

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: P677258

Luminaire Tested: **CCW-SA-2D-727-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677258
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-727-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) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

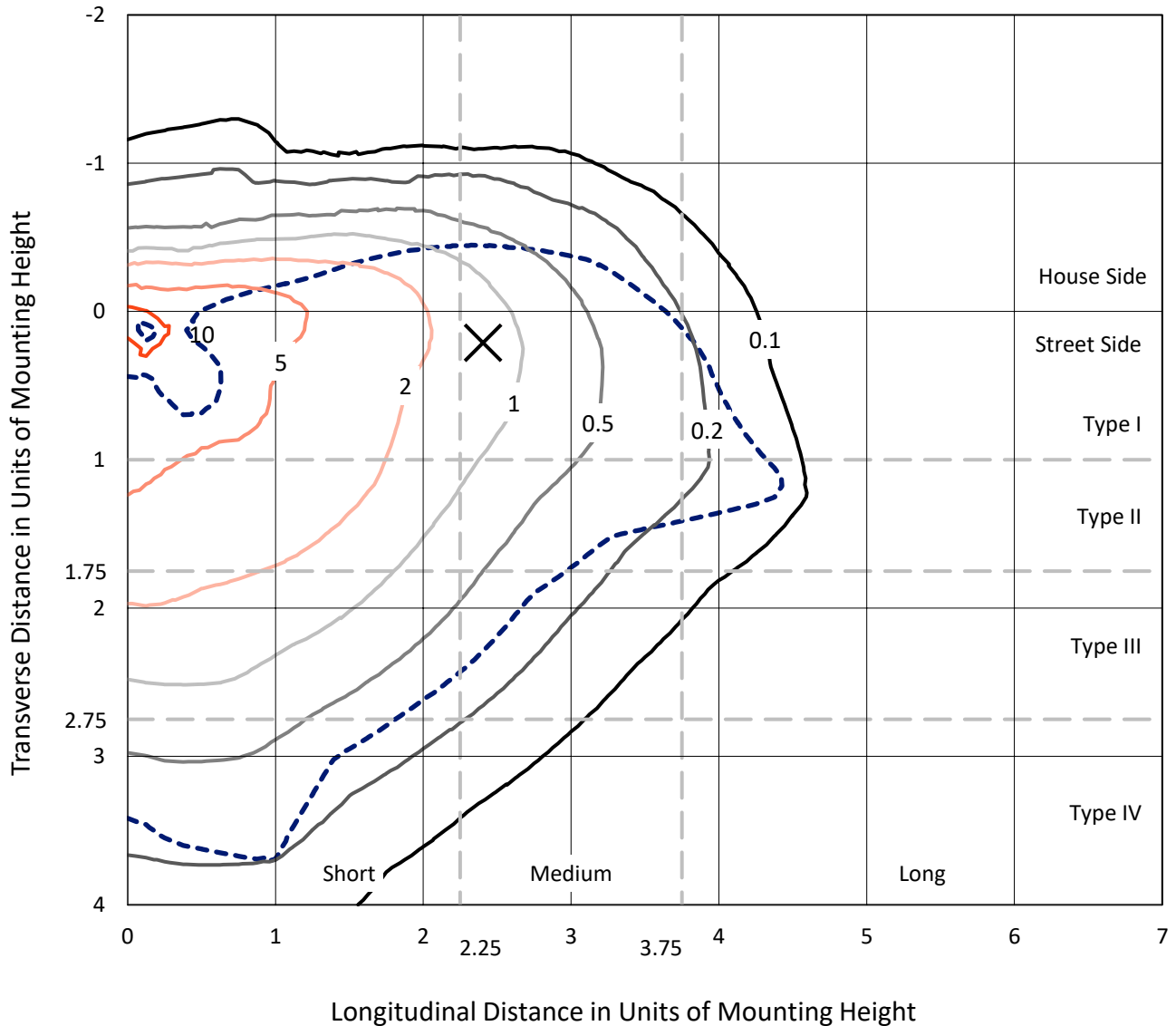
Lumens per Lamp: N/A
Luminaire Lumens: 6767.1 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

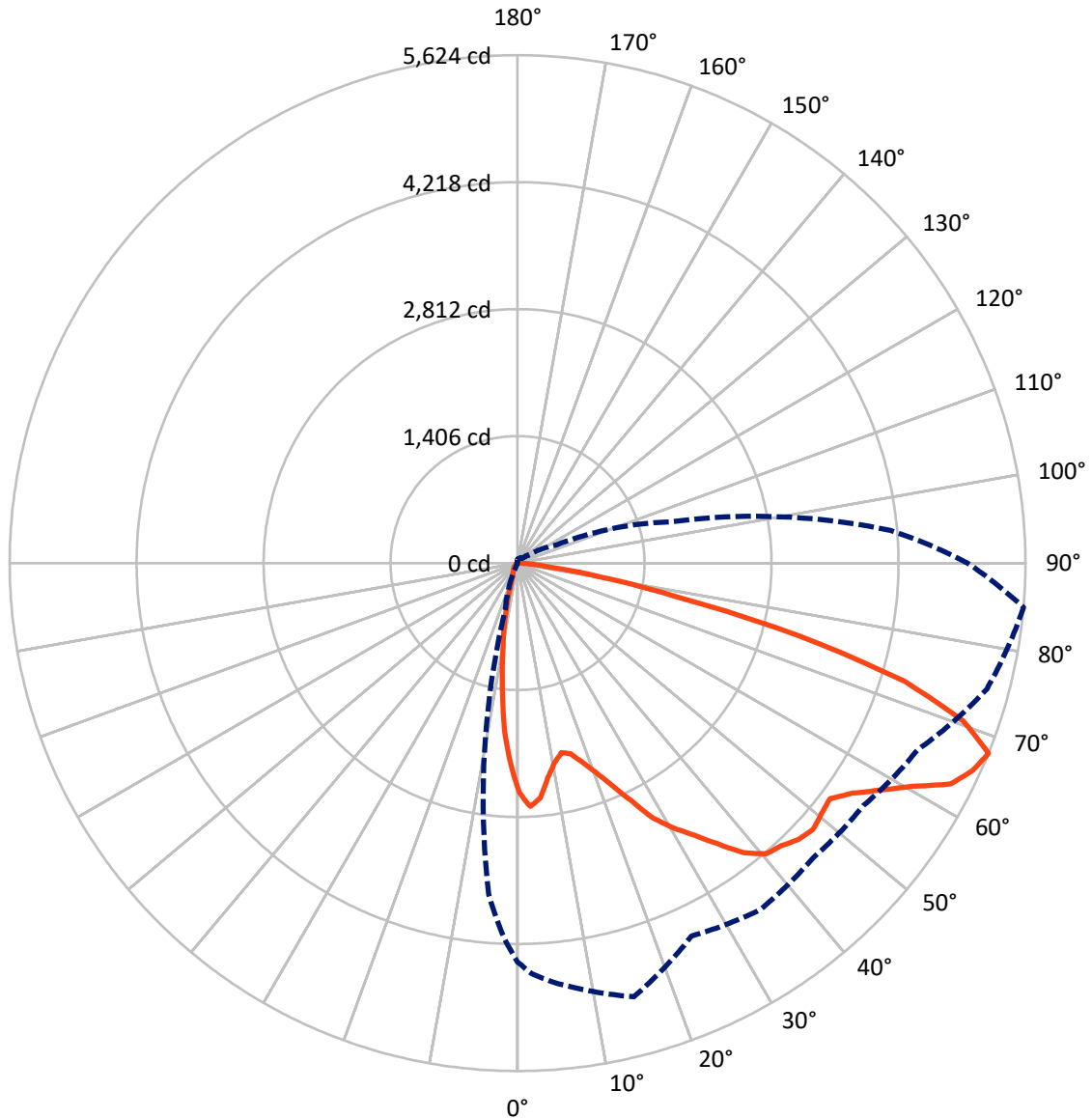
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.7 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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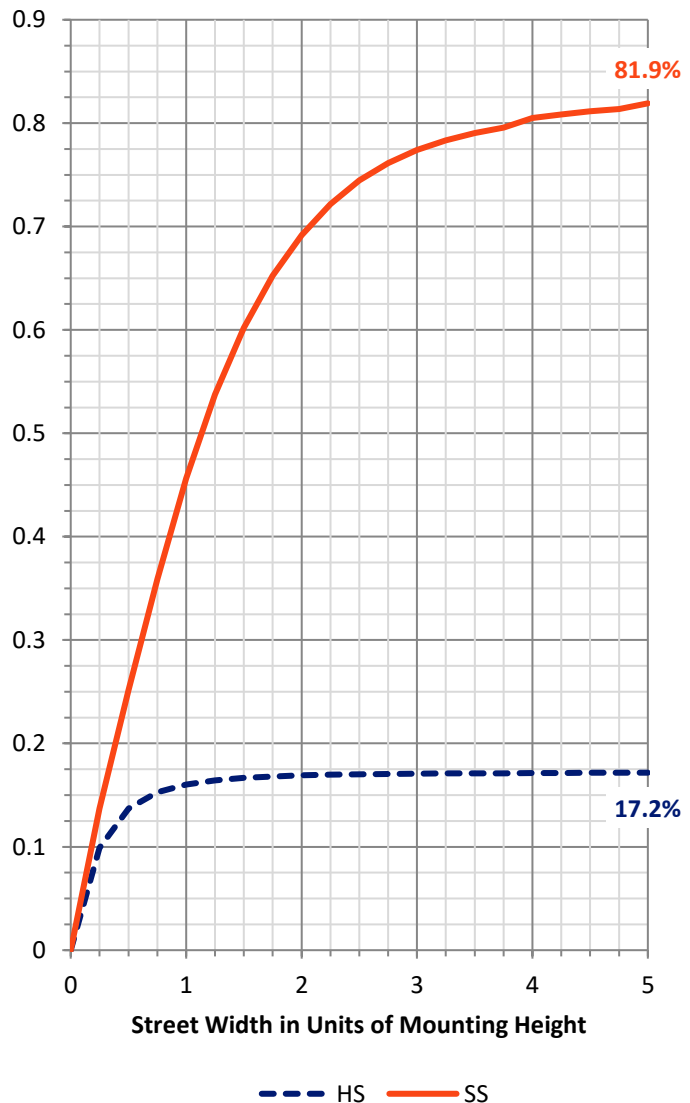
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1175.0	0.0	1175.0
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	5592.2	0.0	5592.2
	% Fixture	82.6	0.0	82.6
Total	Lumens	6767.1	0.0	6767.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.3	2.9
10°-20°	379.0	5.6
20°-30°	524.5	7.8
30°-40°	741.3	11.0
40°-50°	1009.3	14.9
50°-60°	1336.8	19.8
60°-70°	1552.1	22.9
70°-80°	879.0	13.0
80°-90°	151.9	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°	6767.1	100.0
0°-180°	6767.1	100.0



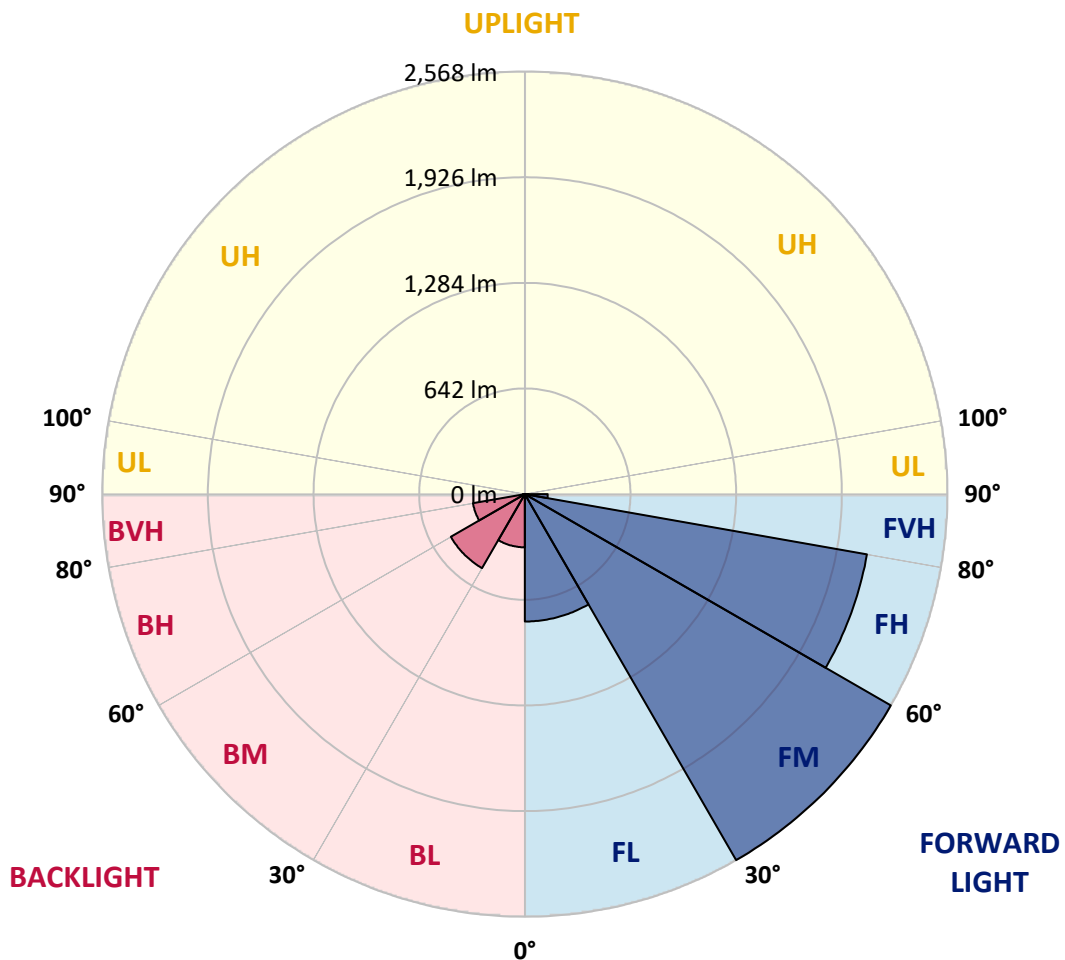
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.9	11.4			
FM (30°-60°)	2568.2	38.0			
FH (60°-80°)	2111.0	31.2			G2/5000
FVH (80°-90°)	139.1	2.1			G2/225
BL (0°-30°)	323.0	4.8	B1/500		
BM (30°-60°)	519.2	7.7	B1/1000		
