

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: P193841

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193841  
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-03-LED-E1-SLL-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 14296 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 191  
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

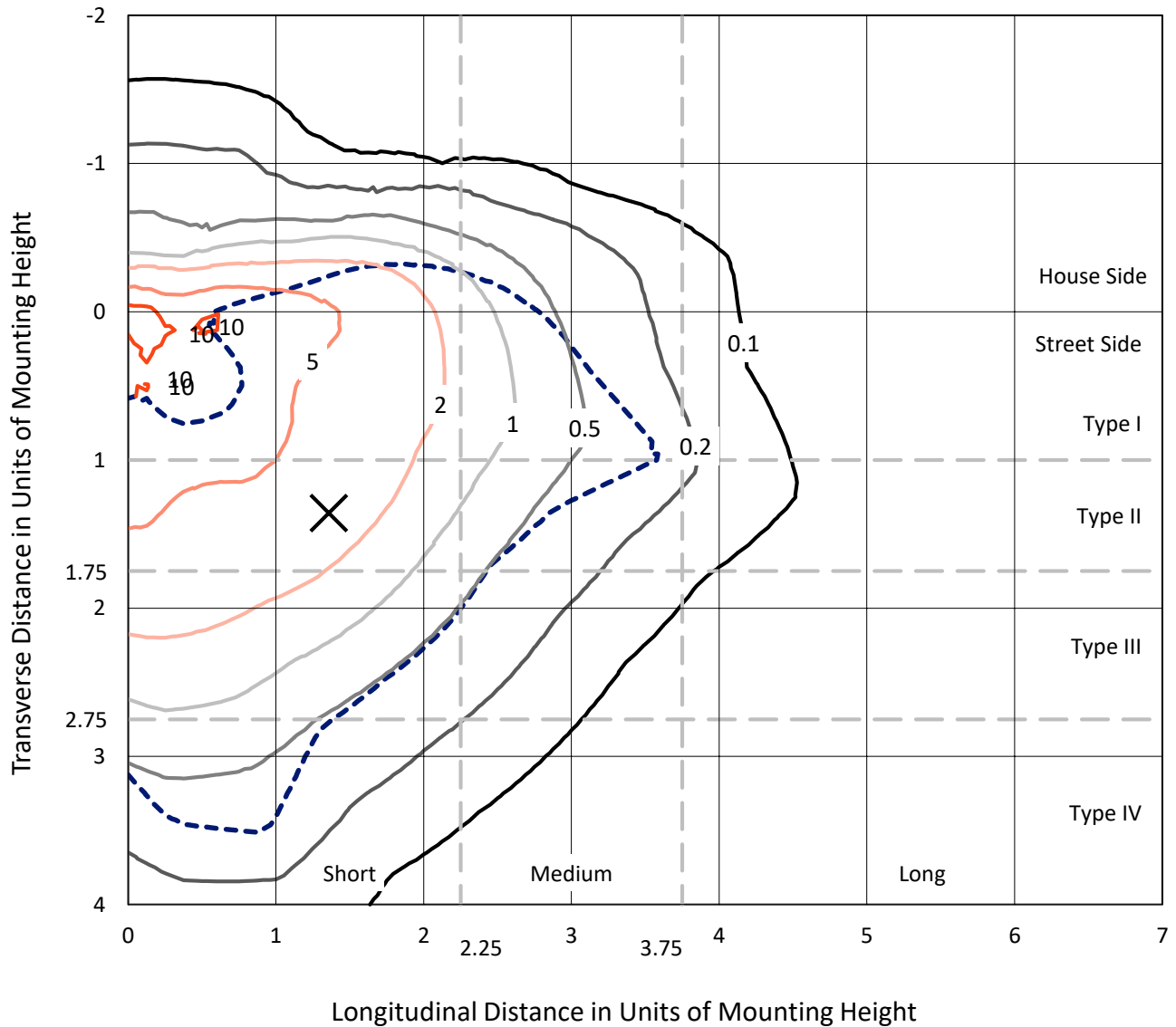


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

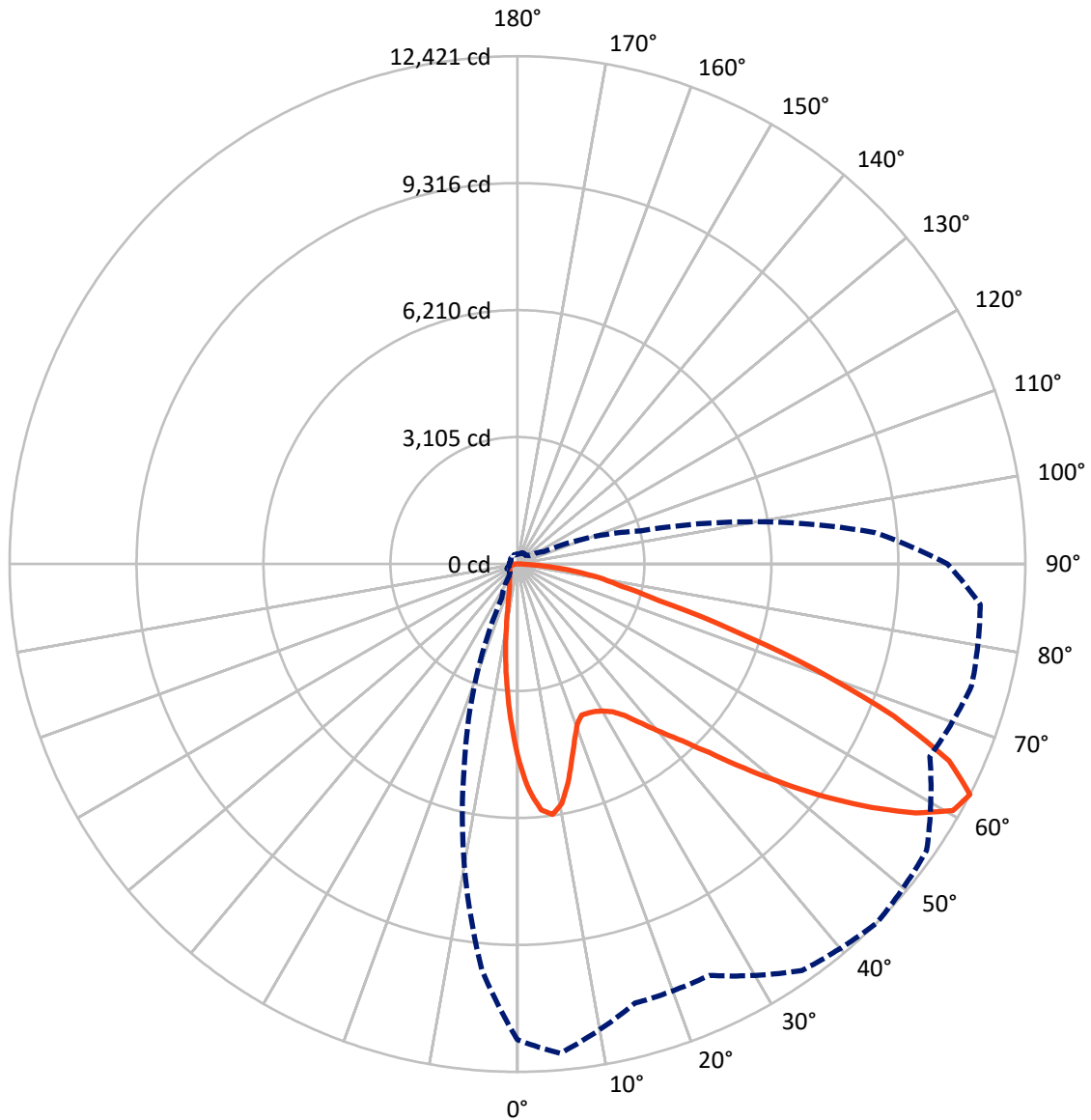


Based on 20 foot mounting height. Maximum calculated value = 14.2 fc  
 Type IV - Short - Non-Cutoff

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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	2365.8	0.0	2365.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	11930.2	0.0	11930.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	14296.0	0.0	14296.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.6	2.5
10°-20°	644.7	4.5
20°-30°	940.0	6.6
30°-40°	1447.8	10.1
40°-50°	2130.7	14.9
50°-60°	3125.3	21.9
60°-70°	3493.7	24.4
70°-80°	1710.5	12.0
80°-90°	451.6	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°	14296.0	100.0
0°-180°	14296.0	100.0



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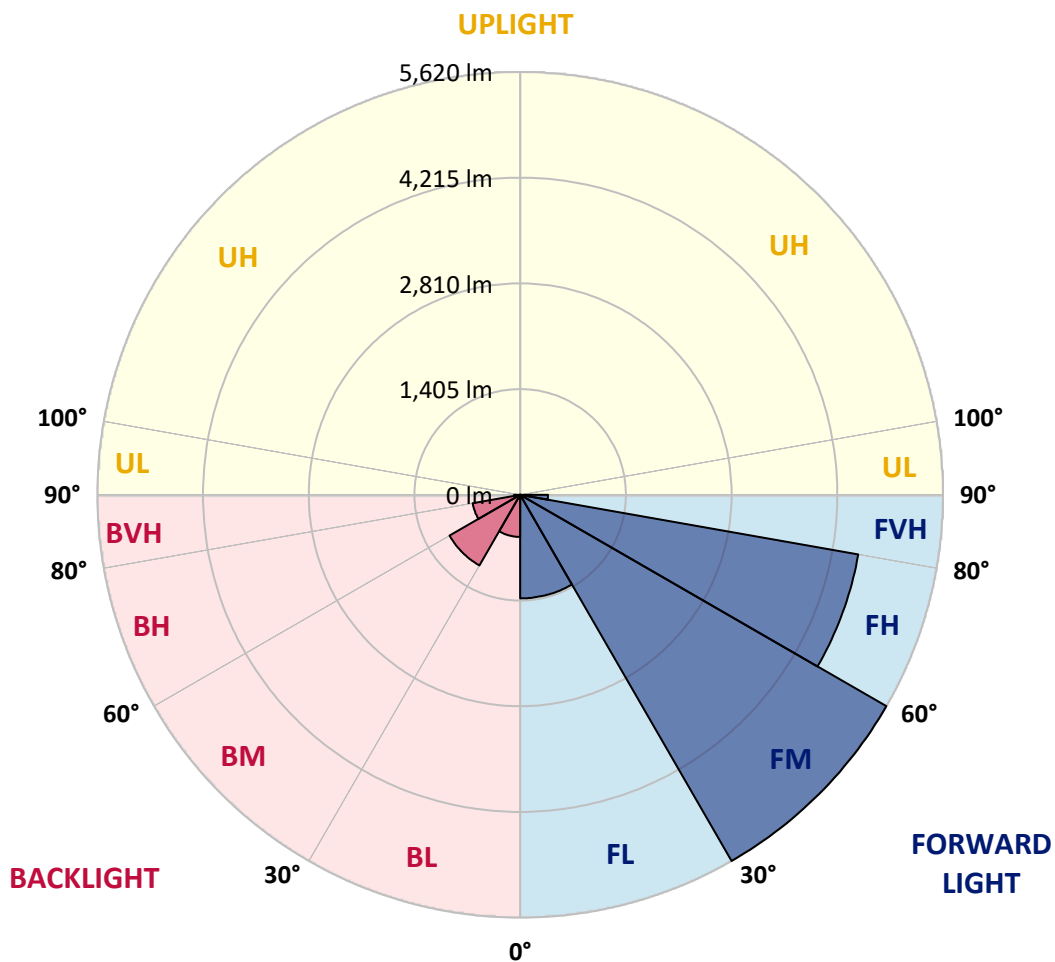
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-8030-1200

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1376.7	9.6			
FM	(30°-60°)	5619.9	39.3			
FH	(60°-80°)	4562.8	31.9			G2/5000
FVH	(80°-90°)	370.9	2.6			G3/500
BL	(0°-30°)	559.7	3.9	B2/1000		
BM	(30°-60°)	1084.0	7.6	B2/2500		
BH	(60°-80°)	641.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	80.7	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0
