

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: P677457

Luminaire Tested: **CCW-SA-2D-760-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677457
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-760-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) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8198.3 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

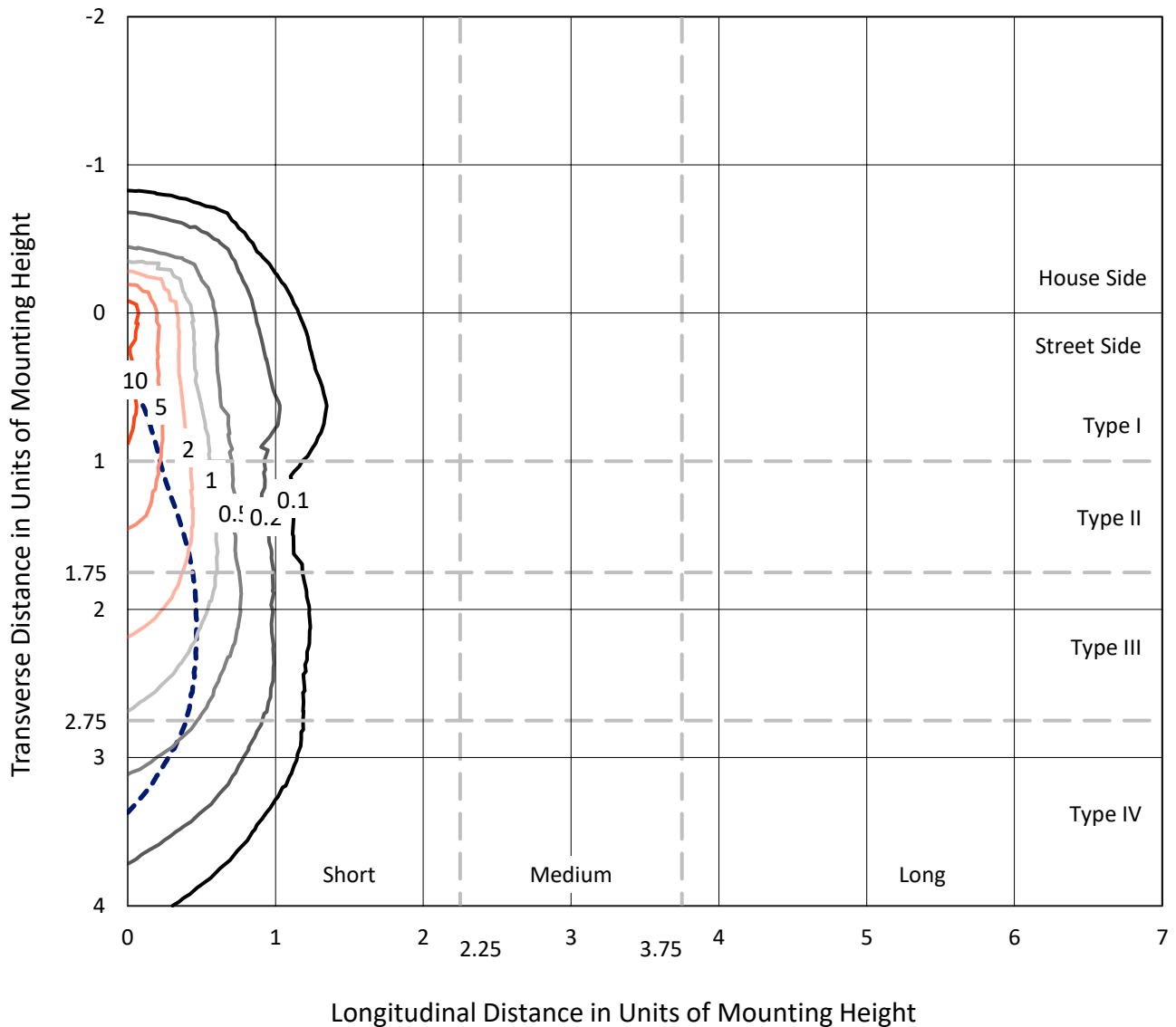
Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

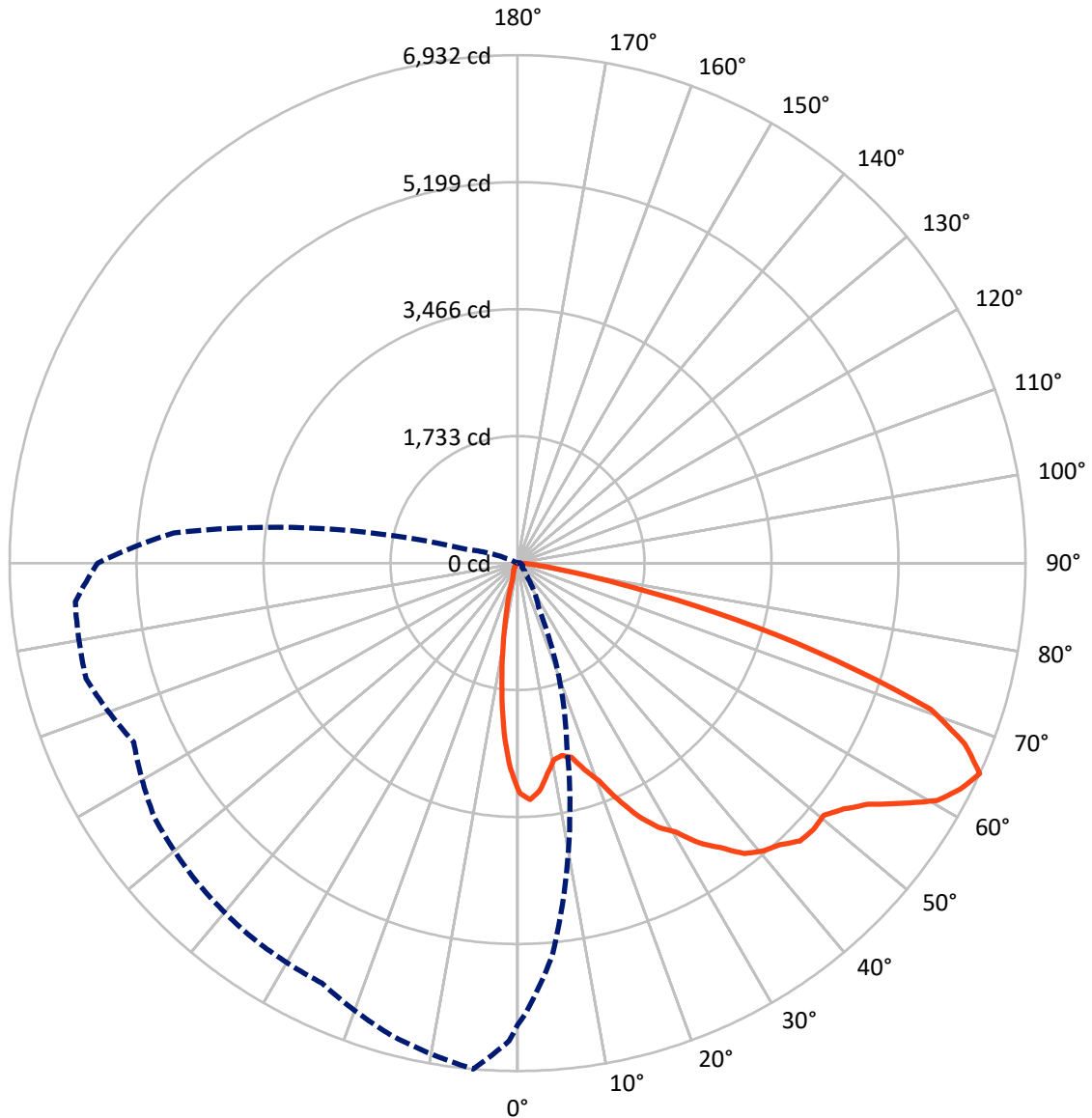
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.9 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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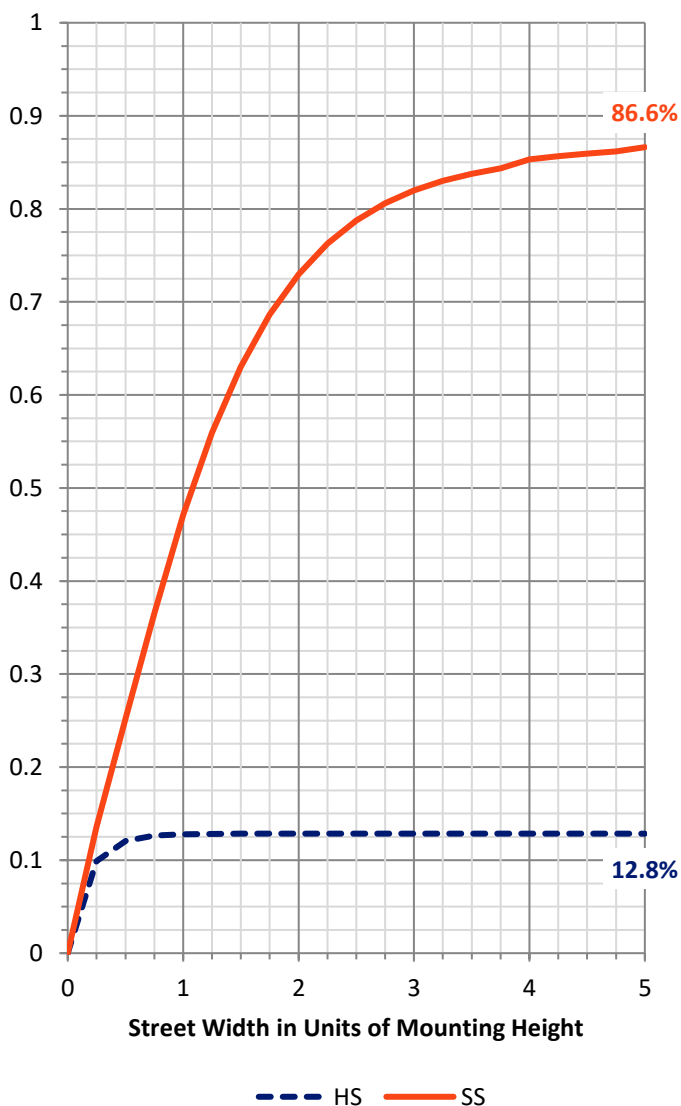
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1064.5	0.0	1064.5
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	7133.8	0.0	7133.8
	% Fixture	87.0	0.0	87.0
Total	Lumens	8198.3	0.0	8198.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.4	2.9
10°-20°	459.7	5.6
20°-30°	640.3	7.8
30°-40°	909.8	11.1
40°-50°	1261.6	15.4
50°-60°	1719.0	21.0
60°-70°	1889.9	23.1
70°-80°	928.9	11.3
80°-90°	151.7	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°	8198.3	100.0
0°-180°	8198.3	100.0

Coefficient of Utilization



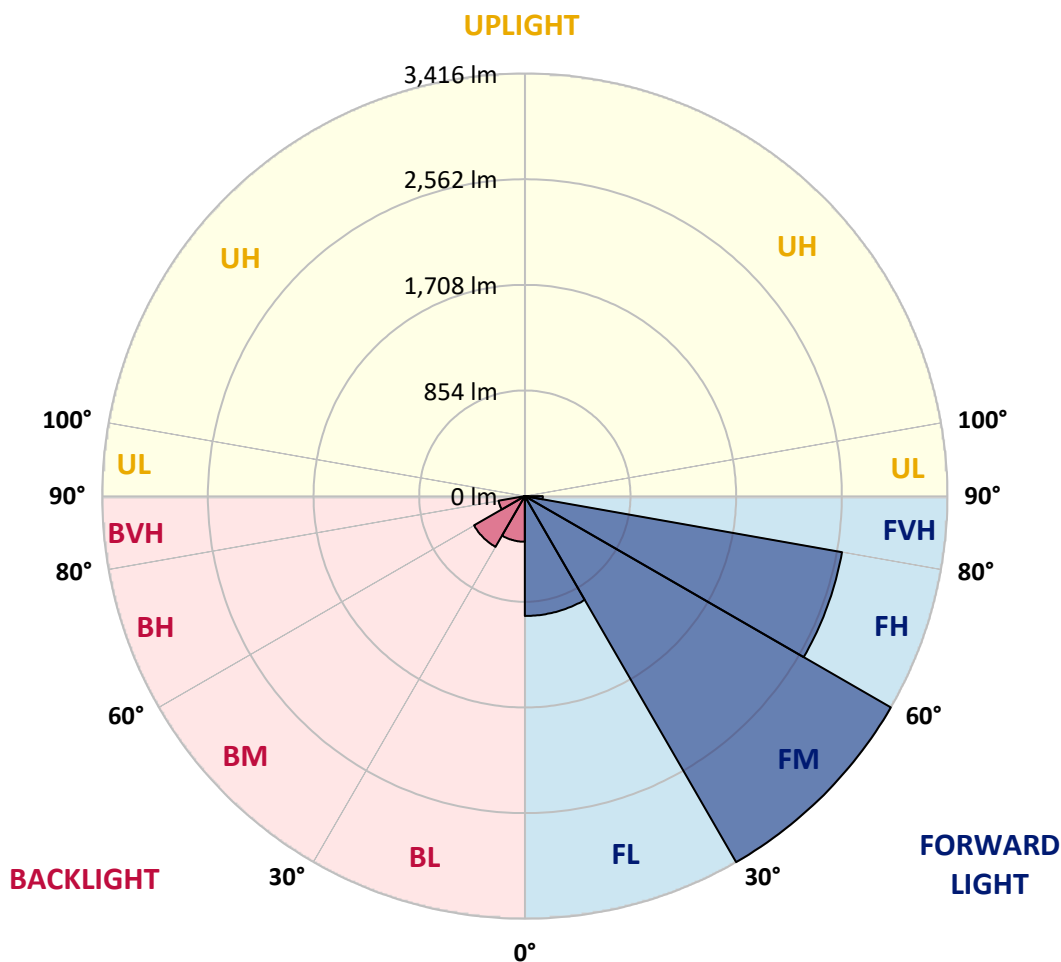
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.9	11.8			
FM (30°-60°)	3416.5	41.7			
FH (60°-80°)	2603.7	31.8			G2/5000
FVH (80°-90°)	144.8	1.8			G2/225
BL (0°-30°)	368.6	4.5	B1/500		
