

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: P677402

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677402
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-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

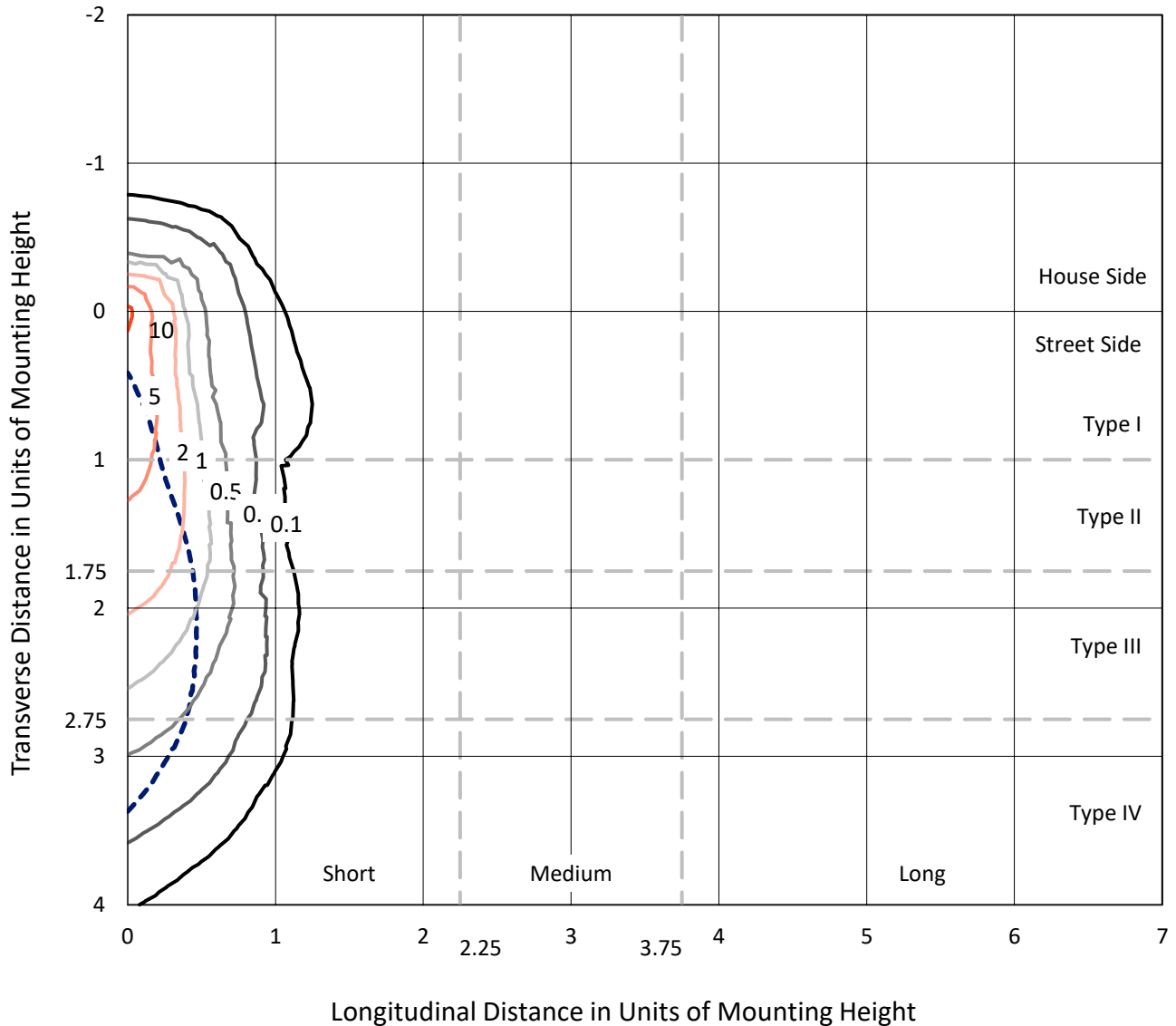
Lumens per Lamp: N/A
Luminaire Lumens: 6702.7 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (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

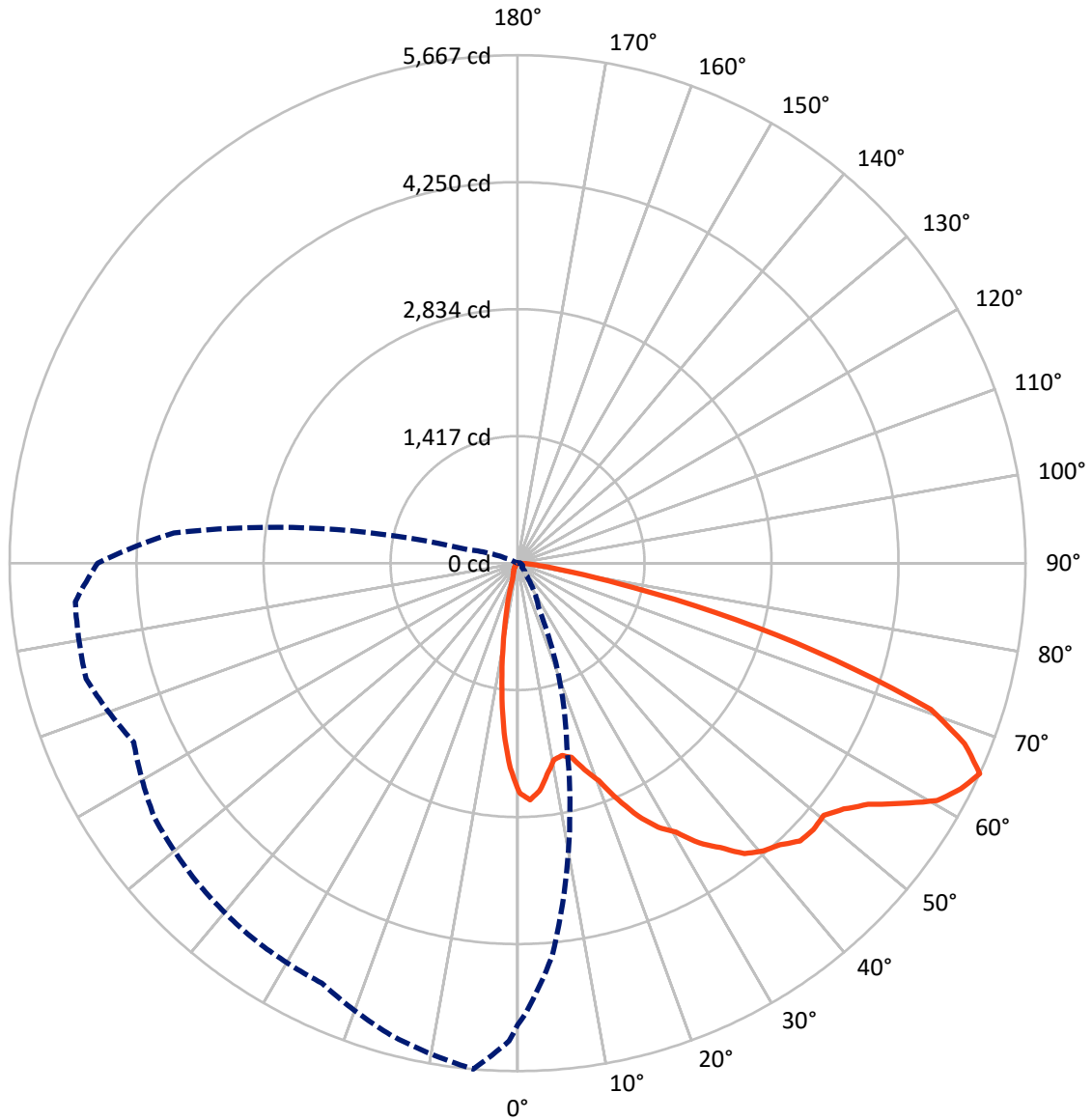
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.4 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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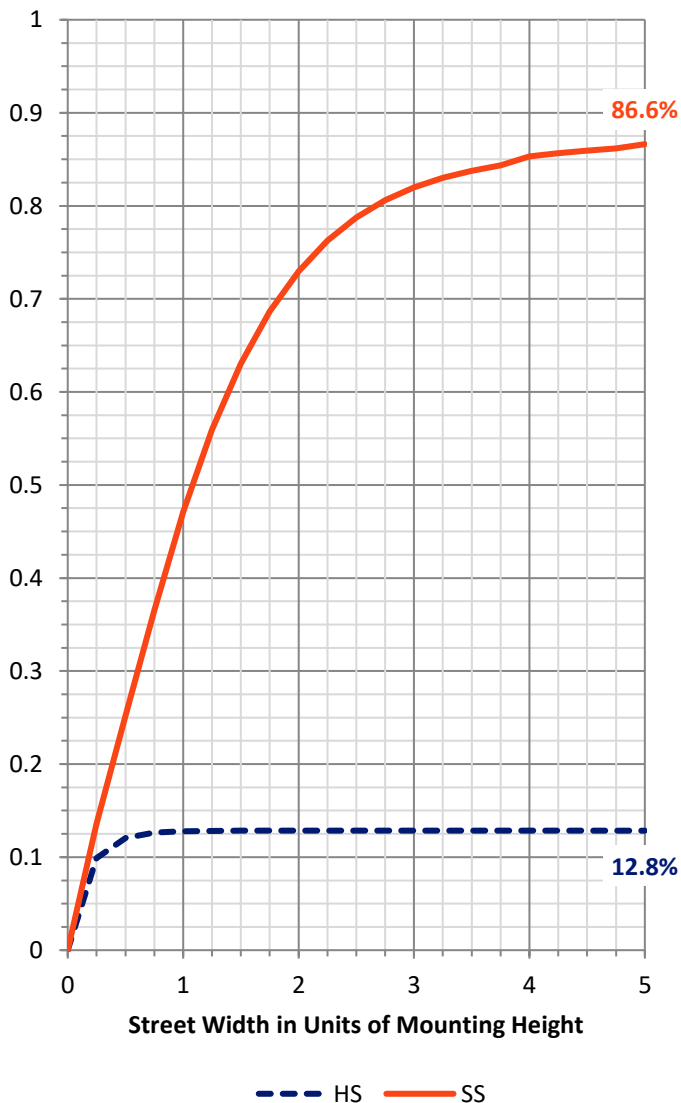
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	870.3	0.0	870.3
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	5832.5	0.0	5832.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	6702.7	0.0	6702.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	2.9
10°-20°	375.9	5.6
20°-30°	523.5	7.8
30°-40°	743.8	11.1
40°-50°	1031.5	15.4
50°-60°	1405.4	21.0
60°-70°	1545.1	23.1
70°-80°	759.4	11.3
80°-90°	124.0	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°	6702.7	100.0
0°-180°	6702.7	100.0



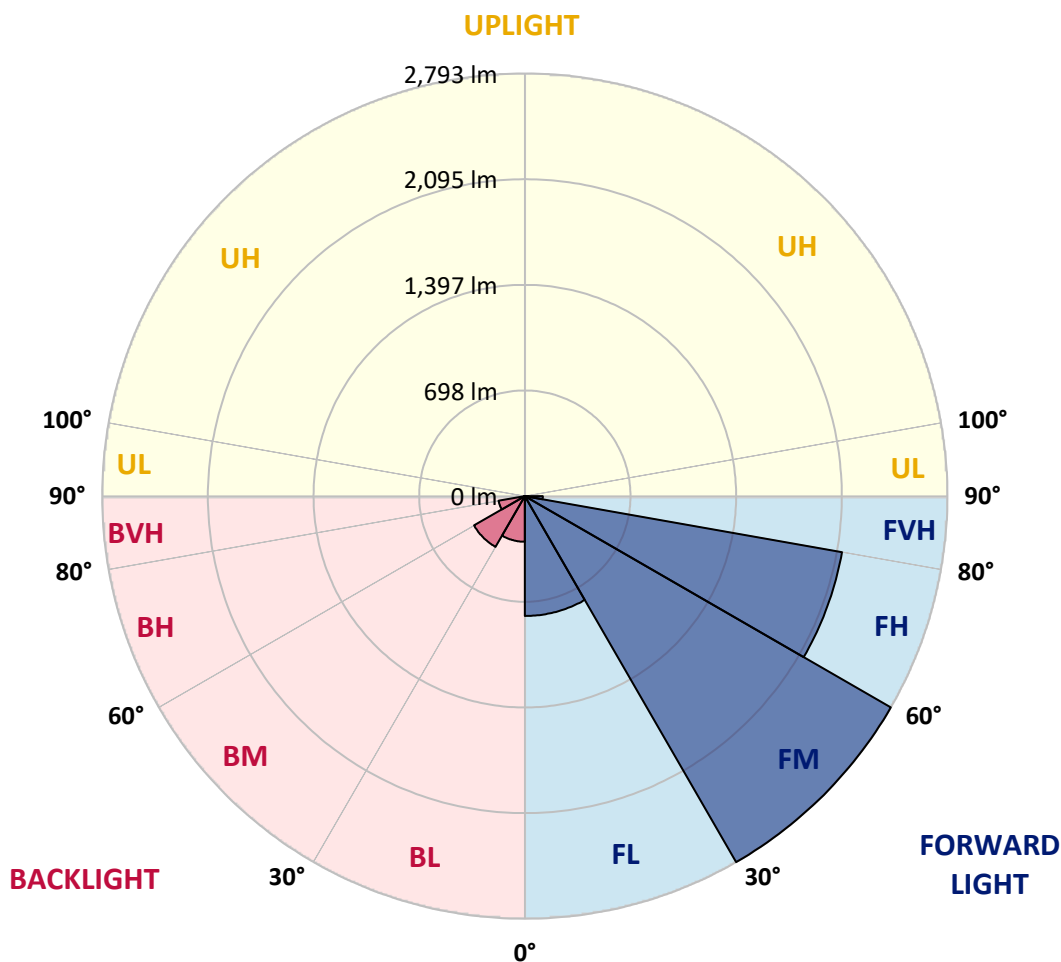
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	792.1	11.8			
FM (30°-60°)	2793.2	41.7			
FH (60°-80°)	2128.7	31.8			G2/5000
FVH (80°-90°)	118.4	1.8			G2/225
BL (0°-30°)	301.3	4.5	B1/500		
BM (30°-60°)	387.5	5.8	B1/1000		
BH (60°-80°)	175.9	2.6	B1/500		G1/500
BVH (80°-90°)	5.6	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°	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4
