

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: P677423

Luminaire Tested: **CCW-SA-2C-735-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677423
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-735-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

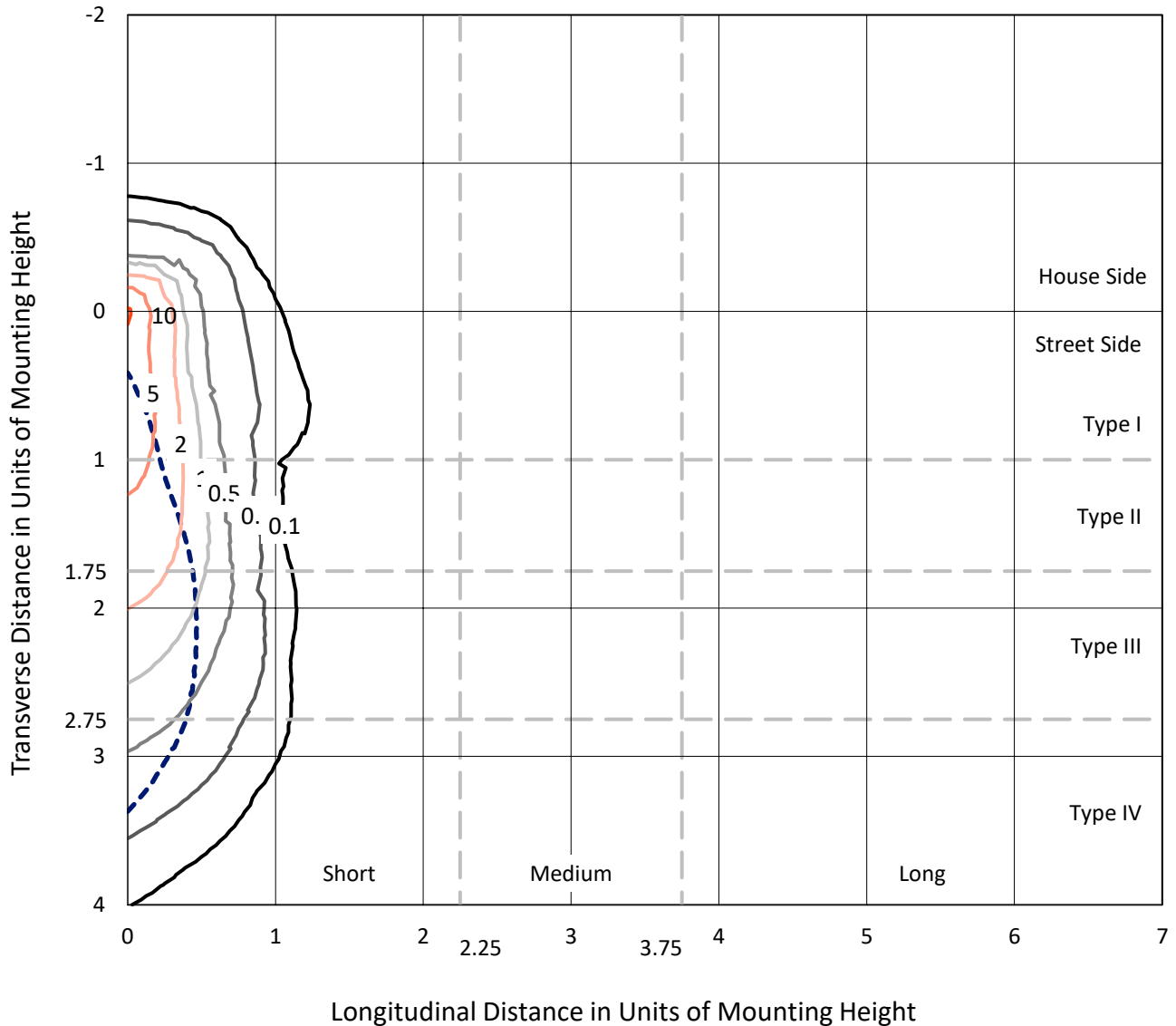
Lumens per Lamp: N/A
Luminaire Lumens: 6408.5 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (A_{in}): 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

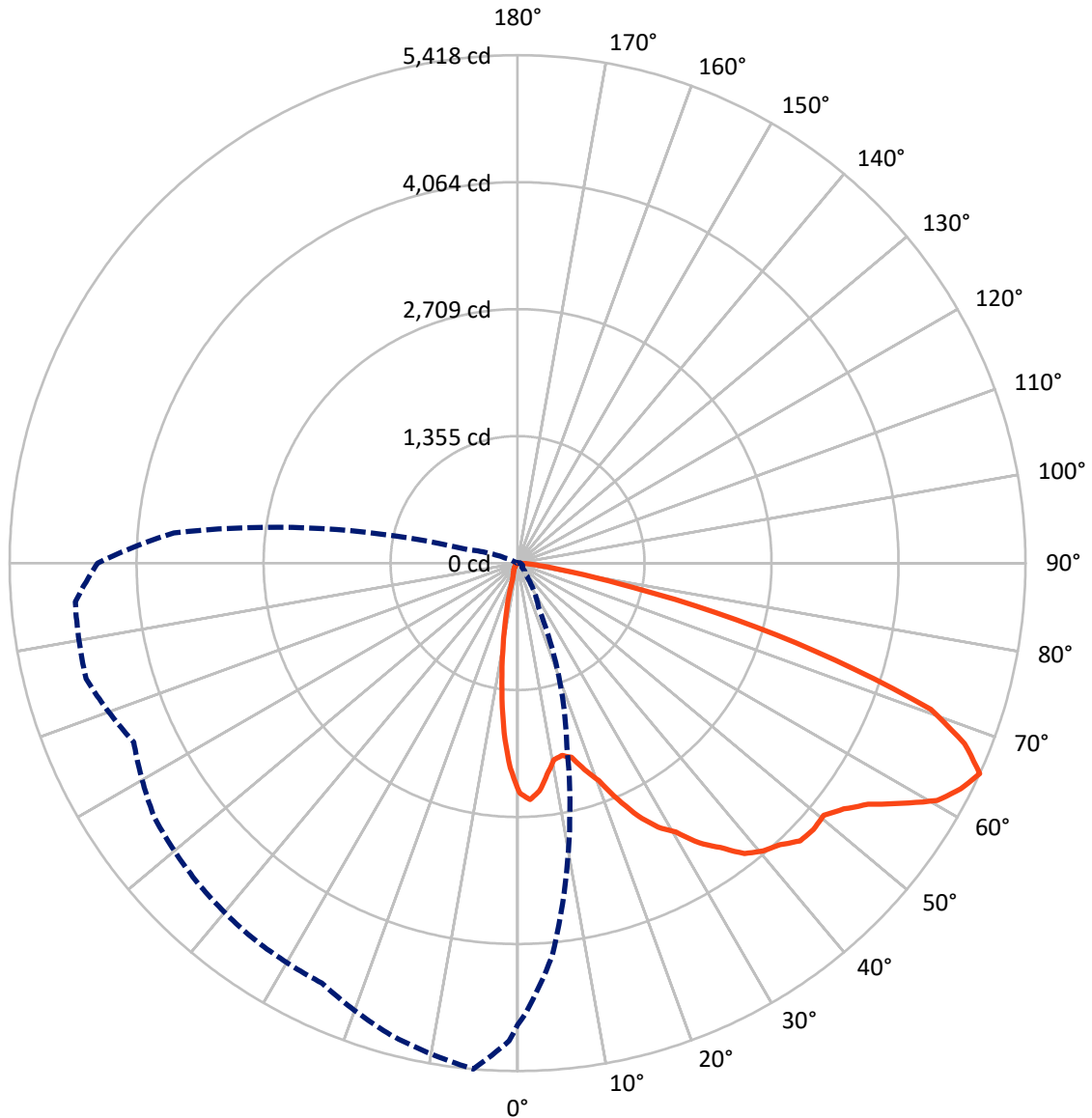
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.9 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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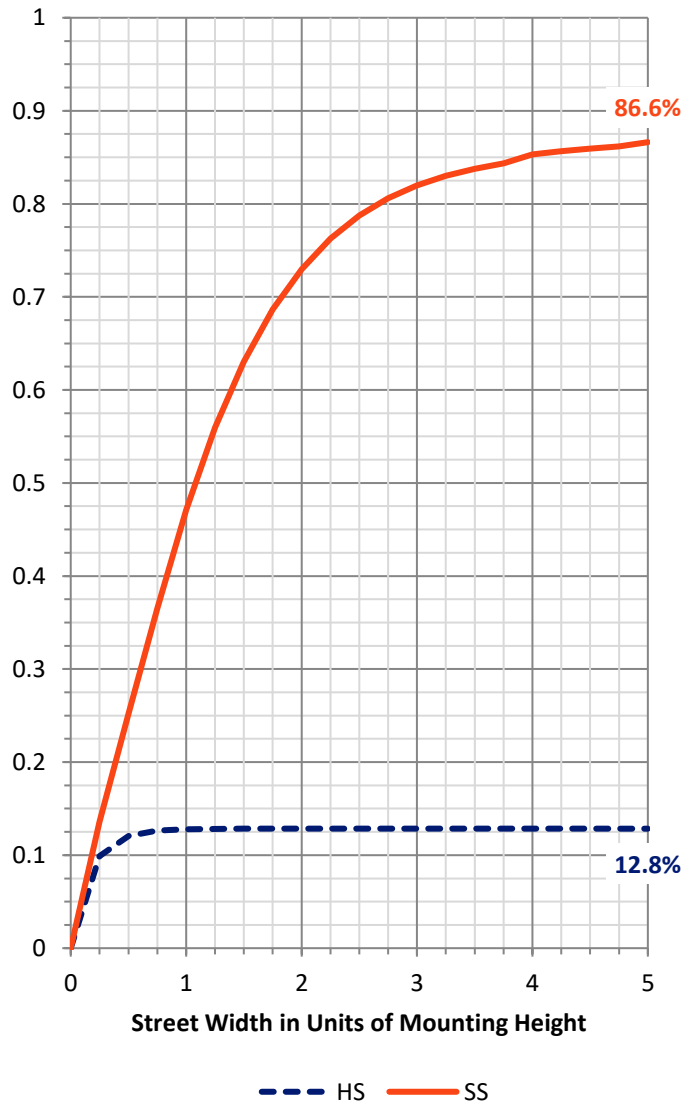
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	832.1	0.0	832.1
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	5576.4	0.0	5576.4
	% Fixture	87.0	0.0	87.0
Total	Lumens	6408.5	0.0	6408.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	2.9
10°-20°	359.4	5.6
20°-30°	500.5	7.8
30°-40°	711.2	11.1
40°-50°	986.2	15.4
50°-60°	1343.7	21.0
60°-70°	1477.3	23.1
70°-80°	726.1	11.3
80°-90°	118.6	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°	6408.5	100.0
0°-180°	6408.5	100.0



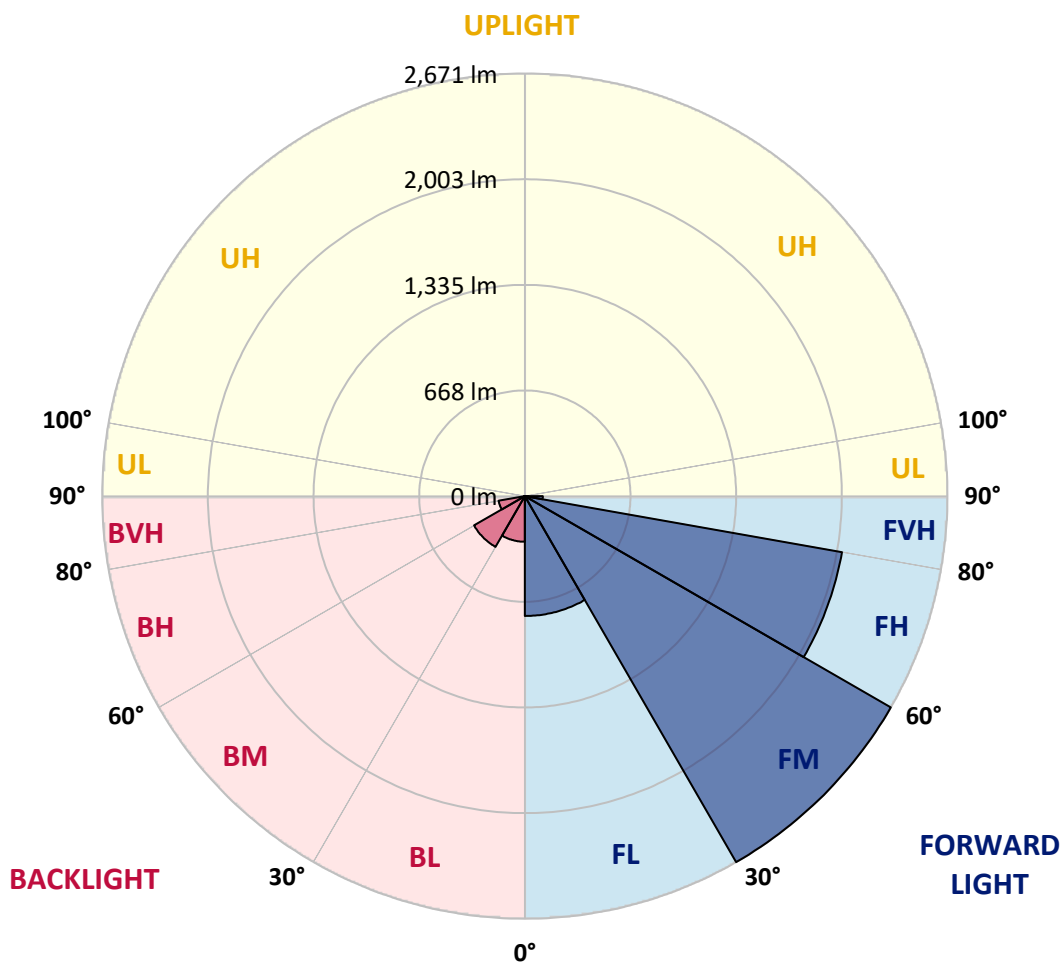
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.4	11.8			
FM (30°-60°)	2670.6	41.7			
FH (60°-80°)	2035.3	31.8			G2/5000
FVH (80°-90°)	113.2	1.8			G2/225
BL (0°-30°)	288.1	4.5	B1/500		
