

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: P269574

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269574  
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-SLR-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT 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

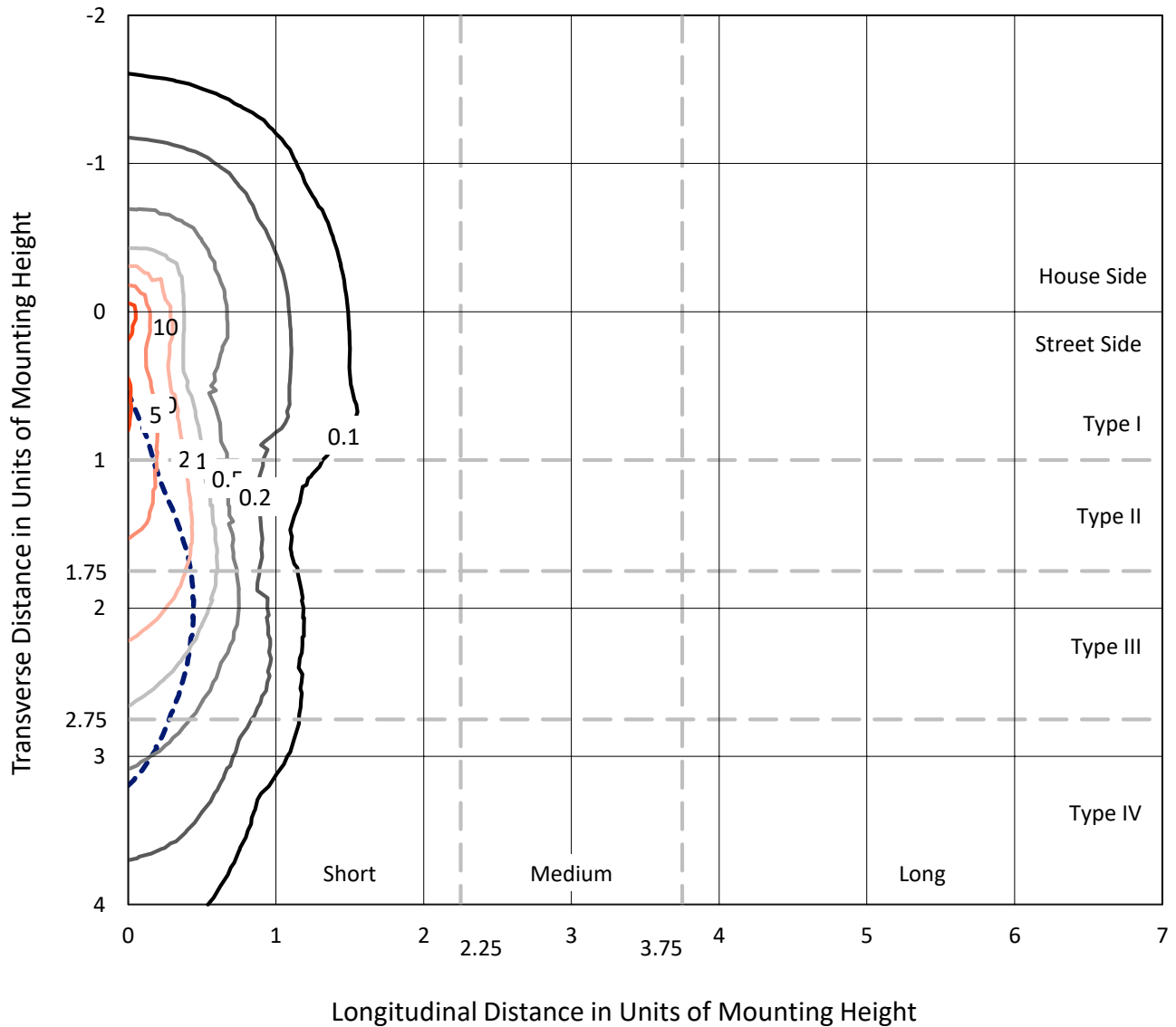


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

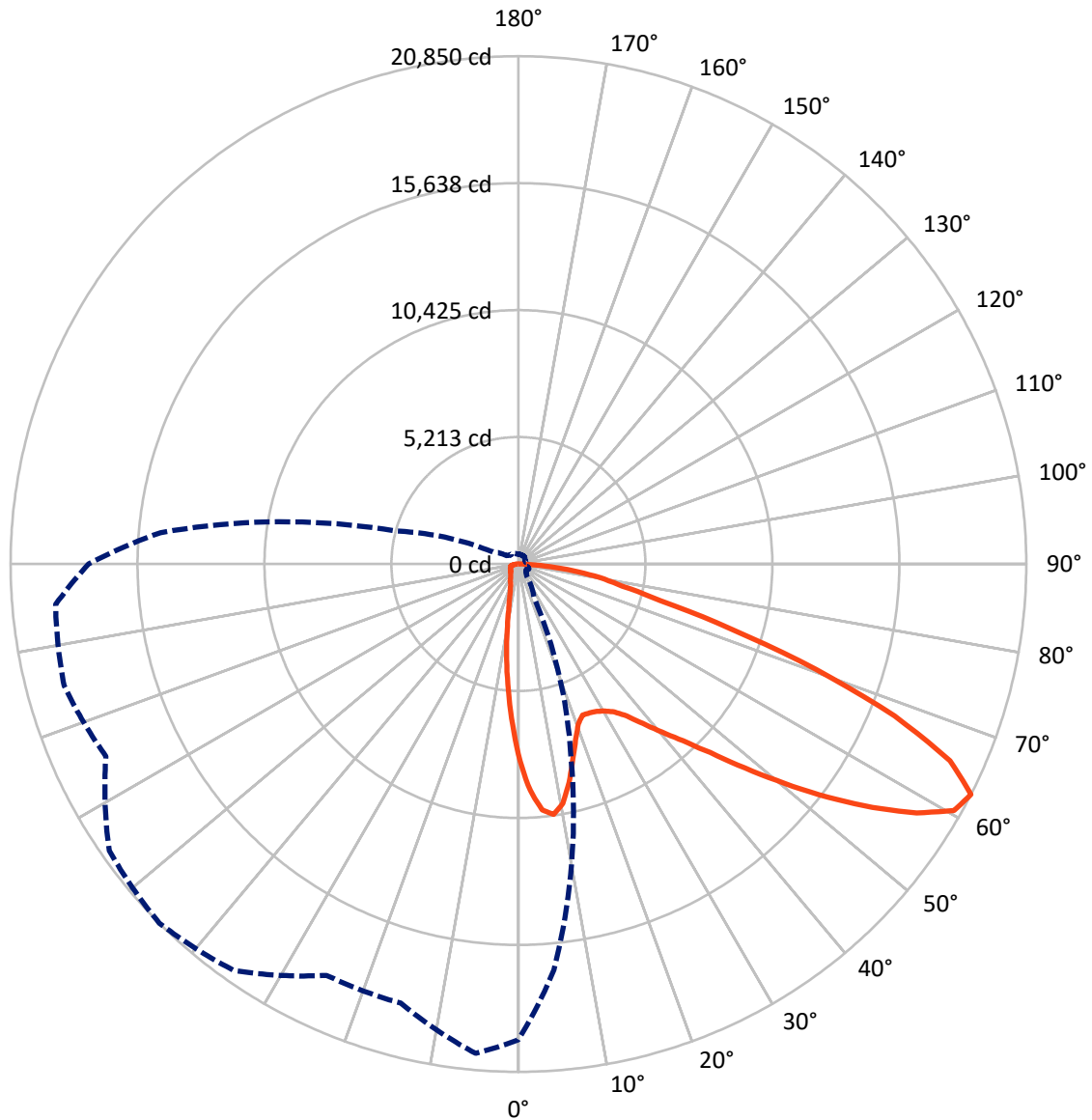


Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-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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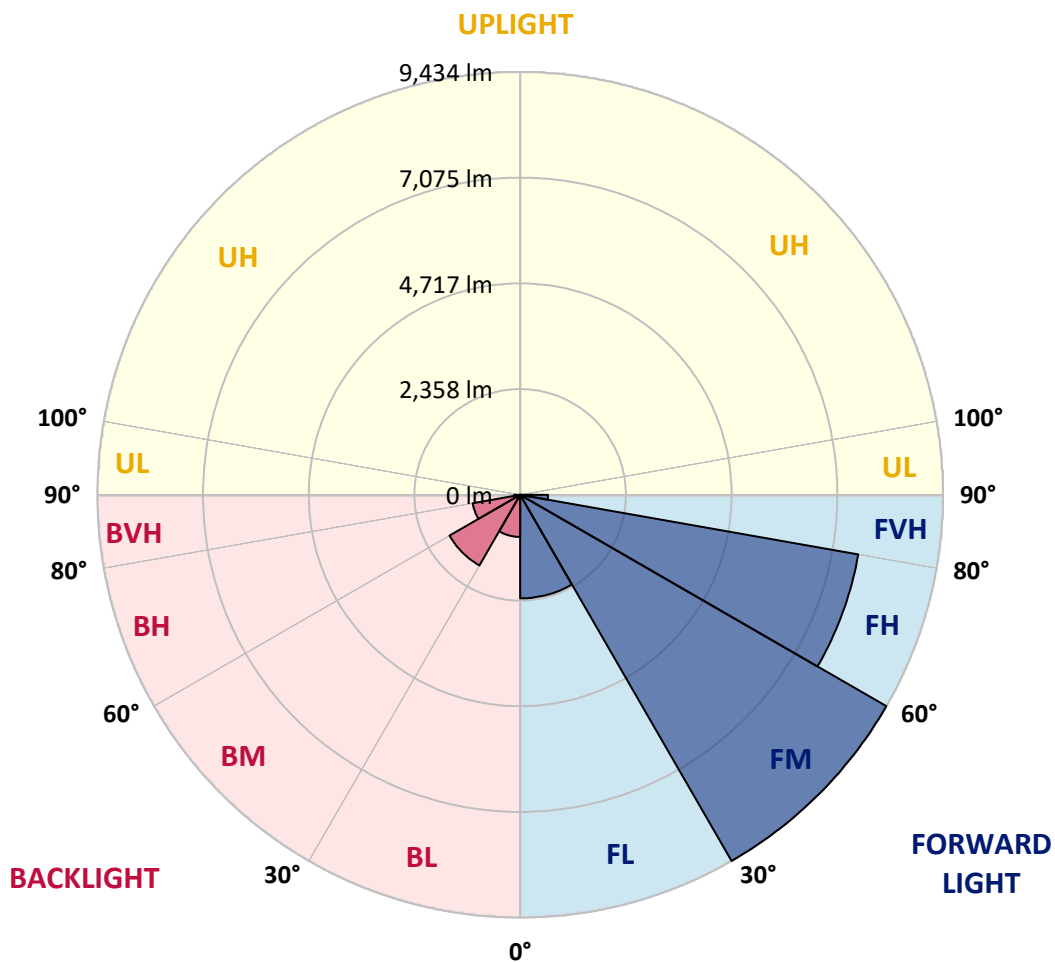
CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-7027-600

**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	8253.0	7968.1	7671.3	7490.4	7279.4	7114.5	6969.4	6679.2	6622.5	6673.9
5°	7921.9	7577.6	7040.6	6499.7	6139.6	5753.0	5452.4	5210.9	4842.9	4778.2	4856.0
7.5°	7115.8	6704.2	5994.5	5304.5	4795.3	4312.6	3987.9	3729.5	3441.9	3317.8	3325.7
10°	6420.6	5956.2	5117.3	4366.7	3949.7	3623.9	3350.8	3085.7	2794.1	2602.7	2550.1
12.5°	6031.4	5497.2	4530.2	3859.9	3473.4	3130.6	2836.3	2552.7	2241.4	2046.1	1990.7
15°	5964.1	5383.7	4309.9	3535.5	3051.4	2617.3	2270.3	1953.8	1633.2	1474.8	1441.9
17.5°	6255.6	5586.9	4238.7	3246.6	2654.2	2118.7	1692.5	1339.1	1077.7	998.6	992.1
20°	6815.0	5977.3	4229.4	2974.8	2262.4	1634.5	1179.4	922.1	807.3	784.8	786.2
22.5°	7600.0	6582.9	4342.9	2770.4	1902.3	1219.0	886.4	771.7	726.9	705.8	705.8
25°	8615.7	7416.6	4604.1	2621.3	1589.6	973.6	782.3	713.8	671.5	657.0	659.6
27.5°	9599.8	8227.9	4907.5	2503.8	1385.1	883.8	741.5	679.4	642.5	627.9	634.6