2.5°	2614.9	2645.6	2616.7	2515.5	2497.4	2448.6	2374.5	2369.1	2291.4	2300.4	2258.9
5°	2457.6	2488.4	2426.9	2293.2	2168.5	2069.1	2009.5	1902.9	1879.4	1827.0	1827.0
7.5°	2296.8	2295.0	2190.2	2078.1	1892.0	1709.5	1626.4	1472.8	1382.4	1333.6	1286.6
10°	2163.1	2134.2	2069.1	1837.8	1635.4	1445.7	1342.7	1241.5	1147.5	1066.2	984.9
12.5°	2069.1	2087.2	1984.2	1733.0	1471.0	1339.1	1228.8	1122.2	1010.2	918.0	827.6
15°	2117.9	2089.0	1967.9	1709.5	1443.9	1263.2	1116.8	986.7	862.0	740.9	672.2
17.5°	2269.7	2195.6	2052.9	1709.5	1387.8	1147.5	970.4	816.8	683.1	574.7	489.7
20°	2473.9	2389.0	2235.4	1772.8	1346.3	1062.6	820.4	627.1	487.9	386.7	321.7
22.5°	2683.5	2616.7	2385.4	1798.1	1297.5	948.7	646.9	453.6	325.3	260.2	227.7
25°	2934.7	2840.7	2587.7	1899.2	1225.2	838.5	509.6	316.2	242.1	207.8	187.9
27.5°	3135.3	3119.0	2777.5	1960.7	1171.0	748.1	403.0	251.2	200.6	175.3	162.6
30°	3388.3	3299.7	3008.8	2083.6	1109.6	645.1	336.1	225.9	184.3	157.2	148.2
32.5°	3540.1	3498.5	3129.9	2152.2	1040.9	560.2	289.1	198.8	168.1	148.2	139.1
35°	3760.5	3677.4	3303.4	2195.6	1004.7	511.4	260.2	180.7	141.0	121.1	110.2
37.5°	4006.3	3975.6	3511.2	2193.8	952.3	482.5	240.3	168.1	133.7	112.0	99.4
40°	4257.5	4132.8	3637.7	2244.4	925.2	460.8	225.9	160.8	126.5	106.6	90.4
42.5°	4445.4	4302.7	3784.0	2226.3	892.7	422.9	220.5	150.0	121.1	97.6	83.1
45°	4496.0	4445.4	3916.0	2220.9	869.2	392.1	211.4	148.2	117.5	92.2	77.7
47.5°	4593.6	4559.3	4078.6	2229.9	851.1	368.6	189.7	151.8	112.0	86.7	74.1
50°	4637.0	4575.5	4210.5	2251.6	809.6	339.7	169.9	159.0	110.2	84.9	70.5
52.5°	4815.9	4761.7	4391.2	2313.1	775.2	301.8	150.0	151.8	113.8	79.5	66.9
55°	4991.2	4929.7	4669.5	2454.0	726.4	271.1	128.3	133.7	108.4	72.3	59.6
