

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: P677490

Luminaire Tested: **CCW-SA-2D-835-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677490
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-835-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

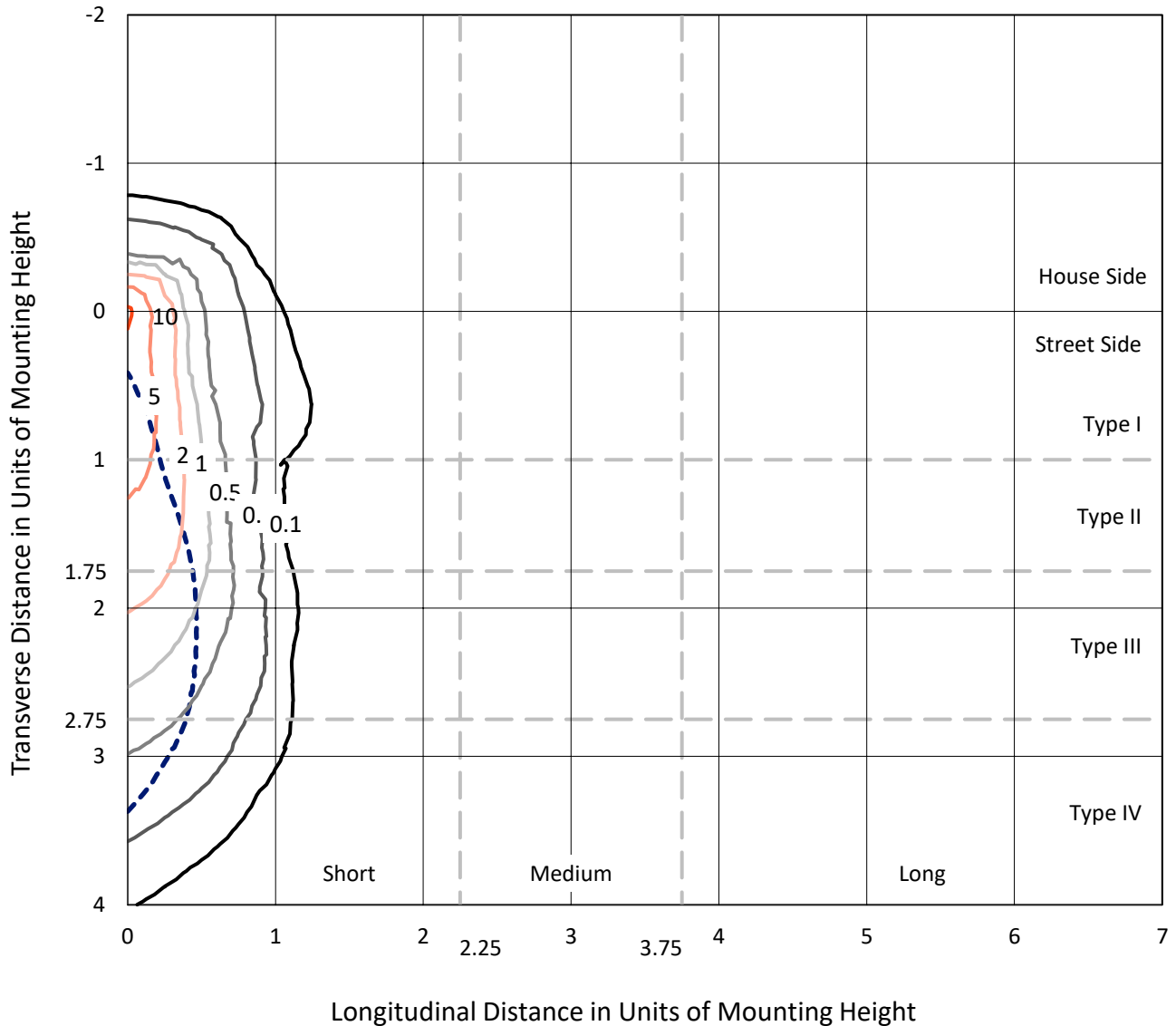
Lumens per Lamp: N/A
Luminaire Lumens: 6604.2 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

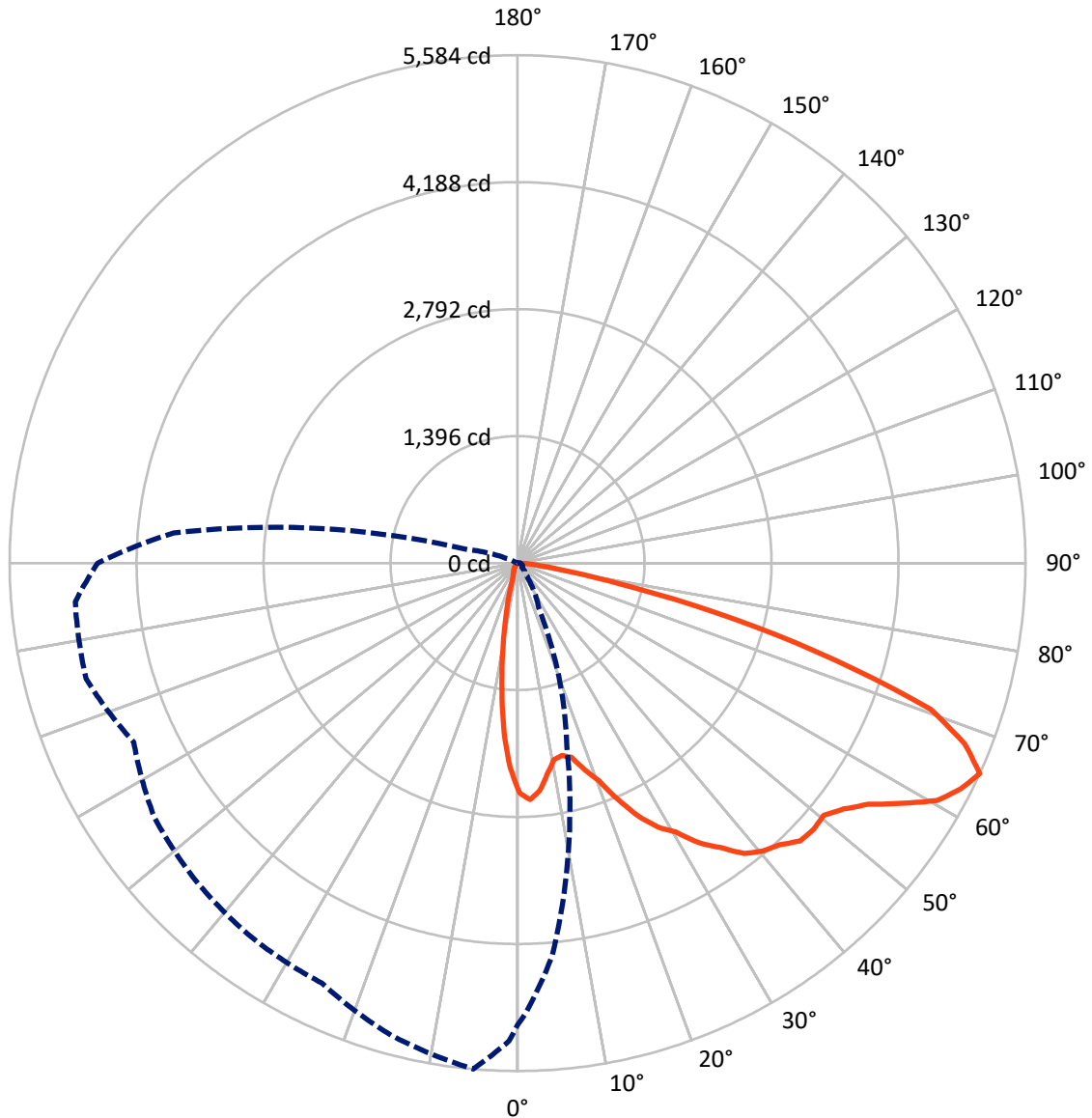
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.2 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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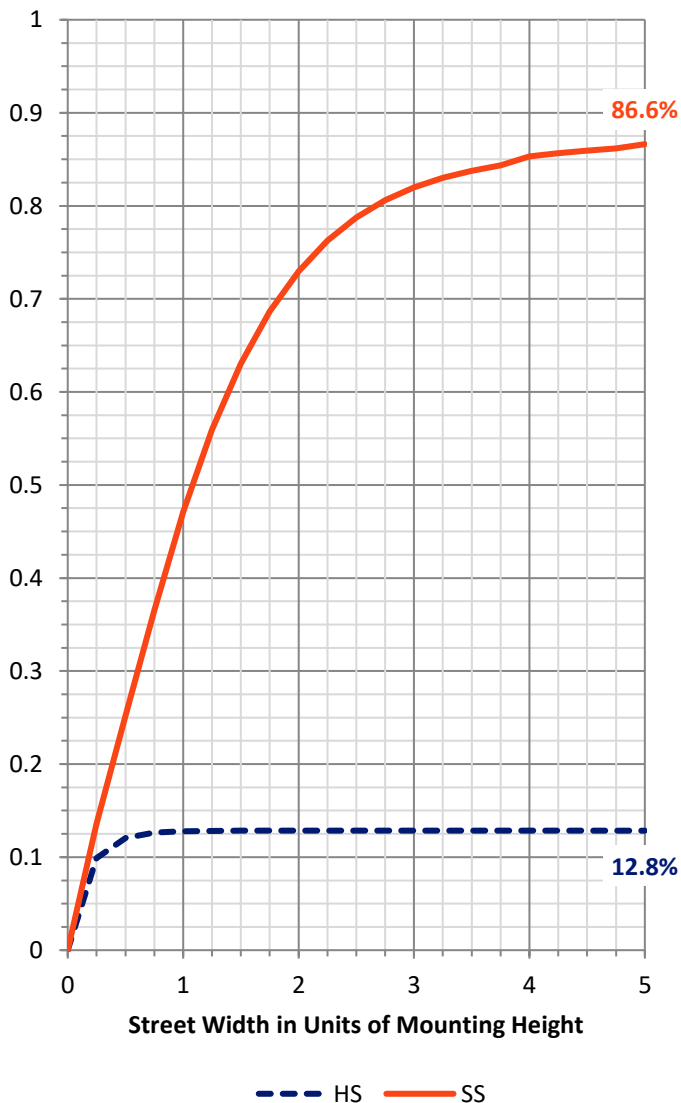
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	857.5	0.0	857.5
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	5746.7	0.0	5746.7
	% Fixture	87.0	0.0	87.0
Total	Lumens	6604.2	0.0	6604.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	2.9
10°-20°	370.3	5.6
20°-30°	515.8	7.8
30°-40°	732.9	11.1
40°-50°	1016.3	15.4
50°-60°	1384.7	21.0
60°-70°	1522.4	23.1
70°-80°	748.3	11.3
80°-90°	122.2	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°	6604.2	100.0
0°-180°	6604.2	100.0



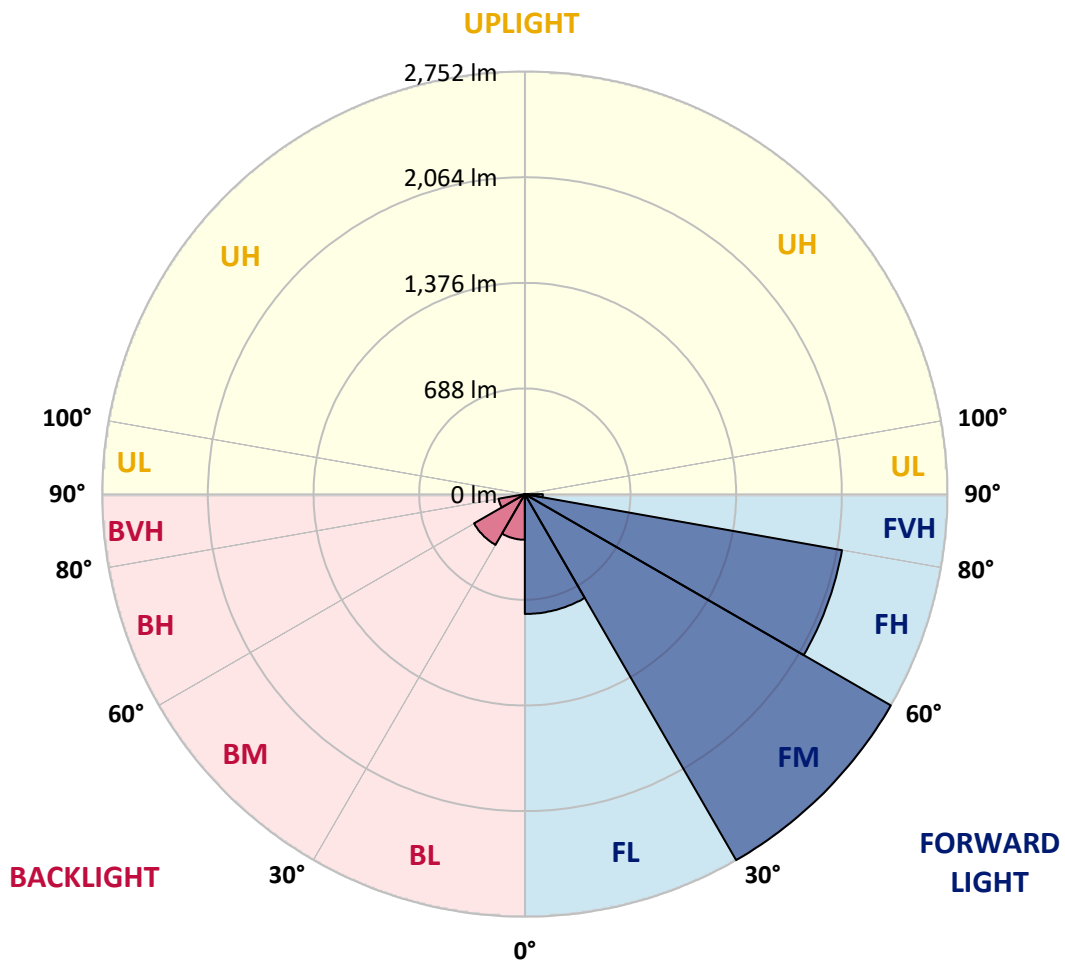
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	780.5	11.8			
FM (30°-60°)	2752.1	41.7			
FH (60°-80°)	2097.4	31.8			G2/5000
FVH (80°-90°)	116.7	1.8			G2/225
BL (0°-30°)	296.9	4.5	B1/500		
BM (30°-60°)	381.8	5.8	B1/1000		