2.5°	5018.6	5098.7	5255.1	5372.2	5514.5	5547.5	5593.0	5548.2	5468.9	5363.6	5329.0
5°	4719.2	4890.5	5270.0	5604.0	5901.1	6039.4	6077.9	5964.0	5733.7	5431.1	5246.5
7.5°	4239.0	4482.6	4996.6	5488.5	5926.2	6184.8	6178.5	5913.7	5490.1	4997.3	4701.1
10°	3824.8	4103.0	4692.4	5242.5	5707.0	5957.7	5861.0	5522.3	5017.0	4449.6	4128.2
12.5°	3593.0	3865.7	4463.7	5016.2	5404.4	5490.9	5417.0	5085.4	4609.1	4035.4	3754.1
15°	3552.9	3852.3	4372.6	4822.1	5039.8	4964.3	4876.3	4727.8	4391.4	3901.8	3608.7
17.5°	3726.6	4056.7	4477.1	4686.9	4650.0	4518.8	4493.6	4510.1	4429.2	4050.4	3712.5
20°	4059.8	4455.9	4726.2	4623.3	4353.7	4173.0	4179.3	4431.5	4671.2	4426.8	4040.9
22.5°	4527.4	4979.3	5085.4	4657.1	4228.8	4014.2	4066.1	4474.7	5057.1	4976.9	4484.2
25°	5132.5	5544.3	5468.1	4779.7	4241.3	4033.9	4075.5	4624.1	5512.9	5527.0	5032.7
27.5°	5718.8	6100.7	5789.5	4942.3	4293.2	4080.2	4135.2	4859.0	5948.3	6124.3	5659.8
30°	6176.2	6441.8	5916.8	5090.9	4395.4	4170.6	4239.0	5082.2	6146.3	6527.4	6142.4
32.5°	6554.9	6745.9	6119.6	5274.8	4583.2	4312.9	4433.1	5353.3	6431.6	6910.9	6614.7
35°	7039.0	7093.3	6371.8	5479.9	4873.2	4560.4	4709.7	5619.0	6703.5	7298.4	7079.9
37.5°	7606.4	7536.5	6610.0	5760.4	5248.0	4947.8	5071.2	5910.5	6927.4	7737.7	7555.4
40°	8167.6	7999.4	6908.6	6195.8	5795.0	5404.4	5550.6	6221.7	7136.5	8177.8	8019.8
42.5°	8644.6	8395.5	7203.3	6674.4	6304.3	5908.2	6082.6	6535.3	7336.1	8553.4	8423.0
45°	8997.4	8687.8	7483.8	7134.1	7006.0	6577.7	6660.3	6894.4	7552.2	8867.0	8754.6
47.5°	9312.6	8981.7	7801.3	7597.8	7619.8	7448.5	7315.7	7312.5	7806.8	9123.2	9068.2
50°	9734.6	9389.6	8142.4	8075.6	8540.8	8426.9	8133.8	7800.5	8129.0	9413.9	9407.7
52.5°	10316.1	10035.6	8558.9	8590.3	9400.6	9475.2	9112.2	8386.8	8633.6	9947.5	9909.8
