

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: P269250

Luminaire Tested: **GLEON-AF-04-LED-E1-SLL-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269250  
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-04-LED-E1-SLL-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 12079.1 lumens  
Efficiency: N/A  
Efficacy: 93.6 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): 129  
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

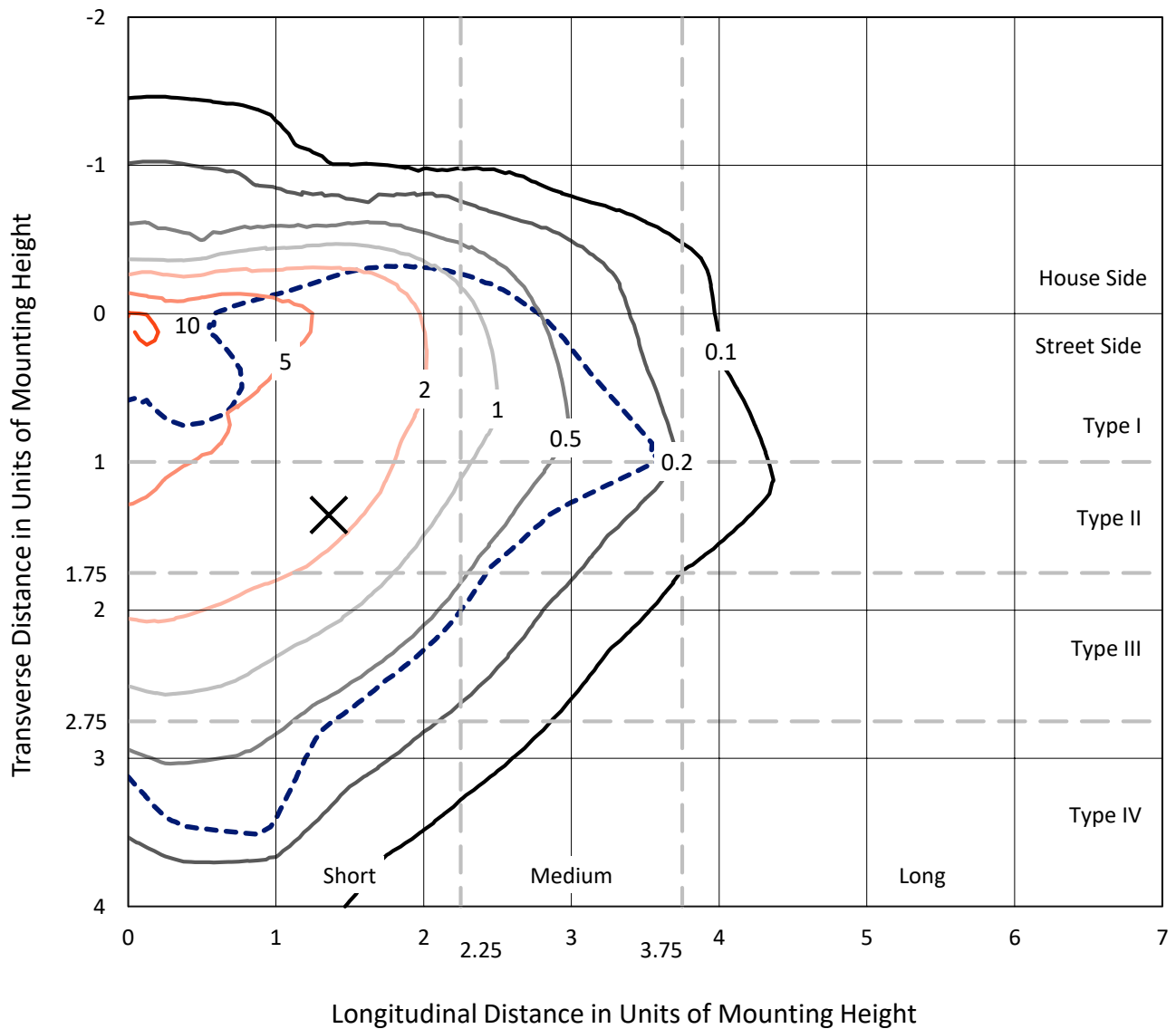


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### Iso-Footcandle Lines of Horizontal Illumination

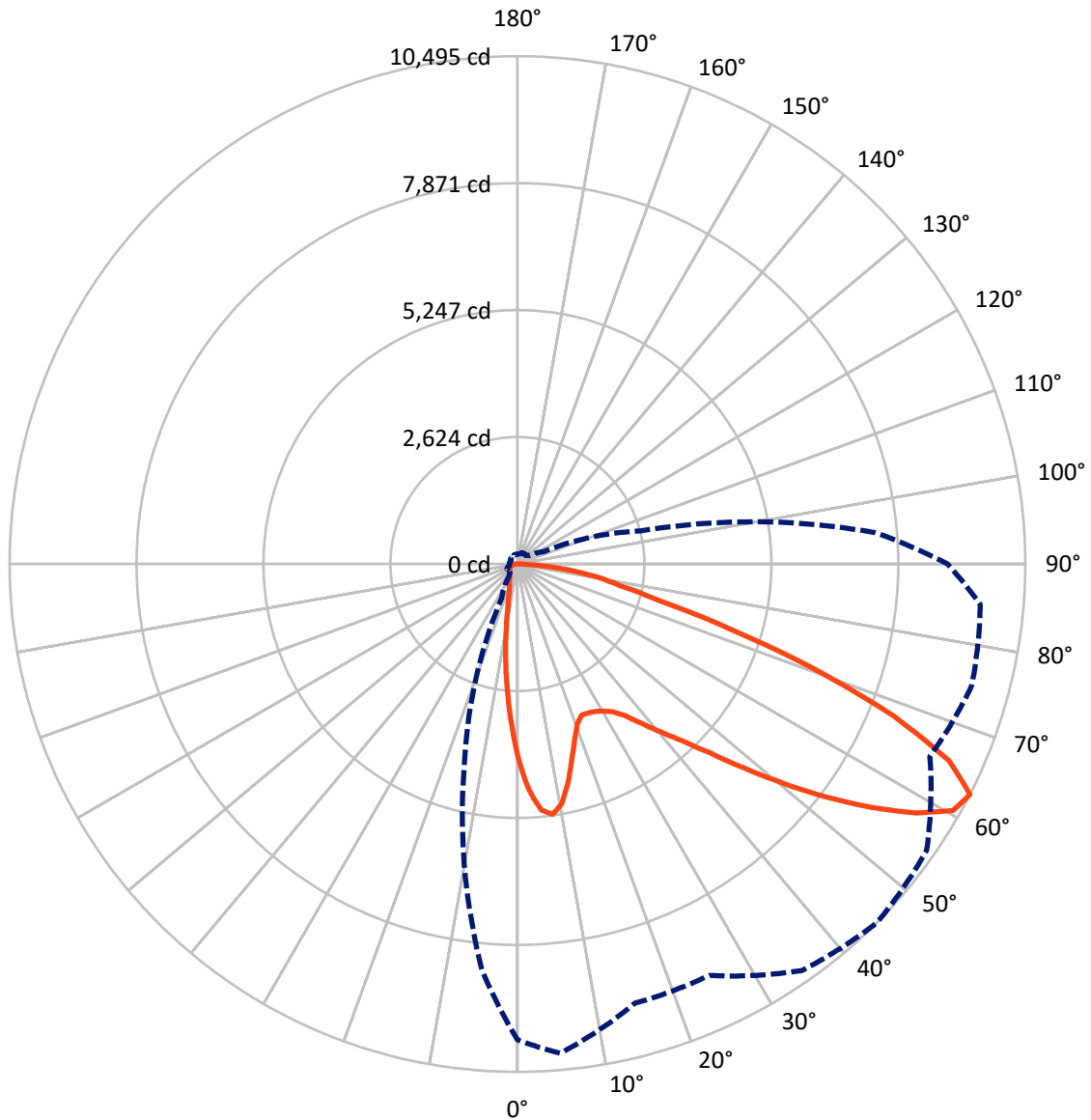
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12 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
<b>House Side</b>	Lumens	1998.9	0.0	1998.9
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	10080.2	0.0	10080.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	12079.1	0.0	12079.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.1	2.5
10°-20°	544.8	4.5
20°-30°	794.3	6.6
30°-40°	1223.3	10.1
40°-50°	1800.3	14.9
50°-60°	2640.7	21.9
60°-70°	2951.9	24.4
70°-80°	1445.2	12.0
80°-90°	381.6	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°	12079.1	100.0
0°-180°	12079.1	100.0



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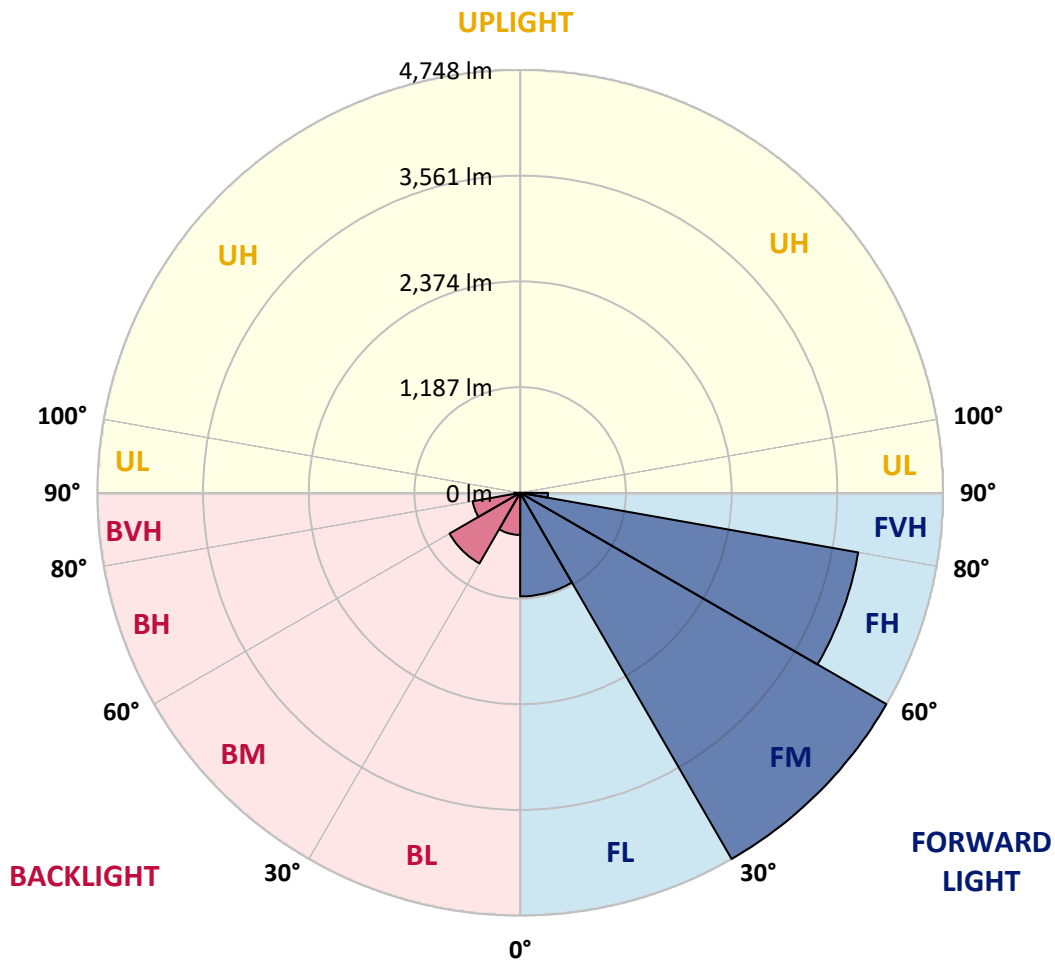
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.2	9.6			
FM (30°-60°)	4748.4	39.3			
FH (60°-80°)	3855.2	31.9			G2/5000
FVH (80°-90°)	313.4	2.6			G3/500
BL (0°-30°)	472.9	3.9	B1/500		
BM (30°-60°)	915.9	7.6	B1/1000		
BH (60°-80°)	541.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	68.2	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°	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0
