

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: P193824

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193824  
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-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 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: 20627 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

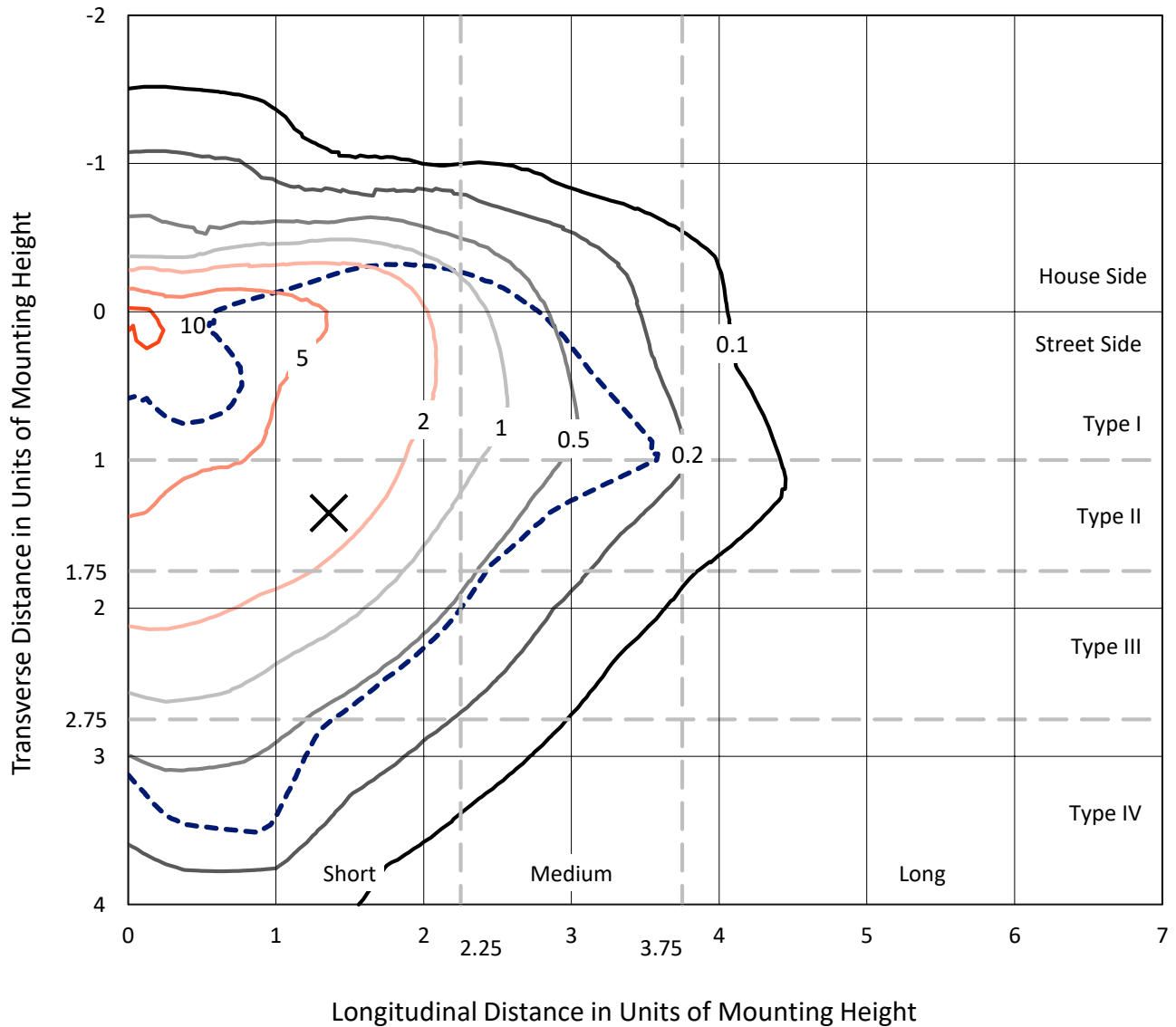
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

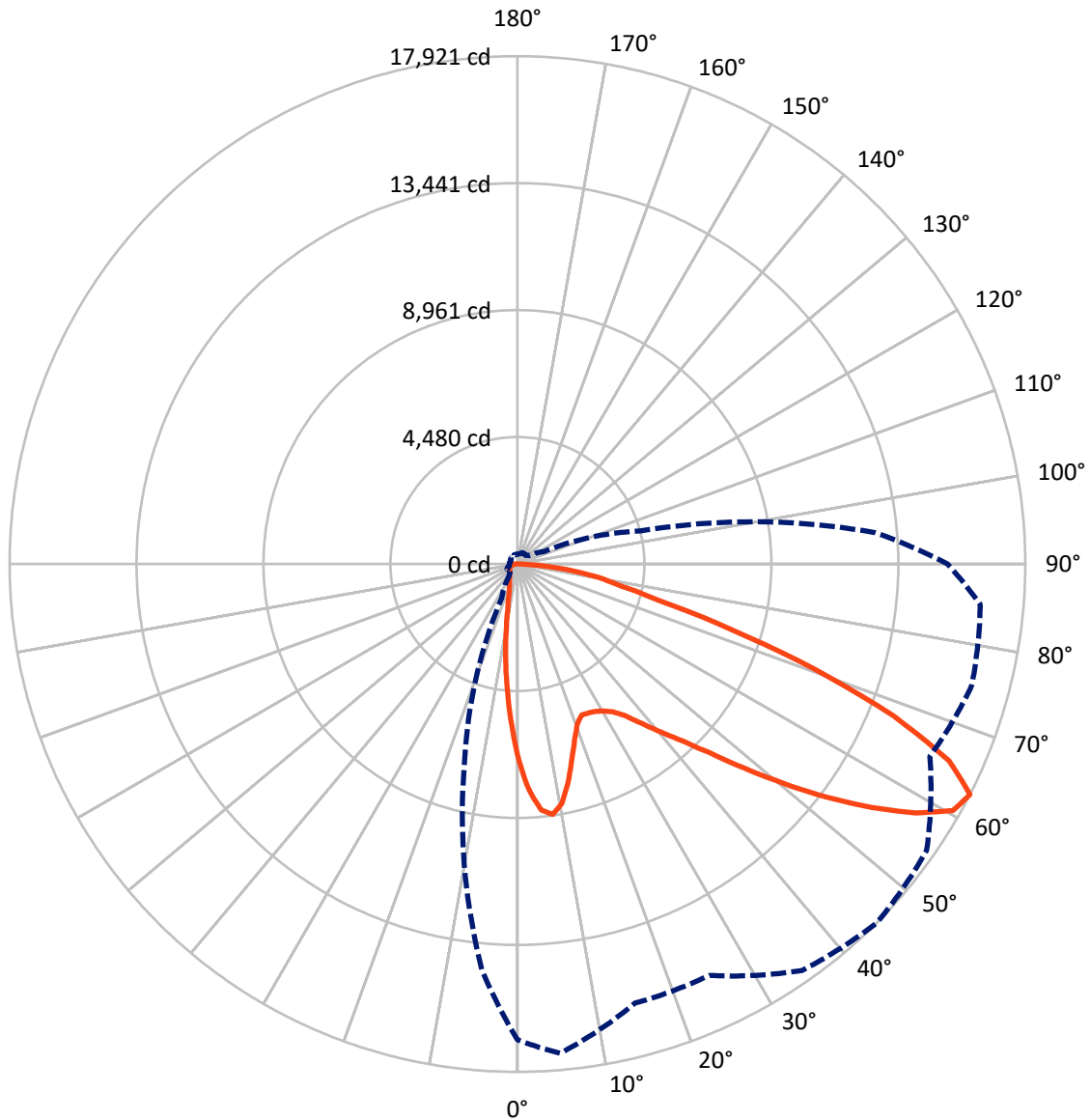
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	3413.5	0.0	3413.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	17213.5	0.0	17213.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	20627.0	0.0	20627.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.3	2.5
10°-20°	930.3	4.5
20°-30°	1356.3	6.6
30°-40°	2088.9	10.1
40°-50°	3074.4	14.9
50°-60°	4509.4	21.9
60°-70°	5040.9	24.4
70°-80°	2467.9	12.0
80°-90°	651.6	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°	20627.0	100.0
0°-180°	20627.0	100.0



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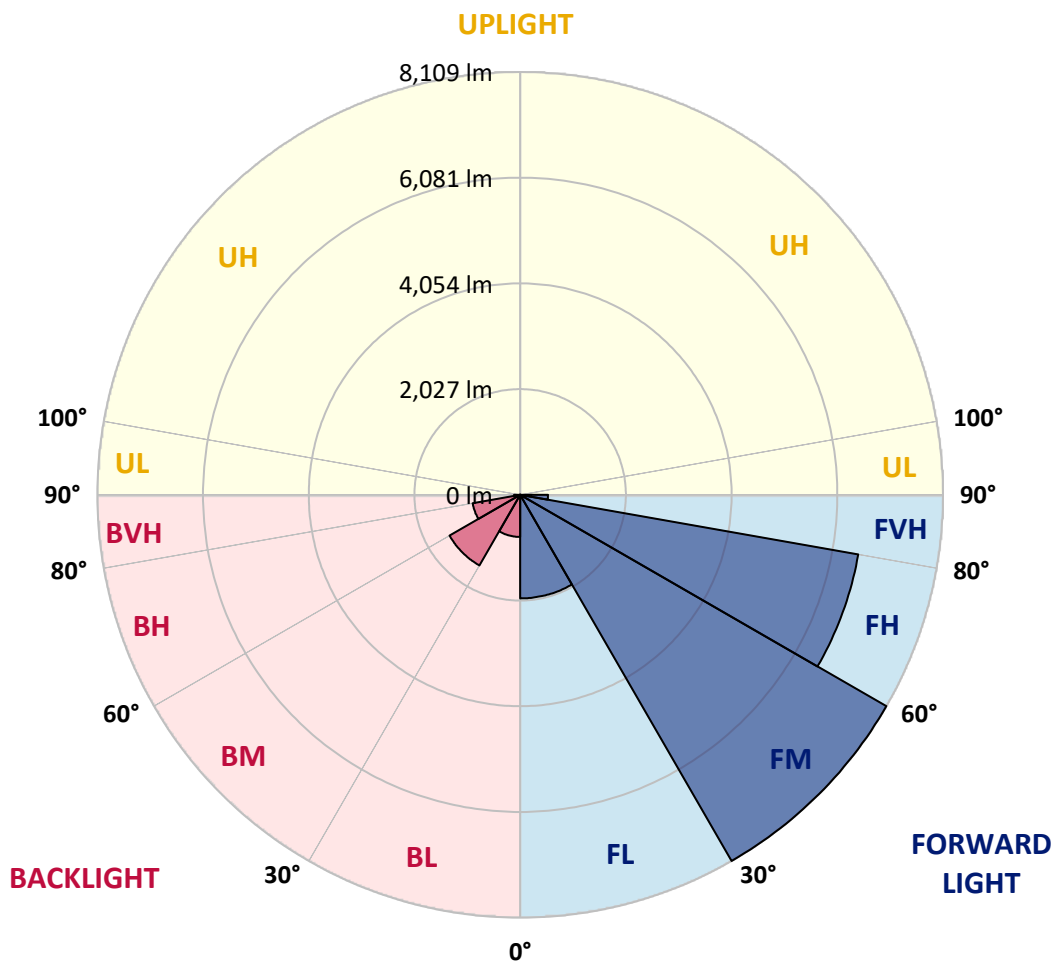
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1986.3	9.6			
FM	(30°-60°)	8108.7	39.3			
FH	(60°-80°)	6583.4	31.9			G3/7500
FVH	(80°-90°)	535.1	2.6			G4/750
BL	(0°-30°)	807.6	3.9	B2/1000		
BM	(30°-60°)	1564.0	7.6	B2/2500		
BH	(60°-80°)	925.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	116.5	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9
2.5°	7241.0	7356.7	7582.3	7751.3	7956.5	8004.2	8069.9	8005.3	7890.8	7738.8	7688.9
5°	6809.0	7056.2	7603.9	8085.8	8514.4	8714.0	8769.5	8605.1	8272.9	7836.3	7569.9
7.5°	6116.2	6467.7	7209.3	7919.1	8550.7	8923.7	8914.7	8532.6	7921.4	7210.4	6783.0
