

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: P192088

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192088  
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-10-LED-E1-SLL-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 41832 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 419  
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

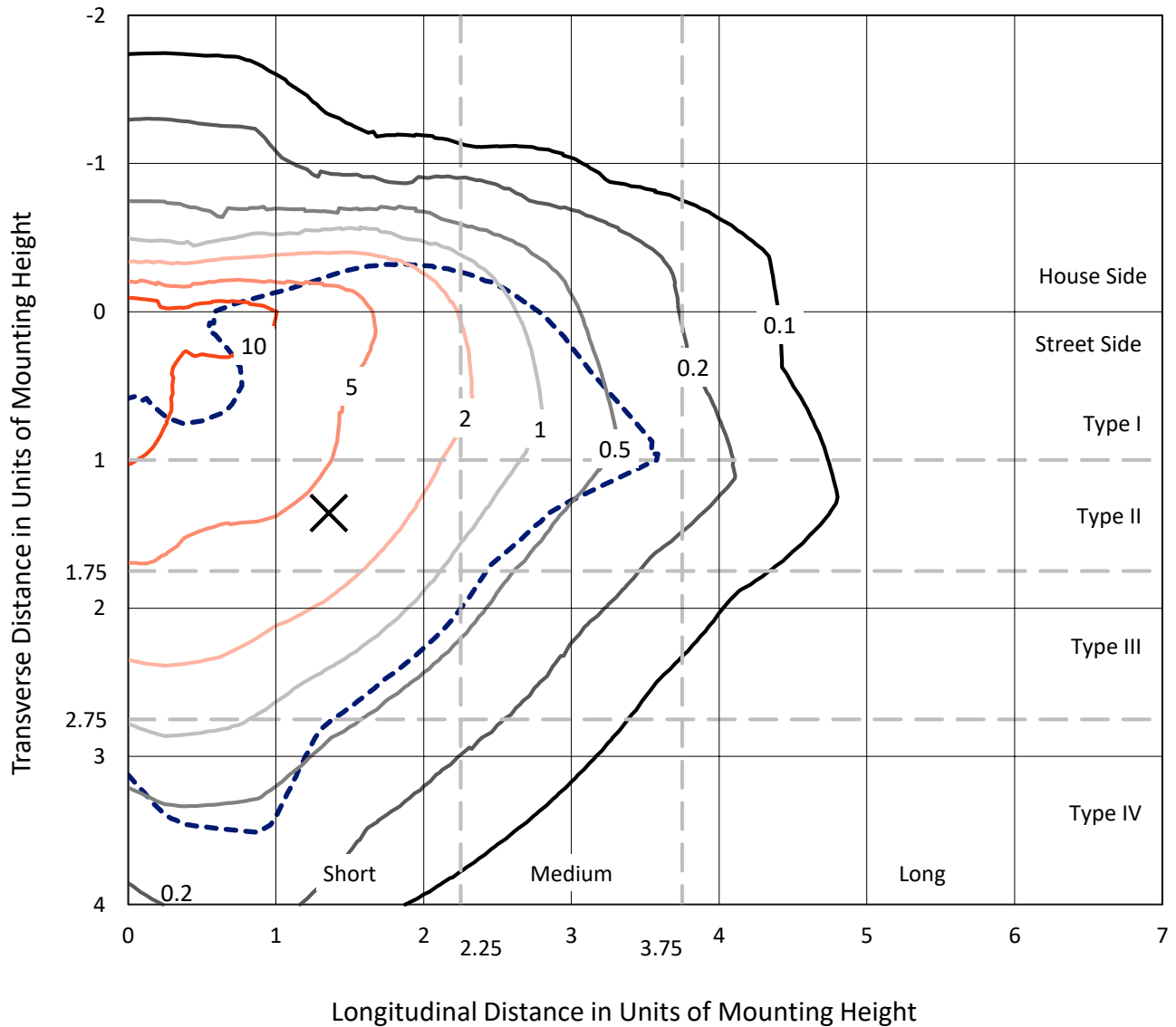


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### Iso-Footcandle Lines of Horizontal Illumination

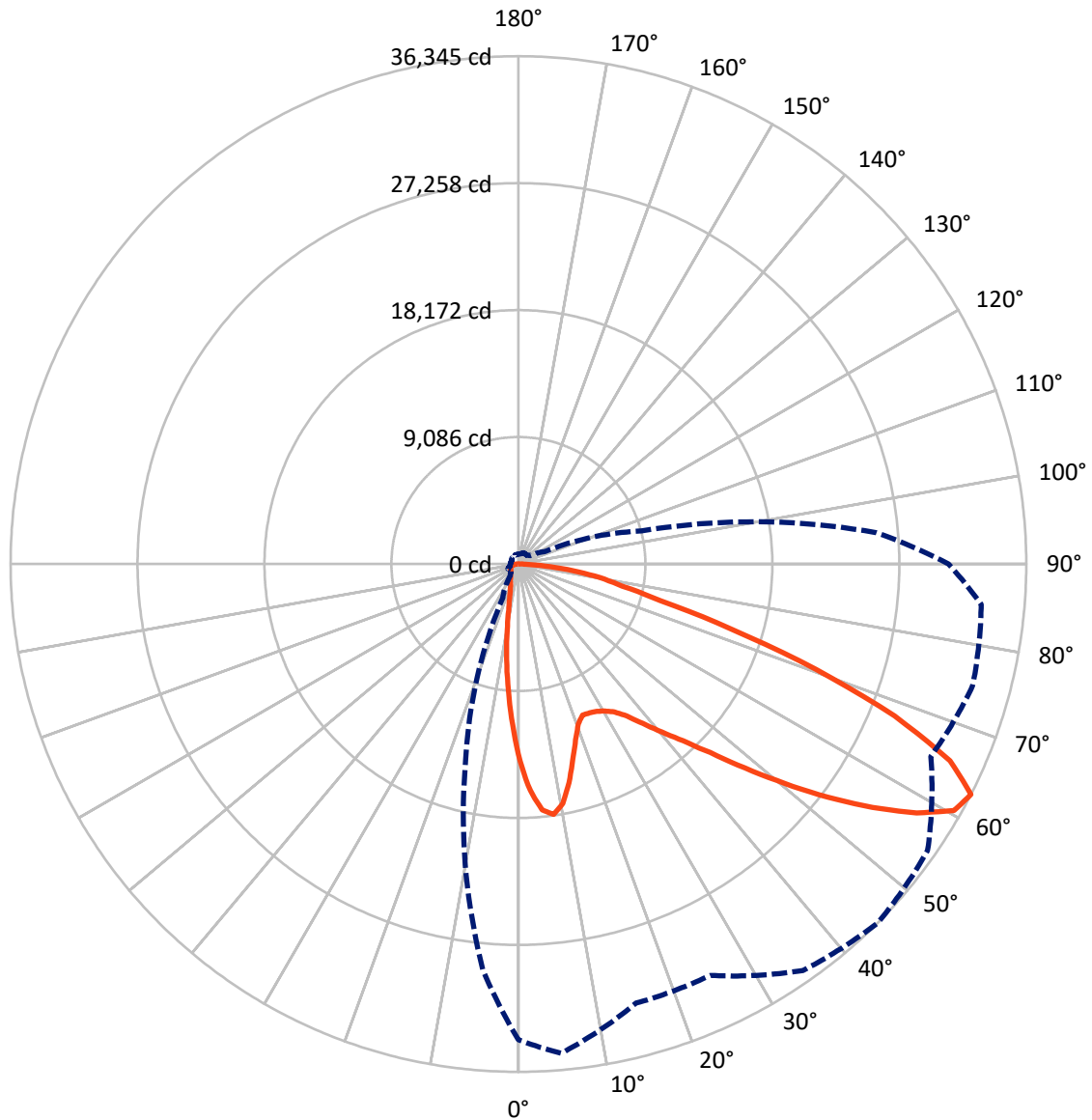
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.5 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	6922.6	0.0	6922.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	34909.4	0.0	34909.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	41832.0	0.0	41832.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1028.8	2.5
10°-20°	1886.6	4.5
20°-30°	2750.6	6.6
30°-40°	4236.4	10.1
40°-50°	6234.8	14.9
50°-60°	9145.2	21.9
60°-70°	10223.0	24.4
70°-80°	5005.0	12.0
80°-90°	1321.5	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°	41832.0	100.0
0°-180°	41832.0	100.0

**Coefficient of Utilization**



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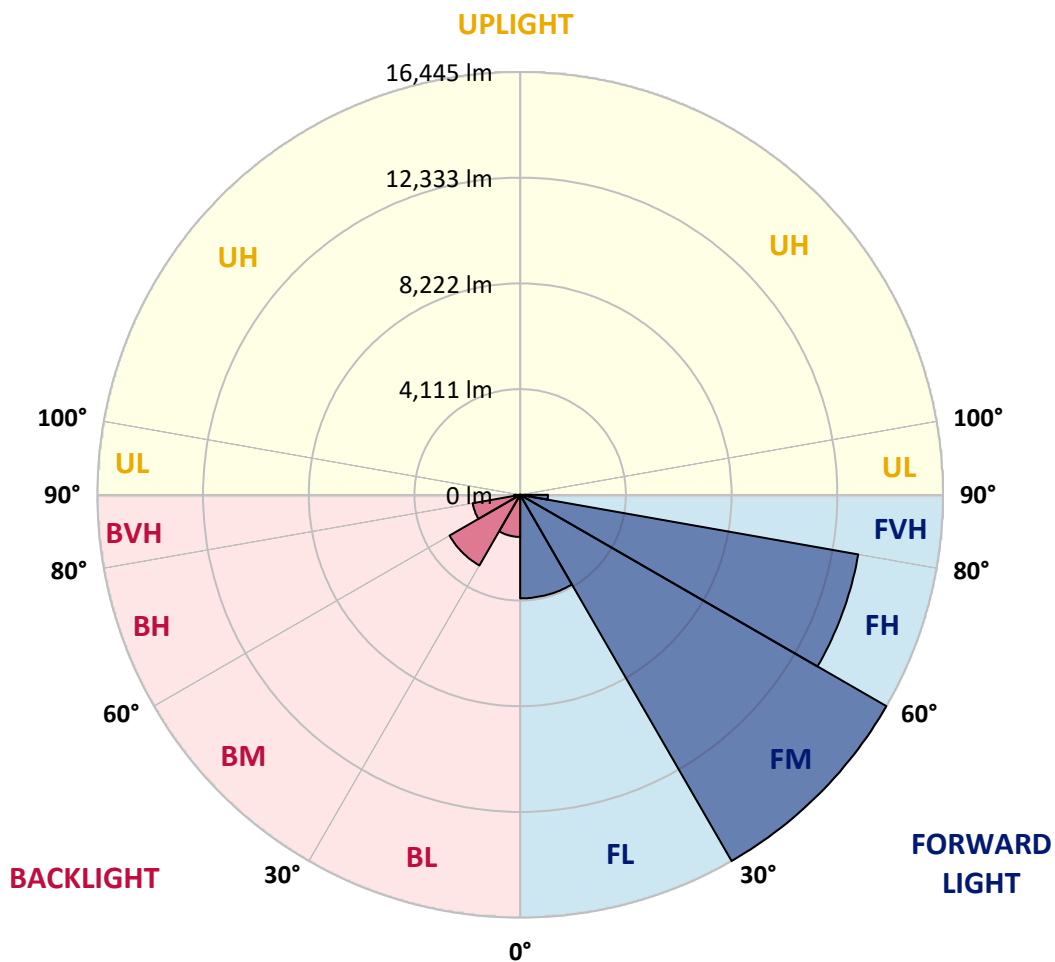
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4028.3	9.6			
FM	(30°-60°)	16444.5	39.3			
FH	(60°-80°)	13351.3	31.9			G5
FVH	(80°-90°)	1085.2	2.6			G5
BL	(0°-30°)	1637.8	3.9	B3/2500		
BM	(30°-60°)	3171.9	7.6	B3/5000		
BH	(60°-80°)	1876.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	236.2	0.6			G3/500
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°	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1
2.5°	14685.0	14919.6	15377.2	15719.8	16136.0	16232.6	16366.0	16234.9	16002.6	15694.5	15593.3
5°	13808.9	14310.2	15420.9	16398.2	17267.4	17672.1	17784.8	17451.4	16777.6	15892.3	15351.9