2.5°	4240.3	4308.0	4440.2	4539.1	4659.2	4687.1	4725.8	4687.9	4620.8	4531.8	4502.7
5°	3987.3	4132.2	4452.8	4735.1	4986.0	5102.9	5135.4	5039.1	4844.6	4588.9	4432.9
7.5°	3581.6	3787.4	4221.8	4637.4	5007.2	5225.7	5220.4	4996.6	4638.8	4222.5	3972.0
10°	3231.7	3466.7	3964.8	4429.5	4822.0	5033.8	4952.1	4665.9	4239.0	3759.5	3487.9
12.5°	3035.8	3266.2	3771.5	4238.4	4566.4	4639.3	4577.0	4296.8	3894.4	3409.6	3171.9
15°	3002.0	3255.0	3694.5	4074.4	4258.2	4194.5	4120.2	3994.7	3710.4	3296.8	3049.0
17.5°	3148.6	3427.7	3782.9	3960.1	3928.8	3818.1	3796.7	3810.7	3742.2	3422.3	3136.7
20°	3430.3	3764.8	3993.3	3906.3	3678.6	3525.8	3531.1	3744.3	3946.9	3740.4	3414.3
22.5°	3825.3	4207.1	4296.8	3934.8	3573.0	3391.7	3435.6	3780.8	4272.9	4205.1	3788.8
25°	4336.6	4684.5	4620.2	4038.5	3583.6	3408.3	3443.6	3907.0	4658.0	4670.0	4252.2
27.5°	4832.0	5154.7	4891.7	4176.0	3627.4	3447.5	3494.0	4105.6	5025.8	5174.5	4782.1
30°	5218.4	5442.8	4999.2	4301.4	3713.8	3524.0	3581.6	4294.1	5193.2	5515.2	5189.9
32.5°	5538.5	5699.8	5170.6	4456.9	3872.5	3644.1	3745.7	4523.1	5434.1	5839.3	5589.0
35°	5947.5	5993.3	5383.7	4630.1	4117.6	3853.2	3979.4	4747.6	5664.0	6166.7	5982.1
37.5°	6427.0	6367.7	5584.9	4867.1	4434.3	4180.5	4284.8	4993.9	5853.1	6537.8	6383.7
40°	6901.0	6758.8	5837.2	5235.1	4896.3	4566.4	4689.8	5256.9	6029.9	6909.7	6776.2
42.5°	7304.1	7093.6	6086.2	5639.4	5326.6	4992.1	5139.5	5521.8	6198.5	7227.0	7116.8
45°	7602.1	7340.6	6323.3	6027.8	5919.7	5557.8	5627.4	5825.2	6381.1	7492.0	7397.1
47.5°	7868.4	7588.9	6591.6	6419.6	6438.2	6293.4	6181.1	6178.5	6596.3	7708.4	7662.0
50°	8225.1	7933.6	6879.8	6823.3	7216.4	7120.1	6872.5	6591.0	6868.5	7954.1	7948.8
52.5°	8716.3	8479.3	7231.6	7258.2	7942.9	8005.9	7699.2	7086.3	7294.7	8404.9	8373.1
