

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: P269330

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269330
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-SLL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 14965.6 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

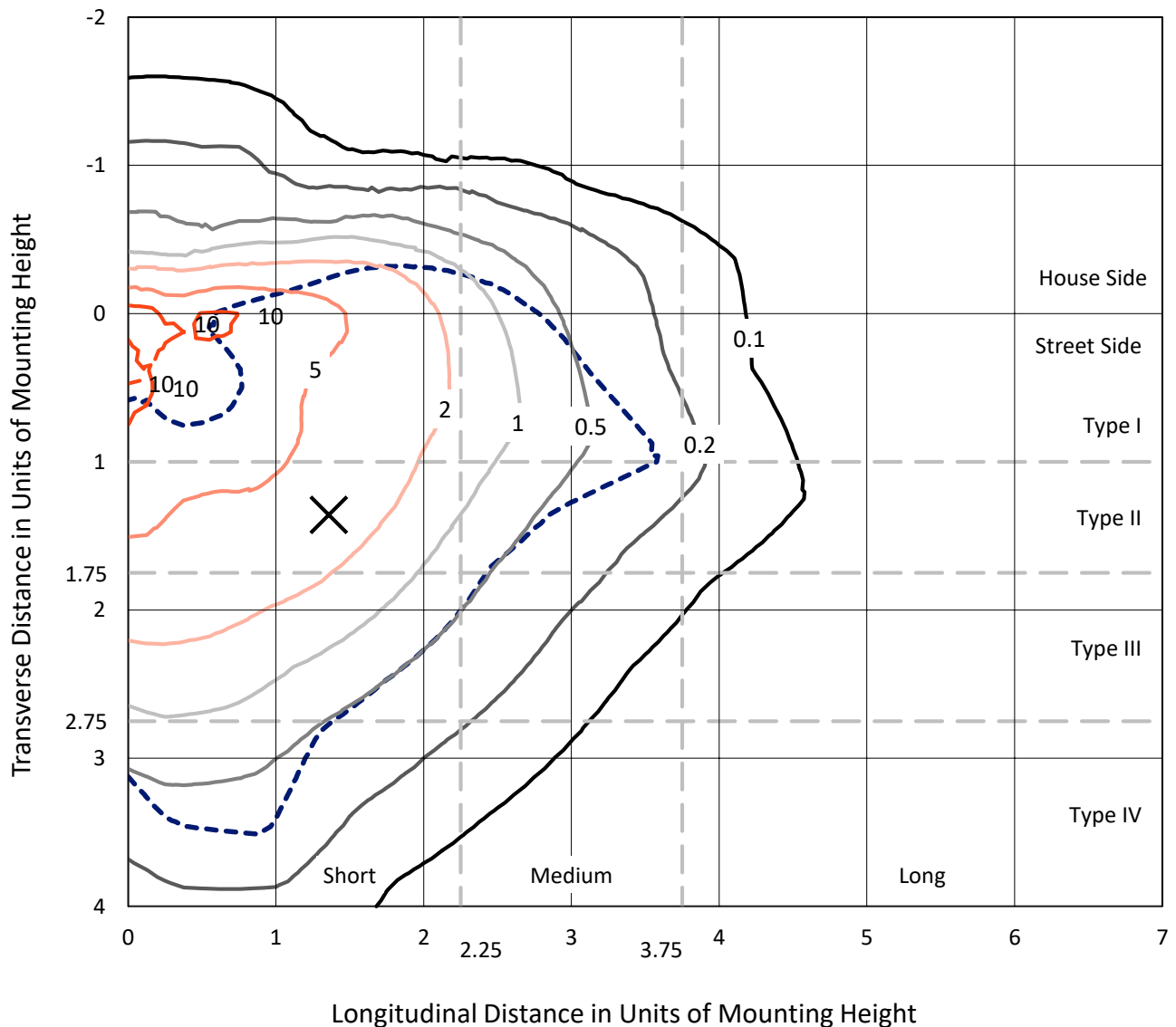
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

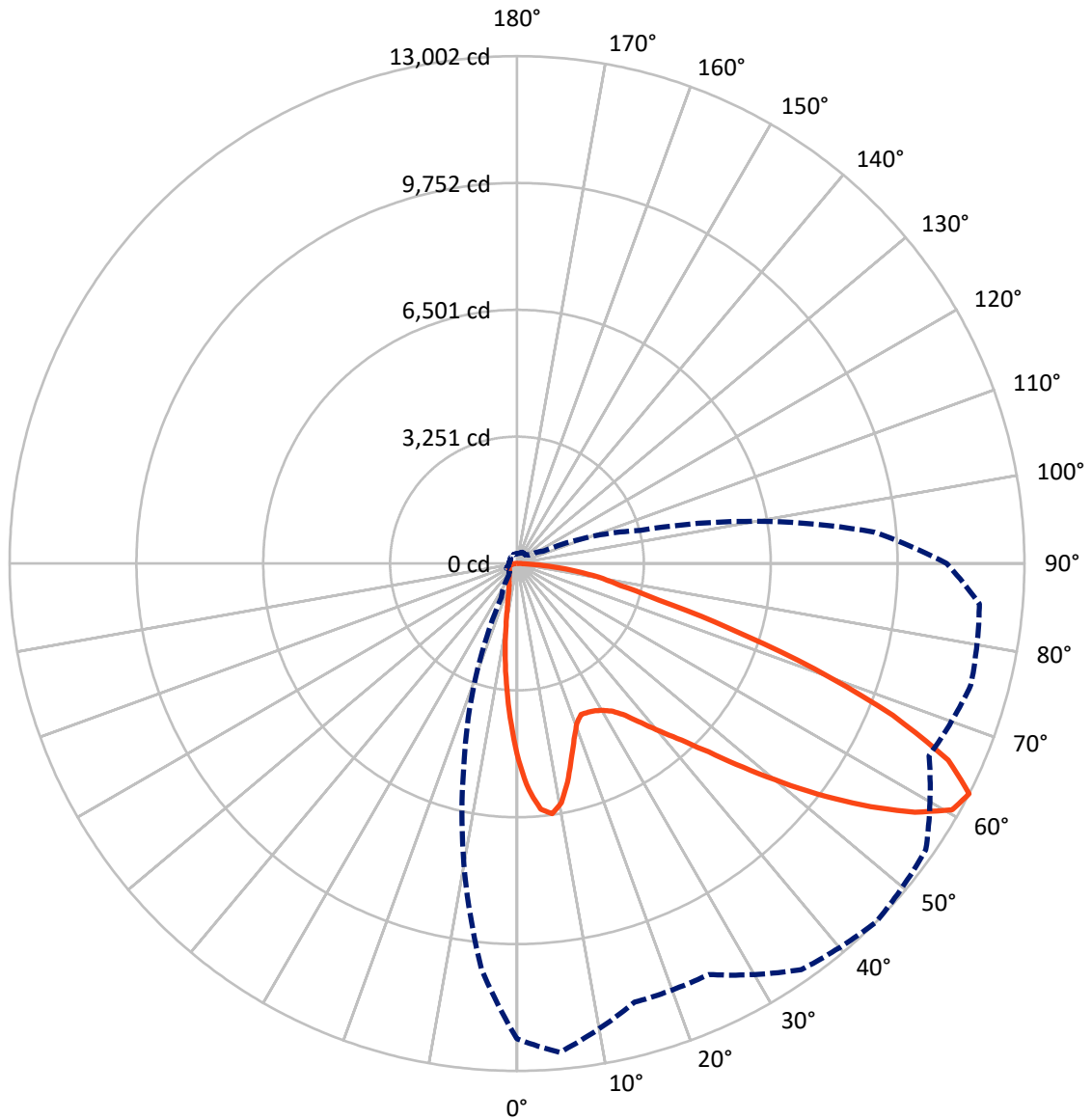
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.9 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	2476.6	0.0	2476.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12489.0	0.0	12489.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	14965.6	0.0	14965.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.1	2.5
10°-20°	674.9	4.5
20°-30°	984.1	6.6
30°-40°	1515.6	10.1
40°-50°	2230.5	14.9
50°-60°	3271.7	21.9
60°-70°	3657.3	24.4
70°-80°	1790.6	12.0
80°-90°	472.8	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°	14965.6	100.0
0°-180°	14965.6	100.0

Coefficient of Utilization



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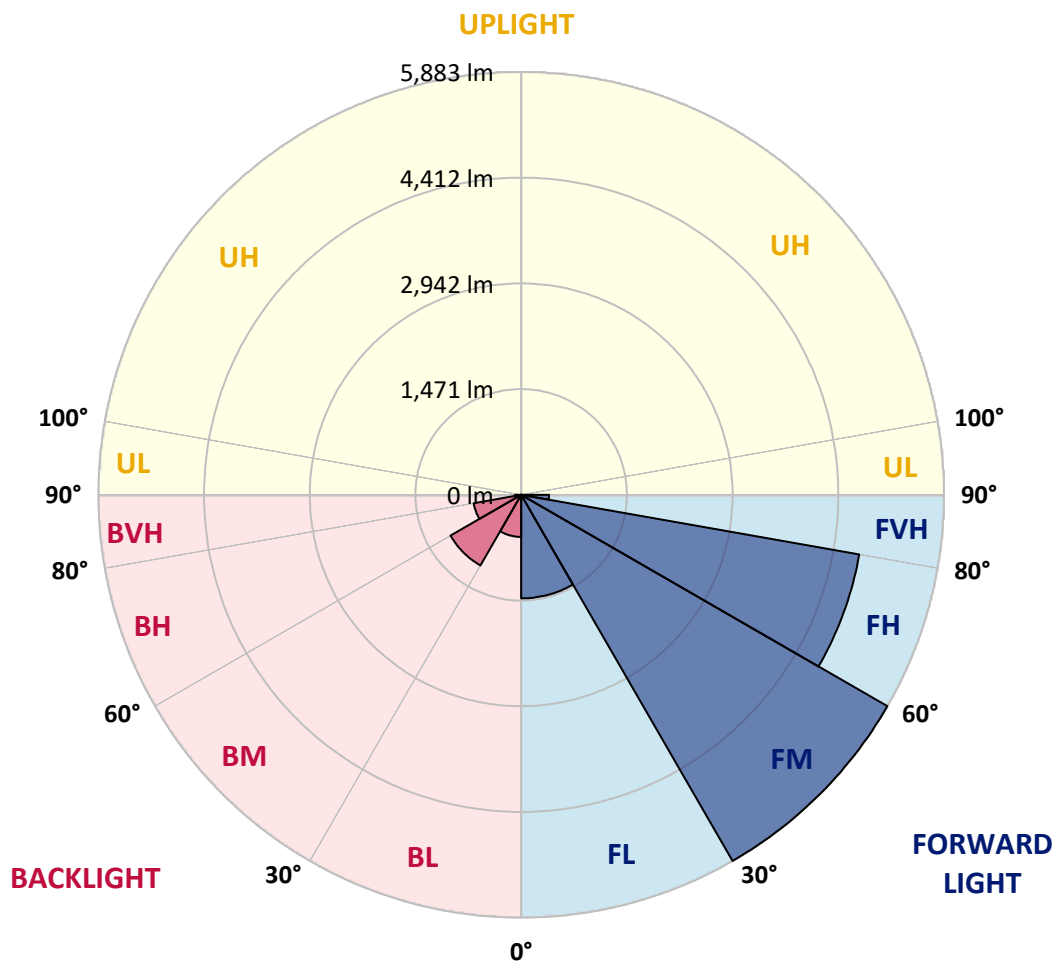
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1441.1	9.6			
FM	(30°-60°)	5883.1	39.3			
FH	(60°-80°)	4776.5	31.9			G2/5000
FVH	(80°-90°)	388.2	2.6			G3/500
BL	(0°-30°)	585.9	3.9	B2/1000		
BM	(30°-60°)	1134.8	7.6	B2/2500		
BH	(60°-80°)	671.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	84.5	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°	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2
2.5°	5253.6	5337.5	5501.3	5623.8	5772.8	5807.4	5855.1	5808.1	5725.1	5614.8	5578.7
5°	4940.1	5119.5	5516.9	5866.6	6177.6	6322.4	6362.6	6243.3	6002.2	5685.6	5492.1