30°	10367.7	8948.2	5160.8	2344.2	1281.0	858.8	756.0	692.7	639.9	617.3	618.8
32.5°	11003.6	9578.7	5373.1	2229.5	1188.5	736.2	651.7	624.1	617.3	591.1	577.8
35°	11816.1	10266.1	5515.7	2232.1	1145.1	657.0	580.5	531.6	496.0	465.7	465.7
37.5°	12768.7	11055.0	5667.3	2262.4	1129.3	610.8	555.4	506.6	473.5	444.7	439.4
40°	13710.7	11828.1	5805.8	2291.4	1119.9	583.1	535.6	490.7	460.4	431.4	423.6
42.5°	14511.3	12464.0	5929.8	2305.9	1088.3	580.5	521.0	480.2	451.2	419.5	411.7
45°	15103.7	12996.9	6063.1	2328.3	1056.6	591.1	521.0	478.8	443.3	413.0	405.0
47.5°	15632.7	13622.2	6286.1	2328.3	1018.4	571.2	538.3	480.2	442.0	410.3	403.7
50°	16341.1	14479.7	6708.3	2274.2	964.3	550.1	567.3	474.9	430.1	405.0	397.1
52.5°	17317.3	15578.5	7378.4	2180.6	881.2	509.2	563.2	472.2	418.3	391.8	382.6
55°	18471.6	16755.4	8109.2	2071.1	757.2	480.2	543.6	465.7	405.0	376.0	366.8
57.5°	19372.7	17565.3	8623.6	1902.3	649.0	464.3	481.5	459.0	389.1	358.9	350.9
60°	19731.5	17533.7	8764.9	1676.7	596.3	451.2	420.9	514.5	376.0	345.7	336.3
62.5°	19537.5	16723.7	8369.1	1518.5	584.3	434.1	394.4	476.2	365.4	336.3	323.2
65°	18641.7	15288.3	7320.3	1476.3	618.8	416.9	377.3	373.3	350.9	323.2	310.1
67.5°	16690.7	13143.3	5861.4	1480.1	662.2	399.7	360.1	341.6	331.1	308.7	296.8
70°	13594.5	10391.5	4369.3	1490.6	684.7	380.0	341.6	322.0	310.1	287.5	279.7
72.5°	9995.7	8009.0	3174.0	1422.0	688.6	357.5	316.7	299.4	287.5	263.8	257.3
75°	6838.7	6126.4	2201.7	1178.0	600.2	325.8	289.0	273.1	265.2	236.2	232.2
77.5°	4995.8	4598.8	1408.9	874.6	463.0	286.3	254.6	242.7	237.4	205.8	200.5
80°	4009.0	3638.3	881.2	598.9	339.0	240.0	213.6	207.1	201.8	170.1	166.2