55°	9297.4	9159.3	7711.1	7758.2	8833.9	8879.0	8574.3	7705.8	7921.6	9057.7	8969.3
57.5°	9750.9	9721.6	8237.0	8358.5	9499.2	9702.5	9422.2	8422.9	8628.1	9607.5	9385.8
60°	9931.5	10073.0	8796.7	8964.0	10114.7	10339.9	10094.2	9052.9	9254.2	9835.3	9357.1
62.5°	9833.8	10149.9	9392.9	9379.1	10252.3	10494.5	10322.0	9403.6	9718.4	9600.1	8883.7
65°	9383.1	9873.1	9739.0	9272.1	9782.2	9802.0	9746.3	9247.0	9827.9	8857.2	7968.8
67.5°	8400.9	9106.2	9283.4	8355.9	8513.9	8384.4	8290.7	8389.0	9256.9	7743.6	6697.1
70°	6842.6	7903.6	7988.6	6683.2	6611.4	6524.5	6337.9	6877.8	8130.1	6346.5	5314.1
72.5°	5031.1	6146.7	6407.6	4901.7	4569.7	4587.6	4440.2	5183.2	6610.2	4714.5	3967.5
75°	3442.1	4450.8	5013.3	3420.2	3021.9	3029.2	3010.6	3672.6	5264.8	3279.5	2968.8
77.5°	2514.5	3179.9	3780.8	2299.4	2232.4	2191.2	2181.3	2569.7	4036.4	2381.0	2305.4
80°	2018.0	2349.2	2539.8	1593.7	1713.7	1710.5	1655.3	1767.0	2636.0	1741.6	1724.4
82.5°	1399.6	1805.5	2057.7	1249.1	1156.7	1137.4	1150.6	1316.0	1863.2	1190.6	1132.1
85°	738.3	1199.1	2037.8	1106.9	686.6	547.7	681.3	1077.6	1614.3	630.8	552.5
87.5°	94.3	346.6	1349.3	441.5	270.8	146.1	323.4	607.0	1036.6	128.7	112.2
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°	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0
2.5°	4427.6	4339.3	4223.7	4116.8	4005.9	3895.7	3751.6	3661.3	3598.9	3586.9	3560.4
5°	4319.9	4026.6	3804.7	3612.9	3438.9	3193.1	3057.1	2944.1	2883.7	2877.8	2863.2
7.5°	3823.9	3418.9	3119.5	2847.8	2601.6	2403.1	2183.9	2081.6	2039.8	2049.8	2059.8
10°	3308.1	2855.3	2511.2	2233.7	2016.5	1849.3	1673.4	1554.4	1472.1	1455.6	1452.2
12.5°	2930.9	2434.2	2100.2	1904.3	1736.3	1579.0	1392.5	1252.2	1145.3	1108.9	1084.3
15°	2771.5	2228.3	1878.4	1667.3	1482.1	1282.2	1108.9	962.2	863.9	832.0	814.0
