

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: P192085

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192085  
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-07-LED-E1-SLL-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 800mA 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: 29894 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

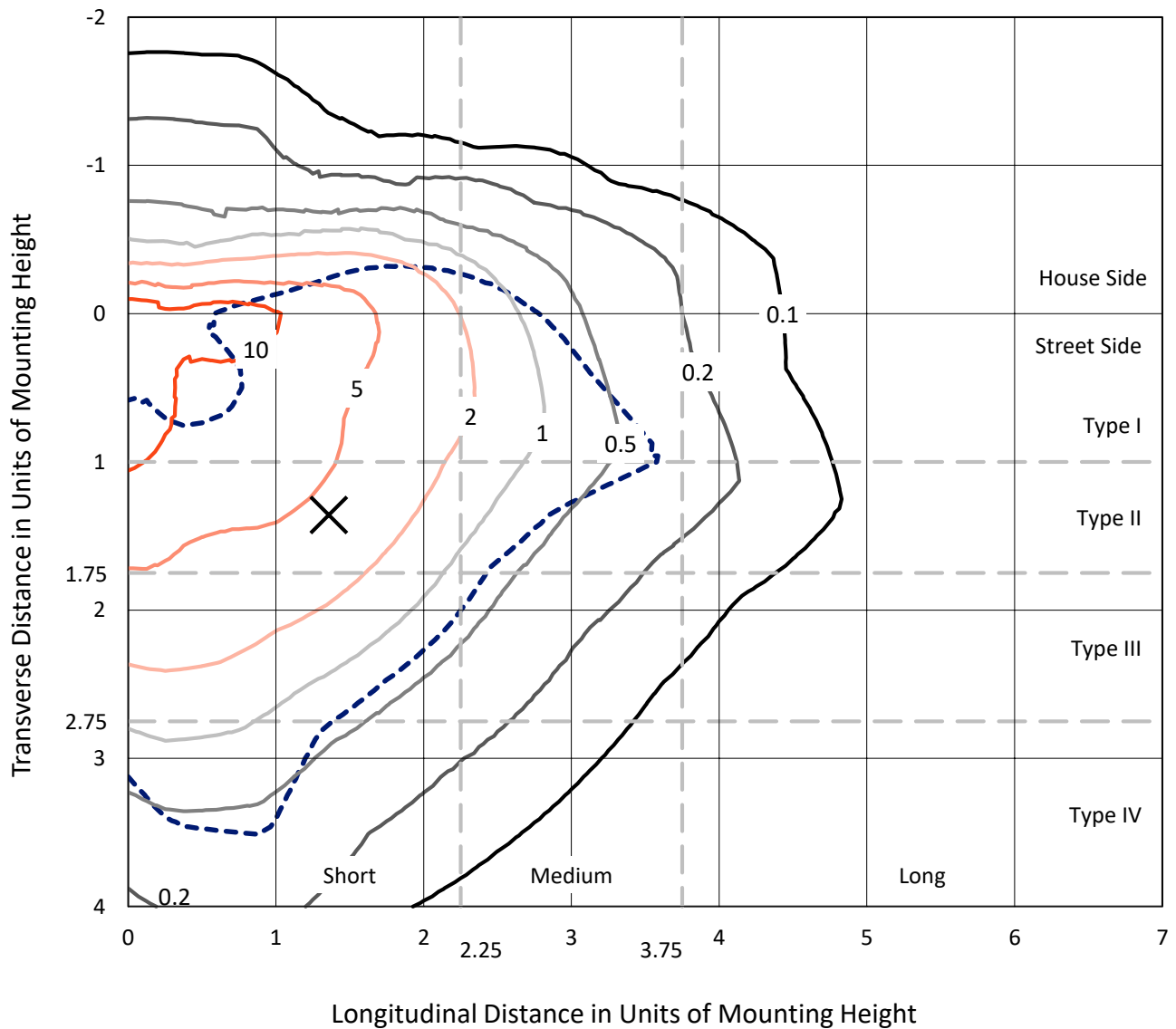
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

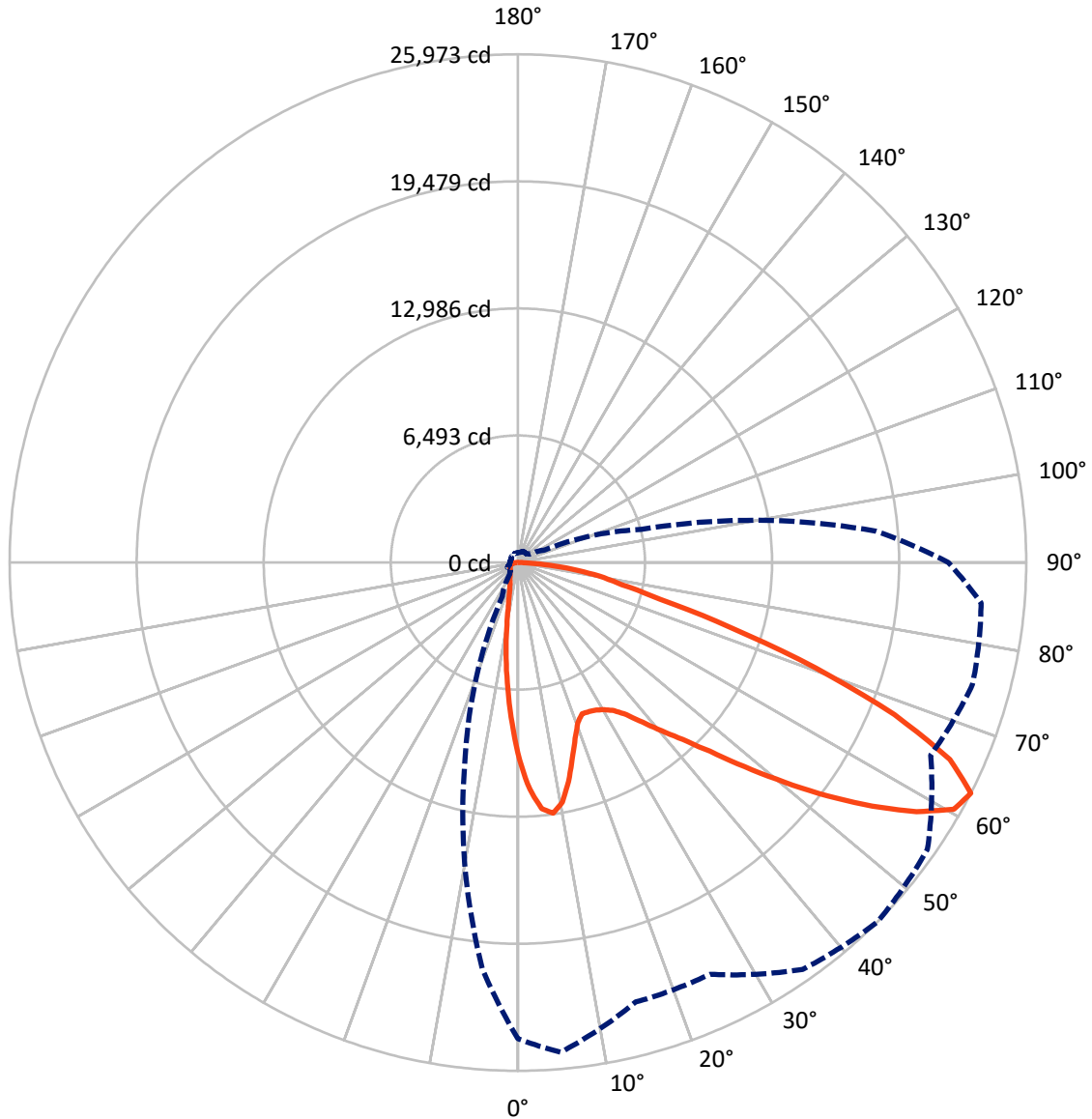
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 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	4947.0	0.0	4947.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	24947.0	0.0	24947.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	29894.0	0.0	29894.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	735.2	2.5
10°-20°	1348.2	4.5
20°-30°	1965.7	6.6
30°-40°	3027.4	10.1
40°-50°	4455.5	14.9
50°-60°	6535.3	21.9
60°-70°	7305.6	24.4
70°-80°	3576.7	12.0
80°-90°	944.3	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°	29894.0	100.0
0°-180°	29894.0	100.0



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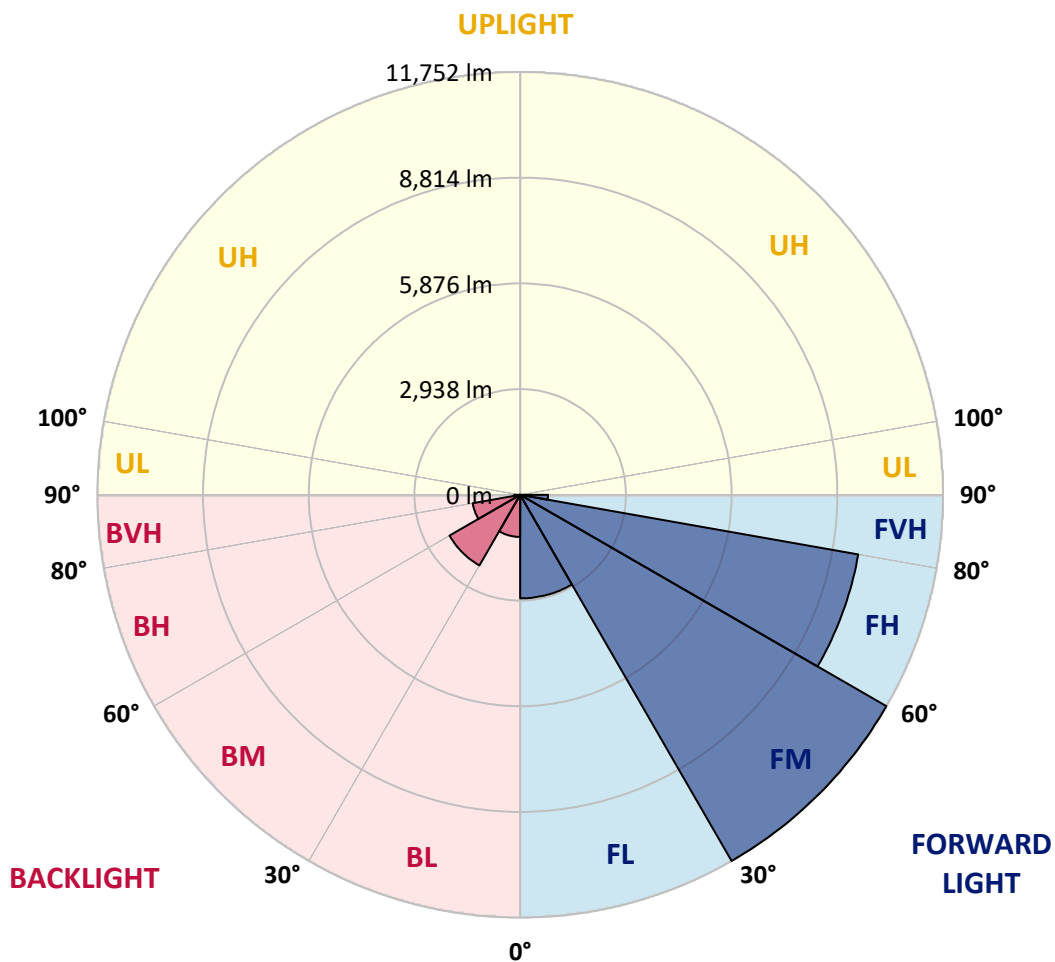
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2878.7	9.6			
FM	(30°-60°)	11751.6	39.3			
FH	(60°-80°)	9541.1	31.9			G4/12000
FVH	(80°-90°)	775.5	2.6			G5
BL	(0°-30°)	1170.4	3.9	B3/2500		
BM	(30°-60°)	2266.7	7.6	B2/2500		
BH	(60°-80°)	1341.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	168.8	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8
2.5°	10494.2	10661.8	10988.8	11233.7	11531.1	11600.1	11695.5	11601.8	11435.8	11215.6	11143.3
5°	9868.1	10226.3	11020.1	11718.5	12339.6	12628.9	12709.4	12471.1	11989.6	11356.9	10970.8
7.5°	8864.0	9373.5	10448.2	11476.9	12392.2	12932.9	12919.7	12365.9	11480.2	10449.8	9830.3
