

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: P269409

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269409  
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-06-LED-E1-SLL-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1050mA 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: 27181.1 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 333  
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

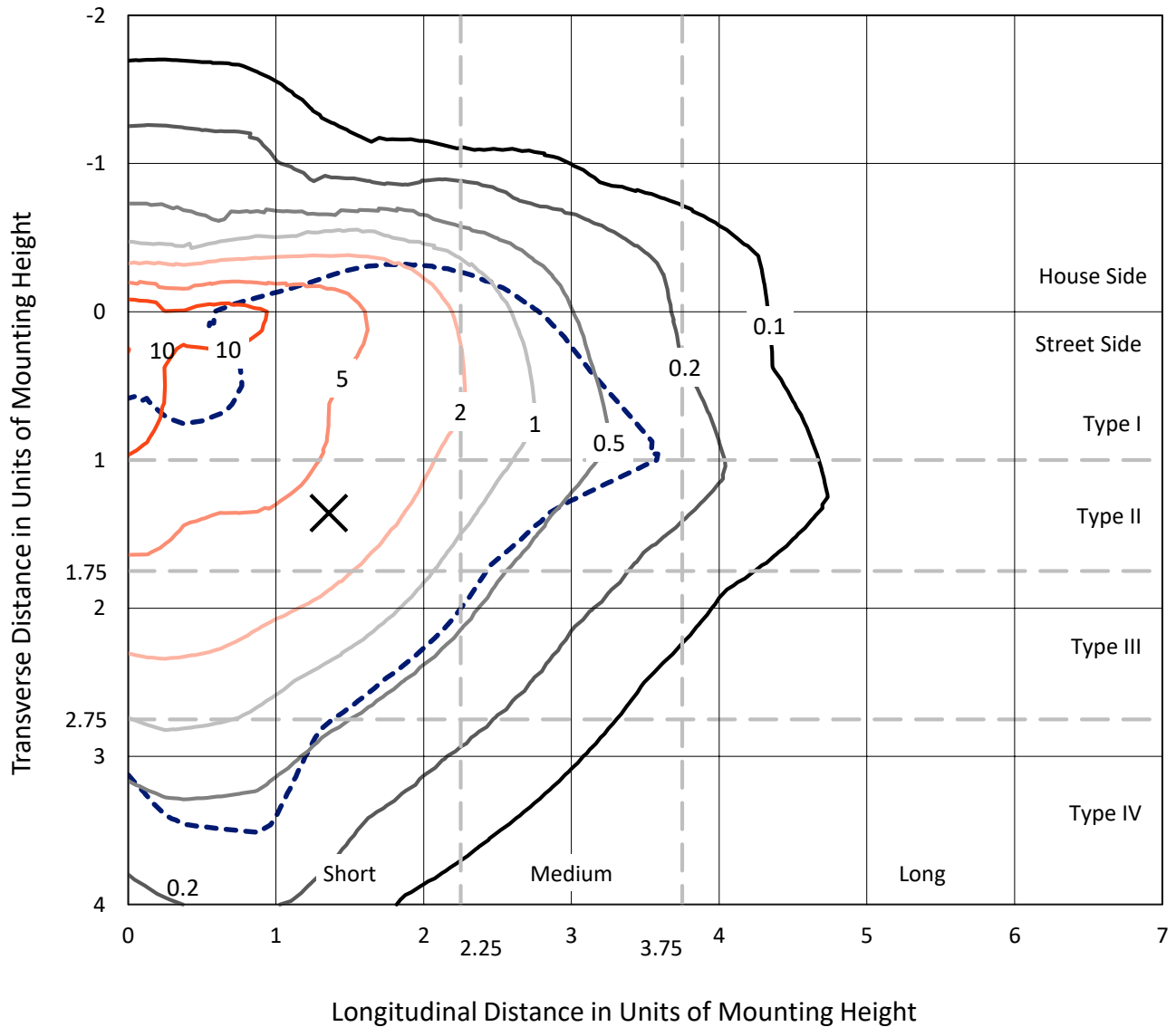


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### Iso-Footcandle Lines of Horizontal Illumination

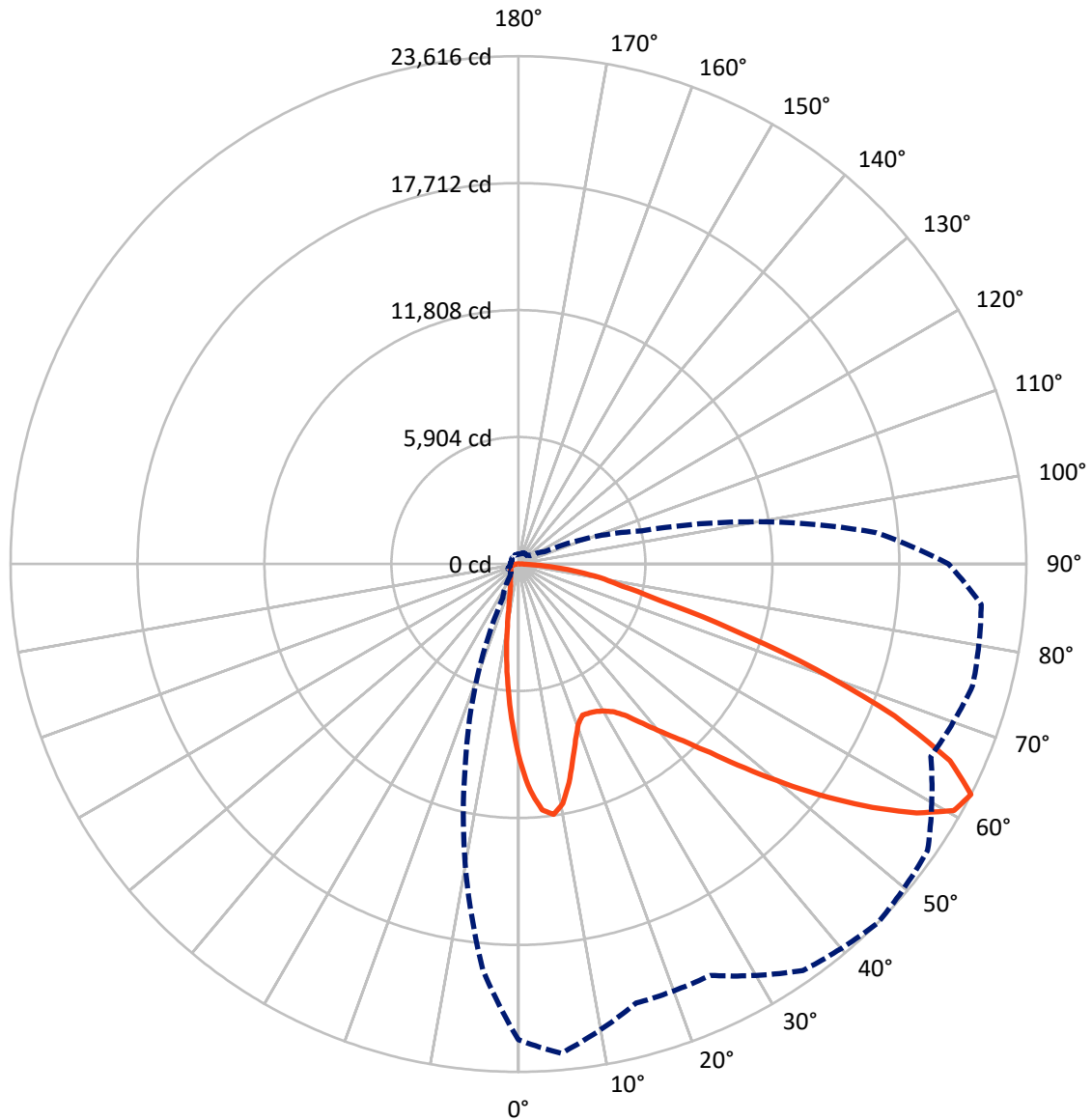
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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	4498.1	0.0	4498.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	22683.0	0.0	22683.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	27181.1	0.0	27181.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	668.5	2.5
10°-20°	1225.9	4.5
20°-30°	1787.3	6.6
30°-40°	2752.7	10.1
40°-50°	4051.2	14.9
50°-60°	5942.3	21.9
60°-70°	6642.6	24.4
70°-80°	3252.1	12.0
80°-90°	858.6	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°	27181.1	100.0
0°-180°	27181.1	100.0



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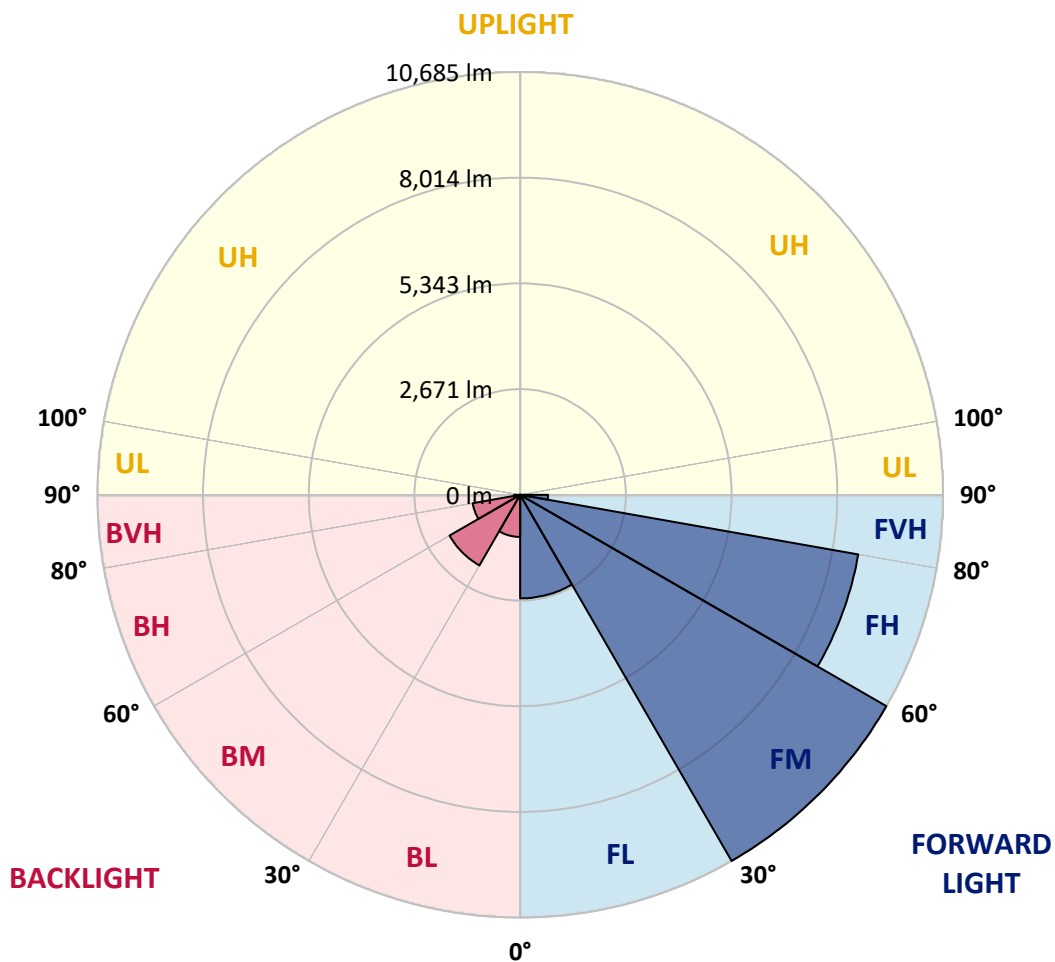
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2617.5	9.6			
FM	(30°-60°)	10685.2	39.3			
FH	(60°-80°)	8675.3	31.9			G4/12000
FVH	(80°-90°)	705.1	2.6			G4/750
BL	(0°-30°)	1064.2	3.9	B3/2500		
BM	(30°-60°)	2061.0	7.6	B2/2500		
BH	(60°-80°)	1219.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	153.5	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°	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3
2.5°	9541.8	9694.2	9991.6	10214.3	10484.7	10547.4	10634.1	10548.9	10398.1	10197.7	10132.1