17.5°	2805.3	2171.4	1725.7	1455.6	1218.5	1010.0	791.4	666.1	607.0	591.7	591.7
20°	2983.5	2160.7	1599.6	1260.3	964.8	723.0	543.8	472.1	452.8	450.9	456.2
22.5°	3233.0	2197.9	1505.3	1090.9	749.6	527.8	423.6	397.1	388.4	390.5	396.4
25°	3604.9	2323.3	1436.8	940.3	588.3	432.3	377.7	361.8	358.0	363.3	370.6
27.5°	4045.7	2448.9	1394.3	826.7	496.7	395.1	359.2	342.7	345.3	352.0	358.6
30°	4432.9	2551.7	1327.3	745.7	468.1	397.1	359.2	336.7	334.0	335.2	337.4
32.5°	4780.2	2621.4	1249.1	668.7	403.7	352.6	335.2	332.1	317.5	312.2	312.7
35°	5079.6	2621.4	1201.8	623.6	361.8	312.7	284.9	268.2	261.0	261.6	269.0
37.5°	5368.5	2569.1	1178.5	598.4	339.3	297.5	272.9	258.4	248.3	246.3	247.7
40°	5623.5	2492.6	1152.0	587.6	322.0	288.1	264.9	253.1	242.4	239.0	239.7
42.5°	5827.9	2431.0	1122.8	573.7	311.4	281.4	259.6	249.0	237.1	233.6	233.1
45°	6049.0	2410.3	1084.3	545.8	316.7	282.2	258.4	247.0	235.0	231.0	229.7
47.5°	6340.5	2474.7	1044.5	512.7	328.1	285.5	260.2	247.0	234.4	231.0	229.7
50°	6707.7	2626.1	994.1	464.2	316.7	294.9	259.6	245.0	234.4	231.0	228.3
52.5°	7179.3	2830.6	927.6	408.4	310.1	317.5	258.4	241.0	231.0	226.5	221.8
55°	7752.3	2998.0	848.5	362.6	294.9	311.4	256.2	236.3	225.7	219.1	215.1
57.5°	8171.9	3058.4	747.0	332.6	273.5	301.4	253.6	230.4	219.1	213.7	208.4
60°	8088.9	2941.5	661.3	314.0	261.0	272.2	251.6	225.0	213.2	209.1	204.5
62.5°	7424.2	2636.0	606.3	305.5	253.1	248.3	253.6	219.7	207.9	203.8	202.5
65°	6427.6	2185.2	584.3	303.4	246.3	234.4	235.7	213.7	201.8	198.5	197.2
67.5°	5302.1	1763.6	565.0	310.1	237.7	224.4	217.7	205.8	195.9	192.5	189.9
70°	4181.3	1466.8	556.4	306.1	227.1	214.4	207.1	197.2	188.6	185.3	183.3
72.5°	3367.1	1239.0	551.7	302.1	213.2	201.2	194.6	185.9	176.6	175.3	173.4
