

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: P677392

Luminaire Tested: **CCW-SA-2E-722-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677392
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-722-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

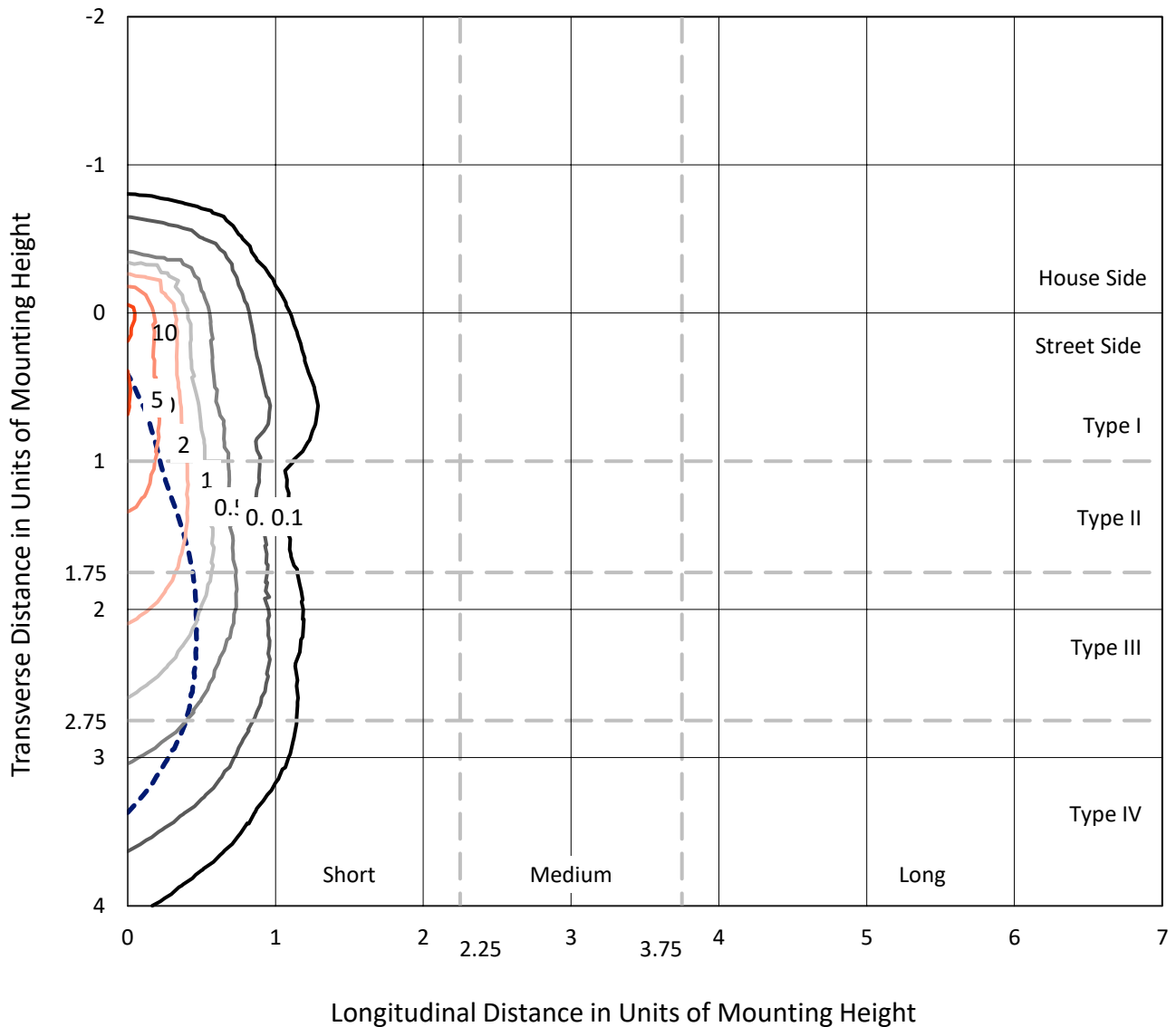
Lumens per Lamp: N/A
Luminaire Lumens: 7237.8 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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

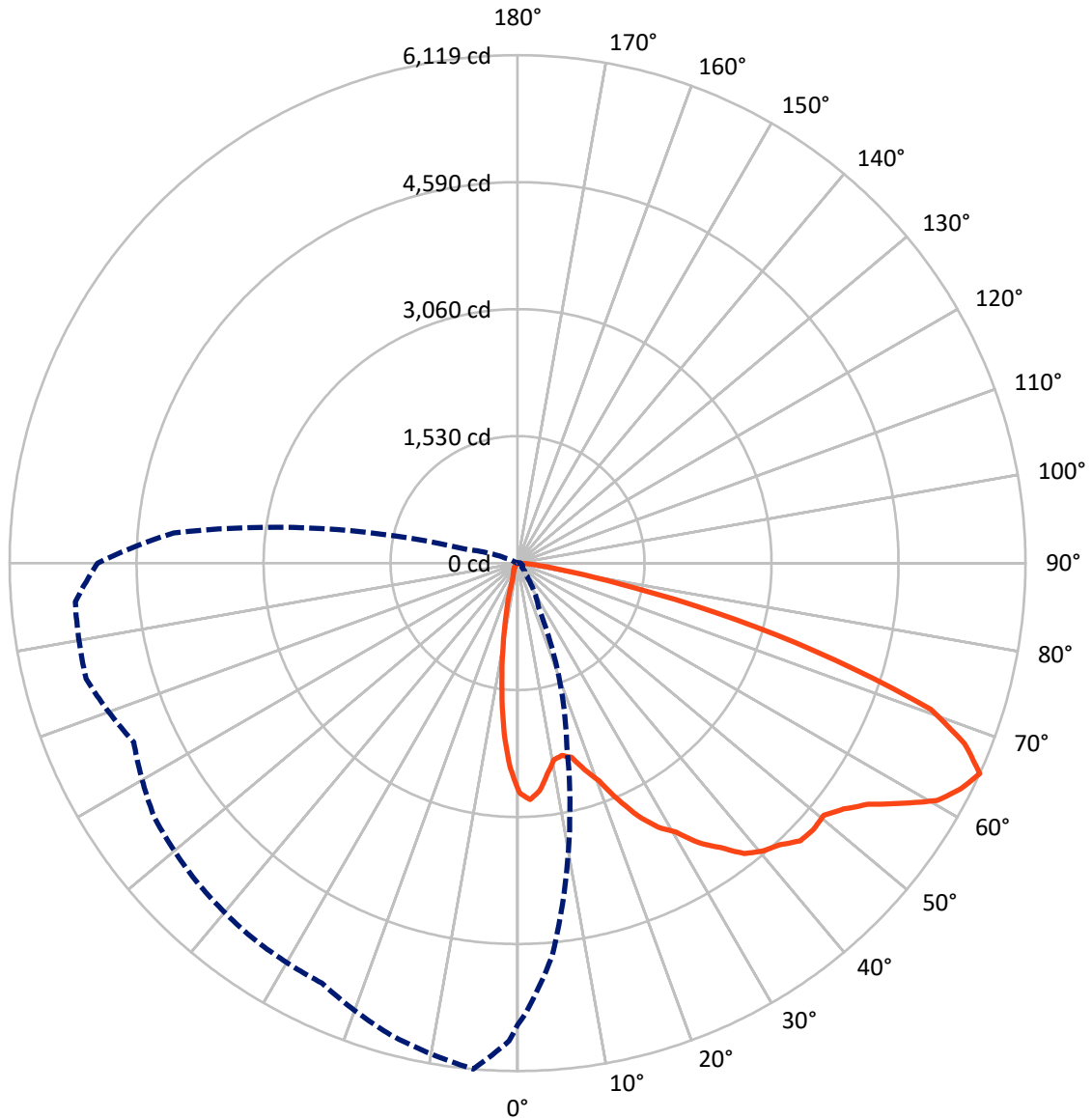
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	939.7	0.0	939.7
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	6298.0	0.0	6298.0
	% Fixture	87.0	0.0	87.0
Total	Lumens	7237.8	0.0	7237.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	2.9
10°-20°	405.9	5.6
20°-30°	565.3	7.8
30°-40°	803.2	11.1
40°-50°	1113.8	15.4
50°-60°	1517.6	21.0
60°-70°	1668.5	23.1
70°-80°	820.1	11.3
80°-90°	133.9	1.9
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°	7237.8	100.0
0°-180°	7237.8	100.0



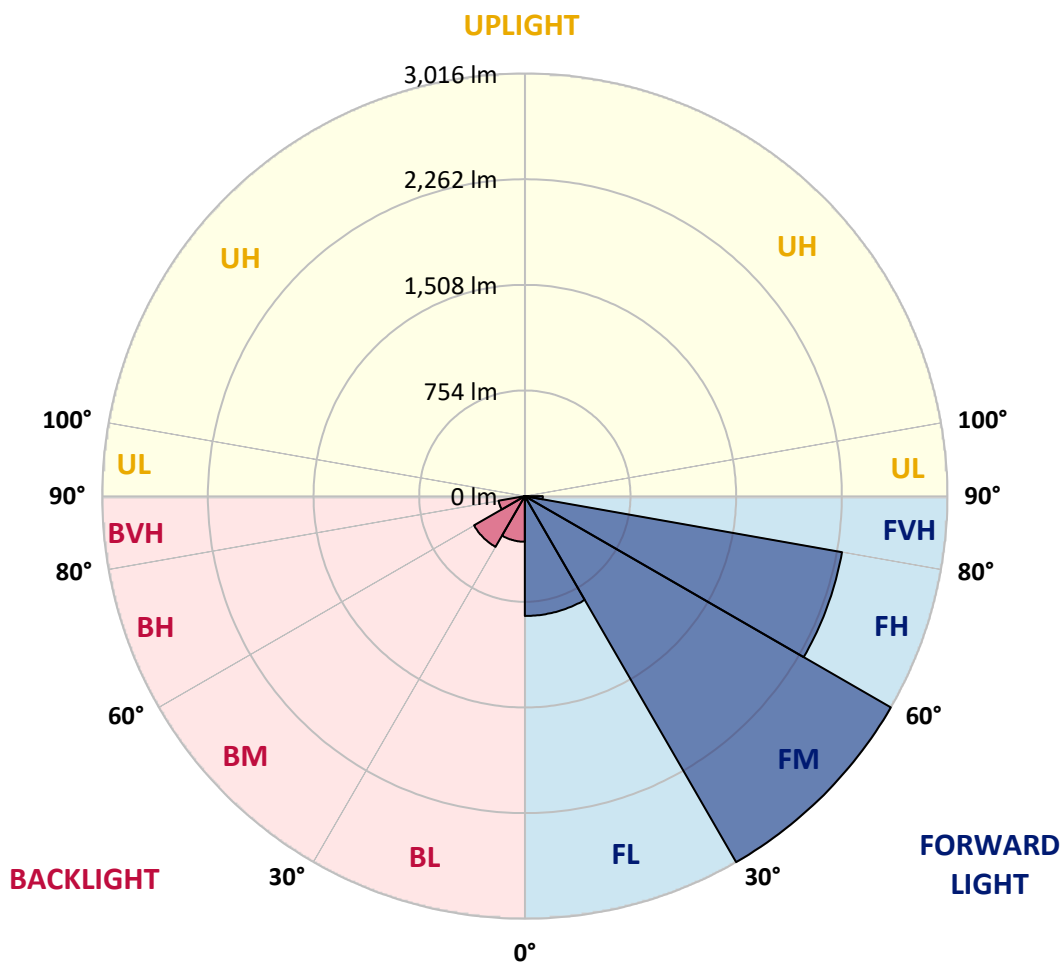
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	855.4	11.8			
FM (30°-60°)	3016.2	41.7			
FH (60°-80°)	2298.6	31.8			G2/5000
FVH (80°-90°)	127.9	1.8			G2/225
BL (0°-30°)	325.4	4.5	B1/500		
BM (30°-60°)	418.4	5.8	B1/1000		
BH (60°-80°)	189.9	2.6	B1/500		G1/500
BVH (80°-90°)	6.0	0.1			G0/10
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°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0
2.5°	2823.6	2856.7	2825.5	2716.3	2696.7	2644.1	2564.0	2558.2	2474.3	2484.0	2439.2
5°	2653.8	2687.0	2620.6	2476.2	2341.6	2234.3	2169.9	2054.8	2029.4	1972.8	1972.8