7.5°	4437.5	4692.6	5230.7	5745.6	6203.9	6474.5	6467.9	6190.7	5747.3	5231.4	4921.3
10°	4003.9	4295.2	4912.2	5488.1	5974.3	6236.8	6135.6	5781.0	5252.0	4658.0	4321.6
12.5°	3761.4	4046.8	4672.9	5251.1	5657.5	5748.1	5670.7	5323.5	4825.1	4224.5	3929.9
15°	3719.3	4032.9	4577.5	5047.9	5275.8	5196.9	5104.7	4949.2	4597.2	4084.7	3777.7
17.5°	3901.2	4246.6	4686.7	4906.5	4867.7	4730.5	4704.1	4721.3	4636.6	4240.1	3886.3
20°	4250.1	4664.5	4947.7	4839.8	4557.6	4368.5	4375.0	4639.0	4890.1	4634.1	4230.2
22.5°	4739.5	5212.5	5323.5	4875.2	4426.8	4202.2	4256.6	4684.3	5293.9	5210.0	4694.3
25°	5372.9	5803.9	5724.2	5003.6	4440.1	4222.8	4266.4	4840.6	5771.2	5786.0	5268.5
27.5°	5986.7	6386.5	6060.7	5173.9	4494.3	4271.4	4328.9	5086.7	6227.0	6411.2	5925.0
30°	6465.5	6743.5	6194.0	5329.4	4601.3	4365.9	4437.5	5320.3	6434.2	6833.1	6430.1
32.5°	6862.1	7061.8	6406.3	5521.8	4797.8	4514.9	4640.7	5604.0	6732.8	7234.7	6924.6
35°	7368.7	7425.5	6670.4	5736.5	5101.5	4774.0	4930.3	5882.2	7017.5	7640.3	7411.6
37.5°	7962.8	7889.5	6919.6	6030.2	5493.9	5179.5	5308.8	6187.3	7251.9	8100.0	7909.2
40°	8550.1	8374.1	7232.2	6486.0	6066.4	5657.5	5810.5	6513.3	7470.8	8560.8	8395.5
42.5°	9049.4	8788.7	7540.7	6987.0	6599.6	6184.9	6367.5	6841.4	7679.7	8954.0	8817.6
45°	9418.9	9094.7	7834.4	7468.2	7334.2	6885.9	6972.3	7217.4	7906.0	9282.2	9164.7
47.5°	9748.8	9402.4	8166.8	7953.7	7976.7	7797.4	7658.3	7655.0	8172.5	9550.5	9492.8
50°	10190.6	9829.3	8523.7	8453.9	8940.9	8821.6	8514.8	8166.0	8509.9	9854.9	9848.3
52.5°	10799.3	10505.7	8959.9	8992.8	9840.9	9919.1	9539.0	8779.7	9037.9	10413.5	10373.9
55°	11519.1	11348.1	9553.8	9612.3	10944.9	11001.0	10623.3	9547.1	9814.6	11222.2	11112.8
57.5°	12081.0	12044.8	10205.4	10355.9	11769.2	12020.9	11673.8	10435.7	10689.9	11903.4	11628.6
