

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: P269570

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269570  
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-08-LED-E1-SLL-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 23998.2 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

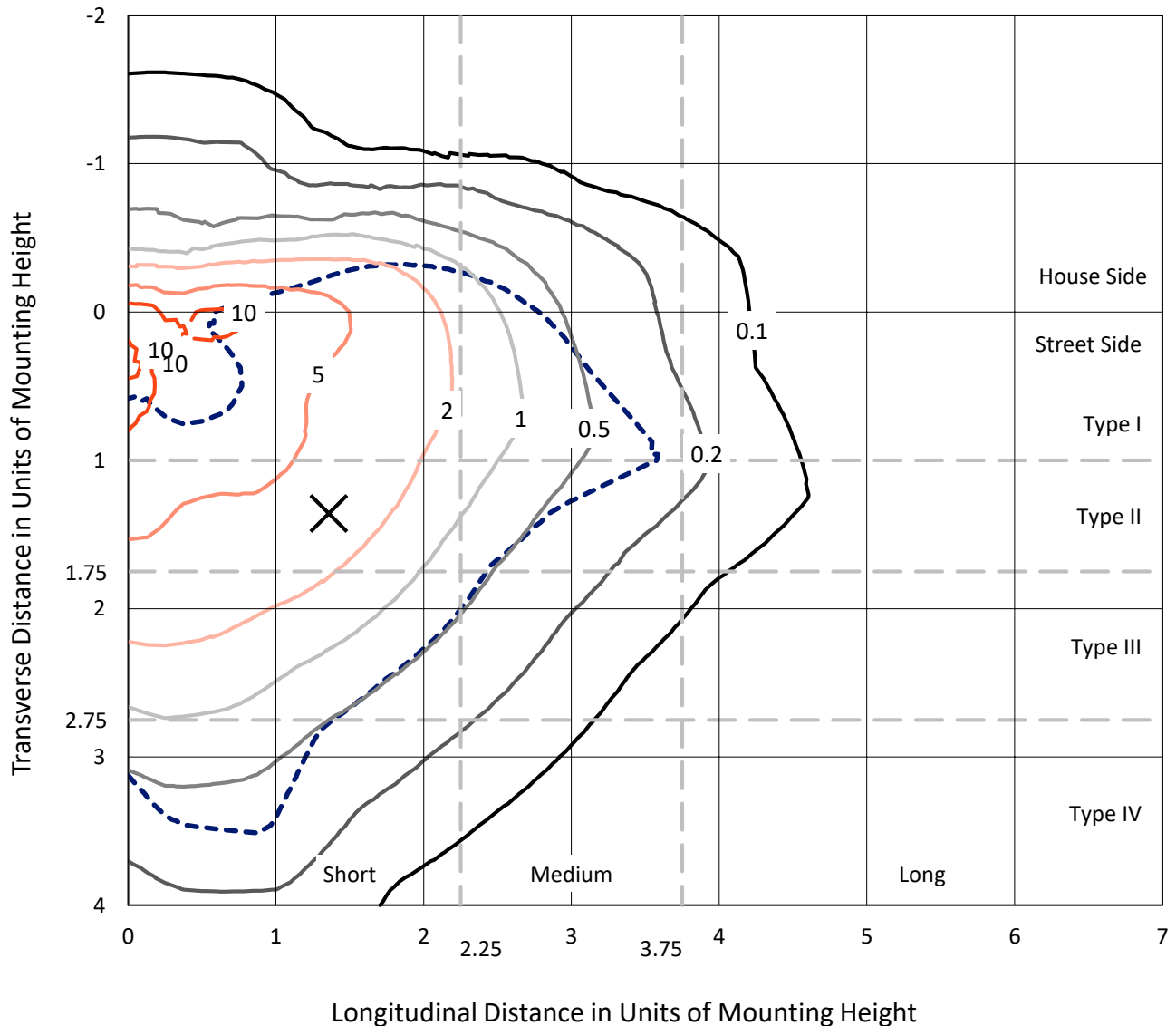
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

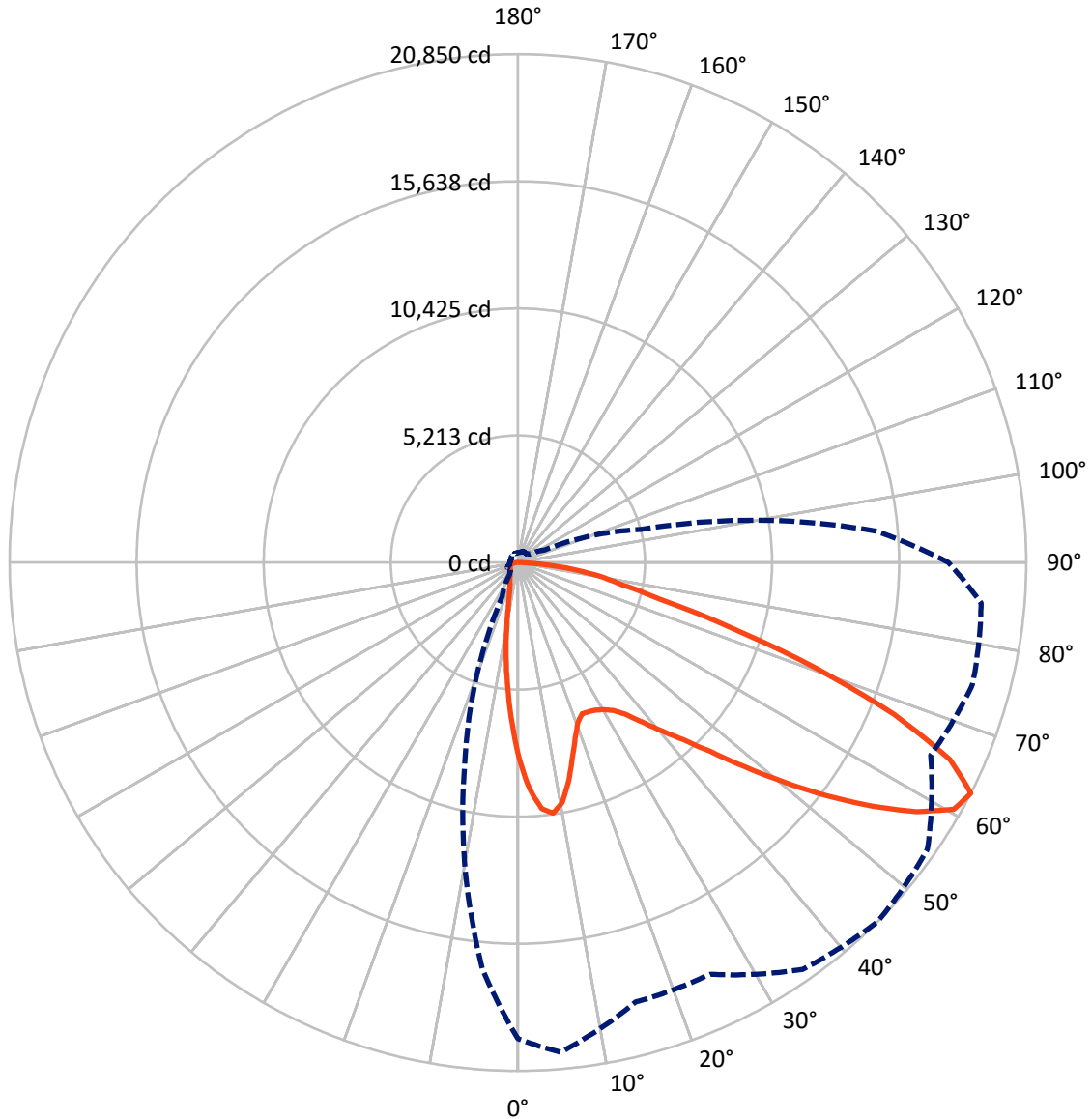
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	3971.4	0.0	3971.4
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	20026.8	0.0	20026.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	23998.2	0.0	23998.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	590.2	2.5
10°-20°	1082.3	4.5
20°-30°	1578.0	6.6
30°-40°	2430.3	10.1
40°-50°	3576.8	14.9
50°-60°	5246.4	21.9
60°-70°	5864.7	24.4
70°-80°	2871.3	12.0
80°-90°	758.1	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°	23998.2	100.0
0°-180°	23998.2	100.0



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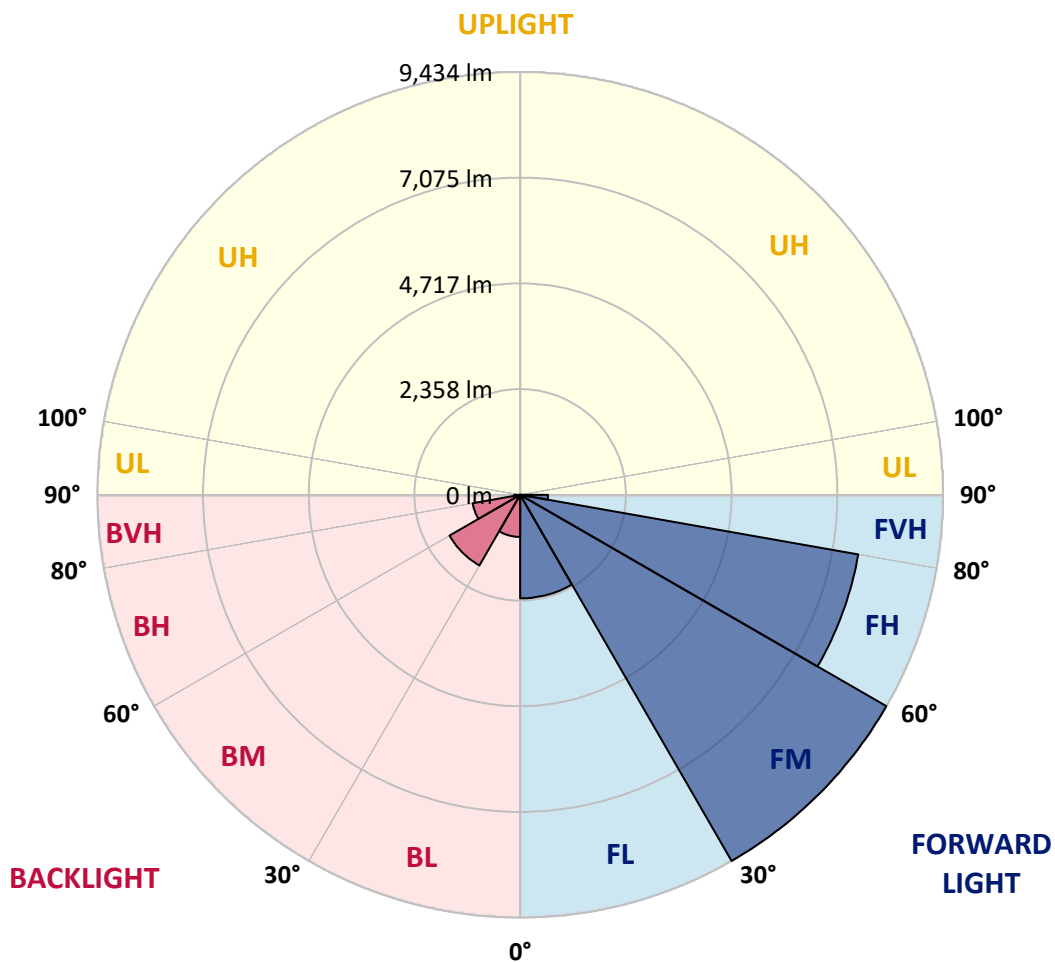
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2310.9	9.6			
FM	(30°-60°)	9433.9	39.3			
FH	(60°-80°)	7659.4	31.9			G4/12000
FVH	(80°-90°)	622.6	2.6			G4/750
BL	(0°-30°)	939.6	3.9	B2/1000		
BM	(30°-60°)	1819.7	7.6	B2/2500		
BH	(60°-80°)	1076.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	135.5	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°	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9
2.5°	8424.5	8559.1	8821.5	9018.2	9256.9	9312.3	9388.8	9313.6	9180.4	9003.6	8945.6
5°	7921.9	8209.5	8846.7	9407.3	9906.0	10138.1	10202.8	10011.5	9625.0	9117.1	8807.1
7.5°	7115.8	7524.8	8387.6	9213.3	9948.2	10382.3	10371.7	9927.1	9216.0	8388.9	7891.5