BH (60°-80°)	320.0	4.7	B1/500		G1/500
BVH (80°-90°)	12.8	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°	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4
2.5°	2643.8	2699.8	2701.6	2726.9	2752.2	2752.2	2811.9	2797.4	2745.0	2736.0	2698.0
5°	2663.7	2683.6	2698.0	2826.3	2934.7	2923.9	2956.4	2934.7	2833.5	2703.4	2614.9
7.5°	2492.0	2513.7	2571.5	2790.2	2936.5	2985.3	3046.8	2911.2	2804.6	2569.7	2399.8
10°	2264.3	2305.9	2412.5	2661.9	2842.6	2998.0	2998.0	2889.6	2683.6	2454.0	2246.2
12.5°	2137.8	2220.9	2278.8	2531.8	2766.7	2873.3	2869.7	2811.9	2678.1	2389.0	2154.1
15°	2159.5	2183.0	2305.9	2502.8	2658.3	2652.8	2717.9	2699.8	2605.8	2446.8	2188.4
17.5°	2258.9	2295.0	2401.6	2502.8	2576.9	2555.2	2553.4	2640.2	2645.6	2544.4	2316.7
20°	2421.5	2528.1	2578.7	2609.5	2519.1	2426.9	2416.1	2537.2	2631.1	2669.1	2470.3
22.5°	2681.7	2752.2	2855.2	2698.0	2463.1	2347.4	2325.7	2459.5	2649.2	2817.3	2669.1
25°	2936.5	2990.8	3090.2	2887.8	2526.3	2331.2	2293.2	2408.9	2717.9	3023.3	2909.4
27.5°	3205.8	3252.8	3263.6	3026.9	2560.7	2298.6	2253.5	2408.9	2775.7	3131.7	3196.8
30°	3370.3	3426.3	3437.1	3149.8	2616.7	2325.7	2304.1	2419.7	2815.5	3223.9	3402.8
32.5°	3554.6	3569.0	3560.0	3171.5	2678.1	2405.3	2314.9	2492.0	2860.6	3334.1	3590.7
35°	3775.0	3800.3	3708.2	3270.9	2815.5	2455.9	2423.3	2580.5	2938.4	3384.7	3818.4
37.5°	3943.1	4022.6	3814.8	3308.8	2842.6	2562.5	2567.9	2764.9	2992.6	3446.2	4069.6
40°	4259.3	4125.6	3995.5	3438.9	2945.6	2743.2	2714.3	2954.6	3175.1	3485.9	4234.0
