

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: INVUE

Report Number: P677269

Luminaire Tested: **CCW-SA-2D-730-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677269  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-730-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SLL distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

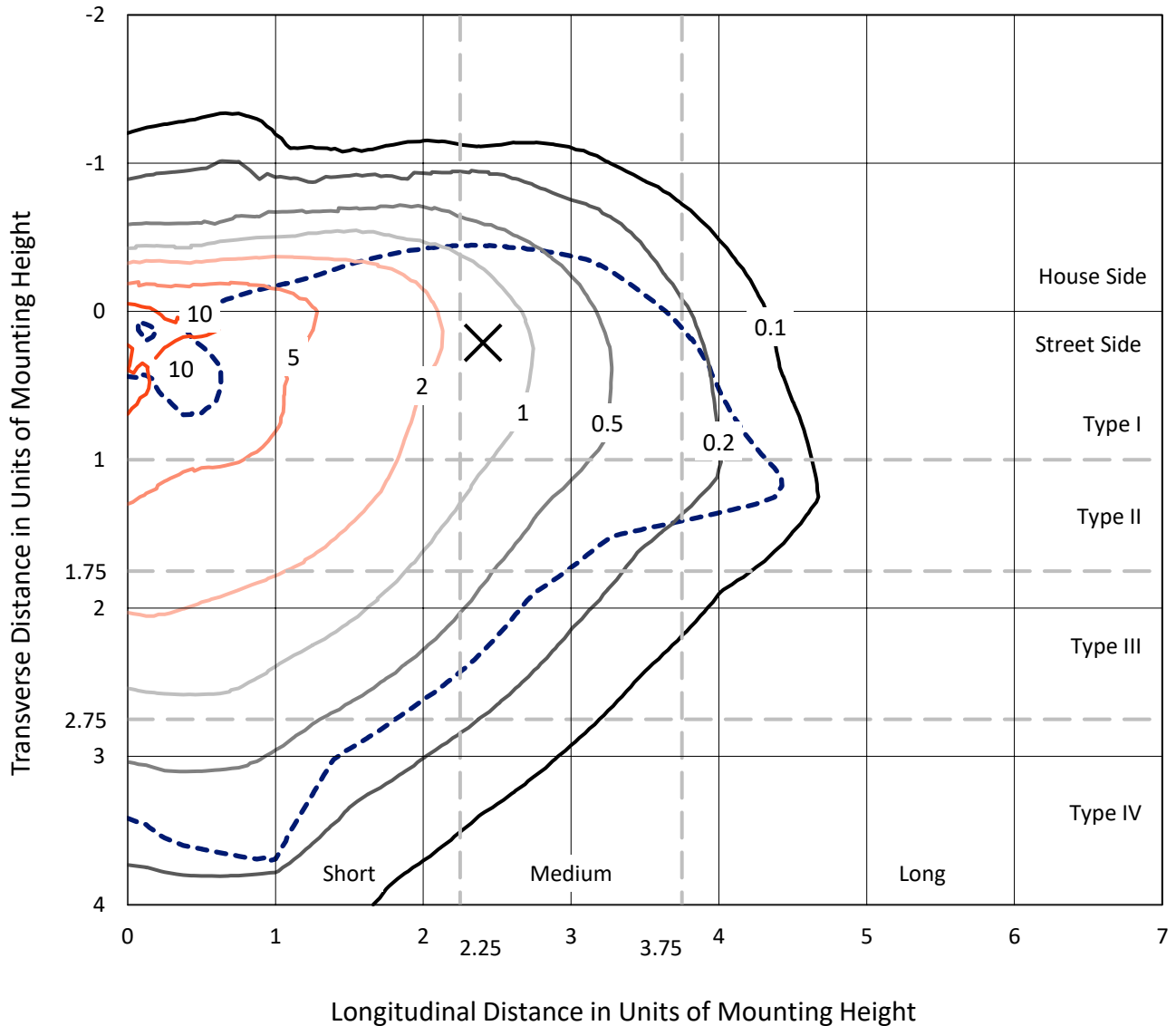
Lumens per Lamp: N/A  
Luminaire Lumens: 7368.4 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
Input Voltage (V): 120  
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

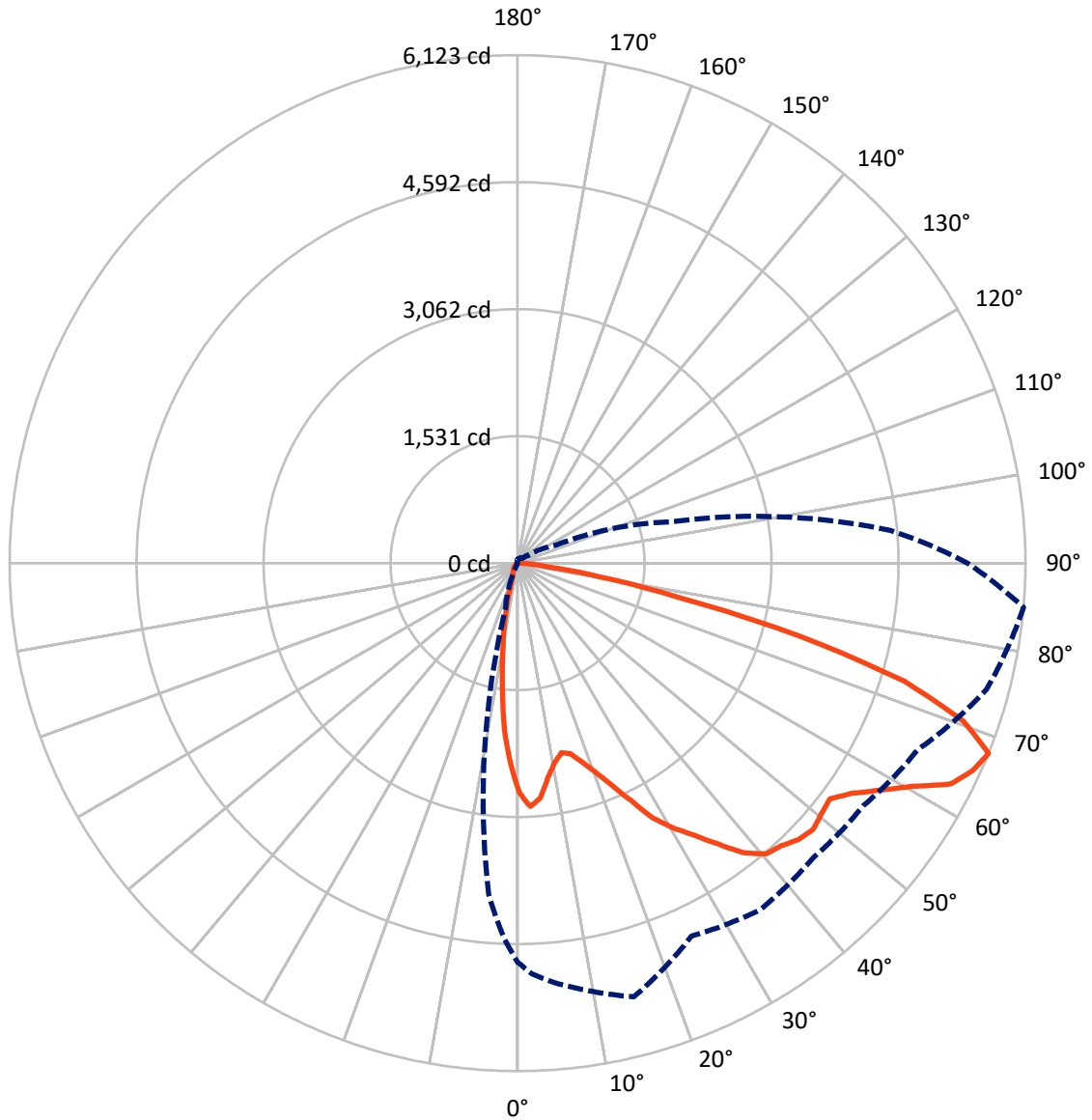
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1279.4	0.0	1279.4
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	6089.0	0.0	6089.0
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	7368.4	0.0	7368.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.5	2.9
10°-20°	412.7	5.6
20°-30°	571.1	7.8
30°-40°	807.2	11.0
40°-50°	1099.0	14.9
50°-60°	1455.5	19.8
60°-70°	1690.0	22.9
70°-80°	957.0	13.0
80°-90°	165.4	2.2
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°	7368.4	100.0
0°-180°	7368.4	100.0



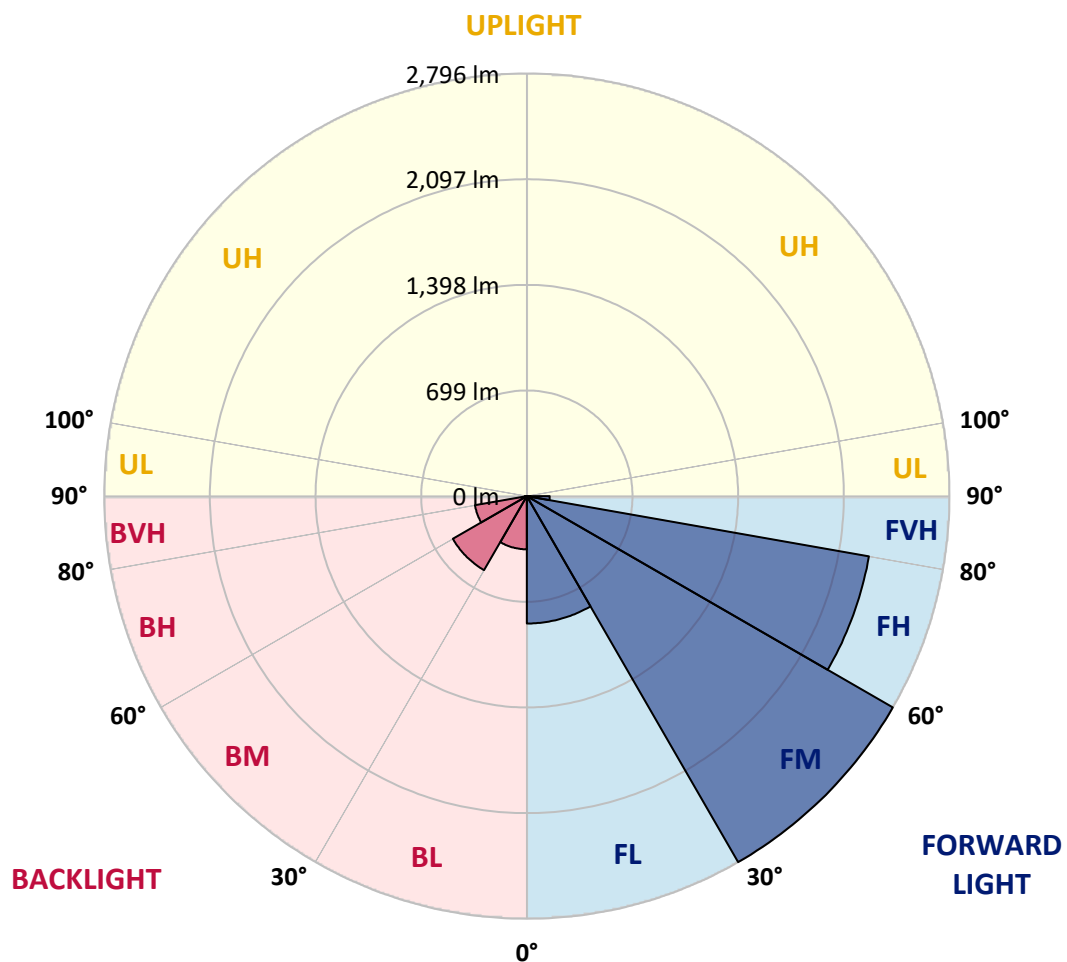
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.6	11.4			
FM (30°-60°)	2796.4	38.0			
FH (60°-80°)	2298.6	31.2			G2/5000
FVH (80°-90°)	151.4	2.1			G2/225
BL (0°-30°)	351.7	4.8	B1/500		
BM (30°-60°)	565.3	7.7	B1/1000		
BH (60°-80°)	348.4	4.7	B1/500		G1/500
BVH (80°-90°)	13.9	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5
2.5°	2878.7	2939.7	2941.6	2969.2	2996.7	2996.7	3061.7	3045.9	2988.9	2979.0	2937.7
5°	2900.3	2922.0	2937.7	3077.4	3195.5	3183.7	3219.1	3195.5	3085.3	2943.6	2847.2