7.5°	2480.1	2478.2	2365.0	2244.0	2043.0	1846.0	1756.2	1590.3	1492.8	1440.1	1389.3
10°	2335.7	2304.5	2234.3	1984.5	1766.0	1561.1	1449.8	1340.6	1239.1	1151.3	1063.5
12.5°	2234.3	2253.8	2142.6	1871.3	1588.4	1445.9	1326.9	1211.8	1090.8	991.3	893.7
15°	2287.0	2255.7	2125.0	1846.0	1559.1	1364.0	1205.9	1065.4	930.8	800.0	725.9
17.5°	2450.9	2370.9	2216.7	1846.0	1498.6	1239.1	1047.9	882.0	737.6	620.5	528.8
20°	2671.4	2579.7	2413.8	1914.3	1453.7	1147.4	885.9	677.1	526.9	417.6	347.3
22.5°	2897.7	2825.5	2575.8	1941.6	1401.1	1024.4	698.6	489.8	351.2	281.0	245.9
25°	3169.0	3067.5	2794.3	2050.8	1323.0	905.4	550.3	341.5	261.5	224.4	202.9
27.5°	3385.6	3368.0	2999.2	2117.2	1264.5	807.9	435.1	271.2	216.6	189.3	175.6
30°	3658.7	3563.1	3249.0	2249.9	1198.1	696.6	362.9	243.9	199.0	169.8	160.0
32.5°	3822.7	3777.8	3379.7	2324.0	1124.0	604.9	312.2	214.6	181.5	160.0	150.3
35°	4060.7	3971.0	3567.0	2370.9	1084.9	552.2	281.0	195.1	152.2	130.7	119.0
37.5°	4326.1	4292.9	3791.4	2368.9	1028.4	521.0	259.5	181.5	144.4	121.0	107.3
40°	4597.3	4462.7	3928.0	2423.6	999.1	497.6	243.9	173.7	136.6	115.1	97.6
42.5°	4800.3	4646.1	4086.1	2404.0	964.0	456.6	238.1	162.0	130.7	105.4	89.8
45°	4854.9	4800.3	4228.5	2398.2	938.6	423.4	228.3	160.0	126.8	99.5	83.9
47.5°	4960.3	4923.2	4404.2	2407.9	919.1	398.1	204.9	163.9	121.0	93.7	80.0
50°	5007.1	4940.8	4546.6	2431.4	874.2	366.9	183.4	171.7	119.0	91.7	76.1
52.5°	5200.3	5141.8	4741.7	2497.7	837.1	325.9	162.0	163.9	122.9	85.9	72.2
55°	5389.6	5323.2	5042.2	2649.9	784.4	292.7	138.5	144.4	117.1	78.1	64.4
57.5°	5649.1	5539.8	5243.2	2712.4	737.6	247.8	122.9	119.0	109.3	70.2	56.6
