

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: P193846

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193846  
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-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1200mA 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: 37528 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 511  
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

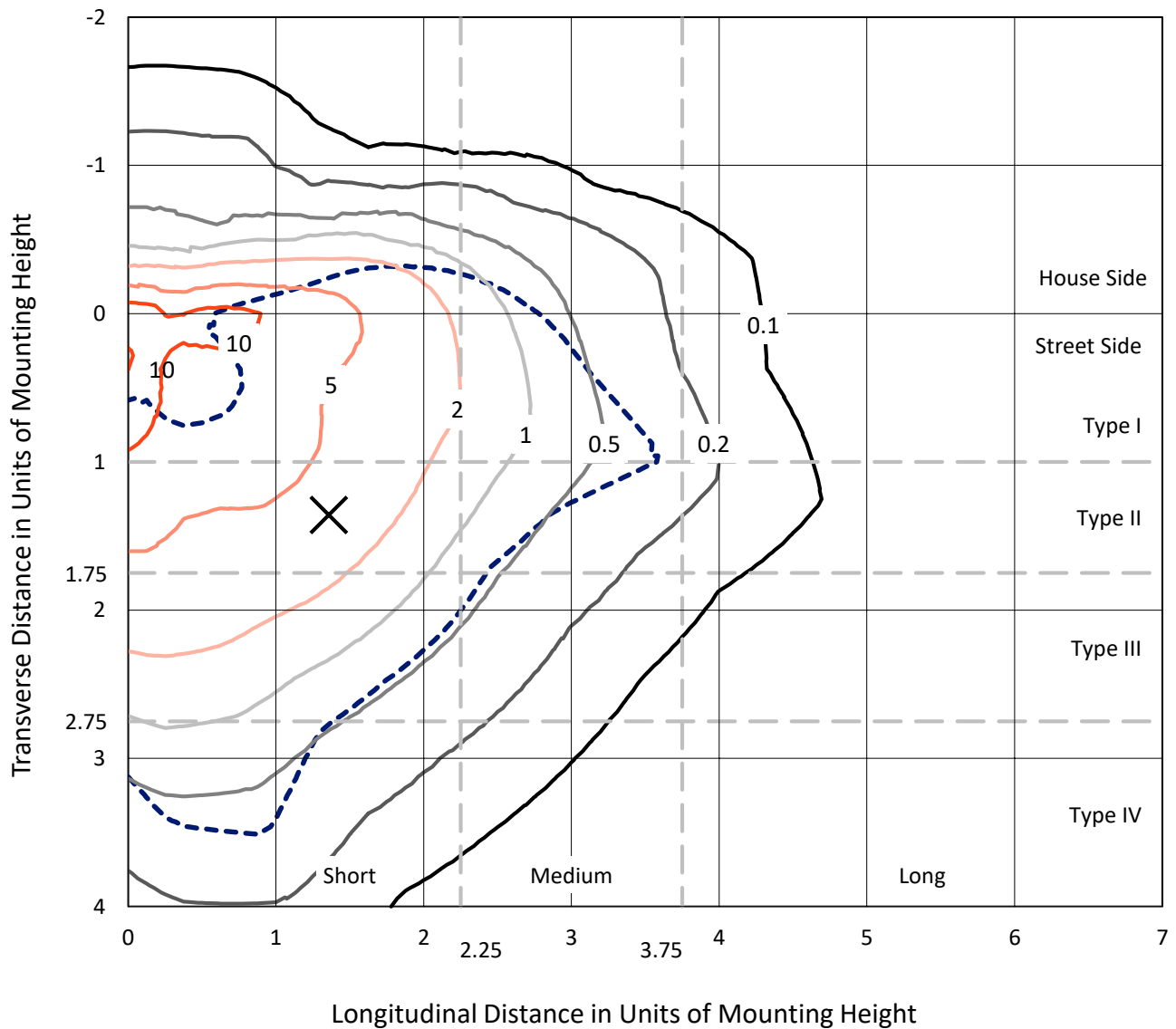


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

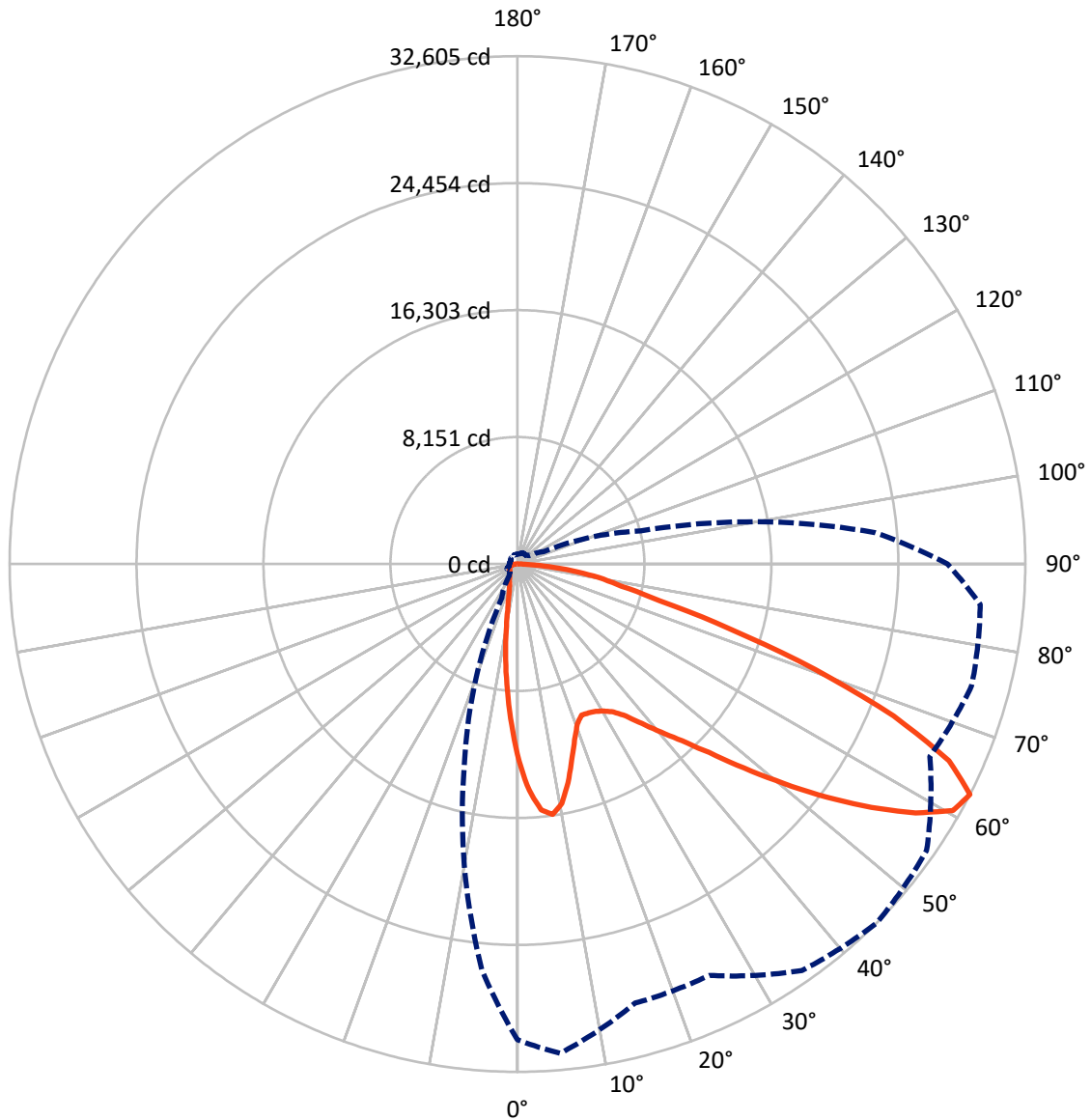


Based on 30 foot mounting height. Maximum calculated value = 16.6 fc  
 Type IV - Short - Non-Cutoff

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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	6210.4	0.0	6210.4
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	31317.6	0.0	31317.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	37528.0	0.0	37528.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	923.0	2.5
10°-20°	1692.5	4.5
20°-30°	2467.6	6.6
30°-40°	3800.5	10.1
40°-50°	5593.4	14.9
50°-60°	8204.3	21.9
60°-70°	9171.2	24.4
70°-80°	4490.1	12.0
80°-90°	1185.5	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°	37528.0	100.0
0°-180°	37528.0	100.0

**Coefficient of Utilization**



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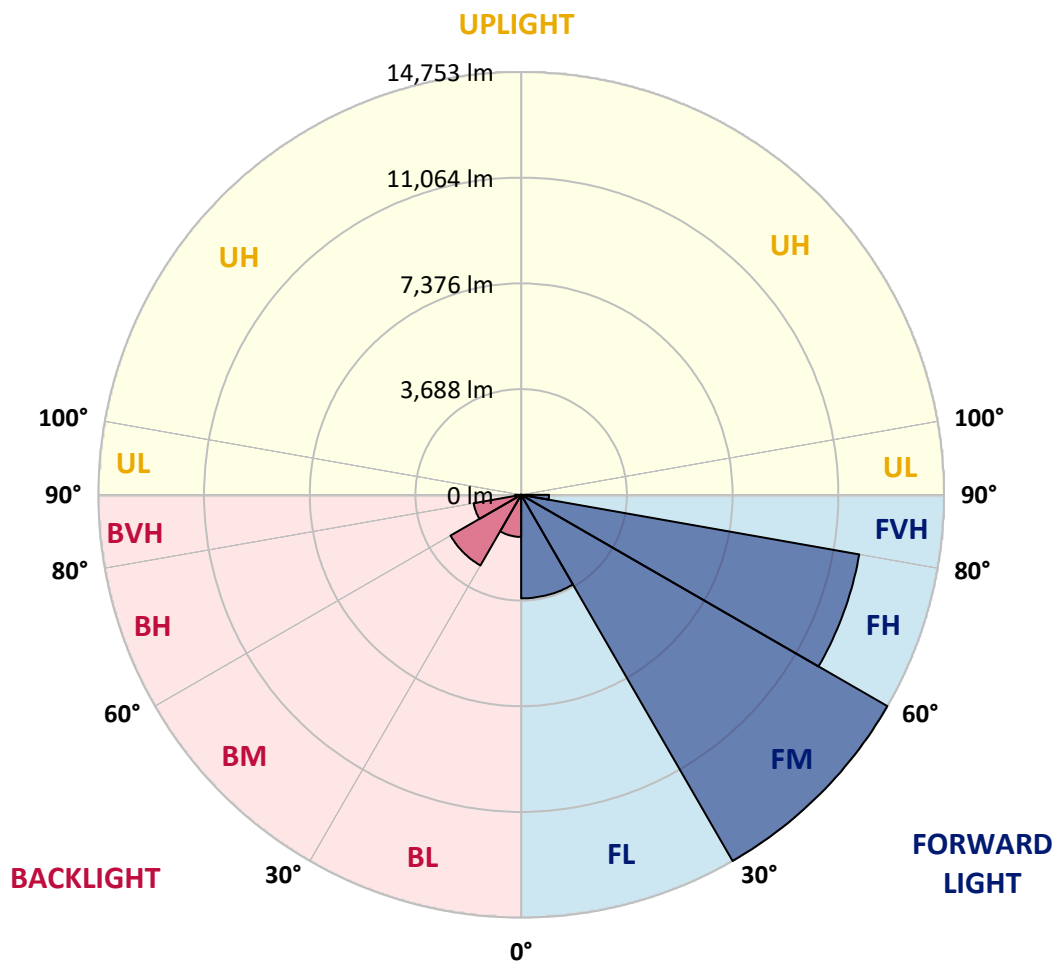
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3613.8	9.6			
FM	(30°-60°)	14752.6	39.3			
FH	(60°-80°)	11977.6	31.9			G4/12000
FVH	(80°-90°)	973.6	2.6			G5
BL	(0°-30°)	1469.3	3.9	B3/2500		
BM	(30°-60°)	2845.5	7.6	B3/5000		
BH	(60°-80°)	1683.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	211.9	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°	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0
2.5°	13174.1	13384.5	13795.0	14102.4	14475.8	14562.5	14682.1	14564.5	14356.2	14079.7	13989.0