BM (30°-60°)	370.5	5.8	B1/1000		
BH (60°-80°)	168.2	2.6	B1/500		G1/500
BVH (80°-90°)	5.3	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°	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0
2.5°	2500.1	2529.4	2501.8	2405.0	2387.8	2341.1	2270.3	2265.1	2190.8	2199.4	2159.7
5°	2349.8	2379.1	2320.4	2192.5	2073.3	1978.3	1921.3	1819.3	1796.9	1746.8	1746.8
7.5°	2196.0	2194.3	2094.0	1986.9	1809.0	1634.5	1555.0	1408.1	1321.7	1275.1	1230.2
10°	2068.1	2040.5	1978.3	1757.1	1563.6	1382.2	1283.7	1187.0	1097.1	1019.4	941.6
12.5°	1978.3	1995.6	1897.1	1656.9	1406.4	1280.3	1174.9	1072.9	965.8	877.7	791.3
15°	2024.9	1997.3	1881.5	1634.5	1380.5	1207.7	1067.8	943.4	824.1	708.4	642.7
17.5°	2170.1	2099.2	1962.7	1634.5	1326.9	1097.1	927.8	780.9	653.1	549.4	468.2
20°	2365.3	2284.1	2137.2	1694.9	1287.2	1015.9	784.4	599.5	466.5	369.7	307.5
22.5°	2565.7	2501.8	2280.6	1719.1	1240.5	907.1	618.5	433.7	311.0	248.8	217.7
25°	2805.9	2716.0	2474.2	1815.9	1171.4	801.7	487.2	302.4	231.5	198.7	179.7
27.5°	2997.7	2982.1	2655.6	1874.6	1119.6	715.3	385.3	240.2	191.8	167.6	155.5
30°	3239.6	3154.9	2876.7	1992.1	1060.8	616.8	321.4	216.0	176.2	150.3	141.7
32.5°	3384.7	3345.0	2992.5	2057.8	995.2	535.6	276.4	190.1	160.7	141.7	133.0
35°	3595.5	3516.0	3158.4	2099.2	960.6	489.0	248.8	172.8	134.8	115.8	105.4
37.5°	3830.5	3801.1	3357.0	2097.5	910.5	461.3	229.8	160.7	127.9	107.1	95.0
40°	4070.6	3951.4	3478.0	2145.9	884.6	440.6	216.0	153.8	120.9	101.9	86.4