42.5°	4432.8	4362.4	4066.0	3451.6	3104.6	2992.6	2999.8	3169.7	3270.9	3597.9	4279.2
45°	4476.2	4402.1	4161.8	3460.6	3261.8	3287.1	3411.8	3444.3	3411.8	3672.0	4364.2
47.5°	4586.4	4425.6	4150.9	3581.7	3516.6	3614.2	3773.2	3843.7	3603.4	3644.9	4403.9
50°	4564.7	4472.6	4127.4	3632.3	3827.5	4085.9	4192.5	4163.6	3816.6	3588.9	4360.5
52.5°	4474.4	4375.0	4199.7	3769.6	4118.4	4431.0	4579.2	4506.9	4006.4	3715.4	4331.6
55°	4606.3	4530.4	4293.7	3955.8	4337.1	4734.6	4839.4	4785.2	4239.5	3832.9	4496.1
57.5°	4749.1	4732.8	4548.5	4174.4	4595.5	5047.2	5047.2	4980.4	4441.9	4002.7	4740.0
60°	4955.1	4991.2	4736.4	4319.0	4684.0	5029.2	5291.2	5213.5	4646.1	4300.9	5016.5
62.5°	4888.2	5003.9	4978.6	4629.8	4785.2	5117.7	5260.5	5318.3	4899.1	4664.1	5385.2
65°	4673.2	4796.1	4976.8	4834.0	4709.3	4902.7	4975.0	5150.3	5025.6	5005.7	5537.0
67.5°	4416.6	4550.3	4662.3	4971.3	4555.7	4684.0	4620.8	4676.8	4888.2	5379.8	5623.7
70°	3856.4	3984.7	4161.8	4665.9	4149.1	4033.5	4017.2	3990.1	4319.0	5246.0	5229.8
72.5°	3171.5	3231.1	3523.9	3793.1	3070.3	3048.6	3073.9	3043.2	3424.5	4749.1	4479.8
75°	2374.5	2434.2	2600.4	2913.1	2090.8	1966.1	2110.7	2253.5	2614.9	3686.5	3218.5
77.5°	1785.4	1861.3	1966.1	2179.4	1534.2	1339.1	1358.9	1494.5	1890.2	2952.8	1803.5
80°	1158.4	1149.3	1351.7	1499.9	1154.7	1190.9	1140.3	1239.7	1369.8	1579.4	921.6
82.5°	668.6	677.7	762.6	860.2	804.2	919.8	663.2	1107.8	977.6	643.3	343.4
85°	375.9	392.1	469.8	596.3	504.2	337.9	276.5	549.4	614.4	263.8	166.3