BH (60°-80°)	173.3	2.6	B1/500		G1/500
BVH (80°-90°)	5.5	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°	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8
2.5°	2576.4	2606.7	2578.2	2478.5	2460.7	2412.6	2339.6	2334.2	2257.7	2266.6	2225.6
5°	2421.5	2451.8	2391.2	2259.5	2136.6	2038.7	1979.9	1874.9	1851.7	1800.1	1800.1
7.5°	2263.0	2261.2	2158.0	2047.6	1864.2	1684.4	1602.5	1451.1	1362.1	1314.0	1267.7
10°	2131.3	2102.8	2038.7	1810.8	1611.4	1424.4	1322.9	1223.2	1130.6	1050.5	970.4
12.5°	2038.7	2056.5	1955.0	1707.5	1449.3	1319.4	1210.7	1105.7	995.3	904.5	815.5
15°	2086.8	2058.3	1939.0	1684.4	1422.6	1244.6	1100.4	972.2	849.3	730.0	662.3
17.5°	2236.3	2163.3	2022.7	1684.4	1367.4	1130.6	956.1	804.8	673.0	566.2	482.5
20°	2437.5	2353.8	2202.5	1746.7	1326.5	1046.9	808.4	617.8	480.7	381.0	316.9
22.5°	2644.1	2578.2	2350.3	1771.6	1278.4	934.8	637.4	446.9	320.5	256.4	224.3
25°	2891.5	2799.0	2549.7	1871.3	1207.2	826.2	502.1	311.6	238.6	204.8	185.2
27.5°	3089.2	3073.2	2736.6	1931.9	1153.8	737.1	397.1	247.5	197.6	172.7	160.2
30°	3338.5	3251.2	2964.5	2052.9	1093.2	635.6	331.2	222.6	181.6	154.9	146.0
32.5°	3488.0	3447.1	3083.8	2120.6	1025.6	552.0	284.9	195.9	165.6	146.0	137.1
35°	3705.2	3623.3	3254.8	2163.3	990.0	503.9	256.4	178.1	138.9	119.3	108.6
37.5°	3947.4	3917.1	3459.5	2161.5	938.3	475.4	236.8	165.6	131.8	110.4	97.9
40°	4194.9	4072.0	3584.2	2211.4	911.6	454.0	222.6	158.5	124.6	105.1	89.0
42.5°	4380.1	4239.4	3728.4	2193.6	879.6	416.6	217.2	147.8	119.3	96.1	81.9
