

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: P298922

Luminaire Tested: **GLNA-AF-02-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298922  
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-02-LED-E1-SLL-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 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: 8336 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 85  
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

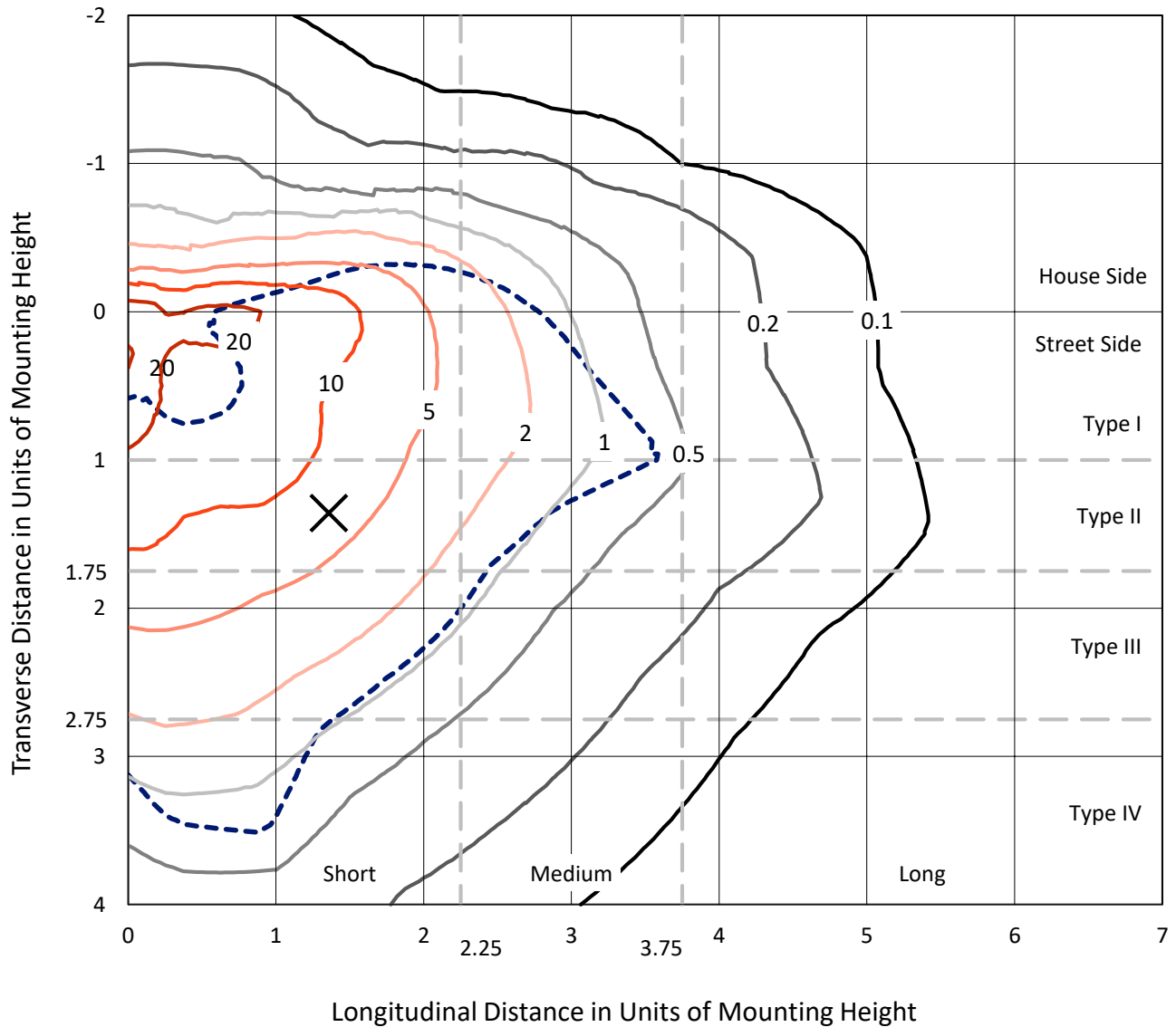


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

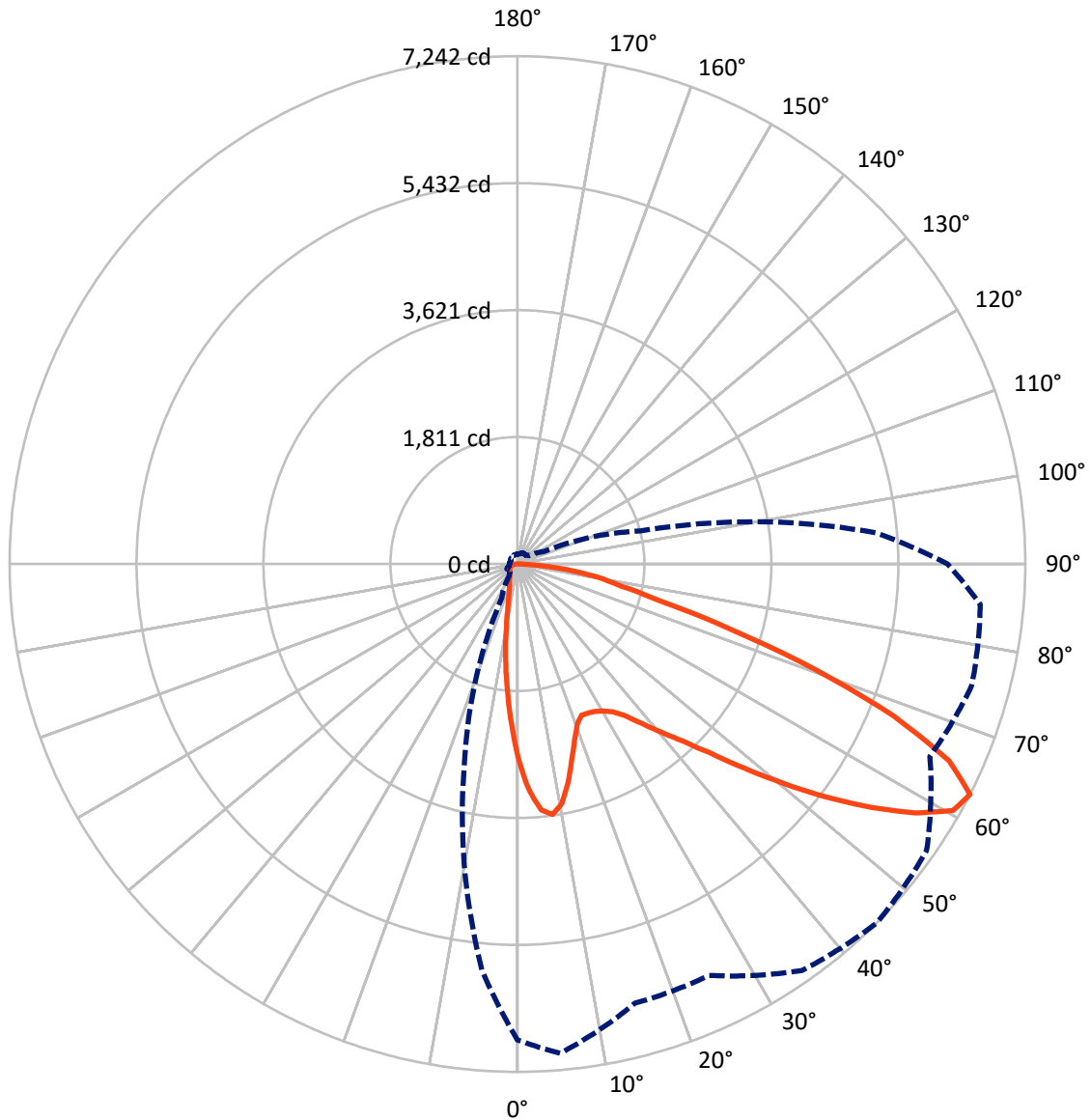


Based on 10 foot mounting height. Maximum calculated value = 33.1 fc  
 Type IV - Short - Non-Cutoff

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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	1379.5	0.0	1379.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	6956.5	0.0	6956.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	8336.0	0.0	8336.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.0	2.5
10°-20°	375.9	4.5
20°-30°	548.1	6.6
30°-40°	844.2	10.1
40°-50°	1242.4	14.9
50°-60°	1822.4	21.9
60°-70°	2037.2	24.4
70°-80°	997.4	12.0
80°-90°	263.3	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°	8336.0	100.0
0°-180°	8336.0	100.0



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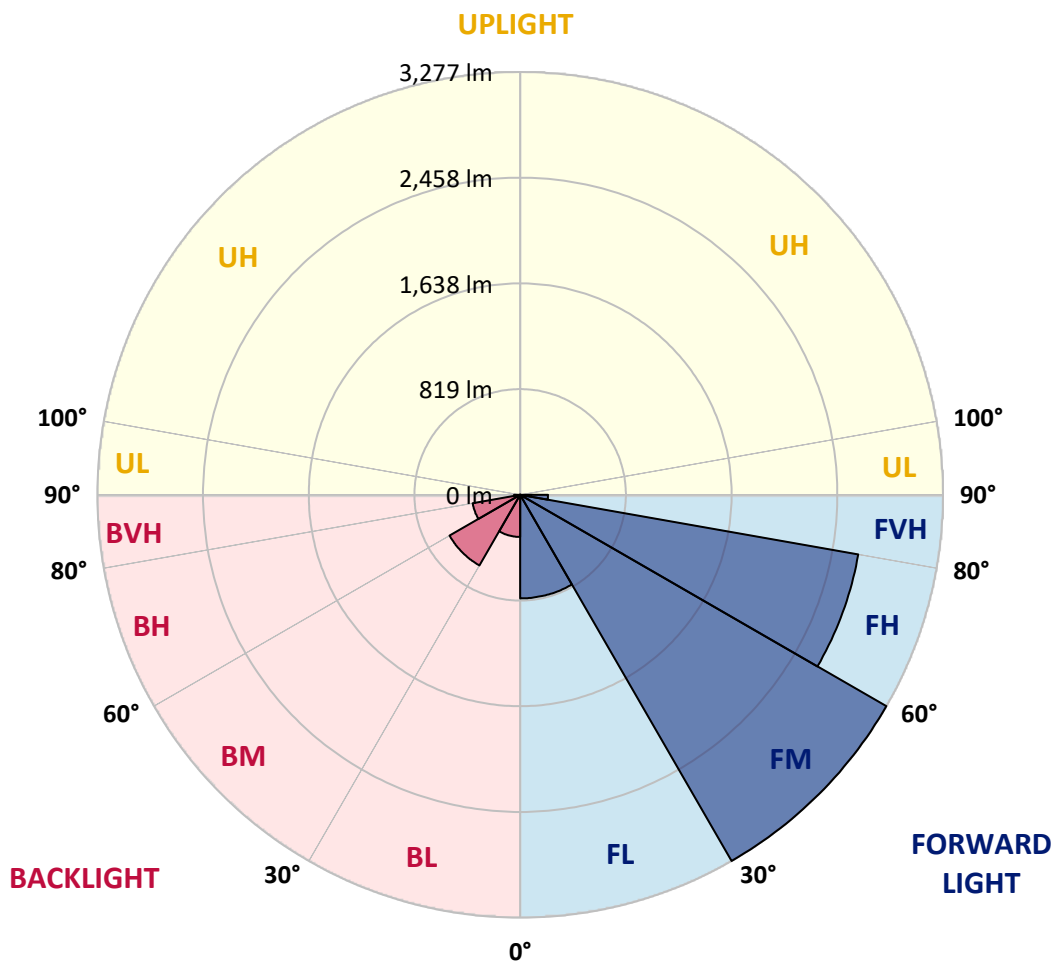
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	802.7	9.6			
FM (30°-60°)	3277.0	39.3			
FH (60°-80°)	2660.6	31.9			G2/5000
FVH (80°-90°)	216.3	2.6			G2/225
BL (0°-30°)	326.4	3.9	B1/500		
BM (30°-60°)	632.1	7.6	B1/1000		
BH (60°-80°)	374.0	4.5	B1/500		G1/500