87.5°	37.9	32.5	63.2	225.9	137.3	56.0	83.1	131.9	148.2	99.4	48.8
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°	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4
2.5°	2643.8	2643.8	2598.6	2522.7	2492.0	2437.8	2363.7	2387.2	2361.9	2269.7	2246.2
5°	2535.4	2448.6	2354.7	2239.0	2172.1	2034.8	1991.4	1913.7	1926.4	1848.7	1852.3
7.5°	2309.5	2240.8	2081.8	1930.0	1798.1	1678.8	1510.7	1447.5	1386.1	1355.3	1391.5
10°	2177.6	2049.3	1832.4	1633.6	1458.3	1351.7	1239.7	1152.9	1073.4	1013.8	1001.1
12.5°	2081.8	1967.9	1705.9	1463.8	1326.4	1239.7	1136.7	1017.4	939.7	836.7	806.0
15°	2052.9	1913.7	1637.2	1396.9	1263.2	1120.4	1002.9	885.5	784.3	675.9	637.9
17.5°	2152.3	1991.4	1635.4	1342.7	1154.7	1001.1	838.5	706.6	603.6	504.2	480.7
20°	2320.3	2074.6	1687.8	1310.2	1051.7	845.7	661.4	529.5	413.8	348.8	332.5
22.5°	2511.9	2215.5	1693.3	1223.4	948.7	690.3	482.5	348.8	283.7	253.0	244.0
25°	2746.8	2441.4	1758.3	1152.9	827.7	524.1	343.4	267.5	229.5	211.4	207.8
27.5°	2940.2	2598.6	1828.8	1078.8	708.4	388.5	269.3	218.7	198.8	180.7	178.9
30°	3140.7	2779.3	1848.7	1033.7	605.4	319.9	231.3	193.4	171.7	162.6	160.8
32.5°	3316.0	2976.3	1911.9	959.6	507.8	281.9	209.6	173.5	159.0	144.6	142.8
35°	3541.9	3090.2	1942.6	919.8	471.7	254.8	191.6	159.0	137.3	128.3	124.7
37.5°	3784.1	3200.4	1962.5	889.1	440.9	238.5	180.7	150.0	130.1	117.5	113.8
40°	4010.0	3355.8	1933.6	851.1	417.4	218.7	173.5	139.1	121.1	108.4	103.0
42.5°	4183.5	3507.6	1924.6	815.0	392.1	211.4	164.4	133.7	113.8	99.4	97.6
