

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: P675829

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675829
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
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SLL distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

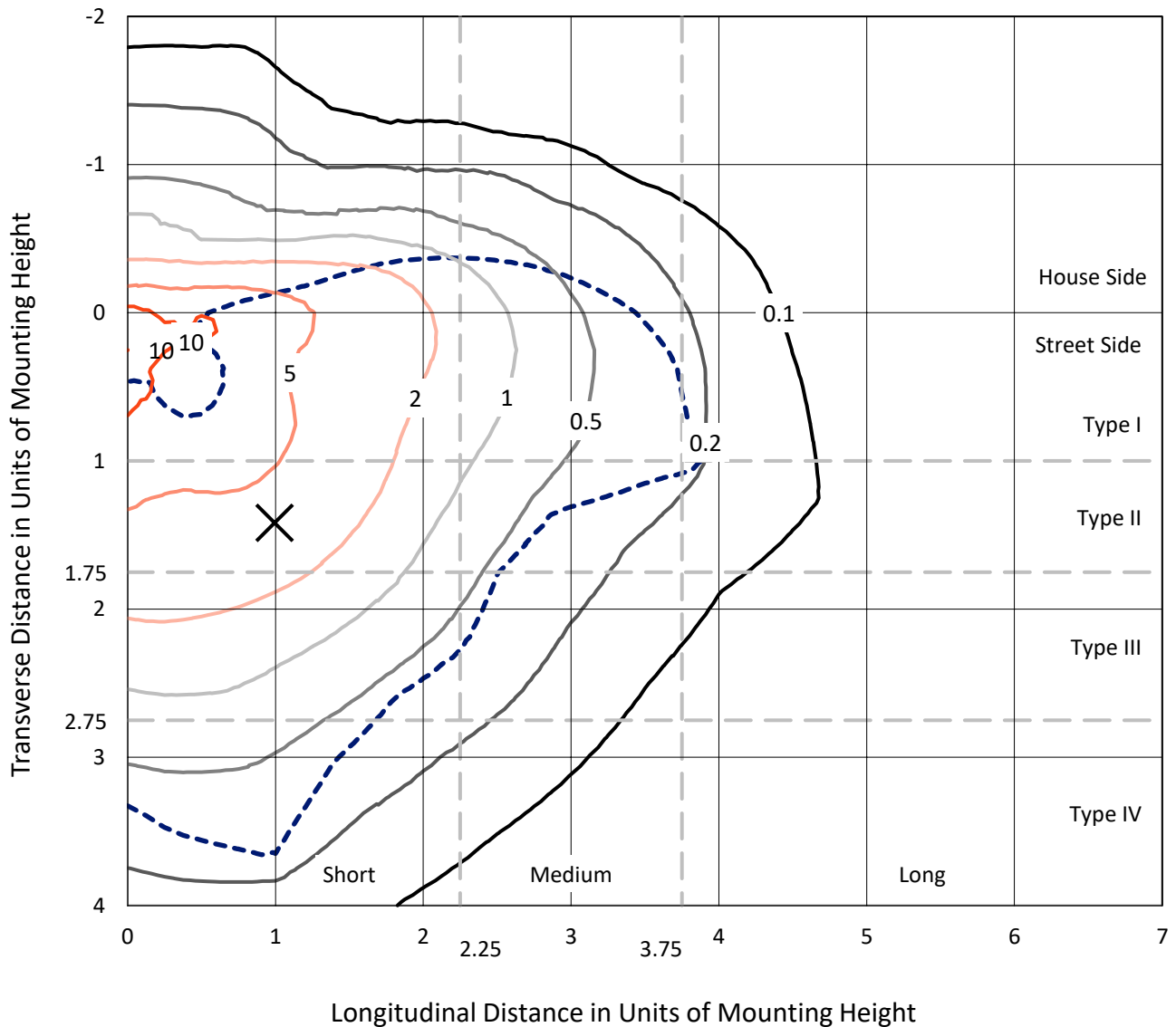
Lumens per Lamp: N/A
Luminaire Lumens: 8426.5 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

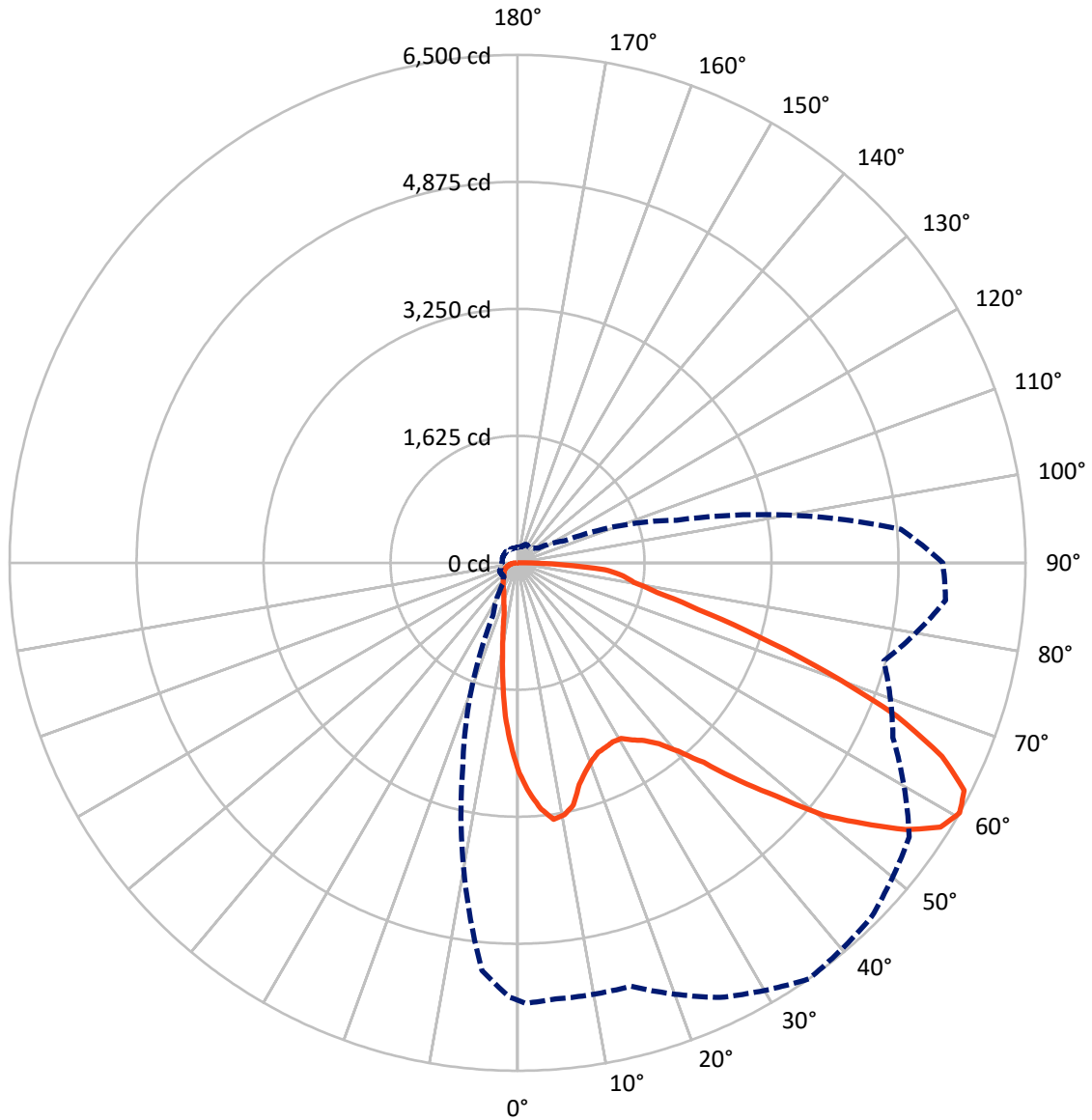
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1603.7	0.0	1603.7
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	6822.8	0.0	6822.8
	% Fixture	81.0	0.0	81.0
Total	Lumens	8426.5	0.0	8426.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	2.5
10°-20°	441.4	5.2
20°-30°	645.9	7.7
30°-40°	910.0	10.8
40°-50°	1250.6	14.8
50°-60°	1704.5	20.2
60°-70°	1865.4	22.1
70°-80°	1077.0	12.8
80°-90°	322.5	3.8
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°	8426.5	100.0
0°-180°	8426.5	100.0

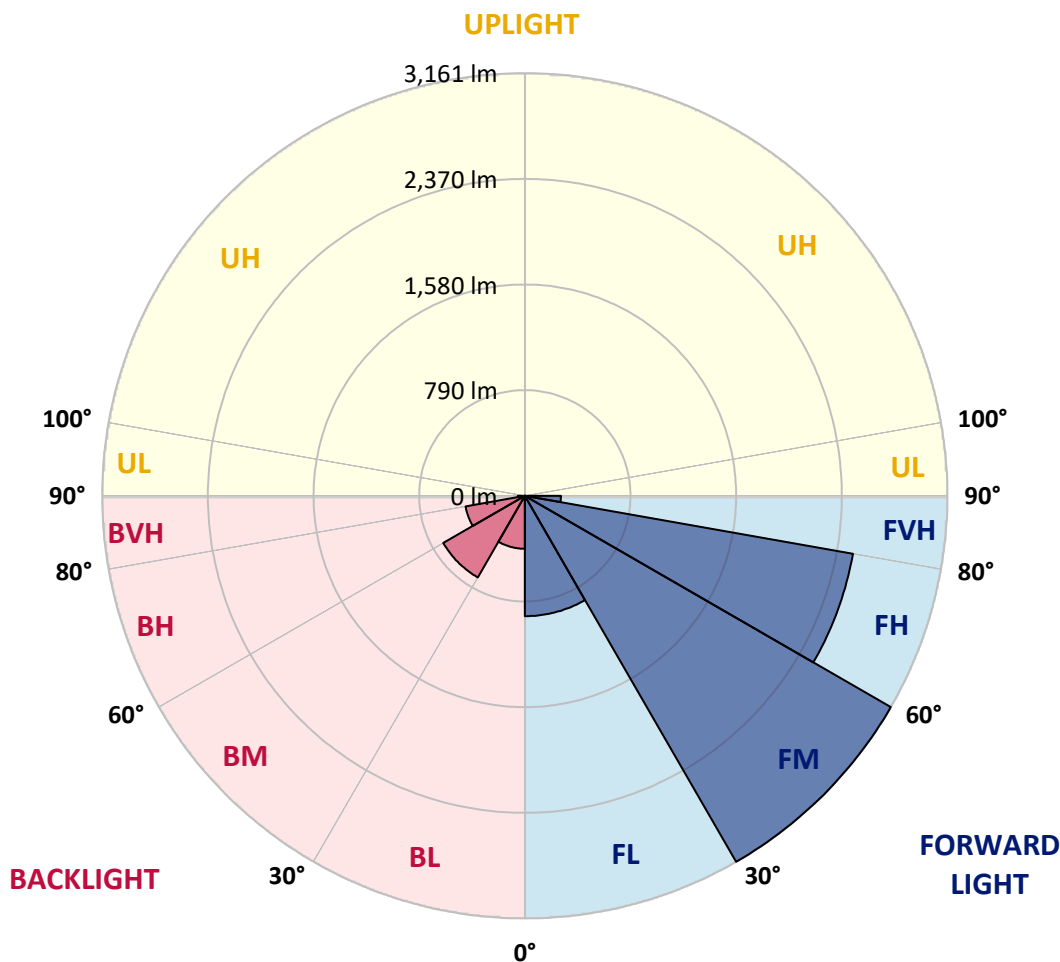


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	900.2	10.7			
FM (30°-60°)	3160.6	37.5			
FH (60°-80°)	2492.0	29.6			G2/5000
FVH (80°-90°)	270.0	3.2			G3/500
BL (0°-30°)	396.2	4.7	B1/500		
BM (30°-60°)	704.5	8.4	B1/1000		
BH (60°-80°)	450.4	5.3	B1/500		G1/500
BVH (80°-90°)	52.6	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-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4
2.5°	2882.0	2870.8	2882.0	2923.1	2934.3	2953.0	2953.0	2926.9	2878.3	2855.8	2818.5
5°	2945.6	2926.9	3020.3	3106.3	3173.6	3166.1	3102.5	3050.2	2953.0	2807.2	2668.9
7.5°	2818.5	2837.1	2904.4	3128.7	3285.7	3315.6	3214.7	3110.0	2900.7	2698.8	2511.9
10°	2579.2	2605.4	2751.2	2982.9	3229.6	3278.2	3214.7	3087.6	2837.1	2586.7	2369.9