BVH (80°-90°)	47.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	2926.2	2973.1	3064.3	3132.4	3215.6	3234.7	3261.4	3235.2	3188.9	3127.5	3107.4
5°	2751.7	2851.7	3072.9	3267.8	3440.9	3521.6	3544.2	3477.5	3343.3	3166.9	3059.2
7.5°	2471.8	2613.8	2913.4	3200.4	3455.5	3606.3	3602.6	3448.2	3201.3	2913.9	2741.2
10°	2230.2	2392.5	2736.3	3057.0	3327.7	3473.9	3417.4	3220.2	2925.3	2594.5	2407.2
12.5°	2095.1	2254.1	2602.8	2924.9	3151.3	3201.7	3158.6	2965.2	2687.5	2353.1	2189.0
15°	2071.6	2246.4	2549.7	2811.8	2938.7	2894.8	2843.4	2756.8	2560.6	2275.1	2104.2
17.5°	2173.1	2365.4	2610.7	2733.0	2711.4	2634.8	2620.2	2629.9	2582.7	2361.7	2164.7
20°	2367.3	2598.2	2755.9	2695.9	2538.7	2433.2	2437.0	2584.1	2723.8	2581.3	2356.2
22.5°	2639.9	2903.5	2965.2	2715.6	2465.8	2340.7	2371.1	2609.4	2948.8	2902.1	2614.7
25°	2992.7	3233.0	3188.5	2787.0	2473.1	2352.2	2376.4	2696.4	3214.5	3222.8	2934.7
27.5°	3334.6	3557.4	3375.8	2881.9	2503.5	2379.2	2411.4	2833.2	3468.4	3571.1	3300.3
30°	3601.3	3756.3	3450.0	2968.5	2563.0	2431.9	2471.8	2963.4	3584.0	3806.1	3581.7
32.5°	3822.2	3933.5	3568.3	3075.7	2672.4	2514.8	2585.0	3121.5	3750.3	4029.9	3857.0
35°	4104.4	4136.1	3715.4	3195.3	2841.6	2659.2	2746.2	3276.4	3908.9	4255.7	4128.3
37.5°	4435.4	4394.6	3854.2	3359.0	3060.3	2885.0	2957.0	3446.4	4039.4	4511.8	4405.5
40°	4762.5	4664.3	4028.5	3612.7	3379.2	3151.3	3236.5	3627.9	4161.4	4768.4	4676.4
42.5°	5040.7	4895.3	4200.2	3891.8	3676.0	3445.1	3546.8	3810.7	4277.7	4987.4	4911.4
45°	5246.4	5065.8	4363.8	4159.9	4085.2	3835.4	3883.6	4020.0	4403.7	5170.4	5104.8
47.5°	5430.1	5237.2	4548.9	4430.3	4443.1	4343.1	4265.6	4263.9	4552.3	5319.7	5287.6
50°	5676.2	5475.0	4747.8	4708.8	4980.1	4913.6	4742.7	4548.4	4740.0	5489.3	5485.6