10°	6420.6	6887.7	7877.0	8800.4	9580.2	10001.0	9838.6	9270.1	8421.9	7469.3	6929.9
12.5°	6031.4	6489.1	7493.1	8420.5	9072.3	9217.4	9093.4	8536.7	7737.2	6774.2	6301.9
15°	5964.1	6466.8	7340.1	8094.6	8460.1	8333.4	8185.7	7936.3	7371.9	6549.9	6057.8
17.5°	6255.6	6809.8	7515.6	7867.7	7805.8	7585.5	7543.2	7570.9	7435.1	6799.2	6231.9
20°	6815.0	7479.9	7933.7	7760.9	7308.4	7005.1	7015.6	7439.0	7841.5	7431.0	6783.5
22.5°	7600.0	8358.5	8536.7	7817.7	7098.6	6738.5	6825.6	7511.5	8489.2	8354.5	7527.4
25°	8615.7	9307.1	9179.2	8023.4	7119.7	6771.6	6841.4	7762.3	9254.2	9278.1	8448.2
27.5°	9599.8	10241.0	9718.7	8296.6	7206.8	6849.3	6941.7	8156.7	9985.1	10280.7	9501.0
30°	10367.7	10813.5	9932.4	8545.8	7378.4	7001.1	7115.8	8531.4	10317.6	10957.3	10310.9
32.5°	11003.6	11324.2	10272.7	8854.6	7693.7	7239.8	7441.6	8986.5	10796.4	11601.3	11103.8
35°	11816.1	11907.3	10696.2	9198.9	8180.4	7655.4	7906.1	9432.4	11252.9	12251.5	11884.8
37.5°	12768.7	12651.3	11096.0	9669.9	8809.7	8305.8	8512.9	9921.8	11628.9	12989.0	12682.9
40°	13710.7	13428.3	11597.2	10400.7	9727.8	9072.3	9317.6	10444.2	11979.7	13727.7	13462.5
42.5°	14511.3	14093.1	12091.9	11204.1	10582.8	9917.8	10210.8	10970.6	12314.9	14358.2	14139.3
45°	15103.7	14584.0	12562.8	11975.8	11760.8	11041.8	11180.3	11573.5	12677.6	14884.6	14696.0
47.5°	15632.7	15077.3	13095.9	12754.1	12791.1	12503.5	12280.5	12275.2	13105.1	15314.8	15222.4
50°	16341.1	15762.0	13668.4	13556.2	14337.2	14145.9	13653.9	13094.6	13646.0	15802.9	15792.4
52.5°	17317.3	16846.4	14367.5	14420.3	15780.4	15905.7	15296.2	14078.6	14492.9	16698.7	16635.4
55°	18471.6	18197.2	15320.1	15413.7	17550.8	17640.6	17035.0	15309.5	15738.2	17995.3	17819.9
57.5°	19372.7	19314.5	16364.9	16606.2	18872.8	19276.4	18719.6	16734.3	17141.8	19087.6	18647.0