82.5°	2781.0	2436.7	565.9	389.1	254.6	185.9	168.8	166.2	158.3	129.3	125.4
85°	1466.9	1323.2	358.9	265.2	184.7	128.0	117.4	117.4	113.5	85.8	83.2
87.5°	187.3	304.7	182.0	138.5	101.6	56.8	56.8	55.4	59.4	48.8	42.2
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°	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9	8107.9
2.5°	6552.5	6615.8	6555.2	6559.2	6626.3	6826.8	6917.9	6993.1	7073.7	7126.4	7150.1
5°	4749.2	4896.9	4947.1	5052.5	5208.3	5464.2	5565.8	5639.6	5688.4	5717.4	5729.3
7.5°	3247.9	3337.7	3437.9	3608.0	3947.2	4097.4	4164.7	4147.7	4092.1	4072.3	4052.7
10°	2448.5	2412.8	2394.3	2488.0	2762.5	2914.1	2961.6	2915.4	2885.1	2891.7	2924.7
12.5°	1897.0	1835.0	1759.8	1749.3	1930.0	2065.9	2096.3	2098.9	2154.2	2203.2	2275.6
15°	1382.5	1375.9	1339.1	1316.6	1419.5	1530.4	1543.5	1567.3	1617.4	1653.1	1716.3
17.5°	974.9	1010.6	1039.6	1054.0	1131.9	1211.0	1196.5	1184.7	1175.4	1175.4	1205.7
20°	786.2	810.0	846.9	889.1	968.4	1023.7	988.0	940.5	906.3	895.7	899.7
22.5°	708.5	726.9	748.0	784.8	856.2	894.4	856.2	821.9	787.5	775.6	771.7
25°	668.9	692.7	712.4	740.1	792.8	819.3	782.3	757.2	736.2	721.6	711.1
27.5°	646.4	667.5	672.8	685.9	730.9	754.5	736.2	725.7	712.4	699.2	685.9
30°	622.6	618.8	609.5	610.8	646.4	670.1	668.9	671.5	670.1	666.3	663.6
32.5°	568.5	560.6	552.7	560.6	593.6	614.8	616.1	621.4	621.4	620.0	630.6
35°	473.5	488.0	497.3	521.0	560.6	579.1	571.2	558.0	534.3	519.8	518.4
37.5°	438.0	440.6	456.5	489.4	533.0	550.1	538.3	507.9	492.1	489.4	493.3
40°	420.9	423.6	432.8	463.0	506.6	523.7	513.2	490.7	476.2	474.9	481.5
42.5°	409.0	411.7	416.9	438.0	473.5	494.6	496.0	480.2	463.0	464.3	470.9
45°	402.4	403.7	402.4	413.0	445.9	470.9	481.5	470.9	456.5	459.0	466.9