7.5°	12403.8	13116.7	14620.6	16060.1	17341.0	18097.5	18079.1	17304.2	16064.7	14622.9	13756.0
10°	11192.0	12006.0	13730.7	15340.4	16699.4	17433.0	17150.1	16159.0	14680.4	13020.1	12079.6
12.5°	10513.6	11311.5	13061.5	14678.1	15814.1	16067.0	15850.9	14880.5	13486.9	11808.2	10985.0
15°	10396.3	11272.4	12794.8	14110.1	14747.1	14526.3	14268.8	13834.2	12849.9	11417.3	10559.6
17.5°	10904.5	11870.3	13100.6	13714.6	13606.5	13222.5	13148.9	13197.2	12960.3	11851.9	10863.1
20°	11879.5	13038.5	13829.6	13528.3	12739.6	12210.7	12229.1	12967.2	13668.6	12953.4	11824.3
22.5°	13247.8	14570.0	14880.5	13627.2	12373.9	11746.2	11897.9	13093.7	14797.7	14563.1	13121.3
25°	15018.4	16223.4	16000.3	13985.9	12410.7	11803.6	11925.5	13530.6	16131.4	16172.8	14726.4
27.5°	16733.9	17851.5	16940.9	14461.9	12562.5	11939.3	12100.3	14218.2	17405.4	17920.5	16561.4
30°	18072.3	18849.5	17313.4	14896.6	12861.4	12203.8	12403.8	14871.3	17984.9	19100.2	17973.4
32.5°	19180.6	19739.4	17906.7	15434.7	13411.0	12620.0	12971.8	15664.6	18819.6	20222.3	19355.4
35°	20597.2	20755.8	18644.8	16034.8	14259.6	13344.4	13781.3	16441.9	19615.3	21356.0	20716.7
37.5°	22257.5	22052.8	19341.6	16855.8	15356.5	14478.0	14839.1	17295.0	20270.6	22641.5	22108.0
40°	23899.3	23407.2	20215.4	18129.7	16957.0	15814.1	16241.8	18205.6	20882.3	23929.2	23467.0
42.5°	25295.2	24566.2	21077.8	19530.2	18447.1	17288.1	17798.6	19123.2	21466.4	25028.4	24646.7
45°	26327.7	25421.6	21898.7	20875.4	20500.6	19247.3	19488.8	20174.1	22098.8	25945.9	25617.1
47.5°	27249.8	26281.7	22827.7	22232.2	22296.5	21795.2	21406.6	21397.4	22843.8	26695.6	26534.6
50°	28484.7	27475.2	23825.8	23630.3	24991.6	24658.2	23800.5	22825.4	23786.7	27546.4	27528.0
52.5°	30186.3	29365.4	25044.5	25136.5	27507.4	27725.8	26663.4	24540.9	25263.0	29107.8	28997.5