12.5°	2463.3	2523.2	2609.1	2889.5	3065.2	3181.0	3151.1	3068.9	2788.6	2493.3	2283.9
15°	2463.3	2478.3	2605.4	2840.9	2941.8	2945.6	2956.8	2971.7	2803.5	2534.4	2254.0
17.5°	2541.8	2583.0	2691.4	2837.1	2855.8	2811.0	2811.0	2874.5	2833.4	2650.2	2362.4
20°	2732.5	2717.5	2859.6	2919.4	2818.5	2706.3	2695.1	2803.5	2867.1	2773.6	2560.5
22.5°	2923.1	2990.4	3106.3	2971.7	2784.8	2635.3	2620.3	2754.9	2968.0	2986.7	2788.6
25°	3211.0	3278.2	3338.0	3173.6	2781.1	2616.6	2627.8	2732.5	3091.3	3289.4	3169.8
27.5°	3521.2	3562.3	3648.3	3394.1	2870.8	2594.2	2605.4	2762.4	3207.2	3487.6	3468.9
30°	3696.9	3741.7	3723.1	3435.2	2930.6	2609.1	2579.2	2803.5	3143.7	3487.6	3663.2
32.5°	3868.8	3842.7	3831.5	3502.5	3005.4	2702.6	2627.8	2889.5	3181.0	3543.6	3913.7
35°	4078.2	4040.8	4010.9	3633.3	3128.7	2792.3	2758.7	3001.6	3263.3	3659.5	4115.5
37.5°	4309.9	4309.9	4164.1	3730.5	3274.5	2938.1	2900.7	3162.4	3394.1	3730.5	4392.2
40°	4582.8	4594.0	4336.1	3861.4	3439.0	3169.8	3158.6	3371.7	3521.2	3835.2	4657.6
42.5°	4784.7	4792.1	4485.6	3910.0	3629.6	3491.3	3539.9	3708.1	3667.0	3928.6	4676.3
45°	4923.0	4885.6	4590.3	4048.3	3838.9	3973.5	3988.5	4037.1	3857.6	3984.7	4751.0
47.5°	4990.2	4982.8	4635.1	4209.0	4280.0	4463.2	4549.2	4481.9	4033.3	3924.9	4751.0
50°	5057.5	4994.0	4676.3	4429.5	4709.9	5080.0	5061.3	4937.9	4276.3	3999.7	4680.0
52.5°	5102.4	5046.3	4758.5	4627.7	5121.1	5539.7	5614.5	5386.5	4560.4	4138.0	4713.6
55°	5263.1	5218.3	5005.2	4896.8	5595.8	6025.7	6036.9	5719.2	4859.4	4366.0	4934.2
57.5°	5457.5	5483.7	5345.4	5278.1	5958.4	6380.8	6339.7	5965.9	5113.6	4642.6	5188.4
60°	5595.8	5636.9	5603.3	5610.8	6137.8	6500.4	6406.9	6119.1	5300.5	4851.9	5498.6
62.5°	5521.0	5603.3	5741.6	5711.7	6145.3	6414.4	6283.6	5917.3	5322.9	5124.8	5734.1