60°	5688.1	5733.0	5214.0	2673.3	688.8	218.5	107.3	91.7	117.1	62.4	48.8
62.5°	5818.9	5631.5	5077.4	2583.6	653.7	201.0	95.6	76.1	101.5	54.6	41.0
65°	5567.1	5428.6	4757.3	2294.8	608.8	202.9	83.9	62.4	64.4	44.9	33.2
67.5°	5198.3	5089.1	4226.6	1980.6	563.9	199.0	74.2	54.6	48.8	39.0	29.3
70°	4562.2	4326.1	3590.5	1607.9	497.6	185.4	62.4	48.8	41.0	31.2	21.5
72.5°	3319.2	3223.6	2575.8	1243.0	446.9	167.8	58.5	41.0	35.1	23.4	17.6
75°	2234.3	2076.2	1625.5	815.7	359.0	146.3	48.8	37.1	27.3	17.6	13.7
77.5°	1180.6	1116.2	921.0	388.3	199.0	68.3	27.3	21.5	15.6	13.7	7.8
80°	511.2	454.7	398.1	158.1	70.2	31.2	17.6	11.7	9.8	7.8	3.9
82.5°	261.5	249.8	206.8	68.3	41.0	23.4	9.8	7.8	5.9	3.9	2.0
85°	128.8	132.7	109.3	21.5	23.4	13.7	2.0	2.0	0.0	0.0	0.0
87.5°	9.8	9.8	7.8	3.9	5.9	2.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0
2.5°	2421.6	2448.9	2402.1	2431.4	2417.7	2423.6	2429.4	2413.8	2417.7	2472.3	2474.3
5°	1939.6	1992.3	1972.8	2000.1	2046.9	2023.5	2045.0	2041.1	2045.0	2052.8	2087.9
7.5°	1383.5	1367.9	1405.0	1477.2	1561.1	1611.8	1586.4	1572.8	1565.0	1545.5	1568.9
10°	1044.0	1036.2	1026.4	1047.9	1102.5	1159.1	1190.3	1137.6	1108.4	1071.3	1057.6
12.5°	866.4	817.6	790.3	757.1	772.7	823.5	825.4	774.7	727.8	708.3	729.8
15°	683.0	649.8	601.0	554.2	530.8	569.8	536.6	487.8	427.3	419.5	417.6
17.5°	487.8	468.3	433.2	413.7	386.4	376.6	341.5	267.3	224.4	212.7	216.6
20°	331.7	316.1	314.2	296.6	284.9	277.1	220.5	171.7	158.1	160.0	162.0
22.5°	245.9	238.1	228.3	226.4	216.6	206.8	162.0	144.4	134.6	134.6	140.5
25°	201.0	197.1	187.3	183.4	179.5	165.9	136.6	122.9	119.0	115.1	121.0
27.5°	171.7	169.8	163.9	158.1	154.2	140.5	119.0	107.3	103.4	103.4	103.4