60°	19731.5	20012.5	17477.0	17809.3	20095.5	20542.8	20054.8	17986.1	18385.9	19540.2	18590.3
62.5°	19537.5	20165.5	18661.6	18633.9	20368.7	20850.2	20507.1	18682.7	19308.0	19073.3	17649.8
65°	18641.7	19615.4	19349.0	18421.5	19434.7	19474.3	19363.4	18371.3	19525.6	17597.0	15831.9
67.5°	16690.7	18091.7	18443.9	16600.9	16914.9	16657.7	16471.7	16667.0	18391.2	15384.6	13305.5
70°	13594.5	15702.6	15871.4	13277.8	13135.3	12962.6	12591.9	13664.4	16152.5	12609.0	10557.7
72.5°	9995.7	12212.0	12730.4	9738.4	9078.8	9114.5	8821.5	10297.8	13132.9	9366.4	7882.3
75°	6838.7	8842.6	9960.0	6795.3	6003.7	6018.3	5981.4	7296.6	10460.0	6515.5	5898.2
77.5°	4995.8	6317.7	7511.5	4568.4	4435.2	4353.4	4333.7	5105.3	8019.4	4730.7	4580.3
80°	4009.0	4667.4	5046.0	3166.2	3404.8	3398.3	3288.9	3510.4	5237.3	3460.4	3426.0
82.5°	2781.0	3586.9	4088.2	2481.5	2298.0	2259.9	2286.1	2614.6	3701.7	2365.3	2249.3
85°	1466.9	2382.6	4048.8	2199.1	1364.0	1088.3	1353.6	2141.1	3206.9	1253.2	1097.5
87.5°	187.3	688.6	2680.6	877.3	538.3	290.2	642.5	1205.7	2059.3	255.9	223.0
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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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9
2.5°	8796.6	8621.0	8391.4	8179.1	7958.9	7739.8	7453.5	7274.1	7150.1	7126.4	7073.7
5°	8582.8	7999.6	7559.1	7177.8	6832.1	6344.1	6073.7	5849.5	5729.3	5717.4	5688.4
7.5°	7597.3	6792.7	6197.6	5658.2	5168.7	4774.2	4339.0	4135.7	4052.7	4072.3	4092.1
10°	6572.3	5672.5	4989.2	4437.8	4006.4	3674.0	3324.4	3088.3	2924.7	2891.7	2885.1
12.5°	5823.1	4836.3	4172.6	3783.5	3449.8	3137.2	2766.4	2488.0	2275.6	2203.2	2154.2
15°	5506.4	4427.2	3732.1	3312.5	2944.5	2547.5	2203.2	1911.6	1716.3	1653.1	1617.4
17.5°	5573.7	4313.8	3428.7	2891.7	2420.8	2006.5	1572.6	1323.2	1205.7	1175.4	1175.4