75°	2849.2	974.1	505.2	289.6	197.2	185.3	180.6	172.7	163.3	163.3	162.1
77.5°	2197.9	704.5	420.2	256.2	180.6	167.4	163.3	157.4	146.8	148.7	148.1
80°	1623.4	459.6	328.7	212.4	160.0	147.4	145.4	139.4	128.2	130.9	130.9
82.5°	1112.2	301.4	236.3	174.0	136.8	124.9	124.9	118.8	106.2	107.5	111.6
85°	558.4	207.1	176.6	134.7	106.2	100.3	100.3	95.6	83.1	83.6	89.0
87.5°	170.0	124.9	116.9	96.3	76.4	75.0	71.8	68.5	60.5	59.7	63.2
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°	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0
2.5°	3519.9	3482.0	3436.2	3335.2	3301.5	3299.5	3329.9	3298.0	3359.2	3333.3	3361.8
5°	2838.6	2801.5	2750.3	2621.4	2543.1	2490.0	2464.8	2390.4	2444.2	2405.0	2437.6
7.5°	2087.7	2096.3	2062.4	1986.7	1816.1	1730.3	1679.9	1634.7	1673.9	1669.9	1732.4
10°	1467.4	1490.6	1466.8	1390.4	1252.2	1205.2	1214.5	1232.4	1283.5	1310.1	1406.3
12.5°	1056.4	1055.1	1039.8	971.4	880.5	885.8	923.6	954.9	1002.0	1029.8	1128.1
15°	788.8	776.9	770.2	714.4	662.7	674.0	692.6	695.8	725.7	742.4	821.9
17.5°	596.3	602.3	609.6	569.7	530.4	523.3	508.6	490.7	499.4	502.6	542.4
20°	473.4	497.3	515.3	487.4	447.5	426.2	407.7	395.8	395.8	395.1	406.4
22.5°	413.7	430.9	450.2	430.9	395.1	376.5	365.9	356.5	355.2	355.2	365.9
25°	381.2	393.7	412.3	399.0	372.4	358.6	348.6	336.7	332.1	330.7	338.0
27.5°	365.3	370.6	379.9	367.9	345.3	338.7	336.0	325.4	319.3	316.1	323.4
30°	338.0	336.7	337.4	325.4	307.4	306.9	311.4	313.4	311.4	310.8	322.0
32.5°	312.7	310.1	309.5	298.7	282.2	278.3	282.2	286.2	290.8	297.5	310.8
35°	280.9	287.5	291.5	282.2	262.2	250.4	245.6	238.4	234.4	234.4	249.6
37.5°	255.7	270.8	276.9	268.2	246.3	229.7	221.8	220.4	221.2	223.8	238.4
40°	247.0	258.4	263.7	254.9	233.1	217.7	213.2	211.8	213.2	217.1	231.8
42.5°	241.7	249.6	249.0	238.4	220.4	209.8	207.1	205.8	207.1	211.1	227.1