57.5°	5231.5	5130.3	4855.6	2511.9	683.1	229.5	113.8	110.2	101.2	65.1	52.4
60°	5267.7	5309.2	4828.5	2475.7	637.9	202.4	99.4	84.9	108.4	57.8	45.2
62.5°	5388.7	5215.3	4702.0	2392.6	605.4	186.1	88.5	70.5	94.0	50.6	37.9
65°	5155.6	5027.3	4405.7	2125.1	563.8	187.9	77.7	57.8	59.6	41.6	30.7
67.5°	4814.1	4712.9	3914.1	1834.2	522.2	184.3	68.7	50.6	45.2	36.1	27.1
70°	4225.0	4006.3	3325.0	1489.0	460.8	171.7	57.8	45.2	37.9	28.9	19.9
72.5°	3073.9	2985.3	2385.4	1151.1	413.8	155.4	54.2	37.9	32.5	21.7	16.3
75°	2069.1	1922.7	1505.3	755.4	332.5	135.5	45.2	34.3	25.3	16.3	12.6
77.5°	1093.3	1033.7	852.9	359.6	184.3	63.2	25.3	19.9	14.5	12.6	7.2
80°	473.5	421.1	368.6	146.4	65.1	28.9	16.3	10.8	9.0	7.2	3.6
82.5°	242.1	231.3	191.6	63.2	37.9	21.7	9.0	7.2	5.4	3.6	1.8
85°	119.3	122.9	101.2	19.9	21.7	12.6	1.8	1.8	0.0	0.0	0.0
87.5°	9.0	9.0	7.2	3.6	5.4	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°	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4
2.5°	2242.6	2267.9	2224.5	2251.6	2239.0	2244.4	2249.8	2235.4	2239.0	2289.6	2291.4
5°	1796.2	1845.0	1827.0	1852.3	1895.6	1873.9	1893.8	1890.2	1893.8	1901.1	1933.6
7.5°	1281.2	1266.8	1301.1	1368.0	1445.7	1492.7	1469.2	1456.5	1449.3	1431.2	1452.9
10°	966.8	959.6	950.5	970.4	1021.0	1073.4	1102.3	1053.5	1026.4	992.1	979.4
12.5°	802.3	757.2	731.9	701.1	715.6	762.6	764.4	717.4	674.0	656.0	675.9
15°	632.5	601.8	556.6	513.2	491.5	527.7	496.9	451.8	395.8	388.5	386.7
17.5°	451.8	433.7	401.2	383.1	357.8	348.8	316.2	247.6	207.8	197.0	200.6
20°	307.2	292.7	290.9	274.7	263.8	256.6	204.2	159.0	146.4	148.2	150.0
22.5°	227.7	220.5	211.4	209.6	200.6	191.6	150.0	133.7	124.7	124.7	130.1
25°	186.1	182.5	173.5	169.9	166.3	153.6	126.5	113.8	110.2	106.6	112.0