7.5°	2713.4	2737.0	2800.0	3038.1	3197.4	3250.6	3317.5	3169.9	3053.8	2798.0	2613.0
10°	2465.5	2510.7	2626.8	2898.4	3095.1	3264.3	3264.3	3146.3	2922.0	2672.1	2445.8
12.5°	2327.7	2418.2	2481.2	2756.7	3012.5	3128.6	3124.6	3061.7	2916.1	2601.2	2345.4
15°	2351.3	2376.9	2510.7	2725.2	2894.4	2888.5	2959.4	2939.7	2837.4	2664.2	2382.8
17.5°	2459.6	2498.9	2615.0	2725.2	2805.9	2782.3	2780.3	2874.7	2880.6	2770.5	2522.5
20°	2636.7	2752.8	2807.8	2841.3	2742.9	2642.6	2630.8	2762.6	2864.9	2906.2	2689.8
22.5°	2920.0	2996.7	3108.9	2937.7	2681.9	2556.0	2532.4	2678.0	2884.6	3067.6	2906.2
25°	3197.4	3256.5	3364.7	3144.3	2750.8	2538.3	2497.0	2622.9	2959.4	3291.9	3167.9
27.5°	3490.6	3541.8	3553.6	3295.8	2788.2	2502.9	2453.7	2622.9	3022.3	3409.9	3480.8
30°	3669.7	3730.7	3742.5	3429.6	2849.2	2532.4	2508.8	2634.7	3065.6	3510.3	3705.1
32.5°	3870.4	3886.1	3876.3	3453.2	2916.1	2618.9	2520.6	2713.4	3114.8	3630.3	3909.7
35°	4110.4	4138.0	4037.6	3561.5	3065.6	2674.0	2638.6	2809.8	3199.4	3685.4	4157.7
37.5°	4293.4	4380.0	4153.7	3602.8	3095.1	2790.1	2796.0	3010.5	3258.4	3752.3	4431.2
40°	4637.8	4492.2	4350.5	3744.4	3207.3	2986.9	2955.4	3217.1	3457.2	3795.6	4610.2
42.5°	4826.7	4749.9	4427.2	3758.2	3380.4	3258.4	3266.3	3451.3	3561.5	3917.6	4659.4
45°	4873.9	4793.2	4531.5	3768.1	3551.6	3579.2	3714.9	3750.4	3714.9	3998.3	4751.9
47.5°	4993.9	4818.8	4519.7	3899.9	3829.1	3935.3	4108.5	4185.2	3923.5	3968.8	4795.2
50°	4970.3	4869.9	4494.1	3955.0	4167.5	4448.9	4565.0	4533.5	4155.7	3907.8	4748.0
52.5°	4871.9	4763.7	4572.8	4104.5	4484.3	4824.7	4986.0	4907.3	4362.3	4045.5	4716.5
55°	5015.6	4932.9	4675.2	4307.2	4722.4	5155.3	5269.4	5210.4	4616.1	4173.4	4895.5