60°	12304.9	12480.1	10898.9	11106.1	12531.9	12810.8	12506.5	11216.4	11465.6	12185.6	11593.3
62.5°	12183.9	12575.6	11637.6	11620.4	12702.3	13002.4	12788.6	11650.7	12040.7	11894.3	11006.7
65°	11625.2	12232.4	12066.3	11488.0	12119.8	12144.5	12075.2	11456.7	12176.4	10973.8	9873.0
67.5°	10408.5	11282.3	11501.9	10352.5	10548.3	10388.0	10271.9	10393.7	11469.0	9594.1	8297.6
70°	8477.8	9792.3	9897.6	8280.2	8191.5	8083.7	7852.4	8521.3	10073.0	7863.1	6583.9
72.5°	6233.5	7615.6	7939.0	6073.0	5661.7	5683.8	5501.3	6421.9	8189.8	5841.0	4915.5
75°	4264.8	5514.4	6211.2	4237.7	3744.0	3753.1	3730.0	4550.3	6523.0	4063.3	3678.2
77.5°	3115.5	3939.8	4684.3	2849.0	2765.8	2714.9	2702.6	3183.8	5001.0	2950.2	2856.3
80°	2500.2	2910.7	3146.8	1974.5	2123.4	2119.2	2050.9	2189.2	3266.1	2157.9	2136.4
82.5°	1734.2	2236.9	2549.5	1547.5	1433.1	1409.3	1425.7	1630.6	2308.5	1475.0	1402.7
85°	914.8	1485.7	2524.7	1371.4	850.7	678.7	844.0	1335.2	1999.9	781.5	684.5
87.5°	116.8	429.4	1671.7	547.1	335.6	181.0	400.6	751.9	1284.1	159.5	139.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2
2.5°	5485.6	5376.3	5233.0	5100.7	4963.2	4826.7	4648.1	4536.4	4458.9	4444.2	4411.1
5°	5352.3	4988.7	4713.9	4476.3	4260.8	3956.2	3787.7	3647.7	3572.9	3565.6	3547.3
7.5°	4737.8	4236.0	3865.0	3528.5	3223.3	2977.3	2705.8	2579.2	2527.3	2539.6	2551.9
10°	4098.5	3537.5	3111.4	2767.5	2498.5	2291.1	2073.2	1925.8	1823.9	1803.3	1799.2
12.5°	3631.3	3016.0	2602.1	2359.5	2151.4	1956.2	1725.1	1551.6	1419.1	1373.9	1343.4
15°	3434.0	2760.9	2327.4	2065.7	1836.2	1588.7	1373.9	1192.1	1070.3	1030.8	1008.5
17.5°	3475.8	2690.2	2138.1	1803.3	1509.6	1251.2	980.6	825.2	751.9	732.9	732.9
20°	3696.3	2676.9	1981.8	1561.4	1195.4	895.9	673.8	584.9	561.1	558.6	565.2