27.5°	159.0	157.2	151.8	146.4	142.8	130.1	110.2	99.4	95.8	95.8	95.8
30°	142.8	142.8	135.5	124.7	124.7	110.2	94.0	86.7	83.1	83.1	81.3
32.5°	133.7	130.1	121.1	113.8	108.4	94.0	83.1	75.9	70.5	70.5	72.3
35°	108.4	108.4	106.6	101.2	94.0	79.5	70.5	63.2	59.6	57.8	59.6
37.5°	95.8	90.4	83.1	84.9	81.3	68.7	59.6	54.2	48.8	48.8	48.8
40°	86.7	81.3	74.1	68.7	66.9	61.4	52.4	43.4	37.9	36.1	36.1
42.5°	77.7	74.1	63.2	54.2	52.4	52.4	39.8	32.5	27.1	27.1	27.1
45°	72.3	66.9	57.8	47.0	37.9	39.8	32.5	23.5	19.9	18.1	18.1
47.5°	68.7	63.2	50.6	39.8	28.9	28.9	23.5	16.3	12.6	10.8	10.8
50°	63.2	57.8	45.2	32.5	21.7	18.1	14.5	9.0	5.4	3.6	3.6
52.5°	59.6	54.2	39.8	27.1	18.1	12.6	9.0	1.8	0.0	0.0	0.0
55°	54.2	47.0	34.3	21.7	14.5	7.2	1.8	0.0	0.0	0.0	0.0
57.5°	47.0	41.6	27.1	16.3	9.0	1.8	0.0	0.0	0.0	0.0	0.0
60°	39.8	34.3	21.7	12.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	32.5	28.9	16.3	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	27.1	21.7	12.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	23.5	18.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	18.1	12.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12.6	9.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.4	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°	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4
2.5°	2298.6	2352.8	2403.4	2417.9	2457.6	2567.9	2567.9	2620.3	2714.2	2748.6	2755.8
5°	1939.0	1996.8	2007.7	2119.7	2172.1	2284.2	2358.2	2535.3	2642.0	2708.8	2750.4
7.5°	1474.6	1494.5	1536.0	1640.8	1743.8	1879.4	2020.3	2246.2	2434.1	2510.0	2651.0
10°	1013.8	1073.4	1163.8	1257.7	1418.6	1568.6	1751.1	1964.3	2195.6	2289.6	2410.7