20°	5927.2	4292.7	3177.9	2503.8	1916.9	1436.6	1080.4	938.0	899.7	895.7	906.3
22.5°	6423.2	4366.7	2990.6	2167.5	1489.4	1048.9	841.6	788.9	771.7	775.6	787.5
25°	7161.9	4615.9	2854.8	1868.0	1168.9	858.8	750.7	719.0	711.1	721.6	736.2
27.5°	8037.9	4865.3	2770.4	1642.5	986.8	784.8	713.8	680.7	685.9	699.2	712.4
30°	8807.1	5069.8	2637.2	1481.5	930.0	788.9	713.8	668.9	663.6	666.3	670.1
32.5°	9497.1	5208.3	2481.5	1328.5	802.0	700.5	666.3	659.6	630.6	620.0	621.4
35°	10092.0	5208.3	2387.8	1238.8	719.0	621.4	565.9	533.0	518.4	519.8	534.3
37.5°	10665.8	5104.0	2341.6	1188.5	674.1	591.1	542.1	513.2	493.3	489.4	492.1
40°	11172.4	4952.4	2288.8	1167.4	639.9	572.5	526.3	502.6	481.5	474.9	476.2
42.5°	11578.8	4829.6	2230.9	1139.8	618.8	559.4	515.7	494.6	470.9	464.3	463.0
45°	12018.1	4788.8	2154.2	1084.4	629.3	560.6	513.2	490.7	466.9	459.0	456.5
47.5°	12597.2	4916.8	2075.2	1018.4	651.7	567.3	517.2	490.7	465.7	459.0	456.5
50°	13326.6	5217.4	1974.8	922.1	629.3	585.8	515.7	486.8	465.7	459.0	453.9
52.5°	14263.4	5623.7	1843.0	811.3	616.1	630.6	513.2	478.8	459.0	449.8	440.6
55°	15401.8	5956.2	1685.9	720.4	585.8	618.8	509.2	469.6	448.6	435.4	427.5
57.5°	16235.5	6076.2	1484.1	661.0	543.6	598.9	503.9	457.7	435.4	424.8	414.2
60°	16070.7	5844.2	1314.0	624.1	518.4	540.9	499.9	447.3	423.6	415.6	406.4
62.5°	14750.1	5237.3	1204.4	606.9	502.6	493.3	503.9	436.7	413.0	405.0	402.4
65°	12769.9	4341.5	1160.9	602.9	489.4	465.7	468.3	424.8	401.1	394.4	391.8
67.5°	10534.0	3503.7	1122.6	616.1	472.2	445.9	432.8	409.0	389.1	382.6	377.3
70°	8307.0	2914.1	1105.5	608.2	451.2	426.1	411.7	391.8	374.7	368.0	364.2
72.5°	6689.8	2461.6	1096.3	600.2	423.6	399.7	386.5	369.4	350.9	348.3	344.3
75°	5660.8	1935.3	1003.9	575.2	391.8	368.0	358.9	343.1	324.5	324.5	322.0