30°	154.2	154.2	146.3	134.6	134.6	119.0	101.5	93.7	89.8	89.8	87.8
32.5°	144.4	140.5	130.7	122.9	117.1	101.5	89.8	82.0	76.1	76.1	78.1
35°	117.1	117.1	115.1	109.3	101.5	85.9	76.1	68.3	64.4	62.4	64.4
37.5°	103.4	97.6	89.8	91.7	87.8	74.2	64.4	58.5	52.7	52.7	52.7
40°	93.7	87.8	80.0	74.2	72.2	66.3	56.6	46.8	41.0	39.0	39.0
42.5°	83.9	80.0	68.3	58.5	56.6	56.6	42.9	35.1	29.3	29.3	29.3
45°	78.1	72.2	62.4	50.7	41.0	42.9	35.1	25.4	21.5	19.5	19.5
47.5°	74.2	68.3	54.6	42.9	31.2	31.2	25.4	17.6	13.7	11.7	11.7
50°	68.3	62.4	48.8	35.1	23.4	19.5	15.6	9.8	5.9	3.9	3.9
52.5°	64.4	58.5	42.9	29.3	19.5	13.7	9.8	2.0	0.0	0.0	0.0
55°	58.5	50.7	37.1	23.4	15.6	7.8	2.0	0.0	0.0	0.0	0.0
57.5°	50.7	44.9	29.3	17.6	9.8	2.0	0.0	0.0	0.0	0.0	0.0
60°	42.9	37.1	23.4	13.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	35.1	31.2	17.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	29.3	23.4	13.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	25.4	19.5	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	19.5	13.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13.7	9.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0
2.5°	2482.1	2540.6	2595.3	2610.9	2653.8	2772.8	2772.8	2829.4	2930.9	2968.0	2975.8
5°	2093.8	2156.2	2167.9	2288.9	2345.5	2466.5	2546.5	2737.7	2852.8	2925.0	2969.9
7.5°	1592.3	1613.8	1658.6	1771.8	1883.0	2029.4	2181.6	2425.5	2628.4	2710.4	2862.6
10°	1094.7	1159.1	1256.7	1358.1	1531.8	1693.8	1890.8	2121.1	2370.9	2472.3	2603.1
12.5°	737.6	827.4	983.5	1127.9	1287.9	1451.8	1639.1	1947.4	2230.4	2370.9	2501.6
15°	431.2	540.5	675.2	909.3	1122.0	1305.4	1492.8	1805.0	2148.4	2329.9	2489.9