5°	8972.6	9298.3	10020.1	10655.1	11219.8	11482.9	11556.1	11339.3	10901.7	10326.2	9975.1
7.5°	8059.7	8522.8	9500.0	10435.4	11267.6	11759.3	11747.2	11243.7	10438.3	9501.6	8938.2
10°	7272.1	7801.2	8921.7	9967.8	10850.7	11327.4	11143.7	10499.6	9538.9	8460.1	7848.9
12.5°	6831.4	7349.9	8486.9	9537.3	10275.5	10439.8	10299.3	9668.8	8763.3	7672.7	7137.8
15°	6755.3	7324.5	8313.6	9168.3	9582.2	9438.9	9271.3	8989.0	8349.4	7418.7	6861.3
17.5°	7085.4	7712.9	8512.3	8911.4	8841.1	8591.6	8543.7	8575.1	8421.3	7701.0	7058.5
20°	7719.0	8472.0	8986.0	8790.3	8277.8	7934.1	7946.0	8425.7	8881.5	8416.7	7683.2
22.5°	8608.0	9467.1	9668.8	8854.6	8040.2	7632.3	7731.0	8507.8	9615.1	9462.7	8525.9
25°	9758.5	10541.5	10396.5	9087.7	8064.2	7669.6	7748.8	8791.8	10481.8	10508.6	9568.7
27.5°	10873.2	11599.4	11007.7	9396.9	8162.7	7757.9	7862.3	9238.6	11309.5	11644.2	10761.2
30°	11742.9	12247.9	11249.7	9679.3	8357.0	7929.7	8059.7	9662.9	11686.1	12410.8	11678.5
32.5°	12462.9	12826.1	11635.1	10028.9	8714.1	8200.1	8428.6	10178.3	12228.4	13139.9	12576.5
35°	13383.4	13486.6	12114.8	10418.9	9265.5	8670.7	8954.7	10683.5	12745.4	13876.5	13461.1
37.5°	14462.3	14329.3	12567.6	10952.3	9978.2	9407.4	9642.0	11237.7	13171.2	14711.7	14365.1
40°	15529.1	15209.4	13135.3	11780.2	11018.2	10275.5	10553.4	11829.5	13568.7	15548.5	15248.2
42.5°	16436.0	15962.3	13695.6	12690.0	11986.4	11233.2	11565.0	12425.6	13948.3	16262.6	16014.7
45°	17107.0	16518.3	14229.2	13564.1	13320.6	12506.4	12663.1	13108.4	14359.0	16858.9	16645.2
47.5°	17706.1	17077.0	14832.8	14445.7	14487.7	14161.9	13909.4	13903.3	14843.2	17346.0	17241.3
50°	18508.5	17852.6	15481.2	15354.2	16238.8	16022.1	15464.9	14831.2	15455.9	17898.8	17887.0
52.5°	19614.1	19080.7	16273.2	16333.0	17873.4	18015.4	17325.2	15946.0	16415.1	18913.4	18841.7