12.5°	683.1	766.2	910.8	1044.5	1192.7	1344.5	1518.0	1803.5	2065.5	2195.6	2316.7
15°	399.4	500.6	625.3	842.1	1039.1	1208.9	1382.4	1671.6	1989.6	2157.7	2305.8
17.5°	202.4	233.1	336.1	524.1	784.3	1062.6	1321.0	1689.6	2047.4	2253.4	2376.3
20°	151.8	160.8	189.7	278.3	536.7	878.2	1263.2	1716.7	2208.3	2459.4	2526.3
22.5°	131.9	139.1	151.8	180.7	301.8	672.2	1181.8	1783.6	2426.9	2663.6	2804.6
25°	112.0	119.3	130.1	148.2	193.4	457.2	1082.4	1854.1	2622.1	2920.3	3052.2
27.5°	97.6	103.0	113.8	128.3	157.2	290.9	910.8	1948.0	2920.3	3231.1	3265.4
30°	83.1	88.5	97.6	113.8	133.7	206.0	668.6	1960.7	3084.7	3366.6	3462.4
32.5°	72.3	74.1	84.9	99.4	112.0	162.6	469.8	1973.3	3205.8	3541.9	3561.8
35°	59.6	63.2	74.1	83.1	97.6	128.3	356.0	1910.1	3363.0	3722.6	3717.2
37.5°	48.8	54.2	61.4	68.7	79.5	108.4	283.7	1792.6	3560.0	4002.7	3832.8
40°	37.9	43.4	50.6	59.6	66.9	97.6	213.2	1615.5	3766.0	4140.0	3959.3
42.5°	27.1	30.7	37.9	47.0	59.6	81.3	153.6	1405.9	3847.3	4300.9	4111.1
45°	19.9	23.5	28.9	39.8	61.4	65.1	106.6	1214.4	3934.0	4371.3	4076.8
47.5°	10.8	14.5	21.7	34.3	54.2	48.8	75.9	1042.7	4033.4	4434.6	4103.9
50°	3.6	5.4	12.6	36.1	43.4	37.9	59.6	950.5	4131.0	4447.2	4158.1
52.5°	0.0	0.0	7.2	37.9	32.5	28.9	52.4	914.4	4105.7	4487.0	4123.8
55°	0.0	0.0	1.8	16.3	18.1	21.7	43.4	912.6	4284.6	4499.6	4311.7
57.5°	0.0	0.0	0.0	5.4	10.8	18.1	37.9	854.8	4398.4	4814.1	4564.7
60°	0.0	0.0	0.0	1.8	7.2	12.6	28.9	804.2	4514.1	4955.0	4835.8
62.5°	0.0	0.0	0.0	0.0	1.8	5.4	19.9	726.4	4281.0	4944.2	5097.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	12.6	574.7	3850.9	4685.8	4953.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	397.6	3372.0	4360.5	4687.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	240.3	2721.5	3823.8	3975.