65°	5315.5	5322.9	5592.1	5756.5	5808.9	5969.6	5797.7	5494.9	5091.2	5293.0	5700.5
67.5°	4788.4	4848.2	5091.2	5412.6	5192.1	5229.5	5214.5	4777.2	4739.8	5177.1	5442.5
70°	4227.7	4268.8	4534.2	4911.7	4384.7	4209.0	4242.6	3917.4	4070.7	4818.3	4923.0
72.5°	3495.0	3521.2	3824.0	4156.7	3517.5	3203.5	3282.0	3016.6	3233.4	4216.5	4152.9
75°	2639.0	2687.6	2923.1	3315.6	2590.4	2388.6	2467.1	2358.7	2560.5	3472.6	3222.2
77.5°	1876.5	1839.1	2130.7	2594.2	1947.5	1827.9	1835.4	1854.1	2070.9	2926.9	2313.8
80°	1278.4	1289.6	1551.3	1902.6	1528.8	1510.2	1491.5	1641.0	1738.2	2317.6	1682.1
82.5°	758.8	758.8	1046.6	1353.2	1207.4	1360.6	1274.7	1409.2	1360.6	1704.5	1102.7
85°	355.1	355.1	538.3	975.6	934.5	1121.4	953.2	1065.3	1005.5	1188.7	497.2
87.5°	59.8	52.3	108.4	478.5	385.0	437.3	171.9	568.2	631.7	829.8	123.4
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4
2.5°	2777.3	2751.2	2698.8	2631.6	2575.5	2504.5	2482.0	2433.4	2366.2	2358.7	2328.8
5°	2616.6	2526.9	2414.8	2276.4	2183.0	2085.8	2003.6	1955.0	1898.9	1891.4	1876.5
7.5°	2440.9	2328.8	2141.9	1977.4	1816.7	1663.4	1588.7	1495.2	1431.7	1383.1	1360.6
10°	2276.4	2171.8	1940.0	1715.7	1573.7	1472.8	1383.1	1285.9	1207.4	1147.6	1125.1
12.5°	2168.0	2044.7	1794.2	1581.2	1476.5	1360.6	1259.7	1155.0	1054.1	975.6	934.5
15°	2119.5	2003.6	1749.4	1513.9	1360.6	1199.9	1084.0	979.4	856.0	799.9	781.2
17.5°	2235.3	2063.4	1734.4	1435.4	1218.6	1035.4	893.4	781.2	691.5	635.5	613.0
20°	2384.9	2171.8	1760.6	1341.9	1084.0	878.4	721.4	601.8	542.0	500.9	497.2
22.5°	2575.5	2332.5	1801.7	1274.7	934.5	706.5	564.4	493.4	452.3	448.6	441.1
25°	2915.6	2624.1	1869.0	1184.9	814.9	583.1	482.2	441.1	422.4	411.2	418.7
27.5°	3207.2	2814.7	1917.6	1128.9	766.3	549.5	467.3	422.4	403.7	400.0	403.7
30°	3379.2	2990.4	1902.6	1024.2	669.1	523.3	497.2	482.2	444.8	414.9	414.9