77.5°	4366.7	1399.6	835.1	509.2	358.9	332.5	324.5	312.7	291.5	295.5	294.1
80°	3225.5	912.9	653.0	422.2	317.9	292.8	289.0	277.0	254.6	259.9	259.9
82.5°	2209.7	598.9	469.6	345.7	271.7	248.0	248.0	236.2	211.1	213.6	221.6
85°	1109.4	411.7	350.9	267.9	211.1	199.2	199.2	190.0	164.8	166.2	176.7
87.5°	337.8	248.0	232.2	191.2	151.8	149.1	142.6	135.9	120.1	118.8	125.4
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°	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9
2.5°	6993.1	6917.9	6826.8	6626.3	6559.2	6555.2	6615.8	6552.5	6673.9	6622.5	6679.2
5°	5639.6	5565.8	5464.2	5208.3	5052.5	4947.1	4896.9	4749.2	4856.0	4778.2	4842.9
7.5°	4147.7	4164.7	4097.4	3947.2	3608.0	3437.9	3337.7	3247.9	3325.7	3317.8	3441.9
10°	2915.4	2961.6	2914.1	2762.5	2488.0	2394.3	2412.8	2448.5	2550.1	2602.7	2794.1
12.5°	2098.9	2096.3	2065.9	1930.0	1749.3	1759.8	1835.0	1897.0	1990.7	2046.1	2241.4
15°	1567.3	1543.5	1530.4	1419.5	1316.6	1339.1	1375.9	1382.5	1441.9	1474.8	1633.2
17.5°	1184.7	1196.5	1211.0	1131.9	1054.0	1039.6	1010.6	974.9	992.1	998.6	1077.7
20°	940.5	988.0	1023.7	968.4	889.1	846.9	810.0	786.2	786.2	784.8	807.3
22.5°	821.9	856.2	894.4	856.2	784.8	748.0	726.9	708.5	705.8	705.8	726.9
25°	757.2	782.3	819.3	792.8	740.1	712.4	692.7	668.9	659.6	657.0	671.5
27.5°	725.7	736.2	754.5	730.9	685.9	672.8	667.5	646.4	634.6	627.9	642.5
30°	671.5	668.9	670.1	646.4	610.8	609.5	618.8	622.6	618.8	617.3	639.9
32.5°	621.4	616.1	614.8	593.6	560.6	552.7	560.6	568.5	577.8	591.1	617.3
35°	558.0	571.2	579.1	560.6	521.0	497.3	488.0	473.5	465.7	465.7	496.0
37.5°	507.9	538.3	550.1	533.0	489.4	456.5	440.6	438.0	439.4	444.7	473.5
40°	490.7	513.2	523.7	506.6	463.0	432.8	423.6	420.9	423.6	431.4	460.4
42.5°	480.2	496.0	494.6	473.5	438.0	416.9	411.7	409.0	411.7	419.5	451.2
45°	470.9	481.5	470.9	445.9	413.0	402.4	403.7	402.4	405.0	413.0	443.3