45°	4429.9	4380.1	3858.4	2188.2	856.4	386.4	208.3	146.0	115.7	90.8	76.6
47.5°	4526.1	4492.2	4018.6	2197.1	838.6	363.2	187.0	149.6	110.4	85.5	73.0
50°	4568.8	4508.2	4148.6	2218.5	797.7	334.7	167.4	156.7	108.6	83.7	69.4
52.5°	4745.1	4691.6	4326.6	2279.1	763.8	297.3	147.8	149.6	112.2	78.3	65.9
55°	4917.8	4857.2	4600.8	2417.9	715.8	267.1	126.4	131.8	106.8	71.2	58.8
57.5°	5154.6	5054.9	4784.2	2474.9	673.0	226.1	112.2	108.6	99.7	64.1	51.6
60°	5190.2	5231.1	4757.5	2439.3	628.5	199.4	97.9	83.7	106.8	57.0	44.5
62.5°	5309.5	5138.5	4632.9	2357.4	596.5	183.4	87.2	69.4	92.6	49.9	37.4
65°	5079.8	4953.4	4340.9	2093.9	555.5	185.2	76.6	57.0	58.8	41.0	30.3
67.5°	4743.3	4643.6	3856.6	1807.2	514.6	181.6	67.7	49.9	44.5	35.6	26.7
70°	4162.8	3947.4	3276.1	1467.1	454.0	169.1	57.0	44.5	37.4	28.5	19.6
72.5°	3028.6	2941.4	2350.3	1134.2	407.7	153.1	53.4	37.4	32.0	21.4	16.0
75°	2038.7	1894.5	1483.2	744.3	327.6	133.5	44.5	33.8	24.9	16.0	12.5
77.5°	1077.2	1018.5	840.4	354.3	181.6	62.3	24.9	19.6	14.2	12.5	7.1
80°	466.5	414.9	363.2	144.2	64.1	28.5	16.0	10.7	8.9	7.1	3.6
82.5°	238.6	227.9	188.7	62.3	37.4	21.4	8.9	7.1	5.3	3.6	1.8
85°	117.5	121.1	99.7	19.6	21.4	12.5	1.8	1.8	0.0	0.0	0.0
87.5°	8.9	8.9	7.1	3.6	5.3	1.8	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°	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8
2.5°	2209.6	2234.5	2191.8	2218.5	2206.1	2211.4	2216.7	2202.5	2206.1	2255.9	2257.7