32.5°	3536.2	3102.5	1898.9	930.8	571.9	437.3	414.9	403.7	426.1	441.1	429.9
35°	3753.0	3278.2	1887.7	878.4	530.8	403.7	366.3	336.4	321.5	314.0	325.2
37.5°	3984.7	3397.9	1857.8	871.0	508.4	385.0	355.1	325.2	310.3	302.8	299.0
40°	4238.9	3524.9	1824.1	833.6	497.2	373.8	343.9	317.7	299.0	287.8	284.1
42.5°	4403.4	3625.9	1790.5	814.9	474.7	366.3	332.7	310.3	291.6	276.6	276.6
45°	4496.8	3745.5	1756.9	796.2	448.6	370.1	332.7	302.8	280.4	272.9	265.4
47.5°	4537.9	3835.2	1745.7	766.3	426.1	355.1	325.2	295.3	272.9	257.9	254.2
50°	4646.3	4025.8	1786.8	743.9	400.0	340.2	343.9	291.6	269.1	250.4	246.7
52.5°	4709.9	4179.1	1876.5	710.2	381.3	321.5	336.4	284.1	257.9	239.2	239.2
55°	4941.6	4433.3	1973.7	684.1	358.8	295.3	310.3	269.1	239.2	228.0	228.0
57.5°	5237.0	4702.4	2055.9	672.8	343.9	276.6	276.6	261.7	228.0	213.1	209.3
60°	5442.5	4923.0	2104.5	665.4	328.9	257.9	246.7	261.7	216.8	201.9	198.1
62.5°	5465.0	4795.9	2055.9	661.6	325.2	239.2	224.3	250.4	205.6	190.6	183.2
65°	5322.9	4537.9	1921.3	646.7	321.5	220.5	209.3	216.8	190.6	179.4	171.9
67.5°	5038.8	4119.3	1727.0	639.2	317.7	205.6	190.6	186.9	175.7	164.5	157.0
70°	4377.2	3573.5	1498.9	605.6	310.3	194.4	171.9	168.2	157.0	149.5	145.8
72.5°	3674.5	2923.1	1237.3	560.7	295.3	175.7	157.0	149.5	145.8	134.6	130.8
75°	2814.7	2250.3	990.6	497.2	257.9	157.0	138.3	130.8	127.1	119.6	115.9
77.5°	1977.4	1674.6	732.6	403.7	216.8	142.0	123.4	115.9	112.1	100.9	100.9
80°	1341.9	1173.7	497.2	280.4	168.2	115.9	108.4	100.9	93.5	86.0	86.0
82.5°	833.6	822.4	358.8	183.2	123.4	93.5	86.0	86.0	74.8	67.3	67.3
85°	381.3	504.6	250.4	127.1	93.5	71.0	71.0	67.3	59.8	48.6	48.6
87.5°	119.6	168.2	130.8	56.1	52.3	41.1	41.1	37.4	37.4	29.9	29.9