10°	5518.7	5920.1	6770.5	7564.2	8234.3	8596.0	8456.6	7967.9	7238.8	6420.1	5956.3
12.5°	5184.2	5577.6	6440.5	7237.6	7797.8	7922.5	7815.9	7337.4	6650.3	5822.5	5416.6
15°	5126.3	5558.3	6309.0	6957.6	7271.7	7162.8	7035.8	6821.5	6336.2	5629.8	5206.8
17.5°	5376.9	5853.2	6459.8	6762.5	6709.3	6519.9	6483.6	6507.4	6390.6	5844.1	5356.5
20°	5857.7	6429.2	6819.2	6670.7	6281.8	6021.0	6030.0	6394.0	6739.9	6387.2	5830.5
22.5°	6532.4	7184.4	7337.4	6719.5	6101.5	5791.9	5866.8	6456.4	7296.6	7180.9	6470.0
25°	7405.5	7999.6	7889.6	6896.3	6119.6	5820.3	5880.4	6671.8	7954.3	7974.7	7261.5
27.5°	8251.3	8802.4	8353.4	7131.1	6194.5	5887.2	5966.5	7010.9	8582.4	8836.4	8166.3
30°	8911.3	9294.5	8537.1	7345.4	6341.9	6017.6	6116.2	7332.9	8868.2	9418.1	8862.5
32.5°	9457.8	9733.3	8829.6	7610.7	6612.9	6222.8	6396.3	7724.1	9279.8	9971.5	9544.0
35°	10156.3	10234.5	9193.6	7906.6	7031.3	6580.0	6795.4	8107.3	9672.1	10530.5	10215.2
37.5°	10975.0	10874.0	9537.2	8311.4	7572.1	7139.0	7317.0	8528.0	9995.3	11164.3	10901.3
40°	11784.6	11541.9	9968.1	8939.6	8361.3	7797.8	8008.7	8977.0	10296.9	11799.3	11571.4
42.5°	12472.8	12113.4	10393.3	9630.2	9096.1	8524.6	8776.3	9429.5	10584.9	12341.3	12153.1
45°	12982.0	12535.2	10798.1	10293.5	10108.7	9490.7	9609.8	9947.7	10896.7	12793.7	12631.6
47.5°	13436.6	12959.3	11256.2	10962.5	10994.2	10747.0	10555.4	10550.9	11264.1	13163.4	13084.0
50°	14045.5	13547.8	11748.3	11651.9	12323.2	12158.7	11735.8	11255.0	11729.0	13582.9	13573.8
52.5°	14884.6	14479.8	12349.2	12394.6	13563.6	13671.4	13147.5	12100.9	12457.0	14352.8	14298.4
55°	15876.8	15640.9	13167.9	13248.4	15085.3	15162.4	14642.0	13158.8	13527.4	15467.4	15316.6
57.5°	16651.2	16601.3	14066.0	14273.5	16221.5	16568.5	16090.0	14383.4	14733.8	16406.3	16027.6