47.5°	463.0	466.9	453.9	428.8	394.4	391.8	397.1	401.1	403.7	410.3	442.0
50°	451.2	451.2	439.4	413.0	378.6	380.0	386.5	395.8	397.1	405.0	430.1
52.5°	436.7	435.4	427.5	402.4	365.4	369.4	369.4	380.0	382.6	391.8	418.3
55°	424.8	422.2	418.3	394.4	353.6	360.1	356.2	360.1	366.8	376.0	405.0
57.5°	414.2	409.0	409.0	387.9	344.3	346.9	337.8	343.1	350.9	358.9	389.1
60°	403.7	398.4	401.1	378.6	329.8	327.2	323.2	333.8	336.3	345.7	376.0
62.5°	391.8	387.9	389.1	368.0	319.3	312.7	312.7	322.0	323.2	336.3	365.4
65°	382.6	377.3	376.0	357.5	307.4	299.4	303.4	307.4	310.1	323.2	350.9
67.5°	373.3	362.7	362.7	348.3	294.1	286.3	294.1	292.8	296.8	308.7	331.1
70°	361.5	346.9	348.3	341.6	281.0	271.7	278.4	277.0	279.7	287.5	310.1
72.5°	343.1	331.1	333.8	331.1	267.9	254.6	257.3	257.3	257.3	263.8	287.5
75°	319.3	310.1	317.9	324.5	252.0	233.5	236.2	236.2	232.2	236.2	265.2
77.5°	290.2	284.9	311.4	302.1	233.5	211.1	211.1	208.4	200.5	205.8	237.4
80°	258.5	254.6	287.5	253.3	212.4	183.3	180.6	174.1	166.2	170.1	201.8
82.5°	225.6	221.6	241.5	193.9	183.3	151.8	145.2	133.3	125.4	129.3	158.3
85°	184.7	184.7	185.9	146.5	139.9	116.2	108.2	92.3	83.2	85.8	113.5
87.5°	132.0	135.9	125.4	100.3	83.2	64.7	59.4	50.1	42.2	48.8	59.4
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: P269570

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-7027-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9
2.5°	6969.4	7114.5	7279.4	7490.4	7671.3	7968.1	8253.0	8424.5
5°	5210.9	5452.4	5753.0	6139.6	6499.7	7040.6	7577.6	7921.9
7.5°	3729.5	3987.9	4312.6	4795.3	5304.5	5994.5	6704.2	7115.8
10°	3085.7	3350.8	3623.9	3949.7	4366.7	5117.3	5956.2	6420.6
12.5°	2552.7	2836.3	3130.6	3473.4	3859.9	4530.2	5497.2	6031.4
15°	1953.8	2270.3	2617.3	3051.4	3535.5	4309.9	5383.7	5964.1