47.5°	401.1	397.1	391.8	394.4	428.8	453.9	466.9	463.0	456.5	459.0	465.7
50°	395.8	386.5	380.0	378.6	413.0	439.4	451.2	451.2	453.9	459.0	465.7
52.5°	380.0	369.4	369.4	365.4	402.4	427.5	435.4	436.7	440.6	449.8	459.0
55°	360.1	356.2	360.1	353.6	394.4	418.3	422.2	424.8	427.5	435.4	448.6
57.5°	343.1	337.8	346.9	344.3	387.9	409.0	409.0	414.2	414.2	424.8	435.4
60°	333.8	323.2	327.2	329.8	378.6	401.1	398.4	403.7	406.4	415.6	423.6
62.5°	322.0	312.7	312.7	319.3	368.0	389.1	387.9	391.8	402.4	405.0	413.0
65°	307.4	303.4	299.4	307.4	357.5	376.0	377.3	382.6	391.8	394.4	401.1
67.5°	292.8	294.1	286.3	294.1	348.3	362.7	362.7	373.3	377.3	382.6	389.1
70°	277.0	278.4	271.7	281.0	341.6	348.3	346.9	361.5	364.2	368.0	374.7
72.5°	257.3	257.3	254.6	267.9	331.1	333.8	331.1	343.1	344.3	348.3	350.9
75°	236.2	236.2	233.5	252.0	324.5	317.9	310.1	319.3	322.0	324.5	324.5
77.5°	208.4	211.1	211.1	233.5	302.1	311.4	284.9	290.2	294.1	295.5	291.5
80°	174.1	180.6	183.3	212.4	253.3	287.5	254.6	258.5	259.9	259.9	254.6
82.5°	133.3	145.2	151.8	183.3	193.9	241.5	221.6	225.6	221.6	213.6	211.1
85°	92.3	108.2	116.2	139.9	146.5	185.9	184.7	184.7	176.7	166.2	164.8
87.5°	50.1	59.4	64.7	83.2	100.3	125.4	135.9	132.0	125.4	118.8	120.1
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):**

	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°	7274.1	7453.5	7739.8	7958.9	8179.1	8391.4	8621.0	8796.6	8945.6	9003.6	9180.4
5°	5849.5	6073.7	6344.1	6832.1	7177.8	7559.1	7999.6	8582.8	8807.1	9117.1	9625.0
7.5°	4135.7	4339.0	4774.2	5168.7	5658.2	6197.6	6792.7	7597.3	7891.5	8388.9	9216.0
10°	3088.3	3324.4	3674.0	4006.4	4437.8	4989.2	5672.5	6572.3	6929.9	7469.3	8421.9