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103.0	1942.6	3035.9	3261.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.6	1201.7	2219.1	2497.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	778.9	1680.6	1895.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	415.6	1053.5	1225.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	180.7	639.7	737.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.8	388.5	442.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.6	79.5
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°	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4
2.5°	2759.4	2811.8	2831.7	2801.0	2804.6	2741.4	2732.3	2643.8	2607.6	2614.9
5°	2885.9	2961.8	3003.4	2969.0	2891.3	2770.3	2660.0	2555.2	2490.2	2457.6
7.5°	2857.0	2941.9	2994.3	3026.9	2938.3	2743.2	2575.1	2378.1	2295.0	2296.8
10°	2698.0	2875.1	2981.7	2940.1	2898.6	2703.4	2443.2	2229.9	2155.9	2163.1
12.5°	2569.7	2766.6	2829.9	2862.4	2777.5	2622.1	2446.8	2202.8	2119.7	2069.1
15°	2490.2	2636.5	2640.2	2690.8	2656.4	2656.4	2484.7	2246.2	2173.9	2117.9
17.5°	2490.2	2522.7	2519.1	2537.1	2595.0	2663.6	2580.5	2421.5	2278.7	2269.7
20°	2546.2	2445.0	2421.5	2428.7	2477.5	2681.7	2791.9	2593.2	2502.8	2473.9
22.5°	2676.3	2454.0	2311.3	2286.0	2436.0	2679.9	2927.5	2864.2	2707.0	2683.5
25°	2855.2	2437.8	2282.4	2249.8	2363.7	2745.0	3113.6	3126.3	2983.5	2934.7
27.5°	3025.1	2510.0	2278.7	2271.5	2421.5	2730.5	3241.9	3335.9	3175.1	3135.3
30°	3082.9	2582.3	2345.6	2249.8	2443.2	2782.9	3238.3	3484.1	3379.3	3388.3
32.5°	3151.6	2654.6	2352.8	2314.9	2535.3	2867.8	3341.3	3722.6	3646.7	3540.1
35°	3252.8	2752.2	2421.5	2387.2	2600.4	2943.7	3363.0	3897.9	3885.2	3760.5