60°	16959.7	17201.2	15021.8	15307.6	17272.6	17657.0	17237.5	15459.5	15803.1	16795.2	15978.8
62.5°	16793.0	17332.7	16040.1	16016.3	17507.3	17921.2	17626.4	16058.2	16595.7	16393.8	15170.4
65°	16023.1	16859.9	16630.8	15833.7	16704.5	16738.5	16643.3	15790.6	16782.8	15125.0	13607.9
67.5°	14346.0	15550.2	15853.0	14268.9	14538.8	14317.7	14157.8	14325.6	15807.6	13223.5	11436.5
70°	11684.8	13496.7	13641.9	11412.6	11290.2	11141.6	10823.0	11744.9	13883.4	10837.8	9074.6
72.5°	8591.5	10496.5	10942.1	8370.4	7803.5	7834.1	7582.3	8851.2	11287.9	8050.6	6775.0
75°	5878.1	7600.5	8560.9	5840.7	5160.4	5172.8	5141.1	6271.6	8990.6	5600.3	5069.6
77.5°	4294.1	5430.2	6456.4	3926.7	3812.2	3741.8	3724.8	4388.2	6892.9	4066.1	3936.9
80°	3445.9	4011.7	4337.1	2721.3	2926.6	2920.9	2826.8	3017.3	4501.6	2974.2	2944.7
82.5°	2390.2	3083.1	3513.9	2132.9	1975.2	1942.4	1965.0	2247.4	3181.7	2033.1	1933.3
85°	1260.9	2047.8	3479.9	1890.2	1172.4	935.5	1163.4	1840.3	2756.5	1077.2	943.4
87.5°	161.0	591.9	2304.1	754.0	462.6	249.5	552.2	1036.4	1770.0	220.0	191.6
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°	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9
2.5°	7560.8	7410.0	7212.7	7030.1	6840.8	6652.6	6406.5	6252.3	6145.7	6125.3	6079.9
5°	7377.1	6875.9	6497.2	6169.5	5872.4	5452.9	5220.4	5027.7	4924.5	4914.3	4889.4
7.5°	6530.1	5838.4	5327.0	4863.3	4442.6	4103.6	3729.4	3554.8	3483.3	3500.3	3517.3
10°	5649.1	4875.7	4288.4	3814.4	3443.6	3157.9	2857.4	2654.4	2513.8	2485.5	2479.8
12.5°	5005.0	4156.9	3586.5	3252.0	2965.1	2696.4	2377.8	2138.5	1956.0	1893.6	1851.6
15°	4732.9	3805.3	3207.8	2847.2	2530.9	2189.5	1893.6	1643.0	1475.2	1420.8	1390.2
17.5°	4790.7	3707.8	2947.0	2485.5	2080.7	1724.7	1351.6	1137.3	1036.4	1010.3	1010.3
