

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: P298940

Luminaire Tested: **GLNA-AF-05-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-05-LED-E1-SLL-7030-800  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Left OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20363.9 lumens  
Efficiency: N/A  
Efficacy: 97.0 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): 210  
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

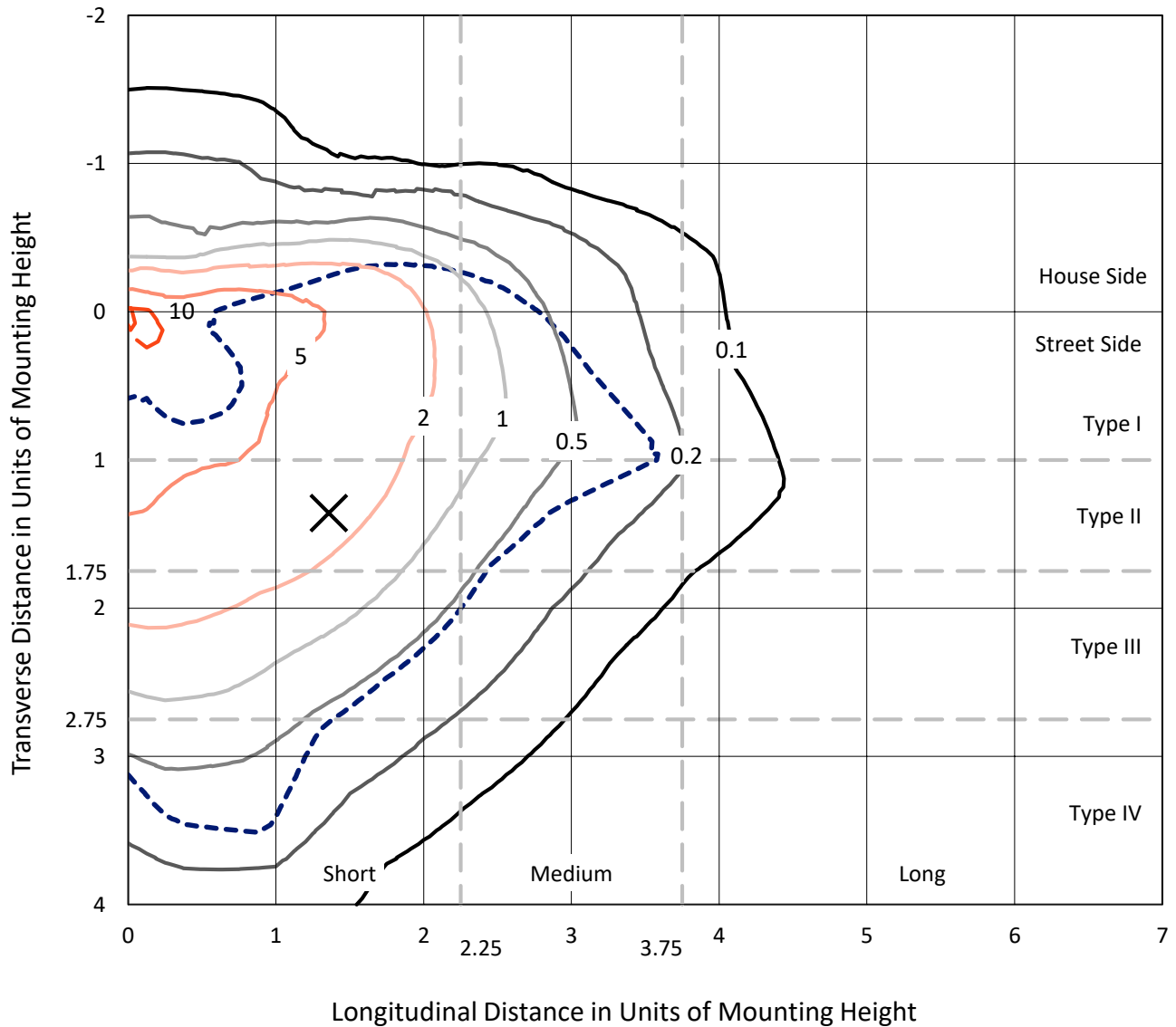


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### Iso-Footcandle Lines of Horizontal Illumination

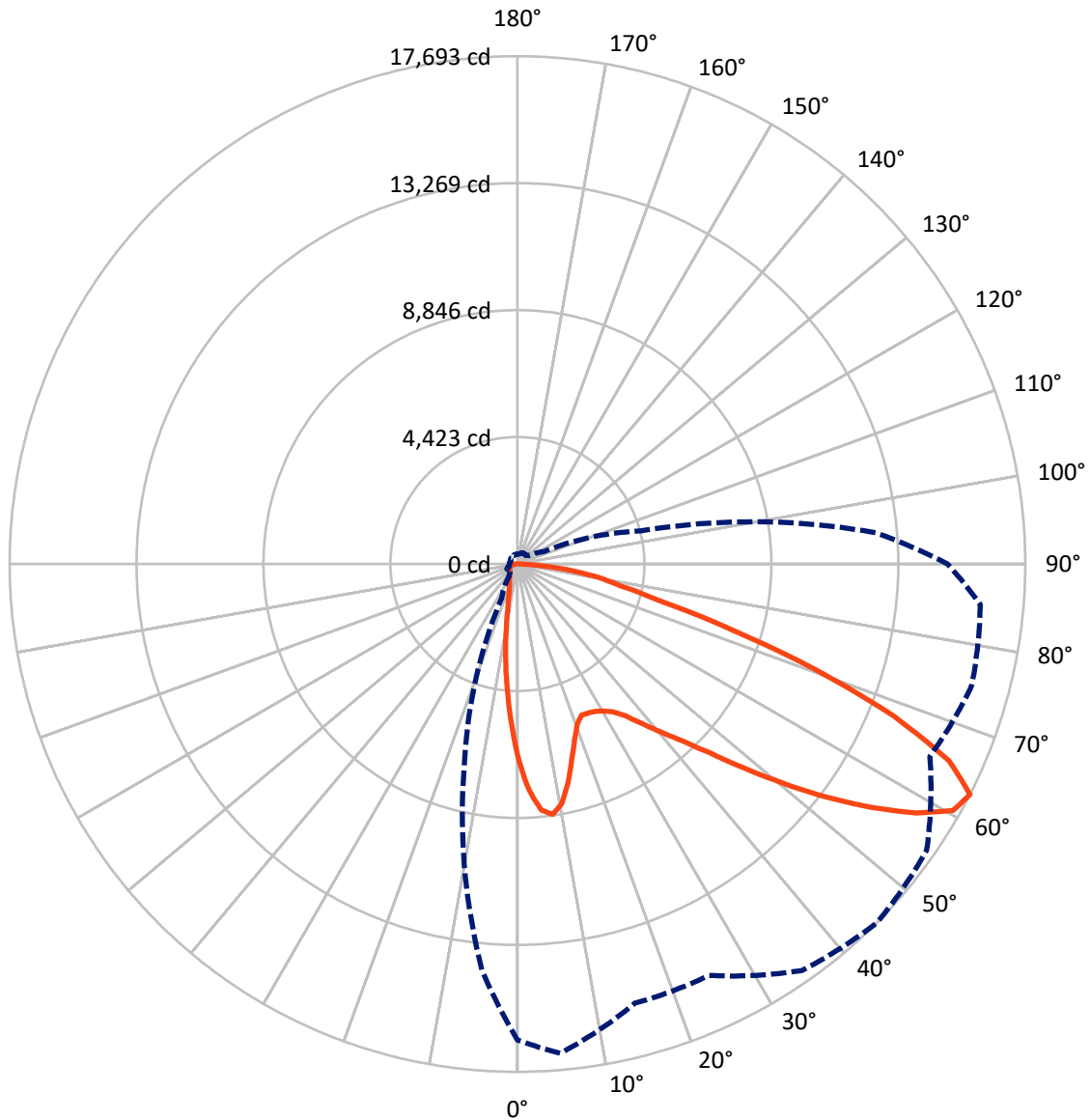
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	3369.9	0.0	3369.9
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	16994.0	0.0	16994.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	20363.9	0.0	20363.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.8	2.5
10°-20°	918.4	4.5
20°-30°	1339.0	6.6
30°-40°	2062.3	10.1
40°-50°	3035.1	14.9
50°-60°	4451.9	21.9
60°-70°	4976.6	24.4
70°-80°	2436.4	12.0
80°-90°	643.3	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°	20363.9	100.0
0°-180°	20363.9	100.0

**Coefficient of Utilization**



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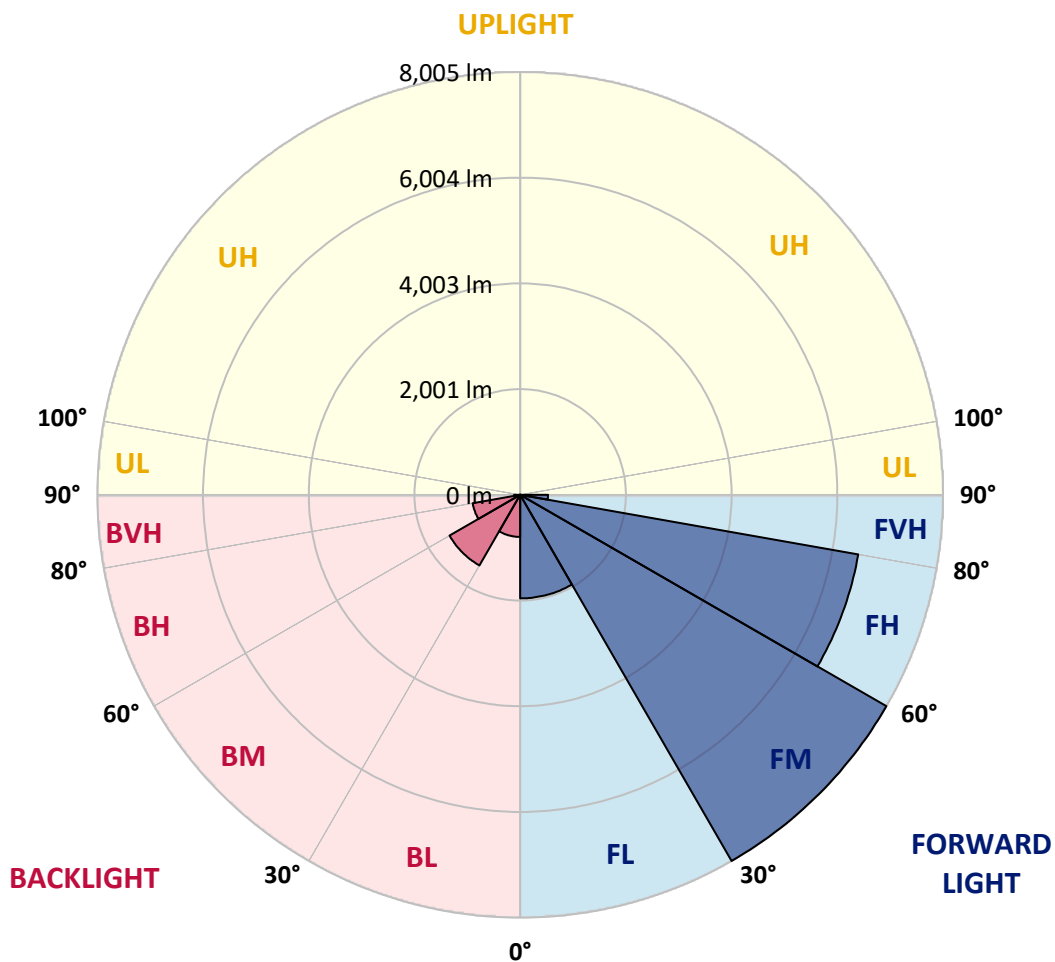
CATALOG NUMBER: GLNA-AF-05-LED-E1-SLL-7030-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1961.0	9.6			
FM	(30°-60°)	8005.3	39.3			
FH	(60°-80°)	6499.5	31.9			G3/7500
FVH	(80°-90°)	528.3	2.6			G4/750
BL	(0°-30°)	797.3	3.9	B2/1000		
BM	(30°-60°)	1544.1	7.6	B2/2500		
BH	(60°-80°)	913.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	115.0	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°	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3