42.5°	4250.3	4113.8	3617.9	2128.6	853.5	404.3	210.8	143.4	115.8	93.3	79.5
45°	4298.7	4250.3	3744.1	2123.4	831.1	374.9	202.1	141.7	112.3	88.1	74.3
47.5°	4392.0	4359.1	3899.6	2132.1	813.8	352.5	181.4	145.1	107.1	82.9	70.8
50°	4433.4	4374.7	4025.7	2152.8	774.0	324.8	162.4	152.0	105.4	81.2	67.4
52.5°	4604.5	4552.7	4198.5	2211.5	741.2	288.5	143.4	145.1	108.8	76.0	63.9
55°	4772.1	4713.3	4464.5	2346.3	694.6	259.2	122.7	127.9	103.7	69.1	57.0
57.5°	5001.9	4905.1	4642.5	2401.6	653.1	219.4	108.8	105.4	96.8	62.2	50.1
60°	5036.4	5076.2	4616.6	2367.0	609.9	193.5	95.0	81.2	103.7	55.3	43.2
62.5°	5152.2	4986.3	4495.6	2287.6	578.8	178.0	84.7	67.4	89.8	48.4	36.3
65°	4929.3	4806.6	4212.3	2031.8	539.1	179.7	74.3	55.3	57.0	39.7	29.4
67.5°	4602.8	4506.0	3742.3	1753.7	499.3	176.2	65.7	48.4	43.2	34.6	25.9
70°	4039.5	3830.5	3179.1	1423.7	440.6	164.1	55.3	43.2	36.3	27.6	19.0
72.5°	2938.9	2854.3	2280.6	1100.6	395.7	148.6	51.8	36.3	31.1	20.7	15.5
75°	1978.3	1838.3	1439.2	722.2	317.9	129.6	43.2	32.8	24.2	15.5	12.1
77.5°	1045.3	988.3	815.5	343.8	176.2	60.5	24.2	19.0	13.8	12.1	6.9
80°	452.7	402.6	352.5	139.9	62.2	27.6	15.5	10.4	8.6	6.9	3.5
82.5°	231.5	221.2	183.1	60.5	36.3	20.7	8.6	6.9	5.2	3.5	1.7
85°	114.0	117.5	96.8	19.0	20.7	12.1	1.7	1.7	0.0	0.0	0.0
87.5°	8.6	8.6	6.9	3.5	5.2	1.7	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°	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0
2.5°	2144.2	2168.3	2126.9	2152.8	2140.7	2145.9	2151.1	2137.2	2140.7	2189.1	2190.8