5°	1769.8	1817.9	1800.1	1825.0	1867.8	1846.4	1866.0	1862.4	1866.0	1873.1	1905.1
7.5°	1262.4	1248.1	1282.0	1347.8	1424.4	1470.7	1447.6	1435.1	1428.0	1410.2	1431.5
10°	952.6	945.5	936.5	956.1	1006.0	1057.6	1086.1	1038.0	1011.3	977.5	965.0
12.5°	790.5	746.0	721.1	690.8	705.1	751.4	753.2	706.9	664.1	646.3	665.9
15°	623.2	592.9	548.4	505.7	484.3	519.9	489.6	445.1	389.9	382.8	381.0
17.5°	445.1	427.3	395.3	377.5	352.5	343.6	311.6	243.9	204.8	194.1	197.6
20°	302.7	288.4	286.7	270.6	260.0	252.8	201.2	156.7	144.2	146.0	147.8
22.5°	224.3	217.2	208.3	206.5	197.6	188.7	147.8	131.8	122.9	122.9	128.2
25°	183.4	179.8	170.9	167.4	163.8	151.3	124.6	112.2	108.6	105.1	110.4
27.5°	156.7	154.9	149.6	144.2	140.7	128.2	108.6	97.9	94.4	94.4	94.4
30°	140.7	140.7	133.5	122.9	122.9	108.6	92.6	85.5	81.9	81.9	80.1
32.5°	131.8	128.2	119.3	112.2	106.8	92.6	81.9	74.8	69.4	69.4	71.2
35°	106.8	106.8	105.1	99.7	92.6	78.3	69.4	62.3	58.8	57.0	58.8
37.5°	94.4	89.0	81.9	83.7	80.1	67.7	58.8	53.4	48.1	48.1	48.1
40°	85.5	80.1	73.0	67.7	65.9	60.5	51.6	42.7	37.4	35.6	35.6
42.5°	76.6	73.0	62.3	53.4	51.6	51.6	39.2	32.0	26.7	26.7	26.7
45°	71.2	65.9	57.0	46.3	37.4	39.2	32.0	23.1	19.6	17.8	17.8
47.5°	67.7	62.3	49.9	39.2	28.5	28.5	23.1	16.0	12.5	10.7	10.7
50°	62.3	57.0	44.5	32.0	21.4	17.8	14.2	8.9	5.3	3.6	3.6
52.5°	58.8	53.4	39.2	26.7	17.8	12.5	8.9	1.8	0.0	0.0	0.0
55°	53.4	46.3	33.8	21.4	14.2	7.1	1.8	0.0	0.0	0.0	0.0
57.5°	46.3	41.0	26.7	16.0	8.9	1.8	0.0	0.0	0.0	0.0	0.0