52.5°	6015.3	5851.8	4990.7	5009.0	5481.6	5525.0	5313.2	4890.4	5034.1	5800.4	5778.5
55°	6416.4	6320.9	5321.7	5354.1	6096.4	6127.6	5917.2	5317.8	5466.9	6251.0	6190.0
57.5°	6729.2	6709.1	5684.5	5768.4	6555.6	6695.9	6502.5	5812.9	5954.3	6630.3	6477.2
60°	6853.9	6951.5	6070.8	6186.3	6980.5	7135.6	6966.2	6247.5	6386.5	6787.5	6457.6
62.5°	6786.6	7004.6	6482.3	6472.6	7075.2	7242.4	7123.3	6489.6	6706.9	6625.2	6130.9
65°	6475.4	6813.6	6721.0	6398.8	6750.8	6764.5	6726.0	6381.4	6782.5	6112.5	5499.3
67.5°	5797.6	6284.3	6406.6	5766.6	5875.5	5786.2	5721.5	5789.4	6388.3	5344.0	4621.8
70°	4722.2	5454.5	5513.0	4612.2	4562.7	4502.6	4373.9	4746.4	5610.7	4379.9	3667.3
72.5°	3472.2	4242.0	4422.0	3382.8	3153.7	3165.9	3064.3	3576.9	4561.8	3253.5	2738.0
75°	2375.5	3071.6	3459.8	2360.3	2085.6	2090.5	2077.6	2534.5	3633.4	2263.2	2048.8
77.5°	1735.4	2194.5	2609.4	1586.8	1540.5	1512.1	1505.3	1773.3	2785.6	1643.3	1591.0
80°	1392.5	1621.3	1752.7	1099.8	1182.6	1180.4	1142.3	1219.4	1819.2	1202.0	1189.9
82.5°	966.0	1246.0	1420.0	861.9	798.2	784.8	794.2	908.2	1285.9	821.6	781.3
85°	509.6	827.5	1406.4	763.9	473.8	378.0	470.2	743.6	1114.0	435.4	381.1
87.5°	65.2	239.2	931.1	304.8	187.0	100.7	223.3	418.8	715.4	88.8	77.5
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	3055.6	2994.7	2914.9	2841.0	2764.5	2688.4	2589.0	2526.7	2483.7	2475.3	2457.2
5°	2981.4	2778.8	2625.7	2493.3	2373.3	2203.6	2109.7	2031.7	1990.1	1986.1	1976.0
7.5°	2639.0	2359.5	2152.8	1965.4	1795.4	1658.4	1507.1	1436.7	1407.7	1414.5	1421.4
10°	2282.8	1970.5	1733.0	1541.4	1391.6	1276.2	1154.8	1072.8	1015.9	1004.4	1002.2
12.5°	2022.7	1679.9	1449.5	1314.1	1198.4	1089.7	961.0	864.1	790.5	765.2	748.4