20°	5094.6	3689.7	2731.6	2152.1	1647.5	1234.8	928.7	806.2	773.3	769.9	779.0
22.5°	5520.9	3753.2	2570.5	1863.0	1280.2	901.4	723.4	678.1	663.3	666.7	676.9
25°	6155.9	3967.5	2453.7	1605.6	1004.6	738.2	645.2	618.0	611.2	620.2	632.7
27.5°	6908.8	4181.8	2381.2	1411.7	848.2	674.7	613.4	585.1	589.6	601.0	612.3
30°	7569.9	4357.6	2266.7	1273.4	799.4	678.1	613.4	574.9	570.3	572.6	576.0
32.5°	8162.9	4476.6	2132.9	1141.8	689.4	602.1	572.6	566.9	542.0	532.9	534.1
35°	8674.3	4476.6	2052.3	1064.7	618.0	534.1	486.4	458.1	445.6	446.8	459.2
37.5°	9167.5	4387.0	2012.7	1021.6	579.4	508.0	466.0	441.1	424.1	420.7	422.9
40°	9602.9	4256.6	1967.3	1003.5	549.9	492.1	452.4	432.0	413.9	408.2	409.3
42.5°	9952.2	4151.2	1917.4	979.7	531.8	480.8	443.4	425.2	404.8	399.1	398.0
45°	10329.8	4116.0	1851.6	932.1	540.9	481.9	441.1	421.8	401.4	394.6	392.3
47.5°	10827.6	4226.0	1783.6	875.4	560.1	487.6	444.5	421.8	400.3	394.6	392.3
50°	11454.6	4484.6	1697.4	792.6	540.9	503.4	443.4	418.4	400.3	394.6	390.1
52.5°	12259.7	4833.8	1584.0	697.3	529.5	542.0	441.1	411.6	394.6	386.7	378.7
55°	13238.2	5119.5	1449.1	619.1	503.4	531.8	437.7	403.7	385.5	374.2	367.4
57.5°	13954.8	5222.7	1275.6	568.1	467.2	514.8	433.1	393.5	374.2	365.1	356.0
60°	13813.1	5023.1	1129.4	536.3	445.6	464.9	429.7	384.4	364.0	357.2	349.2
62.5°	12678.1	4501.6	1035.2	521.6	432.0	424.1	433.1	375.3	354.9	348.1	345.8
65°	10976.1	3731.6	997.8	518.2	420.7	400.3	402.5	365.1	344.7	339.0	336.8
67.5°	9054.1	3011.6	964.9	529.5	405.9	383.3	371.9	351.5	334.5	328.8	324.3
70°	7140.1	2504.8	950.2	522.7	387.8	366.2	353.8	336.8	322.0	316.4	313.0
72.5°	5750.0	2115.8	942.3	515.9	364.0	343.6	332.2	317.5	301.6	299.3	295.9
75°	4865.5	1663.4	862.9	494.4	336.8	316.4	308.4	294.8	278.9	278.9	276.7