5°	12388.1	12837.8	13834.2	14711.0	15490.8	15853.9	15955.0	15655.8	15051.4	14257.1	13772.4
7.5°	11127.6	11767.1	13116.3	14407.7	15556.8	16235.5	16219.0	15523.8	14411.9	13118.4	12340.7
10°	10040.4	10770.7	12318.0	13762.0	14981.2	15639.3	15385.6	14496.5	13170.0	11680.5	10836.8
12.5°	9431.9	10147.7	11717.6	13167.9	14187.0	14413.9	14220.0	13349.4	12099.3	10593.3	9854.8
15°	9326.7	10112.7	11478.3	12658.4	13229.8	13031.7	12800.7	12410.8	11527.8	10242.6	9473.1
17.5°	9782.6	10649.0	11752.7	12303.5	12206.6	11862.0	11796.0	11839.4	11626.9	10632.5	9745.4
20°	10657.3	11697.0	12406.7	12136.4	11428.8	10954.3	10970.8	11633.1	12262.3	11620.7	10607.8
22.5°	11884.7	13070.9	13349.4	12225.1	11100.8	10537.6	10673.8	11746.5	13275.2	13064.8	11771.3
25°	13473.2	14554.2	14354.1	12547.0	11133.8	10589.2	10698.5	12138.5	14471.7	14508.8	13211.2
27.5°	15012.2	16014.8	15197.9	12974.0	11270.0	10710.9	10855.3	12755.3	15614.6	16076.7	14857.5
30°	16212.8	16910.1	15532.1	13363.9	11538.2	10948.2	11127.6	13341.2	16134.4	17135.0	16124.1
32.5°	17207.2	17708.5	16064.3	13846.6	12031.2	11321.5	11637.2	14052.9	16883.3	18141.7	17364.0
35°	18478.0	18620.3	16726.5	14385.1	12792.4	11971.4	12363.3	14750.2	17597.1	19158.8	18585.2
37.5°	19967.4	19783.8	17351.6	15121.5	13776.5	12988.4	13312.3	15515.6	18185.0	20311.9	19833.3
40°	21440.4	20998.9	18135.5	16264.4	15212.3	14187.0	14570.7	16332.5	18733.8	21467.2	21052.6
42.5°	22692.6	22038.6	18909.1	17520.8	16549.1	15509.4	15967.3	17155.6	19257.8	22453.3	22110.9
45°	23618.9	22806.1	19645.6	18727.6	18391.3	17267.0	17483.6	18098.4	19825.1	23276.4	22981.4
47.5°	24446.1	23577.6	20479.0	19944.7	20002.5	19552.8	19204.1	19195.9	20493.5	23949.0	23804.5
50°	25553.9	24648.3	21374.4	21199.0	22420.3	22121.2	21351.7	20477.0	21339.3	24712.3	24695.7