45°	237.1	242.4	237.1	224.4	207.9	202.5	203.1	202.5	203.8	207.9	223.0
47.5°	233.1	235.0	228.3	215.9	198.5	197.2	199.9	201.8	203.1	206.5	222.4
50°	227.1	227.1	221.2	207.9	190.6	191.2	194.6	199.2	199.9	203.8	216.4
52.5°	219.7	219.1	215.1	202.5	184.0	185.9	185.9	191.2	192.5	197.2	210.6
55°	213.7	212.4	210.6	198.5	178.0	181.3	179.3	181.3	184.6	189.3	203.8
57.5°	208.4	205.8	205.8	195.2	173.4	174.6	170.0	172.7	176.6	180.6	195.9
60°	203.1	200.5	201.8	190.6	165.9	164.7	162.8	168.1	169.3	174.0	189.3
62.5°	197.2	195.2	195.9	185.3	160.6	157.4	157.4	162.1	162.8	169.3	184.0
65°	192.5	189.9	189.3	179.9	154.7	150.7	152.7	154.7	156.0	162.8	176.6
67.5°	187.9	182.5	182.5	175.3	148.1	144.1	148.1	147.4	149.4	155.3	166.6
70°	181.9	174.6	175.3	171.9	141.5	136.8	140.0	139.4	140.8	144.7	156.0
72.5°	172.7	166.6	168.1	166.6	134.7	128.2	129.4	129.4	129.4	132.8	144.7
75°	160.6	156.0	160.0	163.3	126.8	117.5	118.8	118.8	116.9	118.8	133.5
77.5°	146.1	143.4	156.8	152.1	117.5	106.2	106.2	104.9	100.9	103.6	119.6
80°	130.2	128.2	144.7	127.5	106.9	92.3	91.0	87.7	83.6	85.7	101.6
82.5°	113.5	111.6	121.5	97.6	92.3	76.4	73.0	67.1	63.2	65.0	79.7
85°	93.0	93.0	93.7	73.8	70.3	58.4	54.4	46.5	41.9	43.2	57.1
87.5°	66.5	68.5	63.2	50.5	41.9	32.6	29.9	25.2	21.2	24.6	29.9
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: P269250

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-7027-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0
2.5°	3507.9	3581.0	3663.9	3770.2	3861.2	4010.7	4154.0	4240.3
5°	2622.8	2744.3	2895.7	3090.3	3271.5	3543.9	3814.1	3987.3
7.5°	1877.2	2007.4	2170.7	2413.7	2669.9	3017.2	3374.5	3581.6
10°	1553.1	1686.6	1824.0	1987.9	2197.9	2575.7	2998.0	3231.7
12.5°	1284.8	1427.5	1575.6	1748.3	1942.9	2280.2	2766.9	3035.8