55°	20921.5	20610.8	17352.0	17458.0	19878.7	19980.2	19294.3	17340.1	17825.5	20382.2	20183.5
57.5°	21942.1	21876.3	18535.4	18808.8	21375.8	21833.0	21202.4	18953.7	19415.4	21619.4	21120.3
60°	22348.6	22666.8	19795.0	20171.5	22761.0	23267.4	22714.6	20371.8	20824.5	22131.8	21056.0
62.5°	22128.8	22840.0	21136.7	21105.4	23070.2	23615.6	23227.0	21160.7	21868.9	21602.9	19990.7
65°	21114.3	22217.1	21915.2	20864.8	22012.2	22057.2	21931.6	20808.0	22115.5	19931.0	17931.6
67.5°	18904.4	20491.2	20890.2	18802.9	19158.4	18867.0	18656.4	18877.5	20830.3	17425.2	15070.3
70°	15397.6	17785.3	17976.5	15039.0	14877.5	14681.9	14262.0	15476.8	18294.8	14281.4	11958.0
72.5°	11321.3	13831.7	14418.9	11030.1	10283.0	10323.3	9991.6	11663.7	14874.7	10608.8	8927.7
75°	7745.8	10015.6	11281.0	7696.6	6800.0	6816.5	6774.7	8264.3	11847.3	7379.8	6680.4
77.5°	5658.5	7155.7	8507.8	5174.3	5023.4	4930.7	4908.3	5782.5	9083.1	5358.1	5187.8
80°	4540.8	5286.4	5715.2	3586.0	3856.6	3849.0	3725.0	3976.0	5931.9	3919.2	3880.4
82.5°	3149.7	4062.7	4630.5	2810.5	2602.8	2559.5	2589.5	2961.4	4192.7	2679.0	2547.7
85°	1661.5	2698.5	4585.7	2490.8	1544.9	1232.7	1533.0	2425.1	3632.3	1419.5	1243.2
87.5°	212.2	780.0	3036.2	993.6	609.6	328.7	727.6	1365.8	2332.4	289.9	252.6
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°	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3
2.5°	9963.2	9764.4	9504.4	9264.0	9014.4	8766.4	8442.1	8239.0	8098.5	8071.6	8011.9
5°	9721.2	9060.8	8561.7	8129.8	7738.4	7185.5	6879.2	6625.2	6489.3	6475.8	6443.0
7.5°	8605.0	7693.5	7019.6	6408.6	5854.3	5407.4	4914.4	4684.2	4590.1	4612.5	4635.0
10°	7444.1	6424.9	5651.0	5026.5	4537.9	4161.3	3765.3	3497.9	3312.6	3275.2	3267.8
12.5°	6595.4	5477.7	4726.2	4285.4	3907.3	3553.2	3133.3	2818.1	2577.4	2495.3	2439.9