52.5°	27080.5	26344.1	22467.7	22550.3	24677.2	24873.2	23920.1	22016.0	22663.7	26113.0	26014.0
55°	28885.6	28456.5	23957.2	24103.7	27445.7	27586.0	26639.1	23940.7	24611.2	28140.9	27866.5
57.5°	30294.6	30203.9	25591.1	25968.6	29512.8	30144.0	29273.5	26168.7	26806.2	29849.0	29160.0
60°	30855.8	31295.2	27330.2	27850.0	31425.1	32124.5	31361.2	28126.5	28751.5	30556.6	29071.3
62.5°	30552.5	31534.5	29182.7	29139.4	31852.2	32605.2	32068.8	29215.7	30193.5	29826.3	27600.4
65°	29151.8	30674.2	30257.5	28807.2	30391.6	30453.5	30280.2	28728.8	30533.9	27517.9	24757.6
67.5°	26100.6	28291.5	28842.3	25960.3	26451.3	26049.1	25758.2	26063.5	28759.8	24058.3	20807.1
70°	21258.8	24555.5	24819.5	20763.7	20540.9	20270.7	19691.0	21368.2	25258.9	19717.8	16509.9
72.5°	15631.1	19096.9	19907.6	15228.8	14197.3	14253.0	13795.0	16103.5	20536.8	14647.0	12326.2
75°	10694.4	13828.1	15575.4	10626.3	9388.6	9411.2	9353.5	11410.3	16357.2	10189.0	9223.5
77.5°	7812.4	9879.5	11746.5	7144.0	6935.7	6807.8	6776.8	7983.7	12540.8	7397.8	7162.6
80°	6269.3	7298.8	7890.8	4951.1	5324.5	5314.2	5143.0	5489.5	8190.0	5411.2	5357.5
82.5°	4348.7	5609.2	6393.1	3880.4	3593.7	3533.9	3575.1	4088.8	5788.7	3698.9	3517.4
85°	2294.0	3725.7	6331.2	3439.0	2133.1	1701.9	2116.6	3348.2	5015.1	1959.8	1716.4
87.5°	292.9	1076.9	4191.9	1371.9	841.7	453.9	1004.7	1885.5	3220.3	400.2	348.6
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°	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0
2.5°	13755.8	13481.5	13122.5	12790.4	12445.9	12103.4	11655.7	11375.2	11181.3	11144.1	11061.6
5°	13421.6	12509.8	11820.8	11224.6	10684.1	9920.8	9497.9	9147.2	8959.5	8940.9	8895.5
7.5°	11880.6	10622.2	9691.8	8848.1	8082.7	7465.9	6785.1	6467.4	6337.4	6368.4	6399.3
10°	10277.7	8870.7	7802.1	6939.8	6265.2	5745.4	5198.7	4829.4	4573.6	4522.0	4511.7
12.5°	9105.9	7562.8	6525.2	5916.6	5394.7	4905.7	4326.0	3890.8	3558.6	3445.2	3368.8