12.5°	2488.0	2766.4	3137.2	3449.8	3783.5	4172.6	4836.3	5823.1	6301.9	6774.2	7737.2
15°	1911.6	2203.2	2547.5	2944.5	3312.5	3732.1	4427.2	5506.4	6057.8	6549.9	7371.9
17.5°	1323.2	1572.6	2006.5	2420.8	2891.7	3428.7	4313.8	5573.7	6231.9	6799.2	7435.1
20°	938.0	1080.4	1436.6	1916.9	2503.8	3177.9	4292.7	5927.2	6783.5	7431.0	7841.5
22.5°	788.9	841.6	1048.9	1489.4	2167.5	2990.6	4366.7	6423.2	7527.4	8354.5	8489.2
25°	719.0	750.7	858.8	1168.9	1868.0	2854.8	4615.9	7161.9	8448.2	9278.1	9254.2
27.5°	680.7	713.8	784.8	986.8	1642.5	2770.4	4865.3	8037.9	9501.0	10280.7	9985.1
30°	668.9	713.8	788.9	930.0	1481.5	2637.2	5069.8	8807.1	10310.9	10957.3	10317.6
32.5°	659.6	666.3	700.5	802.0	1328.5	2481.5	5208.3	9497.1	11103.8	11601.3	10796.4
35°	533.0	565.9	621.4	719.0	1238.8	2387.8	5208.3	10092.0	11884.8	12251.5	11252.9
37.5°	513.2	542.1	591.1	674.1	1188.5	2341.6	5104.0	10665.8	12682.9	12989.0	11628.9
40°	502.6	526.3	572.5	639.9	1167.4	2288.8	4952.4	11172.4	13462.5	13727.7	11979.7
42.5°	494.6	515.7	559.4	618.8	1139.8	2230.9	4829.6	11578.8	14139.3	14358.2	12314.9
45°	490.7	513.2	560.6	629.3	1084.4	2154.2	4788.8	12018.1	14696.0	14884.6	12677.6
47.5°	490.7	517.2	567.3	651.7	1018.4	2075.2	4916.8	12597.2	15222.4	15314.8	13105.1
50°	486.8	515.7	585.8	629.3	922.1	1974.8	5217.4	13326.6	15792.4	15802.9	13646.0
52.5°	478.8	513.2	630.6	616.1	811.3	1843.0	5623.7	14263.4	16635.4	16698.7	14492.9
55°	469.6	509.2	618.8	585.8	720.4	1685.9	5956.2	15401.8	17819.9	17995.3	15738.2
57.5°	457.7	503.9	598.9	543.6	661.0	1484.1	6076.2	16235.5	18647.0	19087.6	17141.8
60°	447.3	499.9	540.9	518.4	624.1	1314.0	5844.2	16070.7	18590.3	19540.2	18385.9