2.5°	7148.4	7262.9	7485.7	7652.1	7855.3	7902.1	7967.2	7903.2	7790.2	7640.1	7591.1
5°	6722.2	6966.4	7506.8	7982.8	8405.8	8602.8	8658.0	8495.2	8167.4	7736.4	7473.3
7.5°	6038.3	6385.3	7117.2	7818.2	8441.4	8809.9	8800.8	8423.6	7820.4	7118.3	6696.4
10°	5448.1	5844.6	6684.4	7467.9	8129.3	8486.5	8348.4	7866.5	7146.3	6338.1	5880.5
12.5°	5118.1	5506.6	6358.4	7145.2	7698.3	7821.5	7716.1	7243.7	6565.2	5748.3	5347.4
15°	5060.7	5487.7	6228.7	6869.0	7179.0	7071.8	6946.0	6734.5	6255.2	5557.8	5140.3
17.5°	5308.5	5778.4	6377.7	6676.4	6623.7	6436.5	6400.9	6424.5	6309.4	5769.3	5288.2
20°	5783.1	6347.1	6732.3	6585.9	6201.8	5944.1	5953.2	6312.6	6653.9	6305.7	5755.9
22.5°	6448.9	7092.8	7243.7	6633.9	6023.7	5718.1	5792.2	6374.4	7203.7	7089.6	6387.5
25°	7310.9	7897.8	7789.1	6808.3	6041.5	5746.1	5805.3	6587.0	7852.7	7873.1	7169.2
27.5°	8146.0	8690.3	8246.6	7040.1	6115.7	5812.2	5890.7	6921.3	8473.0	8723.8	8062.4
30°	8797.6	9176.2	8428.0	7251.6	6261.0	5940.9	6038.3	7239.3	8755.4	9298.0	8749.6
32.5°	9337.2	9609.0	8716.9	7513.7	6528.5	6143.3	6314.8	7625.6	9161.7	9844.5	9422.2
35°	10026.6	10104.0	9076.3	7805.8	6941.7	6496.1	6708.7	8003.9	9549.1	10396.1	10085.1
37.5°	10835.1	10735.6	9415.3	8205.6	7475.9	7047.8	7223.7	8419.3	9867.8	11021.9	10762.1
40°	11634.3	11394.4	9841.2	8825.5	8255.0	7698.3	7906.5	8862.6	10165.8	11648.8	11423.8
42.5°	12313.8	11958.8	10260.6	9507.3	8980.0	8416.0	8664.5	9309.2	10449.9	12183.7	11998.0
45°	12816.4	12375.2	10660.3	10162.1	9979.7	9369.5	9487.3	9820.5	10757.7	12630.7	12470.4
47.5°	13265.2	12793.9	11112.4	10822.8	10854.0	10609.8	10420.5	10416.1	11120.8	12995.5	12917.1
50°	13866.3	13374.9	11598.3	11503.1	12165.9	12003.5	11585.9	11111.3	11579.4	13409.8	13400.7
52.5°	14694.8	14295.4	12191.7	12236.4	13390.9	13497.0	12979.6	11946.8	12297.8	14169.7	14116.3