55°	11003.8	10840.3	9126.3	9182.1	10455.2	10508.7	10147.9	9120.0	9375.4	10720.1	10615.5
57.5°	11540.5	11505.9	9748.7	9892.5	11242.7	11483.1	11151.5	9968.8	10211.6	11370.8	11108.3
60°	11754.3	11921.7	10411.2	10609.2	11971.2	12237.6	11946.8	10714.6	10952.7	11640.3	11074.5
62.5°	11638.7	12012.8	11116.9	11100.4	12133.8	12420.7	12216.4	11129.5	11502.0	11362.1	10514.2
65°	11105.1	11685.1	11526.4	10973.9	11577.4	11601.0	11535.0	10944.0	11631.7	10482.7	9431.2
67.5°	9942.8	10777.4	10987.3	9889.4	10076.4	9923.2	9812.4	9928.7	10955.8	9164.8	7926.3
70°	8098.4	9354.2	9454.8	7909.8	7824.9	7722.0	7501.1	8140.0	9622.2	7511.3	6289.3
72.5°	5954.5	7274.8	7583.6	5801.3	5408.4	5429.6	5255.1	6134.5	7823.3	5579.7	4695.6
75°	4074.0	5267.7	5933.3	4048.0	3576.5	3585.1	3563.1	4346.6	6231.2	3881.4	3513.6
77.5°	2976.1	3763.5	4474.7	2721.5	2642.1	2593.4	2581.6	3041.3	4777.3	2818.1	2728.5
80°	2388.3	2780.4	3006.0	1886.1	2028.3	2024.4	1959.2	2091.2	3119.9	2061.3	2040.9
82.5°	1656.6	2136.8	2435.4	1478.2	1369.0	1346.2	1361.9	1557.6	2205.2	1409.1	1339.9
85°	873.9	1419.3	2411.8	1310.0	812.6	648.3	806.3	1275.5	1910.5	746.6	653.8
87.5°	111.6	410.2	1596.9	522.6	320.6	172.9	382.7	718.3	1226.7	152.5	132.8
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°	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0
2.5°	5240.2	5135.7	4998.9	4872.4	4741.2	4610.7	4440.2	4333.3	4259.4	4245.3	4213.8
5°	5112.9	4765.5	4503.0	4275.9	4070.0	3779.3	3618.1	3484.5	3413.0	3406.0	3388.7
7.5°	4525.8	4046.4	3692.0	3370.6	3079.0	2844.1	2584.7	2463.7	2414.2	2426.0	2437.8
10°	3915.2	3379.2	2972.2	2643.7	2386.7	2188.6	1980.4	1839.7	1742.3	1722.6	1718.7
12.5°	3468.8	2881.0	2485.7	2253.9	2055.1	1868.8	1648.0	1482.2	1355.6	1312.4	1283.3
15°	3280.2	2637.4	2223.2	1973.3	1754.1	1517.5	1312.4	1138.7	1022.4	984.7	963.5