45°	4281.0	3610.6	1861.3	786.1	372.3	215.0	160.8	126.5	108.4	95.8	88.5
47.5°	4257.5	3690.1	1877.6	777.1	345.2	200.6	159.0	121.1	99.4	88.5	83.1
50°	4387.7	3850.9	1850.5	748.1	325.3	180.7	173.5	121.1	97.6	84.9	79.5
52.5°	4409.3	3997.3	1908.3	695.7	294.6	166.3	171.7	119.3	94.0	81.3	74.1
55°	4590.0	4167.2	2020.3	666.8	269.3	144.6	157.2	115.7	84.9	74.1	70.5
57.5°	4835.8	4519.6	2092.6	639.7	234.9	126.5	131.9	113.8	77.7	68.7	63.2
60°	5072.5	4660.5	2098.0	590.9	202.4	113.8	103.0	113.8	72.3	61.4	56.0
62.5°	5249.6	4660.5	2061.9	549.4	177.1	101.2	90.4	108.4	65.1	54.2	50.6
65°	5153.9	4535.8	1967.9	515.0	160.8	88.5	77.7	83.1	57.8	47.0	43.4
67.5°	4982.2	4147.3	1760.1	473.5	159.0	77.7	66.9	61.4	50.6	41.6	37.9
70°	4707.5	3623.2	1465.6	426.5	155.4	70.5	59.6	52.4	45.2	36.1	32.5
72.5°	3793.1	2992.6	1203.5	399.4	151.8	61.4	50.6	45.2	37.9	30.7	27.1
75°	2627.5	1911.9	927.0	341.5	148.2	56.0	47.0	39.8	32.5	25.3	23.5
77.5°	1575.8	1277.6	598.2	256.6	97.6	45.2	39.8	30.7	27.1	21.7	19.9
80°	737.3	603.6	242.2	99.4	47.0	32.5	27.1	23.5	21.7	18.1	16.3
82.5°	289.1	254.8	117.5	57.8	37.9	25.3	21.7	19.9	18.1	14.5	12.6
85°	155.4	137.3	56.0	39.8	27.1	18.1	18.1	16.3	14.5	12.6	10.8
87.5°	34.3	25.3	23.5	23.5	19.9	14.5	14.5	12.6	10.8	9.0	7.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4
2.5°	2233.6	2260.7	2217.3	2244.4	2206.5	2235.4	2239.0	2211.9	2219.1	2255.3	2271.5
5°	1902.9	1884.8	1845.1	1832.4	1834.2	1810.7	1819.8	1832.4	1852.3	1863.1	1895.7