22.5°	4005.6	2723.1	1865.1	1351.7	928.8	654.1	524.9	491.9	481.2	483.7	491.2
25°	4466.4	2878.6	1780.4	1164.9	728.9	535.6	468.0	448.3	443.5	450.1	459.0
27.5°	5012.6	3034.0	1727.6	1024.2	615.3	489.4	445.1	424.4	427.9	435.9	444.2
30°	5492.1	3161.6	1644.5	923.8	579.9	491.9	445.1	417.2	413.8	415.5	417.9
32.5°	5922.4	3247.9	1547.5	828.4	500.1	436.8	415.5	411.3	393.3	386.7	387.4
35°	6293.5	3247.9	1489.0	772.5	448.3	387.4	352.9	332.4	323.3	324.2	333.2
37.5°	6651.4	3183.0	1460.3	741.2	420.3	368.6	338.1	320.1	307.7	305.2	306.9
40°	6967.3	3088.4	1427.3	728.0	398.9	357.0	328.2	313.5	300.3	296.3	297.0
42.5°	7220.7	3011.8	1391.1	710.7	385.8	348.8	321.7	308.5	293.7	289.6	288.7
45°	7494.6	2986.3	1343.4	676.2	392.4	349.6	320.1	306.1	291.2	286.3	284.7
47.5°	7855.8	3066.2	1294.1	635.1	406.5	353.8	322.5	306.1	290.4	286.3	284.7
50°	8310.7	3253.8	1231.5	575.0	392.4	365.3	321.7	303.5	290.4	286.3	283.0
52.5°	8894.8	3507.2	1149.3	505.9	384.1	393.3	320.1	298.6	286.3	280.5	274.8
55°	9604.8	3714.4	1051.3	449.2	365.3	385.8	317.6	292.8	279.7	271.5	266.5
57.5°	10124.7	3789.3	925.6	412.1	338.9	373.4	314.2	285.5	271.5	264.9	258.4
60°	10021.9	3644.5	819.4	389.1	323.3	337.4	311.8	279.0	264.1	259.2	253.4
62.5°	9198.4	3266.1	751.2	378.5	313.5	307.7	314.2	272.2	257.5	252.6	250.9
65°	7963.6	2707.4	723.9	376.0	305.2	290.4	292.0	264.9	250.1	246.0	244.2
67.5°	6569.1	2185.0	700.0	384.1	294.6	278.0	269.9	254.9	242.7	238.6	235.3
70°	5180.4	1817.4	689.4	379.3	281.3	265.7	256.6	244.2	233.6	229.5	227.0
72.5°	4171.8	1535.2	683.6	374.4	264.1	249.3	241.0	230.3	218.8	217.2	214.8
75°	3530.1	1206.9	626.1	358.8	244.2	229.5	223.8	213.8	202.4	202.4	200.7
77.5°	2723.1	872.9	520.7	317.6	223.8	207.2	202.4	195.0	181.7	184.3	183.4