60°	39.2	33.8	21.4	12.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	32.0	28.5	16.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	26.7	21.4	12.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	23.1	17.8	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.8	12.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12.5	8.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.8	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°	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8
2.5°	2264.8	2318.2	2368.1	2382.3	2421.5	2530.1	2530.1	2581.7	2674.3	2708.2	2715.3
5°	1910.5	1967.5	1978.1	2088.5	2140.2	2250.6	2323.6	2498.1	2603.1	2669.0	2709.9
7.5°	1452.9	1472.5	1513.4	1616.7	1718.2	1851.7	1990.6	2213.2	2398.3	2473.1	2612.0
10°	998.9	1057.6	1146.6	1239.2	1397.7	1545.5	1725.3	1935.4	2163.3	2255.9	2375.2
12.5°	673.0	754.9	897.4	1029.1	1175.1	1324.7	1495.6	1776.9	2035.1	2163.3	2282.6
15°	393.5	493.2	616.1	829.7	1023.8	1191.2	1362.1	1647.0	1960.3	2125.9	2271.9
17.5°	199.4	229.7	331.2	516.3	772.7	1046.9	1301.6	1664.8	2017.3	2220.3	2341.4
20°	149.6	158.5	187.0	274.2	528.8	865.3	1244.6	1691.5	2175.8	2423.3	2489.2
22.5°	130.0	137.1	149.6	178.1	297.3	662.3	1164.5	1757.4	2391.2	2624.5	2763.3
25°	110.4	117.5	128.2	146.0	190.5	450.5	1066.5	1826.8	2583.5	2877.3	3007.3
27.5°	96.1	101.5	112.2	126.4	154.9	286.7	897.4	1919.4	2877.3	3183.5	3217.4
30°	81.9	87.2	96.1	112.2	131.8	203.0	658.8	1931.9	3039.3	3317.1	3411.5