5°	1717.4	1764.0	1746.8	1771.0	1812.4	1791.7	1810.7	1807.2	1810.7	1817.6	1848.7
7.5°	1225.0	1211.2	1244.0	1307.9	1382.2	1427.1	1404.7	1392.6	1385.7	1368.4	1389.1
10°	924.4	917.4	908.8	927.8	976.2	1026.3	1053.9	1007.3	981.4	948.5	936.4
12.5°	767.1	723.9	699.7	670.4	684.2	729.1	730.8	685.9	644.5	627.2	646.2
15°	604.7	575.3	532.2	490.7	470.0	504.5	475.1	431.9	378.4	371.5	369.7
17.5°	431.9	414.7	383.6	366.3	342.1	333.5	302.4	236.7	198.7	188.3	191.8
20°	293.7	279.9	278.2	262.6	252.3	245.3	195.2	152.0	139.9	141.7	143.4
22.5°	217.7	210.8	202.1	200.4	191.8	183.1	143.4	127.9	119.2	119.2	124.4
25°	178.0	174.5	165.9	162.4	159.0	146.9	120.9	108.8	105.4	101.9	107.1
27.5°	152.0	150.3	145.1	139.9	136.5	124.4	105.4	95.0	91.6	91.6	91.6
30°	136.5	136.5	129.6	119.2	119.2	105.4	89.8	82.9	79.5	79.5	77.7
32.5°	127.9	124.4	115.8	108.8	103.7	89.8	79.5	72.6	67.4	67.4	69.1
35°	103.7	103.7	101.9	96.8	89.8	76.0	67.4	60.5	57.0	55.3	57.0
37.5°	91.6	86.4	79.5	81.2	77.7	65.7	57.0	51.8	46.6	46.6	46.6
40°	82.9	77.7	70.8	65.7	63.9	58.7	50.1	41.5	36.3	34.6	34.6
42.5°	74.3	70.8	60.5	51.8	50.1	50.1	38.0	31.1	25.9	25.9	25.9
45°	69.1	63.9	55.3	44.9	36.3	38.0	31.1	22.5	19.0	17.3	17.3
47.5°	65.7	60.5	48.4	38.0	27.6	27.6	22.5	15.5	12.1	10.4	10.4
50°	60.5	55.3	43.2	31.1	20.7	17.3	13.8	8.6	5.2	3.5	3.5
52.5°	57.0	51.8	38.0	25.9	17.3	12.1	8.6	1.7	0.0	0.0	0.0
55°	51.8	44.9	32.8	20.7	13.8	6.9	1.7	0.0	0.0	0.0	0.0
57.5°	44.9	39.7	25.9	15.5	8.6	1.7	0.0	0.0	0.0	0.0	0.0