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°	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4
2.5°	2358.7	2354.9	2354.9	2340.0	2377.4	2377.4	2399.8	2381.1	2392.3	2396.1	2426.0
5°	1872.7	1902.6	1925.1	1969.9	1996.1	2007.3	2007.3	2037.2	2026.0	2048.4	2093.3
7.5°	1371.8	1409.2	1476.5	1532.6	1577.4	1592.4	1588.7	1596.1	1607.3	1581.2	1588.7
10°	1110.2	1084.0	1106.5	1158.8	1199.9	1248.5	1211.1	1207.4	1218.6	1207.4	1229.8
12.5°	927.0	897.1	878.4	878.4	908.3	930.8	919.6	938.2	979.4	990.6	1016.7
15°	751.3	725.2	710.2	691.5	721.4	728.9	740.1	766.3	796.2	811.1	841.1
17.5°	601.8	601.8	601.8	586.9	598.1	609.3	613.0	646.7	650.4	665.4	676.6
20°	493.4	504.6	523.3	530.8	542.0	542.0	534.5	553.2	538.3	549.5	557.0
22.5°	444.8	459.8	467.3	471.0	485.9	489.7	471.0	474.7	478.5	467.3	471.0
25°	418.7	426.1	418.7	422.4	426.1	418.7	422.4	429.9	426.1	433.6	429.9
27.5°	407.4	400.0	396.2	392.5	392.5	385.0	388.8	388.8	396.2	400.0	400.0
30°	407.4	396.2	381.3	370.1	370.1	358.8	366.3	373.8	377.5	385.0	385.0
32.5°	418.7	396.2	370.1	358.8	347.6	340.2	347.6	358.8	373.8	377.5	381.3
35°	332.7	343.9	340.2	325.2	321.5	321.5	317.7	317.7	306.5	306.5	302.8
37.5°	299.0	295.3	302.8	306.5	310.3	299.0	299.0	284.1	280.4	284.1	284.1
40°	280.4	280.4	280.4	291.6	295.3	287.8	276.6	269.1	269.1	269.1	272.9
42.5°	272.9	265.4	261.7	269.1	280.4	272.9	261.7	257.9	257.9	261.7	261.7
45°	261.7	257.9	254.2	250.4	265.4	254.2	250.4	246.7	246.7	246.7	250.4
47.5°	250.4	246.7	239.2	239.2	243.0	239.2	235.5	235.5	235.5	243.0	243.0
50°	243.0	239.2	231.8	231.8	231.8	231.8	228.0	228.0	228.0	231.8	235.5
52.5°	231.8	228.0	224.3	220.5	220.5	220.5	220.5	220.5	220.5	224.3	228.0
55°	220.5	216.8	213.1	213.1	216.8	216.8	213.1	216.8	213.1	216.8	220.5
57.5°	209.3	205.6	201.9	205.6	209.3	205.6	205.6	205.6	205.6	205.6	209.3