15°	6236.8	5014.5	4227.1	3752.0	3335.0	2885.3	2495.3	2165.1	1943.9	1872.2	1831.9
17.5°	6312.8	4886.1	3883.5	3275.2	2741.8	2272.6	1781.1	1498.6	1365.8	1331.3	1331.3
20°	6713.4	4862.0	3599.5	2835.9	2171.1	1627.2	1223.8	1062.3	1019.0	1014.5	1026.6
22.5°	7275.3	4945.8	3387.2	2455.0	1686.9	1187.9	953.3	893.5	874.1	878.6	892.0
25°	8112.0	5228.1	3233.4	2115.8	1323.8	972.8	850.2	814.4	805.4	817.3	833.7
27.5°	9104.1	5510.6	3137.8	1860.3	1117.6	889.1	808.4	770.9	776.9	791.9	806.9
30°	9975.1	5742.1	2986.9	1677.9	1053.4	893.5	808.4	757.5	751.6	754.5	759.1
32.5°	10756.7	5899.0	2810.5	1504.7	908.5	793.5	754.5	747.1	714.2	702.2	703.7
35°	11430.6	5899.0	2704.4	1403.1	814.4	703.7	641.0	603.7	587.2	588.7	605.2
37.5°	12080.4	5781.0	2652.2	1346.3	763.5	669.3	614.1	581.3	558.8	554.3	557.3
40°	12654.2	5609.1	2592.4	1322.3	724.8	648.4	596.1	569.3	545.5	537.9	539.4
42.5°	13114.4	5470.1	2526.7	1291.0	700.8	633.6	584.2	560.4	533.5	526.0	524.5
45°	13611.9	5423.8	2439.9	1228.3	712.7	635.0	581.3	555.8	528.9	519.9	517.0
47.5°	14268.0	5568.9	2350.3	1153.6	738.1	642.5	585.8	555.8	527.5	519.9	517.0
50°	15094.2	5909.5	2236.8	1044.4	712.7	663.4	584.2	551.4	527.5	519.9	514.0
52.5°	16155.1	6369.7	2087.4	919.0	697.8	714.2	581.3	542.3	519.9	509.5	499.1
55°	17444.5	6746.2	1909.5	815.8	663.4	700.8	576.7	531.9	508.0	493.1	484.0
57.5°	18388.9	6882.3	1681.0	748.6	615.6	678.4	570.8	518.5	493.1	481.1	469.2
60°	18202.1	6619.3	1488.2	706.7	587.2	612.6	566.3	506.6	479.6	470.6	460.2
62.5°	16706.5	5931.9	1364.2	687.4	569.3	558.8	570.8	494.5	467.7	458.8	455.7
65°	14463.7	4917.3	1314.8	682.8	554.3	527.5	530.4	481.1	454.3	446.7	443.8
67.5°	11931.1	3968.5	1271.6	697.8	534.9	505.0	490.0	463.2	440.8	433.3	427.4
70°	9408.8	3300.6	1252.1	688.8	511.0	482.6	466.2	443.8	424.4	416.9	412.4
72.5°	7577.1	2788.2	1241.6	679.8	479.6	452.7	437.8	418.4	397.5	394.4	390.0