55°	32198.5	31720.1	26704.8	26868.1	30593.4	30749.7	29694.2	26686.4	27433.8	31368.3	31062.5
57.5°	33769.1	33667.9	28526.1	28946.9	32897.5	33601.2	32630.8	29169.9	29880.5	33272.4	32504.3
60°	34394.5	34884.3	30464.6	31044.1	35029.2	35808.8	34957.9	31352.2	32049.0	34061.1	32405.4
62.5°	34056.5	35151.1	32529.6	32481.3	35505.2	36344.6	35746.7	32566.4	33656.4	33247.1	30765.8
65°	32495.1	34192.2	33727.7	32111.1	33877.1	33946.1	33753.0	32023.7	34035.8	30673.8	27597.0
67.5°	29094.0	31536.2	32150.2	28937.7	29485.0	29036.6	28712.3	29052.7	32058.2	26817.5	23193.4
70°	23697.0	27371.7	27666.0	23145.1	22896.7	22595.5	21949.3	23818.9	28155.8	21979.2	18403.4
72.5°	17423.8	21287.0	22190.8	16975.4	15825.6	15887.7	15377.2	17950.4	22892.1	16326.9	13739.9
75°	11920.9	15414.0	17361.7	11845.0	10465.3	10490.6	10426.2	12718.9	18233.2	11357.5	10281.3
77.5°	8708.4	11012.6	13093.7	7963.4	7731.1	7588.6	7554.1	8899.3	13979.0	8246.2	7984.1
80°	6988.4	8135.8	8795.8	5518.9	5935.2	5923.7	5732.8	6119.1	9129.3	6031.7	5972.0
82.5°	4847.5	6252.5	7126.3	4325.5	4005.8	3939.1	3985.1	4557.7	6452.6	4123.1	3920.8
85°	2557.1	4153.0	7057.4	3833.4	2377.7	1897.1	2359.3	3732.2	5590.2	2184.6	1913.2
87.5°	326.5	1200.4	4672.7	1529.2	938.2	505.9	1119.9	2101.8	3589.6	446.1	388.6
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°	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1
2.5°	15333.5	15027.6	14627.5	14257.3	13873.3	13491.5	12992.5	12679.8	12463.6	12422.2	12330.2
5°	14960.9	13944.5	13176.5	12511.9	11909.4	11058.6	10587.2	10196.3	9987.0	9966.3	9915.7
7.5°	13243.2	11840.4	10803.3	9862.8	9009.7	8322.1	7563.3	7209.1	7064.3	7098.7	7133.2
10°	11456.4	9888.1	8696.9	7735.7	6983.8	6404.3	5794.9	5383.3	5098.1	5040.6	5029.1
12.5°	10150.3	8430.2	7273.5	6595.1	6013.4	5468.4	4822.2	4337.0	3966.7	3840.3	3755.2
15°	9598.4	7717.3	6505.5	5774.2	5132.6	4440.5	3840.3	3332.1	2991.7	2881.4	2819.3