60°	194.4	194.4	194.4	194.4	201.9	201.9	201.9	201.9	194.4	198.1	201.9
62.5°	186.9	183.2	183.2	186.9	190.6	190.6	194.4	190.6	186.9	190.6	190.6
65°	171.9	171.9	171.9	175.7	175.7	179.4	179.4	179.4	175.7	179.4	179.4
67.5°	160.7	160.7	160.7	160.7	168.2	168.2	168.2	168.2	164.5	164.5	168.2
70°	142.0	145.8	142.0	149.5	157.0	153.3	157.0	157.0	153.3	149.5	157.0
72.5°	130.8	130.8	130.8	130.8	142.0	142.0	142.0	145.8	142.0	138.3	142.0
75°	115.9	115.9	115.9	119.6	127.1	127.1	127.1	127.1	127.1	123.4	123.4
77.5°	100.9	104.7	100.9	104.7	112.1	108.4	112.1	115.9	112.1	108.4	108.4
80°	86.0	86.0	86.0	89.7	93.5	93.5	93.5	97.2	93.5	89.7	89.7
82.5°	67.3	67.3	71.0	71.0	74.8	74.8	74.8	78.5	74.8	71.0	71.0
85°	52.3	52.3	52.3	56.1	56.1	59.8	59.8	63.5	63.5	59.8	59.8
87.5°	33.6	29.9	33.6	33.6	37.4	37.4	33.6	29.9	33.6	29.9	26.2
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°	359°	360°
0°	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4	2691.4
2.5°	2455.9	2523.2	2571.8	2605.4	2654.0	2747.4	2784.8	2852.1	2870.8	2882.0
5°	2112.0	2183.0	2287.7	2362.4	2448.4	2624.1	2758.7	2859.6	2904.4	2945.6
7.5°	1655.9	1749.4	1857.8	1955.0	2097.0	2313.8	2489.5	2698.8	2777.3	2818.5
10°	1293.4	1379.3	1498.9	1618.6	1816.7	1999.8	2250.3	2440.9	2549.3	2579.2
12.5°	1091.5	1192.4	1334.5	1480.3	1603.6	1812.9	2067.1	2343.7	2444.7	2463.3
15°	927.0	1065.3	1211.1	1360.6	1502.7	1685.8	1958.7	2295.1	2444.7	2463.3
17.5°	766.3	889.6	1061.6	1222.3	1386.8	1637.2	1977.4	2336.3	2485.8	2541.8
20°	609.3	728.9	863.5	1065.3	1289.6	1555.0	2018.5	2474.6	2672.7	2732.5
22.5°	504.6	557.0	687.8	882.2	1147.6	1498.9	2059.6	2691.4	2900.7	2923.1
25°	441.1	478.5	560.7	743.9	1035.4	1461.6	2156.8	2941.8	3211.0	3211.0
27.5°	411.2	426.1	482.2	646.7	956.9	1427.9	2254.0	3218.4	3468.9	3521.2