32.5°	71.2	73.0	83.7	97.9	110.4	160.2	462.9	1944.3	3158.6	3489.8	3509.4
35°	58.8	62.3	73.0	81.9	96.1	126.4	350.8	1882.0	3313.5	3667.8	3662.5
37.5°	48.1	53.4	60.5	67.7	78.3	106.8	279.5	1766.3	3507.6	3943.8	3776.5
40°	37.4	42.7	49.9	58.8	65.9	96.1	210.1	1591.8	3710.6	4079.1	3901.1
42.5°	26.7	30.3	37.4	46.3	58.8	80.1	151.3	1385.2	3790.7	4237.6	4050.7
45°	19.6	23.1	28.5	39.2	60.5	64.1	105.1	1196.5	3876.2	4307.1	4016.8
47.5°	10.7	14.2	21.4	33.8	53.4	48.1	74.8	1027.4	3974.1	4369.4	4043.5
50°	3.6	5.3	12.5	35.6	42.7	37.4	58.8	936.5	4070.2	4381.8	4097.0
52.5°	0.0	0.0	7.1	37.4	32.0	28.5	51.6	900.9	4045.3	4421.0	4063.1
55°	0.0	0.0	1.8	16.0	17.8	21.4	42.7	899.2	4221.6	4433.5	4248.3
57.5°	0.0	0.0	0.0	5.3	10.7	17.8	37.4	842.2	4333.8	4743.3	4497.6
60°	0.0	0.0	0.0	1.8	7.1	12.5	28.5	792.3	4447.7	4882.2	4764.6
62.5°	0.0	0.0	0.0	0.0	1.8	5.3	19.6	715.8	4218.0	4871.5	5022.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	12.5	566.2	3794.3	4616.9	4880.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.1	391.7	3322.4	4296.4	4618.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	236.8	2681.4	3767.6	3917.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	101.5	1914.0	2991.3	3213.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0	1184.0	2186.5	2460.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	767.4	1655.9	1867.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	409.5	1038.0	1207.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	178.1	630.3	726.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.0	382.8	436.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.8	78.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8