77.5°	3753.2	1203.1	717.8	437.7	308.4	285.7	278.9	268.7	250.6	254.0	252.9
80°	2772.4	784.7	561.3	362.8	273.3	251.7	248.3	238.1	218.8	223.4	223.4
82.5°	1899.3	514.8	403.7	297.1	233.6	213.2	213.2	203.0	181.4	183.7	190.5
85°	953.6	353.8	301.6	230.2	181.4	171.2	171.2	163.3	141.7	142.9	151.9
87.5°	290.3	213.2	199.6	164.4	130.4	128.1	122.5	116.8	103.2	102.1	107.7
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°	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9
2.5°	6010.8	5946.1	5867.9	5695.5	5637.7	5634.3	5686.5	5632.1	5736.4	5692.1	5740.9
5°	4847.4	4783.9	4696.6	4476.6	4342.8	4252.1	4209.0	4082.0	4173.9	4107.0	4162.5
7.5°	3565.0	3579.7	3521.9	3392.6	3101.2	2954.9	2868.8	2791.6	2858.5	2851.7	2958.3
10°	2505.9	2545.6	2504.8	2374.4	2138.5	2058.0	2073.9	2104.5	2191.8	2237.2	2401.6
12.5°	1804.0	1801.8	1775.7	1658.9	1503.5	1512.6	1577.2	1630.5	1711.0	1758.7	1926.5
15°	1347.1	1326.7	1315.3	1220.1	1131.6	1150.9	1182.7	1188.3	1239.3	1267.7	1403.8
17.5°	1018.2	1028.4	1040.9	972.9	906.0	893.5	868.6	837.9	852.7	858.4	926.4
20°	808.5	849.3	879.9	832.3	764.2	728.0	696.2	675.8	675.8	674.7	693.9
22.5°	706.4	735.9	768.8	735.9	674.7	642.9	624.8	608.9	606.6	606.6	624.8
25°	650.9	672.4	704.1	681.5	636.1	612.3	595.3	574.9	566.9	564.7	577.2
27.5°	623.6	632.7	648.6	628.2	589.6	578.3	573.8	555.6	545.4	539.7	552.2
30°	577.2	574.9	576.0	555.6	525.0	523.9	531.8	535.2	531.8	530.7	549.9
32.5°	534.1	529.5	528.4	510.3	481.9	475.1	481.9	488.7	496.6	508.0	530.7
35°	479.6	491.0	497.8	481.9	447.9	427.5	419.5	407.1	400.3	400.3	426.3
37.5°	436.5	462.6	472.8	458.1	420.7	392.3	378.7	376.5	377.6	382.1	407.1
40°	421.8	441.1	450.2	435.4	398.0	371.9	364.0	361.7	364.0	370.8	395.7
42.5°	412.7	426.3	425.2	407.1	376.5	358.3	353.8	351.5	353.8	360.6	387.8