BM (30°-60°)	473.9	5.8	B1/1000		
BH (60°-80°)	215.1	2.6	B1/500		G1/500
BVH (80°-90°)	6.8	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°	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2
2.5°	3198.3	3235.9	3200.5	3076.7	3054.6	2994.9	2904.3	2897.7	2802.7	2813.7	2762.9
5°	3006.0	3043.6	2968.4	2804.9	2652.4	2530.8	2457.8	2327.4	2298.7	2234.6	2234.6
7.5°	2809.3	2807.1	2678.9	2541.8	2314.2	2090.9	1989.3	1801.4	1690.9	1631.2	1573.7
10°	2645.7	2610.4	2530.8	2247.9	2000.3	1768.2	1642.2	1518.5	1403.5	1304.1	1204.6
12.5°	2530.8	2552.9	2426.9	2119.7	1799.2	1637.8	1503.0	1372.6	1235.6	1122.8	1012.3
15°	2590.5	2555.1	2407.0	2090.9	1766.0	1545.0	1366.0	1206.8	1054.3	906.2	822.2
17.5°	2776.1	2685.5	2510.9	2090.9	1697.5	1403.5	1186.9	999.1	835.5	702.9	599.0
20°	3025.9	2922.0	2734.1	2168.3	1646.7	1299.7	1003.5	767.0	596.8	473.0	393.4
22.5°	3282.3	3200.5	2917.6	2199.2	1587.0	1160.4	791.3	554.8	397.9	318.3	278.5
25°	3589.5	3474.6	3165.1	2323.0	1498.6	1025.6	623.3	386.8	296.2	254.2	229.9
27.5°	3834.9	3815.0	3397.2	2398.2	1432.3	915.1	492.9	307.2	245.3	214.4	198.9
30°	4144.3	4036.0	3680.1	2548.5	1357.1	789.1	411.1	276.3	225.5	192.3	181.2
32.5°	4330.0	4279.1	3828.2	2632.5	1273.1	685.2	353.6	243.1	205.6	181.2	170.2
35°	4599.6	4497.9	4040.4	2685.5	1228.9	625.5	318.3	221.0	172.4	148.1	134.8
37.5°	4900.2	4862.6	4294.6	2683.3	1164.8	590.1	294.0	205.6	163.6	137.0	121.6
40°	5207.5	5054.9	4449.3	2745.2	1131.7	563.6	276.3	196.7	154.7	130.4	110.5