57.5°	5171.0	5153.3	4952.6	4545.3	5003.7	5495.7	5495.7	5422.9	4836.5	4358.4	5161.2
60°	5395.3	5434.7	5157.2	4702.7	5100.2	5476.0	5761.3	5676.7	5058.8	4683.0	5462.2
62.5°	5322.5	5448.4	5420.9	5041.1	5210.4	5572.4	5727.8	5790.8	5334.3	5078.5	5863.6
65°	5088.4	5222.2	5418.9	5263.5	5127.7	5338.3	5417.0	5607.8	5472.1	5450.4	6028.9
67.5°	4809.0	4954.6	5076.6	5413.0	4960.5	5100.2	5031.3	5092.3	5322.5	5857.7	6123.3
70°	4199.0	4338.7	4531.5	5080.5	4517.7	4391.8	4374.1	4344.6	4702.7	5712.1	5694.4
72.5°	3453.2	3518.2	3836.9	4130.1	3343.0	3319.4	3347.0	3313.5	3728.7	5171.0	4877.8
75°	2585.5	2650.4	2831.5	3171.9	2276.6	2140.8	2298.2	2453.7	2847.2	4014.0	3504.4
77.5°	1944.0	2026.7	2140.8	2373.0	1670.5	1458.0	1479.7	1627.3	2058.2	3215.1	1963.7
80°	1261.3	1251.4	1471.8	1633.2	1257.3	1296.7	1241.6	1349.8	1491.5	1719.7	1003.5
82.5°	728.0	737.9	830.4	936.6	875.6	1001.5	722.1	1206.2	1064.5	700.5	373.9
85°	409.3	427.0	511.6	649.3	549.0	368.0	301.1	598.2	669.0	287.3	181.0
87.5°	41.3	35.4	68.9	246.0	149.5	61.0	90.5	143.6	161.3	108.2	53.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5
2.5°	2878.7	2878.7	2829.5	2746.8	2713.4	2654.4	2573.7	2599.3	2571.7	2471.4	2445.8
5°	2760.6	2666.2	2563.9	2437.9	2365.1	2215.6	2168.4	2083.7	2097.5	2012.9	2016.8
7.5°	2514.7	2439.9	2266.7	2101.5	1957.8	1828.0	1645.0	1576.1	1509.2	1475.7	1515.1
10°	2371.0	2231.3	1995.2	1778.8	1587.9	1471.8	1349.8	1255.4	1168.8	1103.9	1090.1
12.5°	2266.7	2142.8	1857.5	1593.8	1444.3	1349.8	1237.7	1107.8	1023.2	911.0	877.6
15°	2235.3	2083.7	1782.7	1521.0	1375.4	1219.9	1092.0	964.2	854.0	735.9	694.6
17.5°	2343.5	2168.4	1780.7	1462.0	1257.3	1090.1	913.0	769.4	657.2	549.0	523.4