2.5°	2718.8	2770.5	2790.1	2759.8	2763.3	2701.0	2692.1	2604.9	2569.3	2576.4
5°	2843.5	2918.3	2959.2	2925.4	2848.8	2729.5	2620.9	2517.6	2453.5	2421.5
7.5°	2815.0	2898.7	2950.3	2982.4	2895.1	2702.8	2537.2	2343.1	2261.2	2263.0
10°	2658.3	2832.8	2937.8	2896.9	2855.9	2663.6	2407.2	2197.1	2124.1	2131.3
12.5°	2531.9	2726.0	2788.3	2820.3	2736.6	2583.5	2410.8	2170.4	2088.5	2038.7
15°	2453.5	2597.8	2601.3	2651.2	2617.3	2617.3	2448.2	2213.2	2142.0	2086.8
17.5°	2453.5	2485.6	2482.0	2499.8	2556.8	2624.5	2542.6	2385.9	2245.2	2236.3
20°	2508.7	2409.0	2385.9	2393.0	2441.1	2642.3	2750.9	2555.0	2466.0	2437.5
22.5°	2636.9	2417.9	2277.3	2252.3	2400.1	2640.5	2884.4	2822.1	2667.2	2644.1
25°	2813.2	2401.9	2248.8	2216.7	2328.9	2704.6	3067.8	3080.3	2939.6	2891.5
27.5°	2980.6	2473.1	2245.2	2238.1	2385.9	2690.3	3194.2	3286.8	3128.4	3089.2
30°	3037.5	2544.3	2311.1	2216.7	2407.2	2742.0	3190.7	3432.8	3329.6	3338.5
32.5°	3105.2	2615.6	2318.2	2280.8	2498.1	2825.7	3292.2	3667.8	3593.1	3488.0
35°	3204.9	2711.7	2385.9	2352.1	2562.2	2900.4	3313.5	3840.6	3828.1	3705.2
37.5°	3290.4	2806.1	2526.5	2531.9	2758.0	3021.5	3407.9	4052.4	4031.1	3947.4
40°	3350.9	2937.8	2745.5	2759.8	2928.9	3156.8	3575.3	4159.3	4317.7	4194.9
42.5°	3359.8	3055.4	2996.6	3110.5	3269.0	3366.9	3642.9	4232.3	4460.2	4380.1