30°	403.7	441.1	471.0	575.7	871.0	1334.5	2343.7	3435.2	3693.2	3696.9
32.5°	396.2	388.8	411.2	500.9	766.3	1237.3	2418.5	3655.8	3857.6	3868.8
35°	310.3	325.2	362.6	441.1	687.8	1166.3	2455.9	3775.4	4067.0	4078.2
37.5°	291.6	310.3	340.2	407.4	635.5	1106.5	2467.1	4007.1	4287.5	4309.9
40°	284.1	299.0	321.5	377.5	594.3	1031.7	2489.5	4246.4	4612.7	4582.8
42.5°	269.1	287.8	310.3	362.6	560.7	975.6	2493.3	4377.2	4784.7	4784.7
45°	265.4	276.6	302.8	362.6	523.3	927.0	2433.4	4508.0	4982.8	4923.0
47.5°	250.4	272.9	295.3	351.4	478.5	878.4	2362.4	4575.3	5008.9	4990.2
50°	246.7	269.1	306.5	332.7	452.3	856.0	2347.5	4743.5	5061.3	5057.5
52.5°	239.2	261.7	317.7	317.7	418.7	826.1	2418.5	4818.3	5072.5	5102.4
55°	228.0	261.7	295.3	291.6	388.8	788.7	2497.0	5012.7	5270.6	5263.1
57.5°	220.5	254.2	280.4	265.4	355.1	762.6	2612.9	5199.6	5509.8	5457.5
60°	209.3	254.2	250.4	246.7	328.9	740.1	2710.1	5237.0	5562.2	5595.8
62.5°	201.9	265.4	220.5	228.0	306.5	728.9	2668.9	4956.6	5491.1	5521.0
65°	194.4	228.0	201.9	209.3	299.0	706.5	2508.2	4620.2	5184.6	5315.5
67.5°	179.4	186.9	186.9	194.4	291.6	654.2	2179.3	4014.6	4717.4	4788.4
70°	164.5	168.2	168.2	179.4	284.1	594.3	1798.0	3472.6	4093.1	4227.7
72.5°	149.5	149.5	149.5	164.5	261.7	545.7	1480.3	2668.9	3401.6	3495.0
75°	130.8	130.8	130.8	145.8	235.5	497.2	1166.3	1984.9	2504.5	2639.0
77.5°	115.9	115.9	112.1	130.8	205.6	403.7	841.1	1401.8	1764.3	1876.5
80°	97.2	93.5	93.5	104.7	160.7	291.6	542.0	990.6	1229.8	1278.4
82.5°	78.5	74.8	71.0	78.5	115.9	183.2	336.4	691.5	788.7	758.8
85°	74.8	78.5	63.5	59.8	82.2	119.6	213.1	426.1	355.1	355.1
87.5°	29.9	26.2	26.2	22.4	41.1	44.9	93.5	78.5	59.8	59.8
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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