17.5°	218.5	251.7	362.9	565.9	846.9	1147.4	1426.4	1824.5	2210.9	2433.3	2566.0
20°	163.9	173.7	204.9	300.5	579.5	948.3	1364.0	1853.8	2384.5	2655.8	2728.0
22.5°	142.4	150.3	163.9	195.1	325.9	725.9	1276.2	1926.0	2620.6	2876.3	3028.5
25°	121.0	128.8	140.5	160.0	208.8	493.7	1168.8	2002.1	2831.4	3153.4	3295.8
27.5°	105.4	111.2	122.9	138.5	169.8	314.2	983.5	2103.5	3153.4	3489.0	3526.1
30°	89.8	95.6	105.4	122.9	144.4	222.5	722.0	2117.2	3330.9	3635.3	3738.8
32.5°	78.1	80.0	91.7	107.3	121.0	175.6	507.3	2130.9	3461.7	3824.6	3846.1
35°	64.4	68.3	80.0	89.8	105.4	138.5	384.4	2062.6	3631.4	4019.7	4013.9
37.5°	52.7	58.5	66.3	74.2	85.9	117.1	306.4	1935.7	3844.1	4322.2	4138.8
40°	41.0	46.8	54.6	64.4	72.2	105.4	230.3	1744.5	4066.6	4470.5	4275.4
42.5°	29.3	33.2	41.0	50.7	64.4	87.8	165.9	1518.1	4154.4	4644.2	4439.3
45°	21.5	25.4	31.2	42.9	66.3	70.2	115.1	1311.3	4248.0	4720.3	4402.2
47.5°	11.7	15.6	23.4	37.1	58.5	52.7	82.0	1125.9	4355.4	4788.6	4431.5
50°	3.9	5.9	13.7	39.0	46.8	41.0	64.4	1026.4	4460.7	4802.2	4490.0
52.5°	0.0	0.0	7.8	41.0	35.1	31.2	56.6	987.4	4433.4	4845.2	4452.9
55°	0.0	0.0	2.0	17.6	19.5	23.4	46.8	985.4	4626.6	4858.8	4655.9
57.5°	0.0	0.0	0.0	5.9	11.7	19.5	41.0	923.0	4749.5	5198.3	4929.1
60°	0.0	0.0	0.0	2.0	7.8	13.7	31.2	868.3	4874.4	5350.6	5221.8
62.5°	0.0	0.0	0.0	0.0	2.0	5.9	21.5	784.4	4622.7	5338.8	5504.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	13.7	620.5	4158.3	5059.8	5348.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.8	429.3	3641.2	4708.6	5061.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	259.5	2938.7	4129.0	4292.