17.5°	9715.6	7519.6	5976.6	5040.6	4219.7	3497.6	2741.1	2306.5	2101.8	2048.9	2048.9
20°	10331.9	7482.8	5539.6	4364.6	3341.3	2504.2	1883.3	1635.0	1568.3	1561.4	1579.8
22.5°	11196.6	7611.5	5213.1	3778.2	2596.2	1828.2	1467.1	1375.1	1345.2	1352.1	1372.8
25°	12484.3	8046.2	4976.3	3256.2	2037.4	1497.0	1308.5	1253.3	1239.5	1257.9	1283.2
27.5°	14011.2	8480.8	4829.1	2863.0	1720.1	1368.2	1244.1	1186.6	1195.8	1218.8	1241.8
30°	15351.9	8837.2	4596.8	2582.4	1621.2	1375.1	1244.1	1165.9	1156.7	1161.3	1168.2
32.5°	16554.5	9078.7	4325.5	2315.7	1398.1	1221.1	1161.3	1149.8	1099.2	1080.8	1083.1
35°	17591.6	9078.7	4162.2	2159.3	1253.3	1083.1	986.5	929.0	903.7	906.0	931.3
37.5°	18592.0	8897.0	4081.7	2071.9	1175.1	1030.2	945.1	894.5	860.0	853.1	857.7
40°	19475.0	8632.6	3989.7	2035.1	1115.3	998.0	917.5	876.1	839.3	827.8	830.1
42.5°	20183.2	8418.7	3888.6	1986.8	1078.5	975.0	899.1	862.3	820.9	809.4	807.1
45°	20949.0	8347.4	3755.2	1890.2	1096.9	977.3	894.5	855.4	814.0	800.2	795.6
47.5°	21958.5	8570.5	3617.2	1775.3	1136.0	988.8	901.4	855.4	811.7	800.2	795.6
50°	23230.2	9094.8	3442.4	1607.4	1096.9	1021.0	899.1	848.5	811.7	800.2	791.0
52.5°	24862.9	9803.0	3212.5	1414.2	1073.9	1099.2	894.5	834.7	800.2	784.2	768.1
55°	26847.4	10382.5	2938.8	1255.6	1021.0	1078.5	887.6	818.6	781.9	758.9	745.1
57.5°	28300.7	10591.8	2587.0	1152.1	947.4	1044.0	878.4	797.9	758.9	740.5	722.1
60°	28013.3	10187.1	2290.4	1087.7	903.7	942.8	871.5	779.6	738.2	724.4	708.3
62.5°	25711.4	9129.3	2099.5	1057.8	876.1	860.0	878.4	761.2	719.8	706.0	701.4
65°	22259.8	7567.9	2023.6	1050.9	853.1	811.7	816.3	740.5	699.1	687.6	683.0
67.5°	18362.0	6107.6	1956.9	1073.9	823.2	777.3	754.3	712.9	678.4	666.9	657.7
70°	14480.3	5079.7	1927.0	1060.1	786.4	742.8	717.5	683.0	653.1	641.6	634.7
72.5°	11661.1	4291.0	1910.9	1046.3	738.2	696.8	673.8	643.9	611.7	607.1	600.2