42.5°	5437.3	5262.7	4628.4	2723.1	1091.9	517.2	269.7	183.5	148.1	119.4	101.7
45°	5499.2	5437.3	4789.7	2716.5	1063.2	479.6	258.6	181.2	143.7	112.7	95.0
47.5°	5618.6	5576.6	4988.6	2727.5	1041.0	450.9	232.1	185.7	137.0	106.1	90.6
50°	5671.6	5596.5	5150.0	2754.0	990.2	415.5	207.8	194.5	134.8	103.9	86.2
52.5°	5890.4	5824.1	5371.0	2829.2	948.2	369.1	183.5	185.7	139.2	97.3	81.8
55°	6104.8	6029.7	5711.4	3001.6	888.5	331.5	156.9	163.6	132.6	88.4	72.9
57.5°	6398.8	6275.0	5939.1	3072.3	835.5	280.7	139.2	134.8	123.8	79.6	64.1
60°	6443.0	6493.8	5905.9	3028.1	780.2	247.6	121.6	103.9	132.6	70.7	55.3
62.5°	6591.1	6378.9	5751.2	2926.4	740.4	227.7	108.3	86.2	114.9	61.9	46.4
65°	6306.0	6149.0	5388.7	2599.3	689.6	229.9	95.0	70.7	72.9	50.8	37.6
67.5°	5888.2	5764.4	4787.5	2243.4	638.8	225.5	84.0	61.9	55.3	44.2	33.2
70°	5167.7	4900.2	4066.9	1821.3	563.6	210.0	70.7	55.3	46.4	35.4	24.3
72.5°	3759.7	3651.4	2917.6	1408.0	506.2	190.1	66.3	46.4	39.8	26.5	19.9
75°	2530.8	2351.8	1841.2	923.9	406.7	165.8	55.3	42.0	30.9	19.9	15.5
77.5°	1337.2	1264.3	1043.3	439.8	225.5	77.4	30.9	24.3	17.7	15.5	8.8
80°	579.1	515.0	450.9	179.0	79.6	35.4	19.9	13.3	11.1	8.8	4.4
82.5°	296.2	282.9	234.3	77.4	46.4	26.5	11.1	8.8	6.6	4.4	2.2
85°	145.9	150.3	123.8	24.3	26.5	15.5	2.2	2.2	0.0	0.0	0.0
87.5°	11.1	11.1	8.8	4.4	6.6	2.2	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°	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2
2.5°	2743.0	2773.9	2720.9	2754.0	2738.6	2745.2	2751.8	2734.1	2738.6	2800.4	2802.7