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111.2	2097.7	3278.2	3522.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.9	1297.6	2396.2	2696.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	841.0	1814.7	2046.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	448.8	1137.6	1323.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	195.1	690.8	796.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.4	419.5	478.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.4	85.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0
2.5°	2979.7	3036.3	3057.7	3024.6	3028.5	2960.2	2950.4	2854.8	2815.8	2823.6
5°	3116.3	3198.2	3243.1	3206.0	3122.1	2991.4	2872.4	2759.2	2688.9	2653.8
7.5°	3085.1	3176.8	3233.4	3268.5	3172.9	2962.1	2780.6	2568.0	2478.2	2480.1
10°	2913.3	3104.6	3219.7	3174.8	3129.9	2919.2	2638.2	2407.9	2327.9	2335.7
12.5°	2774.8	2987.5	3055.8	3090.9	2999.2	2831.4	2642.1	2378.7	2288.9	2234.3
15°	2688.9	2847.0	2850.9	2905.5	2868.5	2868.5	2683.1	2425.5	2347.5	2287.0
17.5°	2688.9	2724.1	2720.2	2739.7	2802.1	2876.3	2786.5	2614.8	2460.6	2450.9
20°	2749.4	2640.2	2614.8	2622.6	2675.3	2895.8	3014.8	2800.2	2702.6	2671.4
22.5°	2889.9	2649.9	2495.8	2468.4	2630.4	2893.8	3161.2	3092.9	2923.1	2897.7
25°	3083.1	2632.3	2464.5	2429.4	2552.3	2964.1	3362.1	3375.8	3221.6	3169.0
27.5°	3266.5	2710.4	2460.6	2452.8	2614.8	2948.5	3500.7	3602.2	3428.5	3385.6
30°	3329.0	2788.5	2532.8	2429.4	2638.2	3005.1	3496.8	3762.2	3649.0	3658.7
32.5°	3403.1	2866.5	2540.6	2499.7	2737.7	3096.8	3608.0	4019.7	3937.8	3822.7
35°	3512.4	2971.9	2614.8	2577.7	2808.0	3178.7	3631.4	4209.0	4195.4	4060.7