75°	9867.4	3373.5	1750.0	1002.6	683.0	641.6	625.5	597.9	565.7	565.7	561.1
77.5°	7611.5	2439.8	1455.6	887.6	625.5	579.5	565.7	545.0	508.2	515.1	512.8
80°	5622.4	1591.3	1138.3	735.9	554.2	510.5	503.6	482.9	443.8	453.0	453.0
82.5°	3851.8	1044.0	818.6	602.5	473.7	432.3	432.3	411.6	367.9	372.5	386.3
85°	1933.9	717.5	611.7	466.8	367.9	347.2	347.2	331.1	287.4	289.7	308.1
87.5°	588.7	432.3	404.7	333.4	264.4	259.9	248.4	236.9	209.3	207.0	218.5
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°	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1
2.5°	12190.0	12058.9	11900.2	11550.7	11433.4	11426.5	11532.3	11421.9	11633.5	11543.8	11642.7
5°	9830.6	9701.8	9524.8	9078.7	8807.3	8623.4	8536.0	8278.4	8464.7	8329.0	8441.7
7.5°	7229.8	7259.7	7142.4	6880.3	6289.3	5992.7	5817.9	5661.5	5797.2	5783.4	5999.6
10°	5082.0	5162.5	5079.7	4815.3	4337.0	4173.7	4205.9	4268.0	4445.1	4537.0	4870.5
12.5°	3658.6	3654.0	3601.1	3364.3	3049.2	3067.6	3198.7	3306.8	3470.0	3566.6	3907.0
15°	2731.9	2690.5	2667.5	2474.3	2295.0	2334.1	2398.4	2409.9	2513.4	2570.9	2846.9
17.5°	2065.0	2085.7	2111.0	1973.0	1837.3	1812.1	1761.5	1699.4	1729.3	1740.8	1878.7
20°	1639.6	1722.4	1784.5	1687.9	1549.9	1476.3	1411.9	1370.5	1370.5	1368.2	1407.3
22.5°	1432.6	1492.4	1559.1	1492.4	1368.2	1303.9	1267.1	1234.9	1230.3	1230.3	1267.1
25°	1319.9	1363.6	1428.0	1382.0	1290.1	1241.8	1207.3	1165.9	1149.8	1145.2	1170.5
27.5°	1264.8	1283.2	1315.3	1274.0	1195.8	1172.8	1163.6	1126.8	1106.1	1094.6	1119.9
30°	1170.5	1165.9	1168.2	1126.8	1064.7	1062.4	1078.5	1085.4	1078.5	1076.2	1115.3
32.5°	1083.1	1073.9	1071.6	1034.8	977.3	963.5	977.3	991.1	1007.2	1030.2	1076.2
35°	972.7	995.7	1009.5	977.3	908.3	866.9	850.8	825.5	811.7	811.7	864.6
37.5°	885.3	938.2	958.9	929.0	853.1	795.6	768.1	763.5	765.8	775.0	825.5
40°	855.4	894.5	912.9	883.0	807.1	754.3	738.2	733.6	738.2	752.0	802.5