55°	15674.5	15441.2	13000.3	13079.5	14892.9	14969.2	14455.0	12990.8	13355.0	15270.4	15121.4
57.5°	16438.8	16389.7	13886.6	14091.6	16014.7	16357.4	15884.9	14200.2	14545.8	16197.1	15823.2
60°	16743.3	16981.7	14830.4	15112.4	17052.5	17431.6	17017.7	15262.1	15601.5	16581.2	15775.2
62.5°	16579.0	17111.4	15835.5	15811.9	17284.0	17692.5	17401.4	15853.3	16384.3	16184.7	14977.2
65°	15818.8	16644.8	16418.8	15631.7	16491.5	16524.9	16430.8	15589.1	16568.9	14932.1	13434.2
67.5°	14162.8	15351.8	15650.6	14087.2	14353.2	14135.2	13977.1	14142.8	15605.9	13054.8	11290.5
70°	11535.8	13324.8	13467.6	11267.2	11146.2	10999.4	10685.1	11595.0	13706.4	10699.6	8958.9
72.5°	8482.1	10362.7	10802.4	8263.7	7704.1	7733.9	7485.7	8738.0	11144.0	7947.9	6688.7
75°	5803.1	7503.5	8452.0	5766.1	5094.9	5106.9	5075.2	6191.6	8876.0	5528.8	5005.1
77.5°	4239.4	5360.9	6374.4	3876.4	3763.4	3694.0	3677.2	4332.1	6805.0	4014.5	3886.6
80°	3401.8	3960.7	4281.6	2686.6	2889.0	2883.6	2790.5	2978.8	4444.0	2936.3	2906.8
82.5°	2359.9	3043.8	3469.0	2105.5	1950.0	1917.3	1940.2	2218.6	3141.2	2007.1	1908.6
85°	1245.0	2021.6	3435.6	1866.1	1157.4	923.4	1148.7	1816.6	2721.5	1063.7	931.0
87.5°	159.2	584.3	2274.5	744.6	456.8	246.0	545.5	1023.0	1747.6	216.9	189.3
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°	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3
2.5°	7464.6	7315.6	7120.8	6940.2	6753.4	6567.4	6324.6	6172.4	6067.3	6047.0	6002.6
5°	7283.3	6788.3	6414.4	6090.9	5797.7	5383.0	5153.7	4963.3	4861.6	4851.8	4827.0
7.5°	6446.7	5763.9	5259.1	4801.2	4385.9	4051.2	3681.6	3509.7	3438.9	3455.6	3472.3
10°	5576.7	4813.6	4233.6	3765.6	3399.6	3117.6	2821.1	2620.8	2481.7	2453.7	2448.2
12.5°	4941.2	4103.9	3541.0	3210.3	2927.6	2661.9	2347.6	2111.0	1931.1	1869.3	1828.3