7.5°	1371.6	1413.2	1411.3	1442.1	1443.9	1440.3	1415.0	1360.8	1378.8	1364.4	1382.4
10°	981.3	999.3	1033.7	1053.5	1089.7	1069.8	1012.0	990.3	979.5	977.6	995.7
12.5°	784.3	740.9	737.3	744.5	762.6	739.1	710.2	684.9	697.5	722.8	742.7
15°	607.2	571.0	524.1	516.8	520.4	509.6	478.9	446.4	455.4	480.7	495.1
17.5°	466.2	424.7	392.1	370.5	363.2	325.3	280.1	253.0	245.8	244.0	256.6
20°	314.4	307.2	301.8	274.7	274.7	220.5	182.5	162.6	162.6	166.3	168.1
22.5°	234.9	225.9	227.7	222.3	207.8	164.4	144.6	139.1	139.1	142.8	142.8
25°	204.2	191.6	187.9	186.1	171.7	141.0	126.5	121.1	121.1	124.7	124.7
27.5°	173.5	169.9	164.4	157.2	144.6	121.1	112.0	106.6	108.4	110.2	108.4
30°	159.0	150.0	142.8	142.8	128.3	108.4	101.2	97.6	94.0	97.6	99.4
32.5°	141.0	135.5	131.9	126.5	110.2	95.8	88.5	84.9	83.1	83.1	84.9
35°	121.1	121.1	117.5	110.2	95.8	86.7	77.7	74.1	72.3	74.1	74.1
37.5°	108.4	103.0	104.8	97.6	84.9	75.9	66.9	63.2	63.2	61.4	63.2
40°	101.2	92.2	86.7	83.1	75.9	65.1	57.8	54.2	52.4	52.4	52.4
42.5°	90.4	83.1	72.3	70.5	68.7	56.0	47.0	45.2	43.4	41.6	41.6
45°	84.9	74.1	65.1	56.0	56.0	47.0	39.8	36.1	34.3	32.5	34.3
47.5°	77.7	66.9	56.0	47.0	45.2	37.9	30.7	27.1	25.3	25.3	25.3
50°	74.1	59.6	48.8	39.8	34.3	30.7	23.5	19.9	18.1	18.1	18.1
52.5°	68.7	56.0	43.4	34.3	27.1	23.5	18.1	14.5	12.6	12.6	12.6
55°	61.4	50.6	37.9	28.9	23.5	18.1	12.6	9.0	7.2	7.2	7.2
57.5°	57.8	45.2	32.5	25.3	18.1	12.6	7.2	5.4	5.4	3.6	5.4
60°	52.4	39.8	27.1	19.9	14.5	9.0	5.4	1.8	1.8	1.8	1.8
62.5°	45.2	34.3	23.5	16.3	10.8	5.4	1.8	0.0	0.0	0.0	0.0