17.5°	3320.3	2569.8	2042.5	1722.6	1442.1	1195.3	936.8	788.2	718.3	700.2	700.2
20°	3530.9	2557.2	1893.2	1491.6	1141.9	855.8	643.6	558.8	536.0	533.6	539.9
22.5°	3826.4	2601.2	1781.6	1291.2	887.2	624.8	501.4	470.0	459.7	462.1	469.2
25°	4266.5	2749.8	1700.6	1112.8	696.3	511.6	447.2	428.3	423.6	429.9	438.5
27.5°	4788.3	2898.3	1650.3	978.4	587.8	467.6	425.2	405.5	408.7	416.5	424.4
30°	5246.5	3020.1	1571.0	882.5	554.0	470.0	425.2	398.4	395.3	396.9	399.2
32.5°	5657.5	3102.6	1478.2	791.4	477.8	417.3	396.9	392.9	375.6	369.4	370.1
35°	6011.9	3102.6	1422.4	737.9	428.3	370.1	337.1	317.5	308.8	309.6	318.3
37.5°	6353.8	3040.5	1394.9	708.1	401.6	352.1	323.0	305.7	293.9	291.6	293.1
40°	6655.5	2950.2	1363.5	695.5	381.1	341.1	313.6	299.4	286.8	282.9	283.7
42.5°	6897.6	2877.1	1328.9	679.0	368.6	333.2	307.3	294.7	280.6	276.6	275.8
45°	7159.3	2852.7	1283.3	646.0	374.9	334.0	305.7	292.3	278.2	273.5	271.9
47.5°	7504.3	2928.9	1236.2	606.7	388.2	337.9	308.1	292.3	277.4	273.5	271.9
50°	7938.9	3108.1	1176.4	549.3	374.9	348.9	307.3	290.0	277.4	273.5	270.3
52.5°	8496.8	3350.2	1097.9	483.3	367.0	375.6	305.7	285.3	273.5	268.0	262.5
55°	9175.0	3548.2	1004.3	429.1	348.9	368.6	303.3	279.8	267.2	259.3	254.6
57.5°	9671.7	3619.7	884.1	393.7	323.8	356.8	300.2	272.7	259.3	253.1	246.8
60°	9573.5	3481.4	782.7	371.7	308.8	322.2	297.8	266.4	252.3	247.5	242.0
62.5°	8786.8	3119.9	717.5	361.5	299.4	293.9	300.2	260.1	246.0	241.3	239.7
65°	7607.2	2586.3	691.6	359.1	291.6	277.4	279.0	253.1	238.9	235.0	233.4
67.5°	6275.2	2087.3	668.8	367.0	281.3	265.6	257.8	243.6	231.8	227.9	224.8
70°	4948.6	1736.0	658.6	362.3	268.8	253.8	245.2	233.4	223.2	219.3	216.9
72.5°	3985.1	1466.4	653.1	357.6	252.3	238.1	230.3	220.0	209.0	207.5	205.1