15°	983.4	1142.7	1317.4	1535.8	1779.5	2169.2	2709.7	3002.0
17.5°	674.0	852.0	1066.4	1336.0	1634.0	2133.5	2812.1	3148.6
20°	464.2	593.6	822.7	1138.8	1497.4	2128.9	3008.7	3430.3
22.5°	388.4	446.2	613.5	957.6	1394.3	2185.8	3313.4	3825.3
25°	359.2	393.7	490.0	800.1	1319.4	2317.4	3733.0	4336.6
27.5°	342.0	373.2	444.9	697.3	1260.3	2470.1	4141.4	4832.0
30°	348.6	380.5	432.3	644.8	1180.0	2597.5	4503.9	5218.4
32.5°	314.0	328.1	370.6	598.4	1122.2	2704.4	4821.4	5538.5
35°	267.5	292.2	330.7	576.4	1123.5	2776.2	5167.3	5947.5
37.5°	254.9	279.6	307.4	568.4	1138.8	2852.6	5564.3	6427.0
40°	247.0	269.6	293.4	563.7	1153.3	2922.2	5953.4	6901.0
42.5°	241.7	262.2	292.2	547.7	1160.7	2984.7	6273.6	7304.1
45°	241.0	262.2	297.5	531.8	1172.0	3051.7	6541.7	7602.1
47.5°	241.7	270.8	287.5	512.7	1172.0	3164.0	6856.6	7868.4
50°	239.0	285.5	276.9	485.4	1144.7	3376.5	7288.0	8225.1
52.5°	237.7	283.5	256.2	443.6	1097.5	3713.8	7841.2	8716.3
55°	234.4	273.5	241.7	381.2	1042.6	4081.5	8433.5	9297.4
57.5°	231.0	242.4	233.6	326.8	957.6	4340.6	8841.2	9750.9
60°	258.9	211.8	227.1	300.2	844.0	4411.7	8825.3	9931.5
62.5°	239.7	198.5	218.5	294.1	764.3	4212.4	8417.6	9833.8
65°	187.9	189.9	209.8	311.4	743.0	3684.6	7695.2	9383.1
67.5°	171.9	181.3	201.2	333.4	745.1	2950.2	6615.5	8400.9
70°	162.1	171.9	191.2	344.6	750.4	2199.2	5230.3	6842.6
72.5°	150.7	159.4	179.9	346.6	715.8	1597.5	4031.1	5031.1
75°	137.4	145.4	164.0	302.1	592.9	1108.1	3083.6	3442.1
77.5°	122.2	128.2	144.1	233.1	440.2	709.1	2314.8	2514.5
80°	104.3	107.5	120.8	170.7	301.4	443.6	1831.4	2018.0
82.5°	83.6	85.0	93.7	128.2	195.9	284.9	1226.5	1399.6
85°	59.1	59.1	64.4	93.0	133.5	180.6	666.1	738.3
87.5°	27.8	28.6	28.6	51.2	69.7	91.6	153.4	94.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)