60°	38.0	32.8	20.7	12.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	31.1	27.6	15.5	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	25.9	20.7	12.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	22.5	17.3	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.3	12.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12.1	8.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.7	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°	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0
2.5°	2197.7	2249.5	2297.9	2311.7	2349.8	2455.2	2455.2	2505.3	2595.1	2627.9	2634.8
5°	1853.9	1909.2	1919.5	2026.7	2076.8	2183.9	2254.7	2424.1	2526.0	2589.9	2629.7
7.5°	1409.9	1428.9	1468.6	1568.8	1667.3	1796.9	1931.6	2147.6	2327.3	2399.9	2534.6
10°	969.3	1026.3	1112.7	1202.5	1356.3	1499.7	1674.2	1878.1	2099.2	2189.1	2304.8
12.5°	653.1	732.6	870.8	998.6	1140.3	1285.5	1451.3	1724.3	1974.8	2099.2	2215.0
15°	381.8	478.6	597.8	805.1	993.5	1155.9	1321.7	1598.2	1902.3	2062.9	2204.6
17.5°	193.5	222.9	321.4	501.1	749.8	1015.9	1263.0	1615.5	1957.6	2154.5	2272.0
20°	145.1	153.8	181.4	266.1	513.1	839.7	1207.7	1641.4	2111.3	2351.5	2415.4
22.5°	126.1	133.0	145.1	172.8	288.5	642.7	1130.0	1705.3	2320.4	2546.7	2681.5
25°	107.1	114.0	124.4	141.7	184.9	437.1	1034.9	1772.7	2507.0	2792.1	2918.2
27.5°	93.3	98.5	108.8	122.7	150.3	278.2	870.8	1862.5	2792.1	3089.2	3122.1
30°	79.5	84.7	93.3	108.8	127.9	197.0	639.3	1874.6	2949.3	3218.8	3310.4
32.5°	69.1	70.8	81.2	95.0	107.1	155.5	449.2	1886.7	3065.1	3386.4	3405.4