20°	2526.5	2258.9	1837.8	1426.6	1145.2	920.9	720.2	576.5	450.6	379.8	362.0
22.5°	2735.0	2412.3	1843.7	1332.1	1033.0	751.6	525.4	379.8	308.9	275.5	265.6
25°	2990.8	2658.3	1914.5	1255.4	901.2	570.6	373.9	291.2	249.9	230.2	226.3
27.5°	3201.4	2829.5	1991.3	1174.7	771.3	423.0	293.2	238.1	216.4	196.8	194.8
30°	3419.8	3026.3	2012.9	1125.5	659.2	348.3	251.9	210.5	186.9	177.1	175.1
32.5°	3610.6	3240.7	2081.8	1044.8	552.9	307.0	228.2	188.9	173.2	157.4	155.4
35°	3856.6	3364.7	2115.2	1001.5	513.6	277.4	208.6	173.2	149.5	139.7	135.8
37.5°	4120.3	3484.7	2136.9	968.1	480.1	259.7	196.8	163.3	141.7	127.9	124.0
40°	4366.2	3653.9	2105.4	926.8	454.5	238.1	188.9	151.5	131.8	118.1	112.2
42.5°	4555.1	3819.2	2095.6	887.4	427.0	230.2	179.1	145.6	124.0	108.2	106.3
45°	4661.4	3931.4	2026.7	855.9	405.3	234.2	175.1	137.7	118.1	104.3	96.4
47.5°	4635.8	4018.0	2044.4	846.1	375.8	218.4	173.2	131.8	108.2	96.4	90.5
50°	4777.5	4193.1	2014.9	814.6	354.2	196.8	188.9	131.8	106.3	92.5	86.6
52.5°	4801.1	4352.5	2077.8	757.5	320.7	181.0	186.9	129.9	102.3	88.5	80.7
55°	4997.8	4537.4	2199.8	726.1	293.2	157.4	171.2	125.9	92.5	80.7	76.7
57.5°	5265.4	4921.1	2278.5	696.6	255.8	137.7	143.6	124.0	84.6	74.8	68.9
60°	5523.2	5074.6	2284.4	643.4	220.4	124.0	112.2	124.0	78.7	66.9	61.0
62.5°	5716.0	5074.6	2245.1	598.2	192.8	110.2	98.4	118.1	70.8	59.0	55.1
65°	5611.8	4938.8	2142.8	560.8	175.1	96.4	84.6	90.5	63.0	51.2	47.2
67.5°	5424.8	4515.8	1916.5	515.5	173.2	84.6	72.8	66.9	55.1	45.3	41.3
70°	5125.7	3945.1	1595.8	464.4	169.2	76.7	64.9	57.1	49.2	39.4	35.4
72.5°	4130.1	3258.4	1310.5	434.9	165.3	66.9	55.1	49.2	41.3	33.5	29.5
75°	2861.0	2081.8	1009.4	371.9	161.3	61.0	51.2	43.3	35.4	27.5	25.6