5°	2197.0	2256.7	2234.6	2265.6	2318.6	2292.1	2316.4	2312.0	2316.4	2325.2	2365.0
7.5°	1567.1	1549.4	1591.4	1673.2	1768.2	1825.7	1797.0	1781.5	1772.7	1750.6	1777.1
10°	1182.5	1173.7	1162.6	1186.9	1248.8	1312.9	1348.3	1288.6	1255.4	1213.5	1198.0
12.5°	981.4	926.1	895.2	857.6	875.3	932.7	935.0	877.5	824.4	802.3	826.7
15°	773.6	736.0	680.8	627.7	601.2	645.4	607.8	552.6	484.1	475.2	473.0
17.5°	552.6	530.5	490.7	468.6	437.6	426.6	386.8	302.8	254.2	240.9	245.3
20°	375.8	358.1	355.9	336.0	322.7	313.9	249.8	194.5	179.0	181.2	183.5
22.5°	278.5	269.7	258.6	256.4	245.3	234.3	183.5	163.6	152.5	152.5	159.1
25°	227.7	223.2	212.2	207.8	203.3	187.9	154.7	139.2	134.8	130.4	137.0
27.5°	194.5	192.3	185.7	179.0	174.6	159.1	134.8	121.6	117.1	117.1	117.1
30°	174.6	174.6	165.8	152.5	152.5	134.8	114.9	106.1	101.7	101.7	99.5
32.5°	163.6	159.1	148.1	139.2	132.6	114.9	101.7	92.8	86.2	86.2	88.4
35°	132.6	132.6	130.4	123.8	114.9	97.3	86.2	77.4	72.9	70.7	72.9
37.5°	117.1	110.5	101.7	103.9	99.5	84.0	72.9	66.3	59.7	59.7	59.7
40°	106.1	99.5	90.6	84.0	81.8	75.2	64.1	53.0	46.4	44.2	44.2
42.5°	95.0	90.6	77.4	66.3	64.1	64.1	48.6	39.8	33.2	33.2	33.2
45°	88.4	81.8	70.7	57.5	46.4	48.6	39.8	28.7	24.3	22.1	22.1
47.5°	84.0	77.4	61.9	48.6	35.4	35.4	28.7	19.9	15.5	13.3	13.3
50°	77.4	70.7	55.3	39.8	26.5	22.1	17.7	11.1	6.6	4.4	4.4
52.5°	72.9	66.3	48.6	33.2	22.1	15.5	11.1	2.2	0.0	0.0	0.0
55°	66.3	57.5	42.0	26.5	17.7	8.8	2.2	0.0	0.0	0.0	0.0
57.5°	57.5	50.8	33.2	19.9	11.1	2.2	0.0	0.0	0.0	0.0	0.0