62.5°	436.7	503.9	493.3	502.6	606.9	1204.4	5237.3	14750.1	17649.8	19073.3	19308.0
65°	424.8	468.3	465.7	489.4	602.9	1160.9	4341.5	12769.9	15831.9	17597.0	19525.6
67.5°	409.0	432.8	445.9	472.2	616.1	1122.6	3503.7	10534.0	13305.5	15384.6	18391.2
70°	391.8	411.7	426.1	451.2	608.2	1105.5	2914.1	8307.0	10557.7	12609.0	16152.5
72.5°	369.4	386.5	399.7	423.6	600.2	1096.3	2461.6	6689.8	7882.3	9366.4	13132.9
75°	343.1	358.9	368.0	391.8	575.2	1003.9	1935.3	5660.8	5898.2	6515.5	10460.0
77.5°	312.7	324.5	332.5	358.9	509.2	835.1	1399.6	4366.7	4580.3	4730.7	8019.4
80°	277.0	289.0	292.8	317.9	422.2	653.0	912.9	3225.5	3426.0	3460.4	5237.3
82.5°	236.2	248.0	248.0	271.7	345.7	469.6	598.9	2209.7	2249.3	2365.3	3701.7
85°	190.0	199.2	199.2	211.1	267.9	350.9	411.7	1109.4	1097.5	1253.2	3206.9
87.5°	135.9	142.6	149.1	151.8	191.2	232.2	248.0	337.8	223.0	255.9	2059.3
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-08-LED-E1-SLR-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°	9313.6	9388.8	9312.3	9256.9	9018.2	8821.5	8559.1	8424.5
5°	10011.5	10202.8	10138.1	9906.0	9407.3	8846.7	8209.5	7921.9
7.5°	9927.1	10371.7	10382.3	9948.2	9213.3	8387.6	7524.8	7115.8
10°	9270.1	9838.6	10001.0	9580.2	8800.4	7877.0	6887.7	6420.6
12.5°	8536.7	9093.4	9217.4	9072.3	8420.5	7493.1	6489.1	6031.4
15°	7936.3	8185.7	8333.4	8460.1	8094.6	7340.1	6466.8	5964.1
17.5°	7570.9	7543.2	7585.5	7805.8	7867.7	7515.6	6809.8	6255.6
20°	7439.0	7015.6	7005.1	7308.4	7760.9	7933.7	7479.9	6815.0
22.5°	7511.5	6825.6	6738.5	7098.6	7817.7	8536.7	8358.5	7600.0
25°	7762.3	6841.4	6771.6	7119.7	8023.4	9179.2	9307.1	8615.7
27.5°	8156.7	6941.7	6849.3	7206.8	8296.6	9718.7	10241.0	9599.8