75°	6411.6	2192.0	1137.1	651.5	443.8	416.9	406.5	388.4	367.5	367.5	364.6
77.5°	4945.8	1585.2	945.8	576.7	406.5	376.5	367.5	354.1	330.1	334.7	333.2
80°	3653.2	1033.9	739.7	478.2	360.1	331.7	327.3	313.8	288.4	294.4	294.4
82.5°	2502.8	678.4	531.9	391.5	307.8	280.9	280.9	267.4	239.0	242.1	251.0
85°	1256.5	466.2	397.5	303.3	239.0	225.7	225.7	215.1	186.8	188.3	200.2
87.5°	382.5	280.9	262.9	216.6	171.8	168.8	161.3	153.9	136.0	134.4	141.9
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3
2.5°	7920.6	7835.5	7732.4	7505.2	7429.2	7424.6	7493.3	7421.5	7559.1	7500.8	7565.0
5°	6387.7	6303.9	6189.0	5899.0	5722.7	5603.2	5546.4	5379.1	5500.1	5411.8	5485.1
7.5°	4697.7	4717.1	4641.0	4470.7	4086.6	3893.9	3780.2	3678.6	3766.9	3757.9	3898.4
10°	3302.2	3354.5	3300.6	3128.8	2818.1	2712.0	2732.9	2773.2	2888.3	2948.0	3164.6
12.5°	2377.3	2374.3	2339.8	2185.9	1981.3	1993.2	2078.4	2148.7	2254.7	2317.4	2538.6
15°	1775.1	1748.2	1733.3	1607.7	1491.1	1516.6	1558.4	1565.9	1633.2	1670.5	1849.8
17.5°	1341.8	1355.3	1371.6	1282.1	1193.8	1177.4	1144.5	1104.1	1123.6	1131.1	1220.7
20°	1065.4	1119.2	1159.5	1096.7	1007.1	959.3	917.3	890.5	890.5	889.1	914.5
22.5°	930.9	969.7	1013.1	969.7	889.1	847.2	823.2	802.4	799.4	799.4	823.2
25°	857.6	886.1	927.9	897.9	838.3	806.9	784.4	757.5	747.1	744.1	760.5
27.5°	821.8	833.7	854.6	827.8	776.9	762.0	756.1	732.2	718.7	711.3	727.6
30°	760.5	757.5	759.1	732.2	691.9	690.3	700.8	705.3	700.8	699.3	724.8
32.5°	703.7	697.8	696.2	672.4	635.0	626.1	635.0	643.9	654.4	669.3	699.3
35°	632.0	647.0	655.9	635.0	590.1	563.2	552.8	536.4	527.5	527.5	561.8
37.5°	575.3	609.6	623.1	603.7	554.3	517.0	499.1	496.0	497.7	503.5	536.4
40°	555.8	581.3	593.2	573.7	524.5	490.0	479.6	476.6	479.6	488.6	521.5