15°	1912.6	1537.9	1296.4	1150.6	1022.7	884.8	765.2	663.9	596.2	574.2	561.9
17.5°	1936.1	1498.4	1191.0	1004.4	840.9	696.9	546.2	459.5	418.8	408.3	408.3
20°	2059.0	1491.2	1103.8	869.8	665.7	498.9	375.3	325.8	312.5	311.2	314.8
22.5°	2231.2	1516.9	1038.9	753.0	517.4	364.3	292.3	274.0	268.1	269.5	273.6
25°	2487.8	1603.5	991.8	648.9	406.0	298.3	260.6	249.8	246.9	250.7	255.7
27.5°	2792.0	1690.0	962.3	570.5	342.7	272.7	247.8	236.5	238.3	242.9	247.4
30°	3059.2	1761.1	916.1	514.7	323.1	274.0	247.8	232.4	230.6	231.5	232.8
32.5°	3299.0	1809.2	861.9	461.4	278.6	243.4	231.5	229.2	219.0	215.3	215.8
35°	3505.6	1809.2	829.5	430.4	249.8	215.8	196.7	185.2	180.0	180.4	185.7
37.5°	3705.0	1772.9	813.4	412.8	234.1	205.3	188.3	178.2	171.4	170.0	170.9
40°	3880.8	1720.2	795.1	405.5	222.2	198.9	183.0	174.5	167.2	165.0	165.4
42.5°	4022.0	1677.5	774.9	396.0	214.8	194.3	179.1	171.8	163.6	161.3	160.8
45°	4174.6	1663.4	748.4	376.7	218.5	194.7	178.2	170.5	162.1	159.5	158.6
47.5°	4375.7	1707.9	720.9	353.7	226.4	197.1	179.6	170.5	161.7	159.5	158.6
50°	4629.1	1812.3	685.9	320.3	218.5	203.5	179.1	169.0	161.7	159.5	157.7
52.5°	4954.5	1953.5	640.3	281.9	213.9	219.0	178.2	166.3	159.5	156.3	153.1
55°	5349.9	2068.9	585.5	250.2	203.5	214.8	176.9	163.2	155.9	151.3	148.5
57.5°	5639.6	2110.6	515.6	229.7	188.8	208.0	174.9	159.0	151.3	147.6	144.0
60°	5582.3	2030.0	456.4	216.7	180.0	187.9	173.6	155.3	147.1	144.4	141.0
62.5°	5123.7	1819.2	418.3	210.8	174.5	171.4	174.9	151.7	143.6	140.6	139.7
65°	4435.8	1508.0	403.3	209.5	170.0	161.7	162.7	147.6	139.2	137.0	136.1
67.5°	3659.0	1217.1	390.0	213.9	164.1	154.9	150.4	142.1	135.1	132.8	131.1
70°	2885.5	1012.3	383.9	211.2	156.8	148.0	143.1	136.1	130.2	127.8	126.4