45°	404.8	413.9	404.8	383.3	354.9	345.8	347.0	345.8	348.1	354.9	381.0
47.5°	398.0	401.4	390.1	368.5	339.0	336.8	341.3	344.7	347.0	352.6	379.9
50°	387.8	387.8	377.6	354.9	325.4	326.6	332.2	340.2	341.3	348.1	369.6
52.5°	375.3	374.2	367.4	345.8	314.1	317.5	317.5	326.6	328.8	336.8	359.4
55°	365.1	362.8	359.4	339.0	303.9	309.6	306.2	309.6	315.2	323.2	348.1
57.5°	356.0	351.5	351.5	333.4	295.9	298.2	290.3	294.8	301.6	308.4	334.5
60°	347.0	342.4	344.7	325.4	283.5	281.2	277.8	286.9	289.1	297.1	323.2
62.5°	336.8	333.4	334.5	316.4	274.4	268.7	268.7	276.7	277.8	289.1	314.1
65°	328.8	324.3	323.2	307.3	264.2	257.4	260.8	264.2	266.5	277.8	301.6
67.5°	320.9	311.8	311.8	299.3	252.9	246.1	252.9	251.7	255.1	265.3	284.6
70°	310.7	298.2	299.3	293.7	241.5	233.6	239.3	238.1	240.4	247.2	266.5
72.5°	294.8	284.6	286.9	284.6	230.2	218.8	221.1	221.1	221.1	226.8	247.2
75°	274.4	266.5	273.3	278.9	216.6	200.7	203.0	203.0	199.6	203.0	227.9
77.5°	249.5	244.9	267.6	259.7	200.7	181.4	181.4	179.2	172.4	176.9	204.1
80°	222.2	218.8	247.2	217.7	182.6	157.6	155.3	149.7	142.9	146.3	173.5
82.5°	193.9	190.5	207.5	166.7	157.6	130.4	124.7	114.5	107.7	111.1	136.1
85°	158.7	158.7	159.9	125.9	120.2	99.8	93.0	79.4	71.4	73.7	97.5
87.5°	113.4	116.8	107.7	86.2	71.4	55.6	51.0	43.1	36.3	42.0	51.0
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9	6968.9
2.5°	5990.4	6115.1	6256.8	6438.2	6593.6	6848.7	7093.6	7241.0
5°	4478.9	4686.4	4944.9	5277.1	5586.7	6051.6	6513.1	6809.0
7.5°	3205.5	3427.8	3706.7	4121.7	4559.4	5152.4	5762.4	6116.2
10°	2652.2	2880.1	3114.8	3394.9	3753.2	4398.4	5119.5	5518.7
12.5°	2194.1	2437.9	2690.7	2985.5	3317.8	3893.8	4724.9	5184.2
15°	1679.3	1951.4	2249.6	2622.7	3038.8	3704.4	4627.4	5126.3