35°	57.0	60.5	70.8	79.5	93.3	122.7	340.4	1826.2	3215.4	3559.2	3554.0
37.5°	46.6	51.8	58.7	65.7	76.0	103.7	271.3	1713.9	3403.7	3827.0	3664.6
40°	36.3	41.5	48.4	57.0	63.9	93.3	203.9	1544.6	3600.7	3958.3	3785.5
42.5°	25.9	29.4	36.3	44.9	57.0	77.7	146.9	1344.2	3678.4	4112.1	3930.7
45°	19.0	22.5	27.6	38.0	58.7	62.2	101.9	1161.1	3761.3	4179.5	3897.8
47.5°	10.4	13.8	20.7	32.8	51.8	46.6	72.6	996.9	3856.4	4239.9	3923.8
50°	3.5	5.2	12.1	34.6	41.5	36.3	57.0	908.8	3949.7	4252.0	3975.6
52.5°	0.0	0.0	6.9	36.3	31.1	27.6	50.1	874.2	3925.5	4290.0	3942.8
55°	0.0	0.0	1.7	15.5	17.3	20.7	41.5	872.5	4096.5	4302.1	4122.4
57.5°	0.0	0.0	0.0	5.2	10.4	17.3	36.3	817.2	4205.4	4602.8	4364.3
60°	0.0	0.0	0.0	1.7	6.9	12.1	27.6	768.9	4316.0	4737.5	4623.5
62.5°	0.0	0.0	0.0	0.0	1.7	5.2	19.0	694.6	4093.1	4727.2	4874.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	12.1	549.4	3681.9	4480.1	4735.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.9	380.1	3224.0	4169.1	4481.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	229.8	2602.0	3655.9	3801.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.5	1857.3	2902.6	3118.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.7	1149.0	2121.7	2387.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	744.7	1606.8	1812.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	397.4	1007.3	1171.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	172.8	611.6	704.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.3	371.5	423.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.0	76.0