10°	7998.0	8579.7	9812.2	10962.5	11933.7	12458.0	12255.8	11547.6	10490.9	9304.4	8632.3
12.5°	7513.2	8083.5	9334.0	10489.3	11301.1	11481.8	11327.4	10633.9	9638.0	8438.4	7850.1
15°	7429.4	8055.5	9143.4	10083.4	10538.6	10380.8	10196.8	9886.2	9182.8	8159.1	7546.1
17.5°	7792.6	8482.8	9362.0	9800.7	9723.5	9449.1	9396.5	9431.0	9261.7	8469.6	7763.0
20°	8489.4	9317.6	9882.9	9667.6	9104.0	8726.0	8739.1	9266.6	9767.9	9256.8	8449.9
22.5°	9467.1	10412.0	10633.9	9738.3	8842.7	8394.0	8502.5	9357.0	10574.7	10407.1	9376.7
25°	10732.5	11593.6	11434.2	9994.6	8869.0	8435.1	8522.2	9669.3	11527.8	11557.4	10523.8
27.5°	11958.4	12757.0	12106.3	10334.8	8977.4	8532.1	8647.1	10160.6	12438.2	12806.3	11835.1
30°	12914.8	13470.2	12372.5	10645.4	9191.1	8721.1	8864.0	10627.3	12852.4	13649.4	12844.1
32.5°	13706.9	14106.2	12796.5	11029.9	9583.8	9018.5	9269.9	11194.3	13448.9	14451.3	13831.8
35°	14719.2	14832.5	13324.0	11458.8	10190.2	9536.1	9848.4	11749.7	14017.5	15261.5	14804.6
37.5°	15905.6	15759.4	13821.9	12045.5	10974.0	10346.3	10604.3	12359.4	14485.8	16180.1	15798.8
40°	17079.0	16727.3	14446.4	12955.9	12117.8	11301.1	11606.7	13010.1	14922.9	17100.3	16770.0
42.5°	18076.4	17555.5	15062.6	13956.7	13182.7	12354.4	12719.2	13665.8	15340.3	17885.8	17613.0
45°	18814.3	18166.8	15649.3	14918.0	14650.1	13754.5	13927.1	14416.8	15792.2	18541.5	18306.5
47.5°	19473.3	18781.4	16313.2	15887.6	15933.6	15575.3	15297.6	15291.0	16324.7	19077.2	18962.2
50°	20355.7	19634.3	17026.4	16886.7	17859.5	17621.2	17008.3	16311.5	16998.4	19685.2	19672.1
52.5°	21571.8	20985.1	17897.3	17963.1	19657.3	19813.4	19054.2	17537.4	18053.4	20801.1	20722.2
55°	23009.7	22667.9	19083.8	19200.5	21862.6	21974.4	21220.1	19070.7	19604.7	22416.4	22197.9