17.5°	1150.9	1454.8	1821.0	2281.4	2790.5	3643.2	4802.0	5376.9
20°	792.6	1013.7	1404.9	1944.6	2556.9	3635.3	5137.7	5857.7
22.5°	663.3	762.0	1047.7	1635.1	2381.2	3732.8	5658.1	6532.4
25°	613.4	672.4	836.8	1366.3	2253.0	3957.3	6374.8	7405.5
27.5°	584.0	637.2	759.7	1190.6	2152.1	4218.1	7072.1	8251.3
30°	595.3	649.7	738.2	1101.0	2014.9	4435.8	7691.2	8911.3
32.5°	536.3	560.1	632.7	1021.6	1916.3	4618.3	8233.2	9457.8
35°	457.0	498.9	564.7	984.2	1918.5	4740.8	8824.0	10156.3
37.5°	435.4	477.4	525.0	970.6	1944.6	4871.2	9502.0	10975.0
40°	421.8	460.4	501.2	962.7	1969.6	4990.3	10166.5	11784.6
42.5°	412.7	447.9	498.9	935.5	1982.0	5096.9	10713.0	12472.8
45°	411.6	447.9	508.0	908.2	2001.3	5211.4	11171.1	12982.0
47.5°	412.7	462.6	491.0	875.4	2001.3	5403.0	11708.6	13436.6
50°	408.2	487.6	472.8	828.9	1954.8	5765.9	12445.6	14045.5
52.5°	405.9	484.2	437.7	757.4	1874.3	6341.9	13390.2	14884.6
55°	400.3	467.2	412.7	650.9	1780.2	6970.0	14401.6	15876.8
57.5°	394.6	413.9	399.1	557.9	1635.1	7412.3	15097.8	16651.2
60°	442.2	361.7	387.8	512.5	1441.2	7533.6	15070.6	16959.7
62.5°	409.3	339.0	373.1	502.3	1305.1	7193.4	14374.4	16793.0
65°	320.9	324.3	358.3	531.8	1268.8	6292.0	13140.7	16023.1
67.5°	293.7	309.6	343.6	569.2	1272.2	5037.9	11297.0	14346.0
70°	276.7	293.7	326.6	588.5	1281.3	3755.5	8931.7	11684.8
72.5°	257.4	272.1	307.3	591.9	1222.3	2728.1	6883.9	8591.5
75°	234.7	248.3	280.1	515.9	1012.6	1892.5	5265.8	5878.1
77.5°	208.6	218.8	246.1	398.0	751.8	1211.0	3952.8	4294.1
80°	178.0	183.7	206.4	291.4	514.8	757.4	3127.3	3445.9
82.5°	142.9	145.1	159.9	218.8	334.5	486.4	2094.3	2390.2
85°	100.9	100.9	110.0	158.7	227.9	308.4	1137.3	1260.9
87.5°	47.6	48.8	48.8	87.3	119.1	156.5	261.9	161.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)