60°	48.6	42.0	26.5	15.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	39.8	35.4	19.9	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	33.2	26.5	15.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	28.7	22.1	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	22.1	15.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15.5	11.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.2	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°	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2
2.5°	2811.5	2877.8	2939.7	2957.4	3006.0	3140.8	3140.8	3204.9	3319.9	3361.9	3370.7
5°	2371.6	2442.4	2455.6	2592.7	2656.8	2793.8	2884.4	3101.0	3231.5	3313.2	3364.1
7.5°	1803.6	1827.9	1878.8	2006.9	2132.9	2298.7	2471.1	2747.4	2977.3	3070.1	3242.5
10°	1240.0	1312.9	1423.4	1538.4	1735.1	1918.5	2141.8	2402.6	2685.5	2800.4	2948.5
12.5°	835.5	937.2	1114.0	1277.6	1458.8	1644.5	1856.6	2205.9	2526.4	2685.5	2833.6
15°	488.5	612.3	764.8	1030.0	1270.9	1478.7	1690.9	2044.5	2433.5	2639.1	2820.3
17.5°	247.6	285.1	411.1	641.0	959.3	1299.7	1615.7	2066.6	2504.3	2756.2	2906.5
20°	185.7	196.7	232.1	340.4	656.5	1074.2	1545.0	2099.8	2701.0	3008.2	3090.0
22.5°	161.4	170.2	185.7	221.0	369.1	822.2	1445.5	2181.6	2968.4	3258.0	3430.4
25°	137.0	145.9	159.1	181.2	236.5	559.2	1324.0	2267.8	3207.1	3571.8	3733.2
27.5°	119.4	126.0	139.2	156.9	192.3	355.9	1114.0	2382.7	3571.8	3952.0	3994.0
30°	101.7	108.3	119.4	139.2	163.6	252.0	817.8	2398.2	3773.0	4117.8	4234.9