72.5°	2323.6	855.1	380.7	208.4	147.1	138.8	134.2	128.2	121.8	120.9	119.6
75°	1966.4	672.2	348.8	199.8	136.1	127.8	124.7	119.2	112.8	112.8	111.9
77.5°	1516.9	486.1	290.1	176.9	124.7	115.4	112.8	108.6	101.3	102.6	102.2
80°	1120.4	317.2	226.9	146.7	110.5	101.8	100.3	96.2	88.4	90.3	90.3
82.5°	767.6	208.0	163.2	120.0	94.3	86.1	86.1	82.0	73.3	74.2	77.1
85°	385.4	143.1	121.8	93.0	73.3	69.2	69.2	66.0	57.3	57.7	61.4
87.5°	117.4	86.1	80.6	66.5	52.7	51.8	49.4	47.2	41.7	41.2	43.6
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	2429.1	2402.9	2371.5	2301.7	2278.4	2276.9	2298.2	2276.0	2318.2	2300.4	2320.0
5°	1958.8	1933.4	1898.0	1809.2	1755.0	1718.3	1701.0	1649.7	1686.8	1659.7	1682.3
7.5°	1440.7	1446.7	1423.3	1371.1	1253.3	1194.2	1159.4	1128.2	1155.3	1152.4	1195.6
10°	1012.7	1028.7	1012.3	959.6	864.1	831.7	838.1	850.5	885.9	904.0	970.5
12.5°	729.1	728.2	717.6	670.5	607.7	611.2	637.4	658.8	691.4	710.8	778.5
15°	544.3	536.1	531.5	493.0	457.3	465.2	478.0	480.2	500.9	512.3	567.4
17.5°	411.5	415.6	420.5	393.2	366.1	361.0	351.1	338.6	344.7	346.9	374.3
20°	326.7	343.2	355.7	336.3	309.0	294.1	281.3	273.1	273.1	272.7	280.4
22.5°	285.5	297.4	310.8	297.4	272.7	259.7	252.4	246.0	245.2	245.2	252.4
25°	263.2	271.8	284.6	275.5	257.1	247.4	240.5	232.4	229.2	228.2	233.3
27.5°	252.0	255.7	262.1	253.8	238.3	233.7	231.9	224.6	220.3	218.1	223.3
30°	233.3	232.4	232.8	224.6	212.1	211.7	214.8	216.3	214.8	214.4	222.2
32.5°	215.8	213.9	213.5	206.2	194.7	192.0	194.7	197.6	200.7	205.3	214.4
35°	193.8	198.4	201.1	194.7	180.9	172.7	169.6	164.5	161.7	161.7	172.3
37.5°	176.4	187.0	191.2	185.2	170.0	158.6	153.1	152.2	152.6	154.4	164.5
40°	170.5	178.2	181.8	176.0	160.8	150.4	147.1	146.2	147.1	149.9	159.9