77.5°	1715.8	1391.1	651.3	279.4	106.3	49.2	43.3	33.5	29.5	23.6	21.6
80°	802.8	657.2	263.7	108.2	51.2	35.4	29.5	25.6	23.6	19.7	17.7
82.5°	314.8	277.4	127.9	63.0	41.3	27.5	23.6	21.6	19.7	15.7	13.8
85°	169.2	149.5	61.0	43.3	29.5	19.7	19.7	17.7	15.7	13.8	11.8
87.5°	37.4	27.5	25.6	25.6	21.6	15.7	15.7	13.8	11.8	9.8	7.9
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5
2.5°	2432.0	2461.5	2414.3	2443.8	2402.5	2434.0	2437.9	2408.4	2416.3	2455.6	2473.3
5°	2071.9	2052.3	2009.0	1995.2	1997.2	1971.6	1981.4	1995.2	2016.8	2028.7	2064.1
7.5°	1493.5	1538.7	1536.7	1570.2	1572.2	1568.2	1540.7	1481.6	1501.3	1485.6	1505.3
10°	1068.4	1088.1	1125.5	1147.1	1186.5	1164.9	1101.9	1078.3	1066.5	1064.5	1084.2
12.5°	854.0	806.7	802.8	810.7	830.4	804.8	773.3	745.7	759.5	787.1	808.7
15°	661.1	621.8	570.6	562.7	566.7	554.9	521.4	486.0	495.8	523.4	539.1
17.5°	507.7	462.4	427.0	403.4	395.5	354.2	305.0	275.5	267.6	265.6	279.4
20°	342.4	334.5	328.6	299.1	299.1	240.1	198.7	177.1	177.1	181.0	183.0
22.5°	255.8	246.0	247.9	242.0	226.3	179.1	157.4	151.5	151.5	155.4	155.4
25°	222.3	208.6	204.6	202.7	186.9	153.5	137.7	131.8	131.8	135.8	135.8
27.5°	188.9	185.0	179.1	171.2	157.4	131.8	122.0	116.1	118.1	120.0	118.1
30°	173.2	163.3	155.4	155.4	139.7	118.1	110.2	106.3	102.3	106.3	108.2
32.5°	153.5	147.6	143.6	137.7	120.0	104.3	96.4	92.5	90.5	90.5	92.5
35°	131.8	131.8	127.9	120.0	104.3	94.4	84.6	80.7	78.7	80.7	80.7
37.5°	118.1	112.2	114.1	106.3	92.5	82.6	72.8	68.9	68.9	66.9	68.9
40°	110.2	100.4	94.4	90.5	82.6	70.8	63.0	59.0	57.1	57.1	57.1
42.5°	98.4	90.5	78.7	76.7	74.8	61.0	51.2	49.2	47.2	45.3	45.3
45°	92.5	80.7	70.8	61.0	61.0	51.2	43.3	39.4	37.4	35.4	37.4