57.5°	24132.1	24059.7	20385.3	20686.0	23509.2	24012.1	23318.6	20845.4	21353.2	23777.1	23228.2
60°	24579.0	24929.1	21770.6	22184.7	25032.6	25589.7	24981.6	22404.9	22902.9	24340.8	23157.6
62.5°	24337.5	25119.7	23246.3	23211.8	25372.8	25972.6	25545.3	23272.6	24051.5	23759.0	21985.9
65°	23221.7	24434.4	24102.5	22947.2	24209.3	24258.6	24120.6	22884.8	24322.7	21920.2	19721.4
67.5°	20791.2	22536.4	22975.2	20679.5	21070.6	20750.1	20518.4	20761.6	22909.4	19164.3	16574.5
70°	16934.3	19560.4	19770.7	16539.9	16362.5	16147.2	15685.4	17021.4	20120.7	15706.8	13151.4
72.5°	12451.4	15212.2	15858.0	12130.9	11309.3	11353.7	10988.8	12827.7	16359.2	11667.5	9818.8
75°	8518.9	11015.1	12407.0	8464.7	7478.7	7496.8	7450.8	9089.2	13029.8	8116.3	7347.3
77.5°	6223.2	7869.8	9357.0	5690.8	5524.8	5422.9	5398.3	6359.6	9989.7	5892.9	5705.6
80°	4994.0	5814.0	6285.7	3944.0	4241.4	4233.2	4096.8	4372.9	6524.0	4310.4	4267.7
82.5°	3464.1	4468.2	5092.6	3091.1	2862.7	2815.0	2847.9	3257.0	4611.1	2946.5	2801.8
85°	1827.4	2967.8	5043.3	2739.4	1699.2	1355.7	1686.0	2667.1	3994.9	1561.1	1367.2
87.5°	233.4	857.8	3339.2	1092.8	670.5	361.5	800.3	1502.0	2565.2	318.8	277.7
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°	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8
2.5°	10957.6	10739.1	10453.1	10188.5	9914.1	9641.3	9284.7	9061.2	8906.8	8877.2	8811.4
5°	10691.4	9965.1	9416.2	8941.3	8510.7	7902.7	7565.8	7286.5	7136.9	7122.1	7086.0
7.5°	9463.8	8461.4	7720.3	7048.2	6438.5	5947.2	5404.9	5151.8	5048.3	5072.9	5097.6
10°	8187.0	7066.2	6215.0	5528.1	4990.7	4576.6	4141.1	3847.0	3643.2	3602.1	3593.9
12.5°	7253.6	6024.4	5197.8	4713.0	4297.3	3907.8	3446.0	3099.3	2834.7	2744.3	2683.5
15°	6859.2	5515.0	4648.9	4126.4	3667.9	3173.2	2744.3	2381.2	2138.0	2059.1	2014.7
17.5°	6943.0	5373.6	4271.0	3602.1	3015.5	2499.5	1958.8	1648.2	1502.0	1464.2	1464.2