15°	4672.2	3756.8	3167.0	2810.9	2498.4	2161.5	1869.3	1621.9	1456.5	1402.7	1372.6
17.5°	4729.7	3660.5	2909.4	2453.7	2054.3	1702.5	1334.4	1122.5	1023.0	997.5	997.5
20°	5029.8	3642.7	2696.4	2124.8	1626.2	1218.8	916.9	795.8	763.5	760.2	769.0
22.5°	5450.6	3705.6	2538.0	1839.5	1263.9	890.0	714.1	669.4	654.8	658.5	668.3
25°	6077.5	3917.1	2422.8	1585.2	991.7	728.6	636.7	610.1	603.2	612.3	624.7
27.5°	6820.7	4128.6	2350.8	1393.6	837.3	666.1	605.4	577.8	582.2	593.4	604.3
30°	7473.3	4302.3	2237.8	1257.4	789.3	669.4	605.4	567.6	563.3	565.5	568.7
32.5°	8059.1	4419.7	2105.5	1127.3	680.6	594.5	565.5	560.0	534.9	525.8	527.3
35°	8563.9	4419.7	2026.3	1051.3	610.1	527.3	480.4	452.4	439.7	440.8	453.5
37.5°	9050.8	4331.0	1987.1	1008.4	572.0	501.5	460.1	435.4	418.6	415.4	417.5
40°	9480.4	4202.4	1942.4	990.6	542.9	485.9	447.0	426.3	408.5	403.0	404.1
42.5°	9825.2	4098.1	1893.0	967.4	524.7	474.6	437.5	419.7	399.7	393.9	392.8
45°	10198.1	4063.5	1828.3	920.1	533.8	475.7	435.4	416.5	396.1	389.6	387.4
47.5°	10689.4	4172.2	1761.0	864.2	553.1	481.5	438.6	416.5	395.0	389.6	387.4
50°	11308.3	4427.3	1675.6	782.4	533.8	497.1	437.5	412.8	395.0	389.6	385.2
52.5°	12103.4	4772.2	1564.1	688.6	522.6	534.9	435.4	406.3	389.6	381.9	373.9
55°	13069.3	5054.2	1430.3	611.2	497.1	524.7	432.1	398.6	380.8	369.6	362.7
57.5°	13776.9	5155.9	1259.5	561.1	461.2	508.0	427.4	388.5	369.6	360.5	351.8
60°	13637.0	4959.0	1114.9	529.5	439.7	459.0	424.1	379.4	359.4	352.9	344.5
62.5°	12516.6	4444.0	1021.9	514.9	426.3	418.6	427.4	370.7	350.7	343.4	341.2
65°	10836.2	3683.8	985.2	511.7	415.4	395.0	397.6	360.5	340.1	334.7	332.5
67.5°	8938.6	2973.3	952.8	522.6	400.8	378.3	367.4	347.0	330.0	324.5	320.2
70°	7048.9	2472.9	937.9	516.0	383.0	361.6	349.6	332.5	318.0	312.2	308.9