47.5°	84.6	72.8	61.0	51.2	49.2	41.3	33.5	29.5	27.5	27.5	27.5
50°	80.7	64.9	53.1	43.3	37.4	33.5	25.6	21.6	19.7	19.7	19.7
52.5°	74.8	61.0	47.2	37.4	29.5	25.6	19.7	15.7	13.8	13.8	13.8
55°	66.9	55.1	41.3	31.5	25.6	19.7	13.8	9.8	7.9	7.9	7.9
57.5°	63.0	49.2	35.4	27.5	19.7	13.8	7.9	5.9	5.9	3.9	5.9
60°	57.1	43.3	29.5	21.6	15.7	9.8	5.9	2.0	2.0	2.0	2.0
62.5°	49.2	37.4	25.6	17.7	11.8	5.9	2.0	0.0	0.0	0.0	0.0
65°	41.3	29.5	19.7	13.8	7.9	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	35.4	25.6	15.7	9.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	31.5	21.6	11.8	7.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	25.6	17.7	9.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.6	13.8	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.7	9.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.8	7.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5
2.5°	2498.9	2487.1	2546.1	2642.6	2691.8	2788.2	2811.8	2872.8	2857.0	2878.7
5°	2068.0	2091.6	2178.2	2319.9	2371.0	2510.7	2642.6	2774.4	2859.0	2900.3
7.5°	1534.8	1613.5	1719.7	1849.6	1981.4	2164.4	2388.7	2542.2	2624.9	2713.4
10°	1143.2	1227.8	1349.8	1477.7	1692.2	1896.8	2121.1	2312.0	2382.8	2465.5
12.5°	899.2	1031.1	1172.7	1310.5	1438.4	1633.2	1910.6	2188.0	2264.8	2327.7
15°	625.7	787.1	989.7	1168.8	1347.8	1517.1	1804.3	2140.8	2245.1	2351.3
17.5°	346.3	474.2	706.4	958.2	1221.9	1481.6	1839.8	2227.4	2384.8	2459.6
20°	200.7	251.9	417.1	716.2	1064.5	1404.9	1857.5	2390.7	2599.3	2636.7
22.5°	165.3	183.0	236.1	448.6	871.7	1355.7	1948.0	2618.9	2831.5	2920.0
25°	141.7	155.4	183.0	269.6	659.2	1251.4	2005.0	2904.3	3101.0	3197.4