32.5°	88.4	90.6	103.9	121.6	137.0	198.9	574.7	2413.6	3921.1	4332.2	4356.5
35°	72.9	77.4	90.6	101.7	119.4	156.9	435.4	2336.3	4113.4	4553.2	4546.6
37.5°	59.7	66.3	75.2	84.0	97.3	132.6	347.0	2192.6	4354.3	4895.8	4688.0
40°	46.4	53.0	61.9	72.9	81.8	119.4	260.8	1976.0	4606.3	5063.8	4842.8
42.5°	33.2	37.6	46.4	57.5	72.9	99.5	187.9	1719.6	4705.7	5260.5	5028.4
45°	24.3	28.7	35.4	48.6	75.2	79.6	130.4	1485.3	4811.8	5346.7	4986.4
47.5°	13.3	17.7	26.5	42.0	66.3	59.7	92.8	1275.3	4933.4	5424.1	5019.6
50°	4.4	6.6	15.5	44.2	53.0	46.4	72.9	1162.6	5052.7	5439.5	5085.9
52.5°	0.0	0.0	8.8	46.4	39.8	35.4	64.1	1118.4	5021.8	5488.2	5043.9
55°	0.0	0.0	2.2	19.9	22.1	26.5	53.0	1116.2	5240.6	5503.6	5273.8
57.5°	0.0	0.0	0.0	6.6	13.3	22.1	46.4	1045.5	5379.9	5888.2	5583.2
60°	0.0	0.0	0.0	2.2	8.8	15.5	35.4	983.6	5521.3	6060.6	5914.7
62.5°	0.0	0.0	0.0	0.0	2.2	6.6	24.3	888.5	5236.2	6047.4	6235.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	15.5	702.9	4710.1	5731.3	6058.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.8	486.3	4124.4	5333.4	5733.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	294.0	3328.7	4677.0	4862.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	126.0	2376.1	3713.3	3989.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.8	1469.8	2714.2	3054.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	952.6	2055.6	2318.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	508.4	1288.6	1498.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	221.0	782.4	901.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.7	475.2	541.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.9	97.3