42.5°	543.8	561.8	560.4	536.4	496.0	472.1	466.2	463.2	466.2	475.2	511.0
45°	533.5	545.5	533.5	505.0	467.7	455.7	457.1	455.7	458.8	467.7	502.1
47.5°	524.5	528.9	514.0	485.7	446.7	443.8	449.7	454.3	457.1	464.8	500.5
50°	511.0	511.0	497.7	467.7	428.9	430.3	437.8	448.3	449.7	458.8	487.2
52.5°	494.5	493.1	484.0	455.7	413.8	418.4	418.4	430.3	433.3	443.8	473.6
55°	481.1	478.2	473.6	446.7	400.5	407.9	403.3	407.9	415.3	425.8	458.8
57.5°	469.2	463.2	463.2	439.4	390.0	393.0	382.5	388.4	397.5	406.5	440.8
60°	457.1	451.3	454.3	428.9	373.5	370.6	366.1	378.0	381.1	391.5	425.8
62.5°	443.8	439.4	440.8	416.9	361.6	354.1	354.1	364.6	366.1	381.1	413.8
65°	433.3	427.4	425.8	405.0	348.2	339.2	343.6	348.2	351.1	366.1	397.5
67.5°	422.8	411.0	411.0	394.4	333.2	324.3	333.2	331.7	336.1	349.6	375.0
70°	409.4	393.0	394.4	387.0	318.3	307.8	315.2	313.8	316.7	325.7	351.1
72.5°	388.4	375.0	378.0	375.0	303.3	288.4	291.4	291.4	291.4	298.9	325.7
75°	361.6	351.1	360.1	367.5	285.4	264.6	267.4	267.4	262.9	267.4	300.4
77.5°	328.7	322.8	352.7	342.2	264.6	239.0	239.0	236.1	227.1	233.1	269.0
80°	292.8	288.4	325.7	286.9	240.6	207.7	204.8	197.3	188.3	192.7	228.6
82.5°	255.5	251.0	273.4	219.6	207.7	171.8	164.4	150.9	141.9	146.5	179.3
85°	209.1	209.1	210.7	165.8	158.5	131.5	122.4	104.7	94.1	97.1	128.5
87.5°	149.4	153.9	141.9	113.5	94.1	73.2	67.3	56.9	47.8	55.2	67.3
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-06-LED-E1-SLL-7027

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3	9183.3
2.5°	7893.8	8058.2	8245.0	8484.0	8688.6	9024.9	9347.7	9541.8
5°	5902.0	6175.5	6516.1	6953.9	7361.8	7974.4	8582.5	8972.6
7.5°	4224.1	4516.9	4884.4	5431.3	6008.1	6789.6	7593.5	8059.7
10°	3494.9	3795.2	4104.5	4473.6	4945.8	5796.0	6746.2	7272.1
12.5°	2891.3	3212.5	3545.7	3934.1	4372.1	5130.9	6226.2	6831.4
15°	2212.9	2571.5	2964.4	3456.0	4004.5	4881.5	6097.8	6755.3