27.5°	125.9	139.7	161.3	198.7	448.6	1107.8	2099.5	3162.0	3358.8	3490.6
30°	110.2	122.0	143.6	169.2	310.9	946.4	2180.2	3350.9	3628.4	3669.7
32.5°	98.4	108.2	124.0	145.6	230.2	718.2	2245.1	3545.7	3779.9	3870.4
35°	84.6	96.4	106.3	124.0	175.1	541.1	2205.7	3697.2	4002.2	4110.4
37.5°	74.8	82.6	92.5	104.3	147.6	423.0	2125.1	3878.2	4193.1	4293.4
40°	63.0	68.9	80.7	92.5	133.8	326.6	2032.6	4096.7	4460.7	4637.8
42.5°	53.1	59.0	66.9	86.6	110.2	242.0	1845.7	4265.9	4677.1	4826.7
45°	41.3	49.2	61.0	86.6	88.5	179.1	1652.8	4391.8	4799.1	4873.9
47.5°	31.5	39.4	59.0	74.8	70.8	124.0	1424.6	4535.4	4925.0	4993.9
50°	23.6	31.5	66.9	64.9	59.0	94.4	1280.9	4635.8	4932.9	4970.3
52.5°	15.7	23.6	55.1	49.2	49.2	82.6	1241.6	4631.9	4952.6	4871.9
55°	11.8	17.7	31.5	35.4	43.3	72.8	1206.2	4779.4	4958.5	5015.6
57.5°	7.9	13.8	21.6	27.5	37.4	63.0	1133.4	4956.5	5141.5	5171.0
60°	3.9	9.8	15.7	21.6	31.5	55.1	1031.1	5086.4	5363.8	5395.3
62.5°	2.0	5.9	11.8	17.7	25.6	43.3	924.8	4879.8	5267.4	5322.5
65°	0.0	3.9	7.9	11.8	15.7	31.5	751.6	4405.6	4885.7	5088.4
67.5°	0.0	0.0	3.9	7.9	9.8	23.6	566.7	4008.1	4533.5	4809.0
70°	0.0	0.0	2.0	2.0	5.9	17.7	362.0	3319.4	4047.5	4199.0
72.5°	0.0	0.0	0.0	0.0	2.0	11.8	210.5	2465.5	3171.9	3453.2
75°	0.0	0.0	0.0	0.0	0.0	9.8	106.3	1585.9	2207.7	2585.5
77.5°	0.0	0.0	0.0	0.0	0.0	7.9	57.1	1023.2	1627.3	1944.0
80°	0.0	0.0	0.0	0.0	0.0	2.0	33.5	594.2	1040.9	1261.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	13.8	291.2	621.8	728.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	155.4	310.9	409.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	21.6	41.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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