80°	2011.5	569.3	407.2	263.3	198.3	182.6	180.2	172.7	158.8	162.1	162.1
82.5°	1378.0	373.4	292.8	215.6	169.5	154.7	154.7	147.2	131.6	133.3	138.2
85°	691.9	256.6	218.8	167.1	131.6	124.2	124.2	118.4	102.9	103.7	110.2
87.5°	210.7	154.7	144.7	119.3	94.6	93.0	88.8	84.7	74.9	74.0	78.2
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2
2.5°	4361.0	4314.1	4257.3	4132.4	4090.3	4087.8	4125.7	4086.3	4161.9	4129.9	4165.3
5°	3517.0	3471.0	3407.5	3247.9	3150.9	3085.0	3053.8	2961.6	3028.2	2979.8	3020.0
7.5°	2586.5	2597.2	2555.3	2461.4	2250.1	2144.0	2081.5	2025.5	2073.9	2069.1	2146.4
10°	1818.1	1846.9	1817.4	1722.7	1551.6	1493.2	1504.8	1526.8	1590.2	1623.1	1742.4
12.5°	1308.9	1307.3	1288.3	1203.5	1090.9	1097.5	1144.4	1183.0	1241.4	1276.0	1397.8
15°	977.4	962.5	954.3	885.2	821.1	835.1	858.1	862.2	899.3	919.8	1018.5
17.5°	738.8	746.2	755.2	705.9	657.3	648.2	630.3	608.0	618.7	622.7	672.1
20°	586.6	616.1	638.3	603.8	554.4	528.2	505.1	490.4	490.4	489.4	503.5
22.5°	512.6	534.0	557.8	534.0	489.4	466.5	453.3	441.7	440.1	440.1	453.3
25°	472.1	487.9	510.9	494.4	461.5	444.2	431.9	417.2	411.3	409.6	418.7
27.5°	452.4	459.0	470.6	455.8	427.9	419.6	416.3	403.1	395.8	391.7	400.6
30°	418.7	417.2	417.9	403.1	380.9	380.1	385.8	388.2	385.8	385.1	398.9
32.5°	387.4	384.1	383.3	370.2	349.6	344.7	349.6	354.7	360.3	368.6	385.1
35°	348.1	356.2	361.2	349.6	324.9	310.2	304.3	295.4	290.4	290.4	309.3
37.5°	316.7	335.6	343.1	332.4	305.2	284.7	274.8	273.2	274.0	277.2	295.4
40°	306.1	320.1	326.7	315.9	288.7	269.9	264.1	262.5	264.1	269.0	287.1
42.5°	299.4	309.3	308.5	295.4	273.2	260.0	256.6	254.9	256.6	261.5	281.3
45°	293.7	300.3	293.7	278.0	257.5	250.9	251.7	250.9	252.6	257.5	276.4
47.5°	288.7	291.2	283.0	267.3	246.0	244.2	247.7	250.1	251.7	255.8	275.6