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°	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2	3134.2
2.5°	3375.1	3439.2	3463.5	3426.0	3430.4	3353.0	3342.0	3233.7	3189.5	3198.3
5°	3529.8	3622.7	3673.5	3631.5	3536.5	3388.4	3253.6	3125.4	3045.8	3006.0
7.5°	3494.5	3598.4	3662.5	3702.2	3593.9	3355.2	3149.7	2908.7	2807.1	2809.3
10°	3300.0	3516.6	3647.0	3596.1	3545.3	3306.6	2988.3	2727.5	2636.9	2645.7
12.5°	3143.0	3384.0	3461.3	3501.1	3397.2	3207.1	2992.7	2694.3	2592.7	2530.8
15°	3045.8	3224.8	3229.2	3291.1	3249.1	3249.1	3039.2	2747.4	2659.0	2590.5
17.5°	3045.8	3085.6	3081.2	3103.3	3174.0	3258.0	3156.3	2961.8	2787.2	2776.1
20°	3114.3	2990.5	2961.8	2970.6	3030.3	3280.1	3414.9	3171.8	3061.3	3025.9
22.5°	3273.4	3001.6	2827.0	2796.0	2979.5	3277.9	3580.7	3503.3	3311.0	3282.3
25°	3492.3	2981.7	2791.6	2751.8	2891.1	3357.4	3808.3	3823.8	3649.2	3589.5
27.5°	3700.0	3070.1	2787.2	2778.3	2961.8	3339.8	3965.3	4080.2	3883.5	3834.9
30°	3770.8	3158.5	2869.0	2751.8	2988.3	3403.9	3960.8	4261.4	4133.3	4144.3
32.5°	3854.8	3246.9	2877.8	2831.4	3101.0	3507.7	4086.8	4553.2	4460.4	4330.0
35°	3978.5	3366.3	2961.8	2919.8	3180.6	3600.6	4113.4	4767.6	4752.1	4599.6
37.5°	4084.6	3483.4	3136.4	3143.0	3423.7	3750.9	4230.5	5030.6	5004.1	4900.2
40°	4159.8	3647.0	3408.3	3426.0	3635.9	3918.9	4438.3	5163.2	5360.0	5207.5