42.5°	837.0	864.6	862.3	825.5	763.5	726.7	717.5	712.9	717.5	731.3	786.4
45°	820.9	839.3	820.9	777.3	719.8	701.4	703.7	701.4	706.0	719.8	772.7
47.5°	807.1	814.0	791.0	747.4	687.6	683.0	692.2	699.1	703.7	715.2	770.4
50°	786.4	786.4	765.8	719.8	660.0	662.3	673.8	689.9	692.2	706.0	749.7
52.5°	761.2	758.9	745.1	701.4	637.0	643.9	643.9	662.3	666.9	683.0	729.0
55°	740.5	735.9	729.0	687.6	616.3	627.8	620.9	627.8	639.3	655.4	706.0
57.5°	722.1	712.9	712.9	676.1	600.2	604.8	588.7	597.9	611.7	625.5	678.4
60°	703.7	694.5	699.1	660.0	574.9	570.3	563.4	581.8	586.4	602.5	655.4
62.5°	683.0	676.1	678.4	641.6	556.5	545.0	545.0	561.1	563.4	586.4	637.0
65°	666.9	657.7	655.4	623.2	535.8	522.0	528.9	535.8	540.4	563.4	611.7
67.5°	650.8	632.4	632.4	607.1	512.8	499.0	512.8	510.5	517.4	538.1	577.2
70°	630.1	604.8	607.1	595.6	489.8	473.7	485.2	482.9	487.5	501.3	540.4
72.5°	597.9	577.2	581.8	577.2	466.8	443.8	448.4	448.4	448.4	459.9	501.3
75°	556.5	540.4	554.2	565.7	439.2	407.0	411.6	411.6	404.7	411.6	462.2
77.5°	505.9	496.7	542.7	526.6	407.0	367.9	367.9	363.3	349.5	358.7	413.9
80°	450.7	443.8	501.3	441.5	370.2	319.6	315.0	303.5	289.7	296.6	351.8
82.5°	393.2	386.3	420.8	338.0	319.6	264.4	253.0	232.3	218.5	225.4	275.9
85°	321.9	321.9	324.2	255.3	243.8	202.4	188.6	161.0	144.9	149.5	197.8
87.5°	230.0	236.9	218.5	174.8	144.9	112.7	103.5	87.4	73.6	85.1	103.5
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-10-LED-E1-SLL-7050-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1	14133.1
2.5°	12148.6	12401.5	12689.0	13056.9	13371.9	13889.3	14386.1	14685.0
5°	9083.3	9504.1	10028.4	10702.2	11329.9	12272.8	13208.7	13808.9
7.5°	6500.9	6951.6	7517.3	8358.9	9246.5	10449.2	11686.4	12403.8
10°	5378.7	5840.9	6316.9	6884.9	7611.5	8920.0	10382.5	11192.0
12.5°	4449.7	4944.1	5456.9	6054.7	6728.5	7896.7	9582.3	10513.6
15°	3405.7	3957.5	4562.3	5318.9	6162.8	7512.7	9384.5	10396.3