17.5°	1339.1	1692.5	2118.7	2654.2	3246.6	4238.7	5586.9	6255.6
20°	922.1	1179.4	1634.5	2262.4	2974.8	4229.4	5977.3	6815.0
22.5°	771.7	886.4	1219.0	1902.3	2770.4	4342.9	6582.9	7600.0
25°	713.8	782.3	973.6	1589.6	2621.3	4604.1	7416.6	8615.7
27.5°	679.4	741.5	883.8	1385.1	2503.8	4907.5	8227.9	9599.8
30°	692.7	756.0	858.8	1281.0	2344.2	5160.8	8948.2	10367.7
32.5°	624.1	651.7	736.2	1188.5	2229.5	5373.1	9578.7	11003.6
35°	531.6	580.5	657.0	1145.1	2232.1	5515.7	10266.1	11816.1
37.5°	506.6	555.4	610.8	1129.3	2262.4	5667.3	11055.0	12768.7
40°	490.7	535.6	583.1	1119.9	2291.4	5805.8	11828.1	13710.7
42.5°	480.2	521.0	580.5	1088.3	2305.9	5929.8	12464.0	14511.3
45°	478.8	521.0	591.1	1056.6	2328.3	6063.1	12996.9	15103.7
47.5°	480.2	538.3	571.2	1018.4	2328.3	6286.1	13622.2	15632.7
50°	474.9	567.3	550.1	964.3	2274.2	6708.3	14479.7	16341.1
52.5°	472.2	563.2	509.2	881.2	2180.6	7378.4	15578.5	17317.3
55°	465.7	543.6	480.2	757.2	2071.1	8109.2	16755.4	18471.6
57.5°	459.0	481.5	464.3	649.0	1902.3	8623.6	17565.3	19372.7
60°	514.5	420.9	451.2	596.3	1676.7	8764.9	17533.7	19731.5
62.5°	476.2	394.4	434.1	584.3	1518.5	8369.1	16723.7	19537.5
65°	373.3	377.3	416.9	618.8	1476.3	7320.3	15288.3	18641.7
67.5°	341.6	360.1	399.7	662.2	1480.1	5861.4	13143.3	16690.7
70°	322.0	341.6	380.0	684.7	1490.6	4369.3	10391.5	13594.5
72.5°	299.4	316.7	357.5	688.6	1422.0	3174.0	8009.0	9995.7
75°	273.1	289.0	325.8	600.2	1178.0	2201.7	6126.4	6838.7
77.5°	242.7	254.6	286.3	463.0	874.6	1408.9	4598.8	4995.8
80°	207.1	213.6	240.0	339.0	598.9	881.2	3638.3	4009.0
82.5°	166.2	168.8	185.9	254.6	389.1	565.9	2436.7	2781.0
85°	117.4	117.4	128.0	184.7	265.2	358.9	1323.2	1466.9
87.5°	55.4	56.8	56.8	101.6	138.5	182.0	304.7	187.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)