20°	7383.4	5347.3	3958.7	3119.0	2387.7	1789.6	1345.9	1168.4	1120.7	1115.8	1129.0
22.5°	8001.3	5439.4	3725.4	2700.0	1855.3	1306.4	1048.4	982.7	961.3	966.3	981.1
25°	8921.5	5750.0	3556.1	2326.9	1456.0	1069.8	935.0	895.6	885.7	898.9	917.0
27.5°	10012.7	6060.5	3451.0	2045.9	1229.2	977.8	889.0	847.9	854.5	871.0	887.4
30°	10970.8	6315.3	3285.0	1845.4	1158.5	982.7	889.0	833.2	826.6	829.9	834.8
32.5°	11830.2	6487.8	3091.1	1654.8	999.1	872.6	829.9	821.7	785.5	772.4	774.0
35°	12571.3	6487.8	2974.4	1543.1	895.6	774.0	705.0	663.9	645.8	647.5	665.5
37.5°	13286.2	6358.0	2916.9	1480.6	839.7	736.2	675.4	639.2	614.6	609.7	613.0
40°	13917.2	6169.0	2851.1	1454.3	797.0	713.2	655.7	626.1	599.8	591.6	593.2
42.5°	14423.4	6016.2	2778.8	1419.8	770.7	696.8	642.5	616.2	586.7	578.4	576.8
45°	14970.6	5965.2	2683.5	1350.8	783.9	698.4	639.2	611.3	581.7	571.9	568.6
47.5°	15692.0	6124.6	2584.9	1268.6	811.8	706.6	644.2	611.3	580.1	571.9	568.6
50°	16600.8	6499.3	2460.0	1148.7	783.9	729.6	642.5	606.4	580.1	571.9	565.3
52.5°	17767.5	7005.4	2295.7	1010.6	767.4	785.5	639.2	596.5	571.9	560.4	548.9
55°	19185.7	7419.6	2100.2	897.2	729.6	770.7	634.3	585.0	558.7	542.3	532.4
57.5°	20224.3	7569.1	1848.7	823.3	677.0	746.1	627.7	570.2	542.3	529.1	516.0
60°	20018.8	7279.9	1636.7	777.3	645.8	673.8	622.8	557.1	527.5	517.6	506.1
62.5°	18373.9	6524.0	1500.3	755.9	626.1	614.6	627.7	543.9	514.4	504.5	501.2
65°	15907.3	5408.1	1446.1	751.0	609.7	580.1	583.4	529.1	499.6	491.4	488.1
67.5°	13121.9	4364.6	1398.5	767.4	588.3	555.4	539.0	509.4	484.8	476.6	470.0
70°	10347.9	3630.1	1377.1	757.6	562.0	530.8	512.7	488.1	466.7	458.5	453.6
72.5°	8333.2	3066.4	1365.6	747.7	527.5	497.9	481.5	460.1	437.1	433.8	428.9
75°	7051.5	2410.7	1250.6	716.5	488.1	458.5	447.0	427.3	404.3	404.3	401.0
