	6865.3
40°	263.9	288.0	313.5	602.2	1232.0	3121.6	6359.5	7371.7
42.5°	258.2	280.2	312.1	585.2	1239.8	3188.3	6701.4	7802.2
45°	257.5	280.2	317.8	568.1	1251.9	3259.9	6988.0	8120.7
47.5°	258.2	289.4	307.1	547.6	1251.9	3379.8	7324.2	8405.1
50°	255.3	305.0	295.8	518.5	1222.8	3606.8	7785.2	8786.0
52.5°	253.9	302.9	273.8	473.8	1172.5	3967.1	8376.1	9310.9
55°	250.4	292.2	258.2	407.1	1113.6	4360.0	9008.8	9931.6
57.5°	246.8	258.9	249.7	349.0	1022.8	4636.7	9444.3	10416.0
60°	276.6	226.3	242.6	320.6	901.5	4712.6	9427.2	10608.9
62.5°	256.1	212.1	233.4	314.2	816.4	4499.8	8991.7	10504.7
65°	200.7	202.9	224.1	332.7	793.7	3935.9	8220.0	10023.1
67.5°	183.7	193.6	214.9	356.1	795.8	3151.4	7066.7	8974.0
70°	173.1	183.7	204.3	368.1	801.5	2349.2	5587.1	7309.3
72.5°	161.0	170.2	192.2	370.3	764.6	1706.6	4306.1	5374.3
75°	146.8	155.3	175.2	322.7	633.4	1183.8	3294.0	3677.0
77.5°	130.5	136.9	153.9	249.0	470.3	757.5	2472.6	2686.1
80°	111.4	114.9	129.1	182.3	322.0	473.8	1956.2	2155.5
82.5°	89.4	90.8	100.0	136.9	209.2	304.3	1310.1	1495.2
85°	63.1	63.1	68.8	99.3	142.6	192.9	711.4	788.7
87.5°	29.8	30.5	30.5	54.6	74.5	97.9	163.8	100.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)