42.5°	166.8	172.3	171.8	164.5	152.2	144.9	143.1	142.1	143.1	145.8	156.8
45°	163.6	167.2	163.6	154.9	143.6	139.7	140.1	139.7	140.6	143.6	154.0
47.5°	160.8	162.1	157.7	148.9	137.0	136.1	137.9	139.2	140.1	142.7	153.5
50°	156.8	156.8	152.6	143.6	131.5	131.9	134.2	137.5	137.9	140.6	149.5
52.5°	151.7	151.3	148.5	139.7	126.9	128.2	128.2	131.9	132.8	136.1	145.3
55°	147.6	146.7	145.3	137.0	122.9	125.1	123.8	125.1	127.3	130.6	140.6
57.5°	144.0	142.1	142.1	134.6	119.6	120.5	117.4	119.2	121.8	124.7	135.1
60°	140.1	138.3	139.2	131.5	114.5	113.7	112.3	115.9	116.9	120.0	130.6
62.5°	136.1	134.6	135.1	127.8	111.0	108.6	108.6	111.9	112.3	116.9	126.9
65°	132.8	131.1	130.6	124.2	106.8	104.1	105.5	106.8	107.7	112.3	121.8
67.5°	129.7	126.0	126.0	120.9	102.2	99.4	102.2	101.8	103.2	107.3	115.0
70°	125.6	120.5	120.9	118.7	97.6	94.3	96.7	96.2	97.1	99.8	107.7
72.5°	119.2	115.0	115.9	115.0	93.0	88.4	89.3	89.3	89.3	91.6	99.8
75°	111.0	107.7	110.5	112.8	87.5	81.1	82.0	82.0	80.6	82.0	92.1
77.5°	100.7	98.9	108.1	105.0	81.1	73.3	73.3	72.4	69.8	71.6	82.4
80°	89.8	88.4	99.8	87.9	73.8	63.8	62.8	60.4	57.7	59.1	70.2
82.5°	78.4	77.1	83.9	67.4	63.8	52.7	50.4	46.3	43.6	44.9	54.9
85°	64.3	64.3	64.7	50.9	48.5	40.3	37.6	32.1	28.9	29.8	39.4
87.5°	45.8	47.2	43.6	34.8	28.9	22.5	20.7	17.4	14.6	17.0	20.7
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	2420.9	2471.3	2528.6	2601.8	2664.7	2767.6	2866.7	2926.2
5°	1810.1	1894.0	1998.3	2132.7	2257.9	2445.6	2632.1	2751.7
7.5°	1295.4	1385.2	1498.0	1665.6	1842.7	2082.2	2328.8	2471.8
10°	1072.0	1164.0	1258.8	1372.0	1516.9	1777.5	2068.9	2230.2
12.5°	886.7	985.2	1087.4	1206.6	1340.8	1573.6	1909.5	2095.1
15°	678.6	788.6	909.1	1059.9	1228.0	1497.1	1870.0	2071.6