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°	359°	360°
0°	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0	2450.0
2.5°	2638.3	2688.4	2707.4	2678.0	2681.5	2621.0	2612.4	2527.7	2493.2	2500.1
5°	2759.2	2831.8	2871.5	2838.7	2764.4	2648.7	2543.3	2443.1	2380.9	2349.8
7.5°	2731.6	2812.8	2862.9	2894.0	2809.3	2622.7	2462.1	2273.7	2194.3	2196.0
10°	2579.6	2748.9	2850.8	2811.1	2771.3	2584.7	2335.9	2132.1	2061.2	2068.1
12.5°	2456.9	2645.2	2705.7	2736.8	2655.6	2507.0	2339.4	2106.1	2026.7	1978.3
15°	2380.9	2520.8	2524.3	2572.6	2539.8	2539.8	2375.7	2147.6	2078.5	2024.9
17.5°	2380.9	2412.0	2408.5	2425.8	2481.1	2546.7	2467.2	2315.2	2178.7	2170.1
20°	2434.4	2337.7	2315.2	2322.1	2368.8	2564.0	2669.4	2479.3	2393.0	2365.3
22.5°	2558.8	2346.3	2209.8	2185.6	2329.0	2562.3	2799.0	2738.5	2588.2	2565.7
25°	2729.9	2330.8	2182.2	2151.1	2259.9	2624.5	2976.9	2989.0	2852.5	2805.9
27.5°	2892.3	2399.9	2178.7	2171.8	2315.2	2610.7	3099.6	3189.5	3035.7	2997.7
30°	2947.6	2469.0	2242.6	2151.1	2335.9	2660.8	3096.2	3331.1	3230.9	3239.6
32.5°	3013.2	2538.1	2249.5	2213.3	2424.1	2742.0	3194.6	3559.2	3486.6	3384.7
35°	3110.0	2631.4	2315.2	2282.4	2486.3	2814.5	3215.4	3726.8	3714.7	3595.5
37.5°	3192.9	2723.0	2451.7	2456.9	2676.3	2932.0	3306.9	3932.4	3911.7	3830.5
40°	3251.7	2850.8	2664.2	2678.0	2842.2	3063.3	3469.3	4036.1	4189.8	4070.6