15°	8610.8	6923.3	5836.1	5180.1	4604.5	3983.6	3445.2	2989.2	2683.9	2584.9	2529.2
17.5°	8716.0	6745.9	5361.6	4522.0	3785.5	3137.8	2459.1	2069.2	1885.5	1838.1	1838.1
20°	9268.9	6712.9	4969.7	3915.5	2997.5	2246.6	1689.6	1466.8	1406.9	1400.8	1417.3
22.5°	10044.6	6828.4	4676.7	3389.5	2329.1	1640.1	1316.2	1233.7	1206.8	1213.0	1231.6
25°	11199.8	7218.3	4464.3	2921.2	1827.8	1343.0	1173.8	1124.3	1111.9	1128.4	1151.1
27.5°	12569.6	7608.2	4332.2	2568.4	1543.1	1227.5	1116.1	1064.5	1072.7	1093.4	1114.0
30°	13772.4	7928.0	4123.9	2316.7	1454.4	1233.7	1116.1	1045.9	1037.7	1041.8	1048.0
32.5°	14851.3	8144.6	3880.4	2077.4	1254.3	1095.4	1041.8	1031.5	986.1	969.6	971.7
35°	15781.7	8144.6	3734.0	1937.1	1124.3	971.7	885.0	833.4	810.7	812.8	835.5
37.5°	16679.1	7981.6	3661.8	1858.7	1054.2	924.2	847.9	802.5	771.5	765.4	769.5
40°	17471.2	7744.4	3579.2	1825.7	1000.5	895.3	823.1	786.0	753.0	742.7	744.7
42.5°	18106.6	7552.5	3488.5	1782.4	967.5	874.7	806.6	773.6	736.5	726.2	724.1
45°	18793.6	7488.6	3368.8	1695.8	984.0	876.8	802.5	767.4	730.3	717.9	713.8
47.5°	19699.2	7688.7	3245.0	1592.6	1019.1	887.1	808.7	767.4	728.2	717.9	713.8
50°	20840.1	8159.0	3088.3	1442.0	984.0	916.0	806.6	761.2	728.2	717.9	709.7
52.5°	22304.8	8794.4	2882.0	1268.7	963.4	986.1	802.5	748.9	717.9	703.5	689.0
55°	24085.1	9314.3	2636.5	1126.4	916.0	967.5	796.3	734.4	701.4	680.8	668.4
57.5°	25388.9	9502.0	2320.8	1033.5	849.9	936.6	788.1	715.8	680.8	664.3	647.8
60°	25131.0	9138.9	2054.7	975.8	810.7	845.8	781.9	699.3	662.2	649.8	635.4
62.5°	23066.0	8190.0	1883.5	949.0	786.0	771.5	788.1	682.8	645.7	633.3	629.2
65°	19969.5	6789.2	1815.4	942.8	765.4	728.2	732.4	664.3	627.1	616.8	612.7
67.5°	16472.8	5479.2	1755.6	963.4	738.5	697.3	676.7	639.5	608.6	598.3	590.0
70°	12990.5	4557.1	1728.8	951.0	705.5	666.3	643.6	612.7	585.9	575.6	569.4