65°	37.9	27.1	18.1	12.6	7.2	1.8	0.0	0.0	0.0	0.0	0.0
67.5°	32.5	23.5	14.5	9.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	28.9	19.9	10.8	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	23.5	16.3	9.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.9	12.6	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	16.3	9.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.6	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	1.8	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°	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4
2.5°	2295.0	2284.2	2338.4	2426.9	2472.1	2560.7	2582.4	2638.4	2623.9	2643.8
5°	1899.3	1921.0	2000.5	2130.6	2177.6	2305.9	2426.9	2548.0	2625.7	2663.7
7.5°	1409.5	1481.8	1579.4	1698.7	1819.8	1987.8	2193.8	2334.8	2410.7	2492.0
10°	1049.9	1127.6	1239.7	1357.1	1554.1	1742.1	1948.1	2123.3	2188.4	2264.3
12.5°	825.8	946.9	1077.0	1203.5	1321.0	1499.9	1754.7	2009.5	2080.0	2137.8
15°	574.7	722.8	909.0	1073.4	1237.9	1393.3	1657.1	1966.1	2061.9	2159.5
17.5°	318.1	435.5	648.8	880.1	1122.2	1360.8	1689.6	2045.6	2190.2	2258.9
20°	184.3	231.3	383.1	657.8	977.6	1290.3	1705.9	2195.6	2387.2	2421.5
22.5°	151.8	168.1	216.9	412.0	800.5	1245.1	1789.0	2405.3	2600.4	2681.7
25°	130.1	142.8	168.1	247.6	605.4	1149.3	1841.4	2667.3	2848.0	2936.5
27.5°	115.7	128.3	148.2	182.5	412.0	1017.4	1928.2	2904.0	3084.7	3205.8
30°	101.2	112.0	131.9	155.4	285.5	869.2	2002.3	3077.5	3332.3	3370.3
32.5°	90.4	99.4	113.8	133.7	211.4	659.6	2061.9	3256.4	3471.5	3554.6