45°	3393.6	3242.3	3406.1	3489.8	3619.8	3552.1	3639.4	4356.9	4470.9	4429.9
47.5°	3525.4	3582.4	3788.9	4043.5	4089.8	3867.3	3724.8	4376.5	4531.4	4526.1
50°	3662.5	3947.4	4237.6	4406.8	4465.5	4084.5	3804.9	4360.5	4611.5	4568.8
52.5°	3815.6	4264.3	4682.7	4891.1	4859.0	4324.9	3895.8	4490.4	4759.3	4745.1
55°	3911.8	4406.8	4969.4	5259.6	5234.7	4593.7	4184.2	4677.4	4953.4	4917.8
57.5°	4166.4	4638.2	5254.3	5389.6	5455.5	4946.3	4385.4	4983.6	5115.4	5154.6
60°	4376.5	4789.6	5329.1	5524.9	5548.1	5156.4	4737.9	5298.8	5321.9	5190.2
62.5°	4684.5	4848.3	5170.6	5346.9	5466.2	5275.6	5054.9	5467.9	5318.4	5309.5
65°	4910.6	4656.0	4875.0	4973.0	5049.5	5094.0	5373.6	5583.7	5252.5	5079.8
67.5°	4784.2	4292.8	4251.9	4257.2	4280.3	4549.2	5266.7	5300.6	4885.7	4743.3
70°	4210.9	3521.8	3466.7	3509.4	3393.6	3717.7	4834.1	4818.1	4310.6	4162.8
72.5°	3406.1	2567.5	2473.1	2531.9	2558.6	2902.2	4066.7	3653.6	3144.4	3028.6
75°	2706.4	1882.0	1588.2	1730.7	1821.5	2113.5	3176.4	2482.0	2195.4	2038.7
77.5°	2125.9	1424.4	1235.7	1178.7	1262.4	1536.6	2311.1	1303.3	1150.2	1077.2
80°	1347.8	1046.9	1136.0	1054.1	1089.7	1096.8	1203.6	592.9	471.8	466.5
82.5°	811.9	715.8	851.1	468.3	852.9	762.1	500.3	268.9	238.6	238.6
85°	575.1	443.3	293.8	190.5	379.2	418.4	194.1	138.9	121.1	117.5
87.5°	288.4	137.1	65.9	42.7	48.1	78.3	23.1	10.7	10.7	8.9
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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