50°	281.3	281.3	274.0	257.5	236.2	237.0	241.0	246.9	247.7	252.6	268.2
52.5°	272.2	271.5	266.5	250.9	227.9	230.3	230.3	237.0	238.6	244.2	260.8
55°	264.9	263.3	260.8	246.0	220.4	224.5	222.2	224.5	228.7	234.5	252.6
57.5°	258.4	254.9	254.9	241.9	214.8	216.3	210.7	213.8	218.8	223.8	242.7
60°	251.7	248.4	250.1	236.2	205.7	204.1	201.6	208.1	209.8	215.6	234.5
62.5°	244.2	241.9	242.7	229.5	199.1	195.0	195.0	200.7	201.6	209.8	227.9
65°	238.6	235.3	234.5	223.0	191.7	186.8	189.3	191.7	193.3	201.6	218.8
67.5°	232.8	226.3	226.3	217.2	183.4	178.6	183.4	182.6	185.1	192.4	206.5
70°	225.5	216.3	217.2	213.1	175.2	169.5	173.6	172.7	174.5	179.3	193.3
72.5°	213.8	206.5	208.1	206.5	167.1	158.8	160.3	160.3	160.3	164.5	179.3
75°	199.1	193.3	198.3	202.4	157.2	145.6	147.2	147.2	144.7	147.2	165.4
77.5°	181.0	177.8	194.2	188.4	145.6	131.6	131.6	130.0	125.0	128.4	148.1
80°	161.2	158.8	179.3	157.9	132.5	114.4	112.6	108.5	103.7	106.1	125.9
82.5°	140.7	138.2	150.6	120.9	114.4	94.6	90.5	83.2	78.2	80.6	98.8
85°	115.2	115.2	116.1	91.3	87.1	72.5	67.5	57.6	51.8	53.4	70.7
87.5°	82.3	84.7	78.2	62.5	51.8	40.3	37.0	31.4	26.3	30.5	37.0
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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CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7027-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2
2.5°	4346.2	4436.6	4539.6	4671.1	4784.0	4969.0	5146.7	5253.6
5°	3249.6	3400.2	3587.7	3828.8	4053.3	4390.6	4725.4	4940.1
7.5°	2325.7	2487.0	2689.3	2990.5	3308.0	3738.2	4180.8	4437.5
10°	1924.3	2089.5	2259.9	2463.2	2723.1	3191.1	3714.4	4003.9
12.5°	1591.8	1768.8	1952.2	2166.2	2407.2	2825.1	3428.1	3761.4
15°	1218.5	1415.8	1632.2	1902.9	2204.8	2687.6	3357.3	3719.3