17.5°	465.2	588.0	735.9	922.0	1127.7	1472.3	1940.7	2173.1
20°	320.3	409.7	567.8	785.9	1033.4	1469.1	2076.2	2367.3
22.5°	268.1	307.9	423.4	660.8	962.3	1508.6	2286.7	2639.9
25°	247.8	271.8	338.1	552.2	910.5	1599.3	2576.3	2992.7
27.5°	236.1	257.5	307.0	481.2	869.8	1704.6	2858.1	3334.6
30°	240.5	262.6	298.3	444.9	814.3	1792.5	3108.3	3601.3
32.5°	216.7	226.4	255.7	412.8	774.4	1866.3	3327.3	3822.2
35°	184.8	201.6	228.2	397.8	775.3	1915.9	3566.0	4104.4
37.5°	176.0	192.9	212.1	392.3	785.9	1968.7	3840.0	4435.4
40°	170.5	186.1	202.6	389.2	796.0	2016.7	4108.7	4762.5
42.5°	166.8	180.9	201.6	378.0	801.1	2059.9	4329.5	5040.7
45°	166.3	180.9	205.3	367.0	808.8	2106.1	4514.7	5246.4
47.5°	166.8	187.0	198.4	353.7	808.8	2183.5	4731.8	5430.1
50°	165.0	197.1	191.2	335.0	790.1	2330.1	5029.7	5676.2
52.5°	164.1	195.8	176.9	306.1	757.5	2563.0	5411.4	6015.3
55°	161.7	188.8	166.8	263.2	719.5	2816.9	5820.2	6416.4
57.5°	159.5	167.2	161.3	225.5	660.8	2995.5	6101.5	6729.2
60°	178.7	146.2	156.8	207.1	582.4	3044.5	6090.6	6853.9
62.5°	165.4	137.0	150.8	203.1	527.5	2907.0	5809.2	6786.6
65°	129.7	131.1	144.9	214.8	512.8	2542.9	5310.5	6475.4
67.5°	118.7	125.1	138.8	230.1	514.3	2035.9	4565.5	5797.6
70°	111.9	118.7	131.9	237.9	517.8	1517.8	3609.5	4722.2
72.5°	104.1	110.1	124.2	239.2	493.9	1102.4	2782.1	3472.2
75°	94.8	100.3	113.2	208.4	409.2	764.8	2128.1	2375.5
77.5°	84.3	88.4	99.4	160.8	303.9	489.4	1597.4	1735.4
80°	72.0	74.2	83.5	117.8	208.0	306.1	1263.8	1392.5
82.5°	57.7	58.6	64.7	88.4	135.1	196.7	846.4	966.0
85°	40.8	40.8	44.5	64.3	92.1	124.7	459.5	509.6
87.5°	19.2	19.6	19.6	35.3	48.0	63.4	105.9	65.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)