72.5°	10461.3	3849.5	1714.3	938.6	662.2	625.1	604.4	577.6	548.7	544.6	538.4
75°	8852.2	3026.4	1569.9	899.5	612.7	575.6	561.1	536.4	507.5	507.5	503.4
77.5°	6828.4	2188.8	1305.9	796.3	561.1	519.9	507.5	488.9	455.9	462.1	460.0
80°	5043.9	1427.6	1021.2	660.1	497.2	458.0	451.8	433.2	398.2	406.4	406.4
82.5°	3455.5	936.6	734.4	540.5	425.0	387.8	387.8	369.3	330.1	334.2	346.6
85°	1735.0	643.6	548.7	418.8	330.1	311.5	311.5	297.1	257.9	259.9	276.4
87.5°	528.1	387.8	363.1	299.1	237.2	233.1	222.8	212.5	187.7	185.7	196.0
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0
2.5°	10935.8	10818.2	10675.8	10362.3	10257.1	10250.9	10345.8	10246.7	10436.5	10356.1	10444.8
5°	8819.2	8703.6	8544.8	8144.6	7901.2	7736.1	7657.7	7426.7	7593.8	7472.1	7573.1
7.5°	6486.0	6512.8	6407.6	6172.4	5642.2	5376.1	5219.3	5079.0	5200.7	5188.4	5382.3
10°	4559.2	4631.4	4557.1	4319.8	3890.8	3744.3	3773.2	3828.9	3987.7	4070.2	4369.4
12.5°	3282.2	3278.1	3230.6	3018.1	2735.5	2752.0	2869.6	2966.5	3113.0	3199.7	3505.0
15°	2450.8	2413.7	2393.0	2219.7	2058.8	2093.9	2151.7	2162.0	2254.8	2306.4	2554.0
17.5°	1852.5	1871.1	1893.8	1770.0	1648.3	1625.6	1580.2	1524.5	1551.3	1561.7	1685.4
20°	1470.9	1545.2	1600.9	1514.2	1390.4	1324.4	1266.7	1229.5	1229.5	1227.5	1262.5
22.5°	1285.2	1338.9	1398.7	1338.9	1227.5	1169.7	1136.7	1107.8	1103.7	1103.7	1136.7
25°	1184.1	1223.3	1281.1	1239.8	1157.3	1114.0	1083.1	1045.9	1031.5	1027.4	1050.0
27.5°	1134.6	1151.1	1180.0	1142.9	1072.7	1052.1	1043.9	1010.9	992.3	982.0	1004.7
30°	1050.0	1045.9	1048.0	1010.9	955.2	953.1	967.5	973.7	967.5	965.5	1000.5
32.5°	971.7	963.4	961.3	928.3	876.8	864.4	876.8	889.1	903.6	924.2	965.5
35°	872.6	893.3	905.6	876.8	814.9	777.7	763.3	740.6	728.2	728.2	775.7
37.5°	794.2	841.7	860.3	833.4	765.4	713.8	689.0	684.9	687.0	695.2	740.6
40°	767.4	802.5	819.0	792.2	724.1	676.7	662.2	658.1	662.2	674.6	720.0