37.5°	3339.5	2848.0	2564.3	2569.7	2799.2	3066.6	3458.8	4112.9	4091.2	4006.3
40°	3400.9	2981.7	2786.5	2801.0	2972.7	3204.0	3628.6	4221.4	4382.2	4257.5
42.5°	3410.0	3101.0	3041.3	3157.0	3317.8	3417.2	3697.3	4295.4	4526.8	4445.4
45°	3444.3	3290.7	3457.0	3541.9	3673.8	3605.1	3693.7	4421.9	4537.6	4496.0
47.5°	3578.0	3635.9	3845.5	4103.9	4150.9	3925.0	3780.4	4441.8	4599.0	4593.6
50°	3717.2	4006.3	4300.9	4472.5	4532.2	4145.5	3861.7	4425.6	4680.4	4637.0
52.5°	3872.6	4328.0	4752.6	4964.1	4931.5	4389.4	3953.9	4557.5	4830.3	4815.9
55°	3970.2	4472.5	5043.6	5338.1	5312.8	4662.3	4246.7	4747.2	5027.3	4991.2
57.5°	4228.6	4707.5	5332.7	5470.1	5536.9	5020.1	4450.9	5058.0	5191.8	5231.5
60°	4441.8	4861.1	5408.6	5607.4	5630.9	5233.3	4808.7	5377.9	5401.4	5267.7
62.5°	4754.4	4920.7	5247.8	5426.7	5547.8	5354.4	5130.3	5549.6	5397.8	5388.7
65°	4983.9	4725.5	4947.8	5047.2	5124.9	5170.1	5453.8	5667.0	5330.9	5155.6
67.5°	4855.6	4356.9	4315.3	4320.7	4344.2	4617.1	5345.4	5379.7	4958.6	4814.1
70°	4273.8	3574.4	3518.4	3561.8	3444.3	3773.2	4906.2	4890.0	4375.0	4225.0
72.5°	3457.0	2605.8	2510.0	2569.7	2596.8	2945.6	4127.4	3708.1	3191.3	3073.9
75°	2746.8	1910.1	1611.9	1756.5	1848.6	2145.0	3223.8	2519.1	2228.1	2069.1
77.5°	2157.7	1445.7	1254.1	1196.3	1281.2	1559.5	2345.6	1322.8	1167.4	1093.3
80°	1368.0	1062.6	1152.9	1069.8	1105.9	1113.2	1221.6	601.8	478.9	473.5
82.5°	824.0	726.4	863.8	475.3	865.6	773.4	507.8	272.9	242.1	242.1
85°	583.7	450.0	298.2	193.4	384.9	424.7	197.0	141.0	122.9	119.3
87.5°	292.7	139.1	66.9	43.4	48.8	79.5	23.5	10.8	10.8	9.0
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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