17.5°	1516.6	1917.1	2399.6	3006.3	3677.2	4800.8	6327.9	7085.4
20°	1044.4	1335.8	1851.2	2562.5	3369.5	4790.3	6770.2	7719.0
22.5°	874.1	1004.0	1380.7	2154.7	3137.8	4918.8	7456.0	8608.0
25°	808.4	886.1	1102.7	1800.6	2969.0	5214.8	8400.3	9758.5
27.5°	769.5	839.7	1001.2	1568.9	2835.9	5558.4	9319.2	10873.2
30°	784.4	856.2	972.8	1450.9	2655.2	5845.2	10135.0	11742.9
32.5°	706.7	738.1	833.7	1346.3	2525.1	6085.7	10849.3	12462.9
35°	602.1	657.4	744.1	1297.0	2528.2	6247.3	11627.8	13383.4
37.5°	573.7	629.1	691.9	1279.0	2562.5	6419.0	12521.2	14462.3
40°	555.8	606.6	660.4	1268.5	2595.5	6576.0	13396.9	15529.1
42.5°	543.8	590.1	657.4	1232.7	2611.8	6716.4	14117.0	16436.0
45°	542.3	590.1	669.3	1196.8	2637.2	6867.3	14720.7	17107.0
47.5°	543.8	609.6	647.0	1153.6	2637.2	7119.7	15429.0	17706.1
50°	537.9	642.5	623.1	1092.2	2576.0	7598.0	16400.1	18508.5
52.5°	534.9	638.1	576.7	998.0	2469.9	8357.0	17644.8	19614.1
55°	527.5	615.6	543.8	857.6	2345.8	9184.7	18977.7	20921.5
57.5°	519.9	545.5	526.0	735.2	2154.7	9767.5	19895.0	21942.1
60°	582.7	476.6	511.0	675.3	1899.0	9927.3	19859.2	22348.6
62.5°	539.4	446.7	491.6	662.0	1719.8	9479.2	18941.8	22128.8
65°	422.8	427.4	472.1	700.8	1671.9	8291.3	17316.1	21114.3
67.5°	387.0	407.9	452.7	750.1	1676.4	6638.7	14886.5	18904.4
70°	364.6	387.0	430.3	775.4	1688.5	4948.8	11769.8	15397.6
72.5°	339.2	358.7	405.0	780.0	1610.8	3594.9	9071.2	11321.3
75°	309.2	327.3	369.1	679.8	1334.3	2493.8	6939.0	7745.8
77.5°	274.9	288.4	324.3	524.5	990.7	1595.7	5208.7	5658.5
80°	234.5	242.1	271.9	384.0	678.4	998.0	4121.0	4540.8
82.5°	188.3	191.2	210.7	288.4	440.8	641.0	2759.8	3149.7
85°	132.9	132.9	144.9	209.1	300.4	406.5	1498.6	1661.5
87.5°	62.7	64.3	64.3	115.1	156.8	206.3	345.2	212.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)