42.5°	750.9	775.7	773.6	740.6	684.9	651.9	643.6	639.5	643.6	656.0	705.5
45°	736.5	753.0	736.5	697.3	645.7	629.2	631.3	629.2	633.3	645.7	693.2
47.5°	724.1	730.3	709.7	670.5	616.8	612.7	621.0	627.1	631.3	641.6	691.1
50°	705.5	705.5	687.0	645.7	592.1	594.1	604.4	618.9	621.0	633.3	672.5
52.5°	682.8	680.8	668.4	629.2	571.4	577.6	577.6	594.1	598.3	612.7	654.0
55°	664.3	660.1	654.0	616.8	552.9	563.2	557.0	563.2	573.5	587.9	633.3
57.5°	647.8	639.5	639.5	606.5	538.4	542.6	528.1	536.4	548.7	561.1	608.6
60°	631.3	623.0	627.1	592.1	515.7	511.6	505.4	521.9	526.1	540.5	587.9
62.5°	612.7	606.5	608.6	575.6	499.2	488.9	488.9	503.4	505.4	526.1	571.4
65°	598.3	590.0	587.9	559.1	480.7	468.3	474.5	480.7	484.8	505.4	548.7
67.5°	583.8	567.3	567.3	544.6	460.0	447.7	460.0	458.0	464.2	482.7	517.8
70°	565.3	542.6	544.6	534.3	439.4	425.0	435.3	433.2	437.3	449.7	484.8
72.5°	536.4	517.8	521.9	517.8	418.8	398.2	402.3	402.3	402.3	412.6	449.7
75°	499.2	484.8	497.2	507.5	394.0	365.1	369.3	369.3	363.1	369.3	414.7
77.5°	453.9	445.6	486.9	472.4	365.1	330.1	330.1	325.9	313.6	321.8	371.3
80°	404.3	398.2	449.7	396.1	332.1	286.8	282.6	272.3	259.9	266.1	315.6
82.5°	352.8	346.6	377.5	303.3	286.8	237.2	226.9	208.4	196.0	202.2	247.6
85°	288.8	288.8	290.9	229.0	218.7	181.5	169.2	144.4	130.0	134.1	177.4
87.5°	206.3	212.5	196.0	156.8	130.0	101.1	92.8	78.4	66.0	76.3	92.8
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: P193846

CATALOG NUMBER: GLEON-AF-08-LED-E1-SLL-8030-1200

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0
2.5°	10898.6	11125.6	11383.4	11713.5	11996.1	12460.3	12905.9	13174.1
5°	8148.7	8526.2	8996.6	9601.0	10164.2	11010.0	11849.7	12388.1
7.5°	5832.0	6236.3	6743.8	7498.9	8295.2	9374.1	10484.0	11127.6
10°	4825.3	5239.9	5667.0	6176.5	6828.4	8002.2	9314.3	10040.4
12.5°	3991.8	4435.4	4895.4	5431.8	6036.2	7084.2	8596.4	9431.9