77.5°	5439.4	1743.6	1040.2	634.3	447.0	414.1	404.3	389.5	363.2	368.1	366.5
80°	4017.9	1137.2	813.4	525.9	396.0	364.8	359.9	345.1	317.2	323.7	323.7
82.5°	2752.5	746.1	585.0	430.5	338.5	308.9	308.9	294.2	262.9	266.2	276.1
85°	1382.0	512.7	437.1	333.6	262.9	248.1	248.1	236.6	205.4	207.1	220.2
87.5°	420.7	308.9	289.2	238.3	189.0	185.7	177.5	169.3	149.5	147.9	156.1
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°	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8
2.5°	8711.2	8617.5	8504.1	8254.4	8170.6	8165.6	8241.2	8162.3	8313.5	8249.4	8320.1
5°	7025.2	6933.1	6806.6	6487.8	6293.9	6162.4	6100.0	5915.9	6049.0	5952.1	6032.6
7.5°	5166.6	5187.9	5104.1	4916.8	4494.5	4282.5	4157.6	4045.8	4142.8	4132.9	4287.4
10°	3631.7	3689.2	3630.1	3441.1	3099.3	2982.6	3005.6	3050.0	3176.5	3242.3	3480.5
12.5°	2614.5	2611.2	2573.4	2404.2	2179.0	2192.2	2285.8	2363.1	2479.8	2548.8	2792.0
15°	1952.3	1922.7	1906.2	1768.2	1640.0	1668.0	1714.0	1722.2	1796.1	1837.2	2034.4
17.5°	1475.7	1490.5	1508.6	1410.0	1313.0	1294.9	1258.8	1214.4	1235.8	1244.0	1342.6
20°	1171.7	1230.8	1275.2	1206.2	1107.6	1055.0	1009.0	979.4	979.4	977.8	1005.7
22.5°	1023.8	1066.5	1114.2	1066.5	977.8	931.8	905.5	882.5	879.2	879.2	905.5
25°	943.3	974.5	1020.5	987.6	921.9	887.4	862.7	833.2	821.7	818.4	836.4
27.5°	903.8	917.0	940.0	910.4	854.5	838.1	831.5	805.2	790.4	782.2	800.3
30°	836.4	833.2	834.8	805.2	760.9	759.2	770.7	775.6	770.7	769.1	797.0
32.5°	774.0	767.4	765.8	739.5	698.4	688.5	698.4	708.3	719.8	736.2	769.1
35°	695.1	711.6	721.4	698.4	649.1	619.5	608.0	589.9	580.1	580.1	617.9
37.5°	632.7	670.5	685.3	663.9	609.7	568.6	548.9	545.6	547.2	553.8	589.9
40°	611.3	639.2	652.4	631.0	576.8	539.0	527.5	524.2	527.5	537.4	573.5
42.5°	598.2	617.9	616.2	589.9	545.6	519.3	512.7	509.4	512.7	522.6	562.0