75°	3372.2	1152.9	598.0	342.6	233.4	219.3	213.8	204.3	193.3	193.3	191.8
77.5°	2601.2	833.8	497.5	303.3	213.8	198.0	193.3	186.3	173.7	176.0	175.2
80°	1921.5	543.8	389.0	251.5	189.4	174.5	172.1	165.0	151.7	154.8	154.8
82.5°	1316.3	356.8	279.8	205.9	161.9	147.7	147.7	140.7	125.7	127.3	132.0
85°	660.9	245.2	209.0	159.5	125.7	118.7	118.7	113.2	98.2	99.0	105.3
87.5°	201.2	147.7	138.3	114.0	90.4	88.8	84.9	80.9	71.5	70.7	74.7
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0
2.5°	4165.9	4121.1	4066.9	3947.4	3907.3	3905.0	3941.1	3903.4	3975.7	3945.1	3978.9
5°	3359.6	3315.6	3255.1	3102.6	3009.9	2947.0	2917.2	2829.1	2892.8	2846.4	2884.9
7.5°	2470.8	2481.0	2440.9	2351.3	2149.4	2048.0	1988.3	1934.8	1981.2	1976.5	2050.3
10°	1736.8	1764.3	1736.0	1645.6	1482.2	1426.4	1437.4	1458.6	1519.1	1550.5	1664.5
12.5°	1250.3	1248.7	1230.7	1149.7	1042.1	1048.4	1093.1	1130.1	1185.9	1218.9	1335.2
15°	933.6	919.5	911.6	845.6	784.3	797.7	819.7	823.6	859.0	878.6	972.9
17.5°	705.7	712.8	721.4	674.3	627.9	619.3	602.0	580.8	591.0	594.9	642.1
20°	560.3	588.6	609.8	576.8	529.7	504.5	482.5	468.4	468.4	467.6	481.0
22.5°	489.6	510.0	532.8	510.0	467.6	445.6	433.0	422.0	420.4	420.4	433.0
25°	451.1	466.0	488.0	472.3	440.9	424.4	412.6	398.4	392.9	391.4	400.0
27.5°	432.2	438.5	449.5	435.4	408.7	400.8	397.7	385.1	378.0	374.1	382.7
30°	400.0	398.4	399.2	385.1	363.9	363.1	368.6	370.9	368.6	367.8	381.1
32.5°	370.1	367.0	366.2	353.6	334.0	329.3	334.0	338.7	344.2	352.1	367.8
35°	332.4	340.3	345.0	334.0	310.4	296.3	290.8	282.1	277.4	277.4	295.5
37.5°	302.6	320.6	327.7	317.5	291.6	271.9	262.5	260.9	261.7	264.8	282.1
40°	292.3	305.7	312.0	301.8	275.8	257.8	252.3	250.7	252.3	257.0	274.3
42.5°	286.1	295.5	294.7	282.1	260.9	248.3	245.2	243.6	245.2	249.9	268.8