15°	3055.3	3550.4	4092.9	4771.6	5528.7	6739.7	8419.0	9326.7
17.5°	2093.9	2646.8	3313.1	4150.7	5077.0	6628.3	8736.7	9782.6
20°	1442.0	1844.3	2556.0	3538.0	4652.0	6613.9	9347.3	10657.3
22.5°	1206.8	1386.3	1906.2	2974.8	4332.2	6791.3	10294.2	11884.7
25°	1116.1	1223.3	1522.5	2485.9	4099.1	7199.7	11598.0	13473.2
27.5°	1062.4	1159.4	1382.2	2166.1	3915.5	7674.2	12866.7	15012.2
30°	1083.1	1182.1	1343.0	2003.1	3665.9	8070.3	13993.1	16212.8
32.5°	975.8	1019.1	1151.1	1858.7	3486.4	8402.5	14979.2	17207.2
35°	831.4	907.7	1027.4	1790.7	3490.5	8625.3	16054.0	18478.0
37.5°	792.2	868.5	955.2	1765.9	3538.0	8862.5	17287.6	19967.4
40°	767.4	837.6	911.8	1751.5	3583.4	9079.1	18496.5	21440.4
42.5°	750.9	814.9	907.7	1701.9	3606.1	9273.0	19490.9	22692.6
45°	748.9	814.9	924.2	1652.4	3641.1	9481.4	20324.3	23618.9
47.5°	750.9	841.7	893.3	1592.6	3641.1	9830.0	21302.2	24446.1
50°	742.7	887.1	860.3	1508.0	3556.6	10490.2	22643.1	25553.9
52.5°	738.5	880.9	796.3	1378.1	3410.1	11538.2	24361.5	27080.5
55°	728.2	849.9	750.9	1184.1	3238.9	12681.0	26201.7	28885.6
57.5°	717.9	753.0	726.2	1015.0	2974.8	13485.6	27468.4	30294.6
60°	804.6	658.1	705.5	932.5	2622.0	13706.3	27418.9	30855.8
62.5°	744.7	616.8	678.7	913.9	2374.5	13087.4	26152.2	30552.5
65°	583.8	590.0	651.9	967.5	2308.5	11447.4	23907.7	29151.8
67.5°	534.3	563.2	625.1	1035.6	2314.6	9165.8	20553.3	26100.6
70°	503.4	534.3	594.1	1070.7	2331.1	6832.5	16250.0	21258.8
72.5°	468.3	495.1	559.1	1076.9	2223.9	4963.5	12524.3	15631.1
75°	427.0	451.8	509.6	938.6	1842.2	3443.1	9580.4	10694.4
77.5°	379.6	398.2	447.7	724.1	1367.7	2203.2	7191.5	7812.4
80°	323.9	334.2	375.5	530.2	936.6	1378.1	5689.7	6269.3
82.5°	259.9	264.1	290.9	398.2	608.6	885.0	3810.3	4348.7
85°	183.6	183.6	200.1	288.8	414.7	561.1	2069.2	2294.0
87.5°	86.6	88.7	88.7	158.8	216.6	284.7	476.5	292.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)