42.5°	4170.8	3792.9	3719.9	3861.4	4058.1	4179.7	4522.3	5253.9	5536.8	5437.3
45°	4212.8	4024.9	4228.3	4332.2	4493.5	4409.5	4517.8	5408.6	5550.0	5499.2
47.5°	4376.4	4447.1	4703.5	5019.6	5077.0	4800.8	4623.9	5432.9	5625.2	5618.6
50°	4546.6	4900.2	5260.5	5470.5	5543.4	5070.4	4723.4	5413.0	5724.7	5671.6
52.5°	4736.7	5293.7	5813.1	6071.7	6031.9	5368.8	4836.1	5574.4	5908.1	5890.4
55°	4856.0	5470.5	6168.9	6529.2	6498.3	5702.6	5194.2	5806.4	6149.0	6104.8
57.5°	5172.1	5757.8	6522.6	6690.6	6772.3	6140.2	5444.0	6186.6	6350.2	6398.8
60°	5432.9	5945.7	6615.4	6858.5	6887.3	6401.0	5881.6	6577.8	6606.6	6443.0
62.5°	5815.3	6018.6	6418.7	6637.5	6785.6	6549.1	6275.0	6787.8	6602.1	6591.1
65°	6096.0	5779.9	6051.8	6173.4	6268.4	6323.7	6670.7	6931.5	6520.4	6306.0
67.5°	5939.1	5329.0	5278.2	5284.8	5313.5	5647.3	6538.1	6580.0	6065.0	5888.2
70°	5227.3	4372.0	4303.4	4356.5	4212.8	4615.1	6000.9	5981.1	5351.1	5167.7
72.5°	4228.3	3187.2	3070.1	3143.0	3176.2	3602.8	5048.3	4535.5	3903.4	3759.7
75°	3359.6	2336.3	1971.6	2148.4	2261.1	2623.6	3943.2	3081.2	2725.3	2530.8
77.5°	2639.1	1768.2	1533.9	1463.2	1567.1	1907.5	2869.0	1617.9	1427.9	1337.2
80°	1673.2	1299.7	1410.2	1308.5	1352.7	1361.5	1494.2	736.0	585.7	579.1
82.5°	1007.9	888.5	1056.5	581.3	1058.7	946.0	621.1	333.8	296.2	296.2
85°	713.9	550.4	364.7	236.5	470.8	519.4	240.9	172.4	150.3	145.9
87.5°	358.1	170.2	81.8	53.0	59.7	97.3	28.7	13.3	13.3	11.1
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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