72.5°	5676.3	2088.8	929.9	509.1	359.4	339.1	327.8	313.3	297.6	295.4	292.2
75°	4803.8	1642.2	852.2	488.0	332.5	312.2	304.5	291.1	275.5	275.5	273.3
77.5°	3705.6	1187.6	708.6	432.1	304.5	282.0	275.5	265.3	247.5	250.7	249.7
80°	2737.1	774.8	554.2	358.3	270.0	248.6	244.9	235.1	215.9	220.6	220.6
82.5°	1875.1	508.0	398.6	293.3	230.4	210.4	210.4	200.2	179.2	181.3	188.2
85°	941.6	349.6	297.6	227.1	179.2	169.0	169.0	161.3	139.9	141.0	150.1
87.5°	286.7	210.4	197.0	162.4	128.6	126.5	120.6	115.2	101.8	100.7	106.5
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°	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3
2.5°	5934.0	5870.0	5793.3	5622.9	5565.8	5562.2	5614.2	5560.0	5663.2	5619.6	5667.6
5°	4785.3	4723.1	4636.6	4419.7	4287.4	4197.6	4155.5	4030.1	4120.6	4054.5	4109.7
7.5°	3519.5	3534.1	3477.0	3349.5	3061.6	2917.4	2832.3	2756.0	2822.2	2815.3	2920.6
10°	2474.0	2512.9	2472.9	2344.3	2111.0	2031.8	2047.4	2077.6	2164.0	2208.4	2370.8
12.5°	1781.0	1778.8	1753.0	1637.8	1484.5	1493.2	1557.2	1609.5	1689.1	1736.3	1901.7
15°	1329.7	1309.7	1298.4	1204.3	1117.1	1136.4	1167.6	1173.1	1223.6	1251.5	1386.0
17.5°	1005.2	1015.3	1027.3	960.5	894.3	882.0	857.6	827.1	842.0	847.4	914.3
20°	798.0	838.4	868.9	821.6	754.8	718.4	687.2	667.2	667.2	666.1	685.0
22.5°	697.4	726.4	759.1	726.4	666.1	634.5	616.7	601.1	598.9	598.9	616.7
25°	642.9	663.9	695.2	673.0	628.0	604.3	587.6	567.6	560.0	557.5	569.8
27.5°	615.6	624.7	640.3	620.0	582.2	570.9	566.5	548.7	538.2	532.7	545.5
30°	569.8	567.6	568.7	548.7	518.2	517.1	524.7	528.4	524.7	523.7	542.9
32.5°	527.3	522.6	521.5	503.7	475.7	469.1	475.7	482.6	490.2	501.5	523.7
35°	473.5	484.8	491.3	475.7	441.9	421.9	414.3	401.9	395.0	395.0	420.8
37.5°	431.0	456.8	467.0	452.4	415.4	387.4	373.9	371.8	372.8	377.2	401.9
40°	416.5	435.4	444.1	429.9	392.8	367.4	359.4	357.2	359.4	366.3	390.7