45°	586.7	599.8	586.7	555.4	514.4	501.2	502.9	501.2	504.5	514.4	552.2
47.5°	576.8	581.7	565.3	534.1	491.4	488.1	494.6	499.6	502.9	511.1	550.5
50°	562.0	562.0	547.2	514.4	471.6	473.3	481.5	493.0	494.6	504.5	535.7
52.5°	543.9	542.3	532.4	501.2	455.2	460.1	460.1	473.3	476.6	488.1	520.9
55°	529.1	525.9	520.9	491.4	440.4	448.6	443.7	448.6	456.8	468.3	504.5
57.5°	516.0	509.4	509.4	483.1	428.9	432.2	420.7	427.3	437.1	447.0	484.8
60°	502.9	496.3	499.6	471.6	410.8	407.5	402.6	415.8	419.0	430.5	468.3
62.5°	488.1	483.1	484.8	458.5	397.7	389.5	389.5	401.0	402.6	419.0	455.2
65°	476.6	470.0	468.3	445.3	382.9	373.0	378.0	382.9	386.2	402.6	437.1
67.5°	465.1	451.9	451.9	433.8	366.5	356.6	366.5	364.8	369.7	384.5	412.5
70°	450.3	432.2	433.8	425.6	350.0	338.5	346.7	345.1	348.4	358.2	386.2
72.5°	427.3	412.5	415.8	412.5	333.6	317.2	320.4	320.4	320.4	328.7	358.2
75°	397.7	386.2	396.0	404.3	313.9	290.9	294.2	294.2	289.2	294.2	330.3
77.5°	361.5	355.0	387.8	376.3	290.9	262.9	262.9	259.6	249.8	256.4	295.8
80°	322.1	317.2	358.2	315.5	264.6	228.4	225.1	216.9	207.1	212.0	251.4
82.5°	281.0	276.1	300.7	241.6	228.4	189.0	180.8	166.0	156.1	161.0	197.2
85°	230.1	230.1	231.7	182.4	174.2	144.6	134.8	115.0	103.5	106.8	141.3
87.5°	164.3	169.3	156.1	124.9	103.5	80.5	73.9	62.4	52.6	60.8	73.9
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: P192085

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-7050-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8
2.5°	8681.6	8862.4	9067.8	9330.7	9555.9	9925.6	10280.6	10494.2
5°	6491.1	6791.8	7166.5	7648.0	8096.6	8770.4	9439.2	9868.1
7.5°	4645.6	4967.7	5372.0	5973.4	6607.8	7467.2	8351.3	8864.0
10°	3843.7	4174.0	4514.2	4920.1	5439.4	6374.4	7419.6	7998.0
12.5°	3179.8	3533.1	3899.6	4326.8	4808.3	5643.1	6847.7	7513.2
15°	2433.7	2828.1	3260.3	3801.0	4404.1	5368.7	6706.4	7429.4