42.5°	3260.3	2964.8	2907.8	3018.4	3172.2	3267.2	3535.0	4106.9	4328.0	4250.3
45°	3293.1	3146.3	3305.2	3386.4	3512.5	3446.9	3531.5	4227.8	4338.4	4298.7
47.5°	3421.0	3476.3	3676.7	3923.8	3968.7	3752.7	3614.5	4246.8	4397.2	4392.0
50°	3554.0	3830.5	4112.1	4276.2	4333.2	3963.5	3692.2	4231.3	4474.9	4433.4
52.5°	3702.6	4138.0	4544.0	4746.2	4715.1	4196.7	3780.3	4357.4	4618.3	4604.5
55°	3795.9	4276.2	4822.2	5103.8	5079.6	4457.6	4060.2	4538.8	4806.6	4772.1
57.5°	4043.0	4500.8	5098.6	5229.9	5293.9	4799.7	4255.5	4836.0	4963.9	5001.9
60°	4246.8	4647.7	5171.2	5361.3	5383.7	5003.6	4597.6	5141.8	5164.3	5036.4
62.5°	4545.7	4704.7	5017.4	5188.5	5304.2	5119.4	4905.1	5306.0	5160.8	5152.2
65°	4765.2	4518.1	4730.6	4825.6	4899.9	4943.1	5214.4	5418.3	5096.9	4929.3
67.5°	4642.5	4165.6	4125.9	4131.1	4153.5	4414.4	5110.7	5143.6	4741.0	4602.8
70°	4086.2	3417.5	3364.0	3405.4	3293.1	3607.6	4690.9	4675.3	4182.9	4039.5
72.5°	3305.2	2491.4	2399.9	2456.9	2482.8	2816.3	3946.2	3545.4	3051.2	2938.9
75°	2626.2	1826.2	1541.2	1679.4	1767.5	2050.9	3082.3	2408.5	2130.3	1978.3
77.5°	2062.9	1382.2	1199.1	1143.8	1225.0	1491.1	2242.6	1264.7	1116.1	1045.3
80°	1307.9	1015.9	1102.3	1022.8	1057.4	1064.3	1168.0	575.3	457.9	452.7
82.5°	787.9	694.6	825.9	454.4	827.6	739.5	485.5	260.9	231.5	231.5
85°	558.1	430.2	285.1	184.9	368.0	406.0	188.3	134.8	117.5	114.0
87.5°	279.9	133.0	63.9	41.5	46.6	76.0	22.5	10.4	10.4	8.6
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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