45°	280.6	286.8	280.6	265.6	246.0	239.7	240.5	239.7	241.3	246.0	264.1
47.5°	275.8	278.2	270.3	255.4	235.0	233.4	236.5	238.9	240.5	244.4	263.3
50°	268.8	268.8	261.7	246.0	225.5	226.3	230.3	235.8	236.5	241.3	256.2
52.5°	260.1	259.3	254.6	239.7	217.7	220.0	220.0	226.3	227.9	233.4	249.1
55°	253.1	251.5	249.1	235.0	210.6	214.5	212.2	214.5	218.5	224.0	241.3
57.5°	246.8	243.6	243.6	231.0	205.1	206.7	201.2	204.3	209.0	213.8	231.8
60°	240.5	237.3	238.9	225.5	196.5	194.9	192.5	198.8	200.4	205.9	224.0
62.5°	233.4	231.0	231.8	219.3	190.2	186.3	186.3	191.8	192.5	200.4	217.7
65°	227.9	224.8	224.0	213.0	183.1	178.4	180.8	183.1	184.7	192.5	209.0
67.5°	222.4	216.1	216.1	207.5	175.2	170.5	175.2	174.5	176.8	183.9	197.3
70°	215.3	206.7	207.5	203.5	167.4	161.9	165.8	165.0	166.6	171.3	184.7
72.5°	204.3	197.3	198.8	197.3	159.5	151.7	153.2	153.2	153.2	157.2	171.3
75°	190.2	184.7	189.4	193.3	150.1	139.1	140.7	140.7	138.3	140.7	158.0
77.5°	172.9	169.7	185.5	180.0	139.1	125.7	125.7	124.2	119.5	122.6	141.5
80°	154.0	151.7	171.3	150.9	126.5	109.2	107.7	103.7	99.0	101.4	120.2
82.5°	134.4	132.0	143.8	115.5	109.2	90.4	86.4	79.4	74.7	77.0	94.3
85°	110.0	110.0	110.8	87.2	83.3	69.2	64.4	55.0	49.5	51.1	67.6
87.5°	78.6	80.9	74.7	59.7	49.5	38.5	35.4	29.9	25.1	29.1	35.4
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-03-LED-E1-SLL-8030-1200

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0
2.5°	4151.8	4238.2	4336.4	4462.2	4569.8	4746.7	4916.4	5018.6
5°	3104.2	3248.0	3427.2	3657.4	3872.0	4194.2	4514.0	4719.2
7.5°	2221.7	2375.7	2569.0	2856.6	3160.0	3571.0	3993.8	4239.0
10°	1838.2	1996.1	2158.8	2352.9	2601.2	3048.4	3548.2	3824.8
12.5°	1520.7	1689.6	1864.9	2069.2	2299.5	2698.7	3274.7	3593.0