37.5°	3606.1	3075.3	2768.9	2774.8	3022.6	3311.4	3734.8	4441.2	4417.8	4326.1
40°	3672.4	3219.7	3009.0	3024.6	3209.9	3459.7	3918.3	4558.3	4732.0	4597.3
42.5°	3682.2	3348.5	3284.1	3409.0	3582.6	3690.0	3992.4	4638.3	4888.1	4800.3
45°	3719.2	3553.4	3732.9	3824.6	3967.1	3892.9	3988.5	4774.9	4899.8	4854.9
47.5°	3863.6	3926.1	4152.4	4431.5	4482.2	4238.3	4082.2	4796.4	4966.1	4960.3
50°	4013.9	4326.1	4644.2	4829.5	4893.9	4476.4	4170.0	4778.8	5053.9	5007.1
52.5°	4181.7	4673.4	5132.0	5360.3	5325.2	4739.8	4269.5	4921.3	5215.9	5200.3
55°	4287.1	4829.5	5446.2	5764.2	5736.9	5034.4	4585.6	5126.1	5428.6	5389.6
57.5°	4566.1	5083.2	5758.4	5906.7	5978.9	5420.8	4806.1	5461.8	5606.2	5649.1
60°	4796.4	5249.1	5840.3	6055.0	6080.3	5651.1	5192.5	5807.2	5832.5	5688.1
62.5°	5134.0	5313.5	5666.7	5859.8	5990.6	5781.8	5539.8	5992.5	5828.6	5818.9
65°	5381.8	5102.7	5342.7	5450.1	5534.0	5582.8	5889.1	6119.4	5756.4	5567.1
67.5°	5243.2	4704.7	4659.8	4665.6	4691.0	4985.7	5772.0	5809.1	5354.5	5198.3
70°	4614.9	3859.7	3799.2	3846.1	3719.2	4074.4	5297.9	5280.3	4724.2	4562.2
72.5°	3732.9	2813.8	2710.4	2774.8	2804.1	3180.7	4456.8	4004.1	3446.1	3319.2
75°	2966.0	2062.6	1740.6	1896.7	1996.2	2316.2	3481.2	2720.2	2406.0	2234.3
77.5°	2329.9	1561.1	1354.2	1291.8	1383.5	1684.0	2532.8	1428.4	1260.6	1180.6
80°	1477.2	1147.4	1244.9	1155.2	1194.2	1202.0	1319.1	649.8	517.1	511.2
82.5°	889.8	784.4	932.7	513.2	934.7	835.2	548.3	294.7	261.5	261.5
85°	630.3	485.9	322.0	208.8	415.6	458.6	212.7	152.2	132.7	128.8
87.5°	316.1	150.3	72.2	46.8	52.7	85.9	25.4	11.7	11.7	9.8
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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