17.5°	1668.0	2108.4	2639.2	3306.3	4044.2	5280.0	6959.4	7792.6
20°	1148.7	1469.1	2036.1	2818.3	3705.7	5268.5	7445.9	8489.4
22.5°	961.3	1104.3	1518.4	2369.7	3451.0	5409.8	8200.1	9467.1
25°	889.0	974.5	1212.8	1980.2	3265.3	5735.2	9238.7	10732.5
27.5°	846.3	923.5	1101.0	1725.5	3119.0	6113.1	10249.3	11958.4
30°	862.7	941.6	1069.8	1595.7	2920.2	6428.6	11146.6	12914.8
32.5°	777.3	811.8	917.0	1480.6	2777.2	6693.2	11932.1	13706.9
35°	662.3	723.1	818.4	1426.4	2780.5	6870.7	12788.3	14719.2
37.5°	631.0	691.8	760.9	1406.7	2818.3	7059.7	13771.0	15905.6
40°	611.3	667.2	726.3	1395.2	2854.4	7232.2	14733.9	17079.0
42.5°	598.2	649.1	723.1	1355.7	2872.5	7386.7	15526.0	18076.4
45°	596.5	649.1	736.2	1316.3	2900.4	7552.7	16189.9	18814.3
47.5°	598.2	670.5	711.6	1268.6	2900.4	7830.4	16968.9	19473.3
50°	591.6	706.6	685.3	1201.3	2833.1	8356.2	18037.0	20355.7
52.5°	588.3	701.7	634.3	1097.7	2716.4	9191.1	19405.9	21571.8
55°	580.1	677.0	598.2	943.3	2580.0	10101.4	20871.7	23009.7
57.5°	571.9	599.8	578.4	808.5	2369.7	10742.3	21880.7	24132.1
60°	640.9	524.2	562.0	742.8	2088.7	10918.2	21841.3	24579.0
62.5°	593.2	491.4	540.7	728.0	1891.5	10425.2	20832.3	24337.5
65°	465.1	470.0	519.3	770.7	1838.9	9118.7	19044.4	23221.7
67.5°	425.6	448.6	497.9	824.9	1843.8	7301.2	16372.3	20791.2
70°	401.0	425.6	473.3	852.9	1856.9	5442.7	12944.4	16934.3
72.5°	373.0	394.4	445.3	857.8	1771.5	3953.8	9976.6	12451.4
75°	340.2	359.9	405.9	747.7	1467.5	2742.7	7631.5	8518.9
77.5°	302.4	317.2	356.6	576.8	1089.5	1755.1	5728.6	6223.2
80°	258.0	266.2	299.1	422.3	746.1	1097.7	4532.3	4994.0
82.5°	207.1	210.3	231.7	317.2	484.8	705.0	3035.2	3464.1
85°	146.3	146.3	159.4	230.1	330.3	447.0	1648.2	1827.4
87.5°	69.0	70.7	70.7	126.5	172.5	226.8	379.6	233.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)