15°	1163.9	1352.5	1559.2	1817.7	2106.1	2567.4	3207.1	3552.9
17.5°	797.7	1008.3	1262.1	1581.2	1934.0	2525.0	3328.2	3726.6
20°	549.3	702.6	973.7	1347.8	1772.1	2519.5	3560.8	4059.8
22.5°	459.7	528.1	726.1	1133.2	1650.3	2587.1	3921.5	4527.4
25°	425.2	466.0	580.0	947.0	1561.5	2742.7	4418.2	5132.5
27.5°	404.7	441.7	526.5	825.2	1491.6	2923.4	4901.5	5718.8
30°	412.6	450.3	511.6	763.1	1396.5	3074.3	5330.6	6176.2
32.5°	371.7	388.2	438.5	708.1	1328.1	3200.8	5706.2	6554.9
35°	316.7	345.8	391.4	682.1	1329.7	3285.7	6115.6	7039.0
37.5°	301.8	330.9	363.9	672.7	1347.8	3376.1	6585.6	7606.4
40°	292.3	319.1	347.4	667.2	1365.1	3458.6	7046.1	8167.6
42.5°	286.1	310.4	345.8	648.3	1373.7	3532.5	7424.9	8644.6
45°	285.3	310.4	352.1	629.5	1387.1	3611.9	7742.4	8997.4
47.5°	286.1	320.6	340.3	606.7	1387.1	3744.7	8114.9	9312.6
50°	282.9	337.9	327.7	574.5	1354.8	3996.2	8625.7	9734.6
52.5°	281.3	335.6	303.3	525.0	1299.0	4395.4	9280.3	10316.1
55°	277.4	323.8	286.1	451.1	1233.8	4830.7	9981.3	11003.8
57.5°	273.5	286.8	276.6	386.6	1133.2	5137.2	10463.9	11540.5
60°	306.5	250.7	268.8	355.2	998.8	5221.3	10445.0	11754.3
62.5°	283.7	235.0	258.6	348.1	904.5	4985.6	9962.5	11638.7
65°	222.4	224.8	248.3	368.6	879.4	4360.8	9107.5	11105.1
67.5°	203.5	214.5	238.1	394.5	881.7	3491.6	7829.6	9942.8
70°	191.8	203.5	226.3	407.9	888.0	2602.8	6190.3	8098.4
72.5°	178.4	188.6	213.0	410.2	847.2	1890.8	4771.0	5954.5
75°	162.7	172.1	194.1	357.6	701.8	1311.6	3649.6	4074.0
77.5°	144.6	151.7	170.5	275.8	521.0	839.3	2739.5	2976.1
80°	123.4	127.3	143.0	202.0	356.8	525.0	2167.4	2388.3
82.5°	99.0	100.6	110.8	151.7	231.8	337.1	1451.5	1656.6
85°	69.9	69.9	76.2	110.0	158.0	213.8	788.2	873.9
87.5°	33.0	33.8	33.8	60.5	82.5	108.5	181.5	111.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)