42.5°	407.4	420.8	419.7	401.9	371.8	354.0	349.6	347.0	349.6	356.1	383.0
45°	399.7	408.5	399.7	378.3	350.7	341.2	342.3	341.2	343.4	350.7	376.1
47.5°	392.8	396.1	385.2	363.8	334.7	332.5	336.9	340.1	342.3	348.5	375.0
50°	383.0	383.0	372.8	350.7	321.2	322.3	327.8	335.8	336.9	343.4	365.2
52.5°	370.7	369.6	362.7	341.2	310.0	313.3	313.3	322.3	324.5	332.5	355.0
55°	360.5	358.3	355.0	334.7	300.2	305.6	302.3	305.6	311.1	319.1	343.4
57.5°	351.8	347.0	347.0	328.9	292.2	294.4	286.7	291.1	297.6	304.5	330.0
60°	342.3	338.0	340.1	321.2	279.8	277.6	274.4	283.1	285.6	293.3	319.1
62.5°	332.5	328.9	330.0	312.2	271.1	265.3	265.3	273.3	274.4	285.6	310.0
65°	324.5	320.2	319.1	303.4	260.9	254.4	257.7	260.9	263.1	274.4	297.6
67.5°	316.9	307.8	307.8	295.4	249.7	242.8	249.7	248.6	252.2	262.0	280.9
70°	306.7	294.4	295.4	290.0	238.4	230.4	236.2	235.1	237.3	243.8	263.1
72.5°	291.1	280.9	283.1	280.9	227.1	215.9	218.0	218.0	218.0	223.9	243.8
75°	271.1	263.1	270.0	275.5	213.7	198.1	200.2	200.2	197.0	200.2	224.9
77.5°	246.0	241.7	264.2	256.6	198.1	179.2	179.2	177.0	170.4	174.8	201.3
80°	219.5	215.9	243.8	214.8	180.2	155.9	153.4	147.5	141.0	144.3	171.5
82.5°	191.5	188.2	205.0	164.6	155.9	128.6	123.2	113.0	106.5	109.7	134.1
85°	157.0	157.0	158.1	124.3	118.5	98.5	91.9	78.5	70.5	72.7	96.3
87.5°	111.9	115.2	106.5	85.0	70.5	54.9	50.5	42.5	35.6	41.4	50.5
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3	6880.3
2.5°	5914.0	6037.2	6177.1	6355.9	6509.6	6761.1	7003.1	7148.4
5°	4421.9	4626.8	4881.6	5210.1	5515.7	5974.3	6430.0	6722.2
7.5°	3164.5	3384.0	3659.4	4069.0	4501.4	5086.5	5689.0	6038.3
10°	2618.7	2843.6	3075.1	3351.6	3705.6	4342.3	5054.2	5448.1
12.5°	2166.2	2406.8	2656.5	2947.5	3275.3	3844.0	4664.6	5118.1
15°	1657.8	1926.4	2220.7	2589.2	2999.9	3657.3	4568.3	5060.7