17.5°	2334.1	2950.3	3693.1	4626.7	5659.2	7388.5	9738.6	10904.5
20°	1607.4	2055.8	2849.2	3943.7	5185.5	7372.4	10419.3	11879.5
22.5°	1345.2	1545.3	2124.8	3316.0	4829.1	7570.2	11474.8	13247.8
25°	1244.1	1363.6	1697.1	2771.0	4569.2	8025.5	12928.1	15018.4
27.5°	1184.3	1292.4	1540.7	2414.5	4364.6	8554.4	14342.4	16733.9
30°	1207.3	1317.6	1497.0	2232.9	4086.3	8995.9	15597.9	18072.3
32.5°	1087.7	1136.0	1283.2	2071.9	3886.3	9366.1	16697.1	19180.6
35°	926.7	1011.8	1145.2	1996.0	3890.9	9614.5	17895.2	20597.2
37.5°	883.0	968.1	1064.7	1968.4	3943.7	9878.9	19270.3	22257.5
40°	855.4	933.6	1016.4	1952.3	3994.3	10120.4	20617.9	23899.3
42.5°	837.0	908.3	1011.8	1897.1	4019.6	10336.5	21726.3	25295.2
45°	834.7	908.3	1030.2	1841.9	4058.7	10568.8	22655.3	26327.7
47.5°	837.0	938.2	995.7	1775.3	4058.7	10957.4	23745.3	27249.8
50°	827.8	988.8	958.9	1681.0	3964.4	11693.3	25240.0	28484.7
52.5°	823.2	981.9	887.6	1536.1	3801.2	12861.4	27155.5	30186.3
55°	811.7	947.4	837.0	1319.9	3610.3	14135.4	29206.7	32198.5
57.5°	800.2	839.3	809.4	1131.4	3316.0	15032.2	30618.7	33769.1
60°	896.8	733.6	786.4	1039.4	2922.7	15278.3	30563.5	34394.5
62.5°	830.1	687.6	756.6	1018.7	2646.8	14588.4	29151.5	34056.5
65°	650.8	657.7	726.7	1078.5	2573.2	12760.3	26649.6	32495.1
67.5°	595.6	627.8	696.8	1154.4	2580.1	10217.0	22910.5	29094.0
70°	561.1	595.6	662.3	1193.5	2598.5	7616.1	18113.6	23697.0
72.5°	522.0	551.9	623.2	1200.4	2478.9	5532.7	13960.6	17423.8
75°	476.0	503.6	568.0	1046.3	2053.5	3838.0	10679.2	11920.9
77.5°	423.1	443.8	499.0	807.1	1524.6	2455.9	8016.3	8708.4
80°	361.0	372.5	418.5	591.0	1044.0	1536.1	6342.2	6988.4
82.5°	289.7	294.3	324.2	443.8	678.4	986.5	4247.3	4847.5
85°	204.7	204.7	223.1	321.9	462.2	625.5	2306.5	2557.1
87.5°	96.6	98.9	98.9	177.1	241.5	317.3	531.2	326.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)