30°	8531.4	7115.8	7001.1	7378.4	8545.8	9932.4	10813.5	10367.7
32.5°	8986.5	7441.6	7239.8	7693.7	8854.6	10272.7	11324.2	11003.6
35°	9432.4	7906.1	7655.4	8180.4	9198.9	10696.2	11907.3	11816.1
37.5°	9921.8	8512.9	8305.8	8809.7	9669.9	11096.0	12651.3	12768.7
40°	10444.2	9317.6	9072.3	9727.8	10400.7	11597.2	13428.3	13710.7
42.5°	10970.6	10210.8	9917.8	10582.8	11204.1	12091.9	14093.1	14511.3
45°	11573.5	11180.3	11041.8	11760.8	11975.8	12562.8	14584.0	15103.7
47.5°	12275.2	12280.5	12503.5	12791.1	12754.1	13095.9	15077.3	15632.7
50°	13094.6	13653.9	14145.9	14337.2	13556.2	13668.4	15762.0	16341.1
52.5°	14078.6	15296.2	15905.7	15780.4	14420.3	14367.5	16846.4	17317.3
55°	15309.5	17035.0	17640.6	17550.8	15413.7	15320.1	18197.2	18471.6
57.5°	16734.3	18719.6	19276.4	18872.8	16606.2	16364.9	19314.5	19372.7
60°	17986.1	20054.8	20542.8	20095.5	17809.3	17477.0	20012.5	19731.5
62.5°	18682.7	20507.1	20850.2	20368.7	18633.9	18661.6	20165.5	19537.5
65°	18371.3	19363.4	19474.3	19434.7	18421.5	19349.0	19615.4	18641.7
67.5°	16667.0	16471.7	16657.7	16914.9	16600.9	18443.9	18091.7	16690.7
70°	13664.4	12591.9	12962.6	13135.3	13277.8	15871.4	15702.6	13594.5
72.5°	10297.8	8821.5	9114.5	9078.8	9738.4	12730.4	12212.0	9995.7
75°	7296.6	5981.4	6018.3	6003.7	6795.3	9960.0	8842.6	6838.7
77.5°	5105.3	4333.7	4353.4	4435.2	4568.4	7511.5	6317.7	4995.8
80°	3510.4	3288.9	3398.3	3404.8	3166.2	5046.0	4667.4	4009.0
82.5°	2614.6	2286.1	2259.9	2298.0	2481.5	4088.2	3586.9	2781.0
85°	2141.1	1353.6	1088.3	1364.0	2199.1	4048.8	2382.6	1466.9
87.5°	1205.7	642.5	290.2	538.3	877.3	2680.6	688.6	187.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)