17.5°	1136.4	1436.5	1797.7	2252.4	2754.9	3596.6	4740.9	5308.5
20°	782.4	1000.8	1387.1	1919.8	2524.5	3588.9	5072.0	5783.1
22.5°	654.8	752.2	1034.2	1614.2	2350.8	3685.2	5586.2	6448.9
25°	605.4	663.9	826.0	1348.9	2224.4	3906.9	6293.7	7310.9
27.5°	576.7	629.0	750.1	1175.6	2124.8	4164.2	6982.0	8146.0
30°	587.6	641.4	728.6	1086.9	1989.3	4379.0	7593.2	8797.6
32.5°	529.5	553.1	624.7	1008.4	1891.9	4559.2	8128.2	9337.2
35°	451.3	492.4	557.5	971.7	1894.0	4680.2	8711.4	10026.6
37.5°	429.9	471.3	518.2	958.3	1919.8	4809.2	9380.8	10835.1
40°	416.5	454.6	495.0	950.7	1944.6	4926.6	10037.1	11634.3
42.5°	407.4	441.9	492.4	923.4	1956.9	5032.0	10576.4	12313.8
45°	406.3	441.9	501.5	896.5	1975.8	5145.0	11028.8	12816.4
47.5°	407.4	456.8	484.8	864.2	1975.8	5334.0	11559.4	13265.2
50°	403.0	481.5	467.0	818.4	1930.0	5692.3	12286.9	13866.3
52.5°	400.8	478.2	432.1	747.9	1850.4	6261.0	13219.4	14694.8
55°	395.0	461.2	407.4	642.9	1757.8	6881.3	14218.0	15674.5
57.5°	389.6	408.5	393.9	550.9	1614.2	7317.8	14905.2	16438.8
60°	436.4	357.2	383.0	505.9	1422.7	7437.3	14878.7	16743.3
62.5°	404.1	334.7	368.5	496.0	1288.6	7101.6	14191.1	16579.0
65°	316.9	320.2	354.0	524.7	1252.6	6212.0	12973.0	15818.8
67.5°	290.0	305.6	339.1	562.2	1256.3	4973.5	11153.1	14162.8
70°	273.3	290.0	322.3	581.1	1265.0	3707.8	8817.5	11535.8
72.5°	254.4	268.9	303.4	584.3	1206.5	2693.2	6796.3	8482.1
75°	231.5	244.9	276.5	509.1	999.7	1868.2	5198.8	5803.1
77.5°	206.0	215.9	242.8	392.8	742.4	1195.6	3902.2	4239.4
80°	175.9	181.3	203.9	287.8	508.0	747.9	3087.4	3401.8
82.5°	141.0	143.2	158.1	215.9	330.0	480.4	2067.7	2359.9
85°	99.6	99.6	108.7	157.0	224.9	304.5	1122.5	1245.0
87.5°	46.9	48.0	48.0	86.1	117.4	154.8	258.7	159.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)