35°	77.7	88.5	97.6	113.8	160.8	497.0	2025.8	3395.6	3675.7	3775.0
37.5°	68.7	75.9	84.9	95.8	135.5	388.5	1951.7	3561.8	3850.9	3943.1
40°	57.8	63.2	74.1	84.9	122.9	300.0	1866.7	3762.4	4096.7	4259.3
42.5°	48.8	54.2	61.4	79.5	101.2	222.3	1695.1	3917.8	4295.5	4432.8
45°	37.9	45.2	56.0	79.5	81.3	164.4	1518.0	4033.5	4407.5	4476.2
47.5°	28.9	36.1	54.2	68.7	65.1	113.8	1308.3	4165.4	4523.2	4586.4
50°	21.7	28.9	61.4	59.6	54.2	86.7	1176.4	4257.5	4530.4	4564.7
52.5°	14.5	21.7	50.6	45.2	45.2	75.9	1140.3	4253.9	4548.5	4474.4
55°	10.8	16.3	28.9	32.5	39.8	66.9	1107.8	4389.5	4553.9	4606.3
57.5°	7.2	12.6	19.9	25.3	34.3	57.8	1040.9	4552.1	4722.0	4749.1
60°	3.6	9.0	14.5	19.9	28.9	50.6	946.9	4671.4	4926.2	4955.1
62.5°	1.8	5.4	10.8	16.3	23.5	39.8	849.3	4481.6	4837.6	4888.2
65°	0.0	3.6	7.2	10.8	14.5	28.9	690.3	4046.1	4487.0	4673.2
67.5°	0.0	0.0	3.6	7.2	9.0	21.7	520.4	3681.1	4163.6	4416.6
70°	0.0	0.0	1.8	1.8	5.4	16.3	332.5	3048.6	3717.2	3856.4
72.5°	0.0	0.0	0.0	0.0	1.8	10.8	193.4	2264.3	2913.1	3171.5
75°	0.0	0.0	0.0	0.0	0.0	9.0	97.6	1456.5	2027.6	2374.5
77.5°	0.0	0.0	0.0	0.0	0.0	7.2	52.4	939.7	1494.5	1785.4
80°	0.0	0.0	0.0	0.0	0.0	1.8	30.7	545.7	956.0	1158.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.6	267.5	571.0	668.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	142.8	285.5	375.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	19.9	37.9
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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