17.5°	835.1	1055.5	1321.2	1655.2	2024.6	2643.3	3484.0	3901.2
20°	575.0	735.5	1019.2	1410.9	1855.1	2637.6	3727.5	4250.1
22.5°	481.2	552.8	760.1	1186.3	1727.6	2708.3	4105.2	4739.5
25°	445.1	487.9	607.2	991.3	1634.6	2871.2	4625.2	5372.9
27.5°	423.7	462.4	551.2	863.8	1561.4	3060.3	5131.1	5986.7
30°	431.9	471.4	535.6	798.9	1461.9	3218.4	5580.2	6465.5
32.5°	389.1	406.5	459.0	741.2	1390.3	3350.8	5973.5	6862.1
35°	331.6	361.9	409.6	714.2	1392.0	3439.6	6402.1	7368.7
37.5°	315.9	346.3	380.9	704.2	1410.9	3534.2	6894.0	7962.8
40°	306.1	334.0	363.6	698.4	1429.1	3620.6	7376.2	8550.1
42.5°	299.4	324.9	361.9	678.7	1438.0	3698.0	7772.7	9049.4
45°	298.6	324.9	368.6	658.9	1452.0	3781.1	8105.0	9418.9
47.5°	299.4	335.6	356.2	635.1	1452.0	3920.1	8495.0	9748.8
50°	296.3	353.8	343.1	601.3	1418.3	4183.3	9029.8	10190.6
52.5°	294.6	351.2	317.6	549.6	1359.9	4601.3	9715.0	10799.3
55°	290.4	338.9	299.4	472.1	1291.7	5057.0	10448.8	11519.1
57.5°	286.3	300.3	289.6	404.7	1186.3	5377.9	10954.0	12081.0
60°	320.9	262.5	281.3	371.9	1045.6	5465.8	10934.3	12304.9
62.5°	297.0	246.0	270.7	364.4	947.0	5219.2	10429.1	12183.9
65°	232.8	235.3	260.0	385.8	920.6	4565.0	9534.0	11625.2
67.5°	213.1	224.5	249.3	413.0	923.1	3655.2	8196.3	10408.5
70°	200.7	213.1	237.0	427.0	929.7	2724.6	6480.3	8477.8
72.5°	186.8	197.4	223.0	429.4	886.8	1979.3	4994.4	6233.5
75°	170.3	180.2	203.1	374.4	734.6	1373.1	3820.5	4264.8
77.5°	151.4	158.8	178.6	288.7	545.5	878.6	2867.8	3115.5
80°	129.1	133.3	149.7	211.5	373.4	549.6	2268.9	2500.2
82.5°	103.7	105.3	116.1	158.8	242.7	352.9	1519.6	1734.2
85°	73.2	73.2	79.8	115.2	165.4	223.8	825.2	914.8
87.5°	34.6	35.4	35.4	63.3	86.3	113.5	190.0	116.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)