

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: P677458

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677458
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-760-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

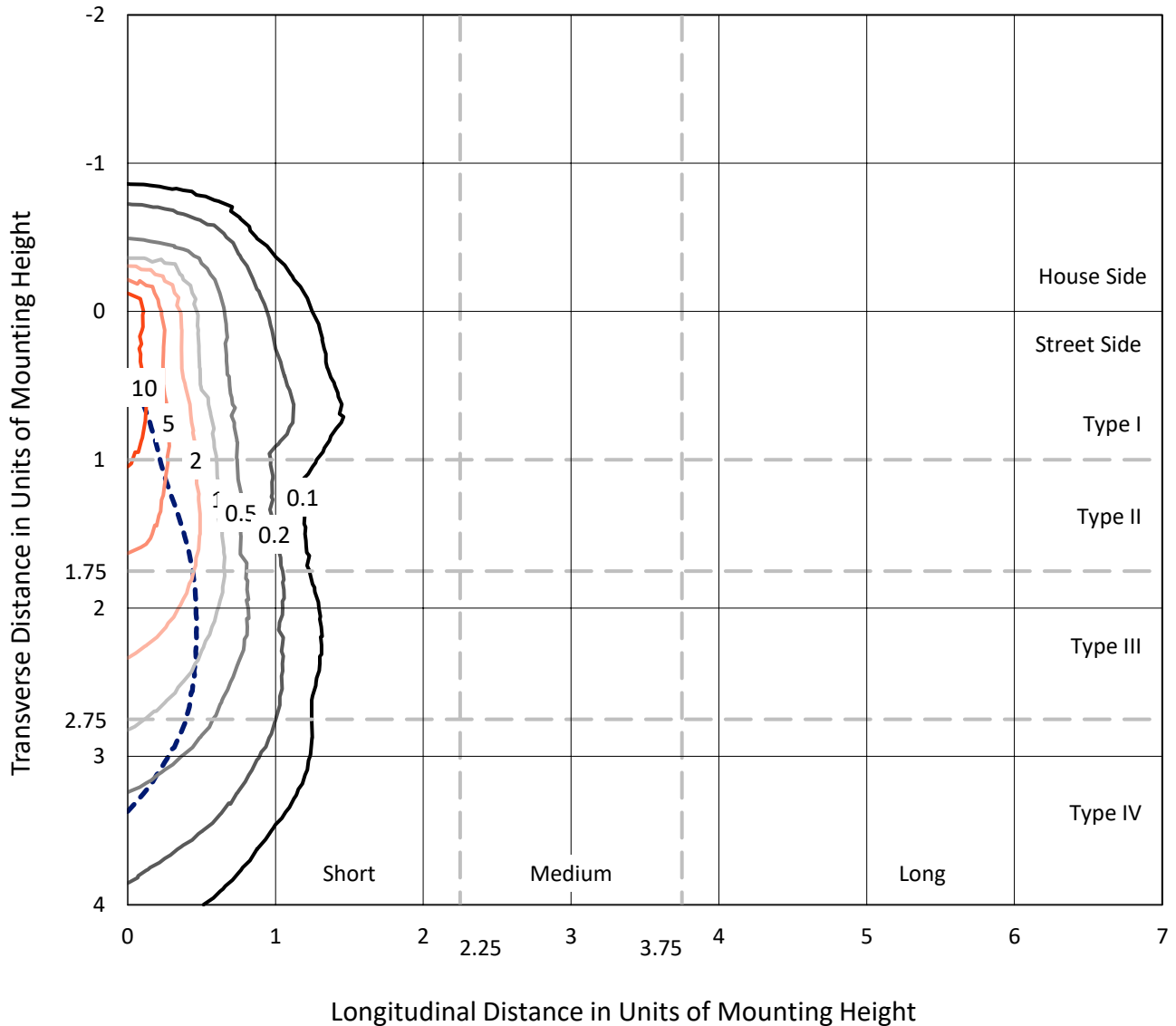
Lumens per Lamp: N/A
Luminaire Lumens: 10050.9 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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

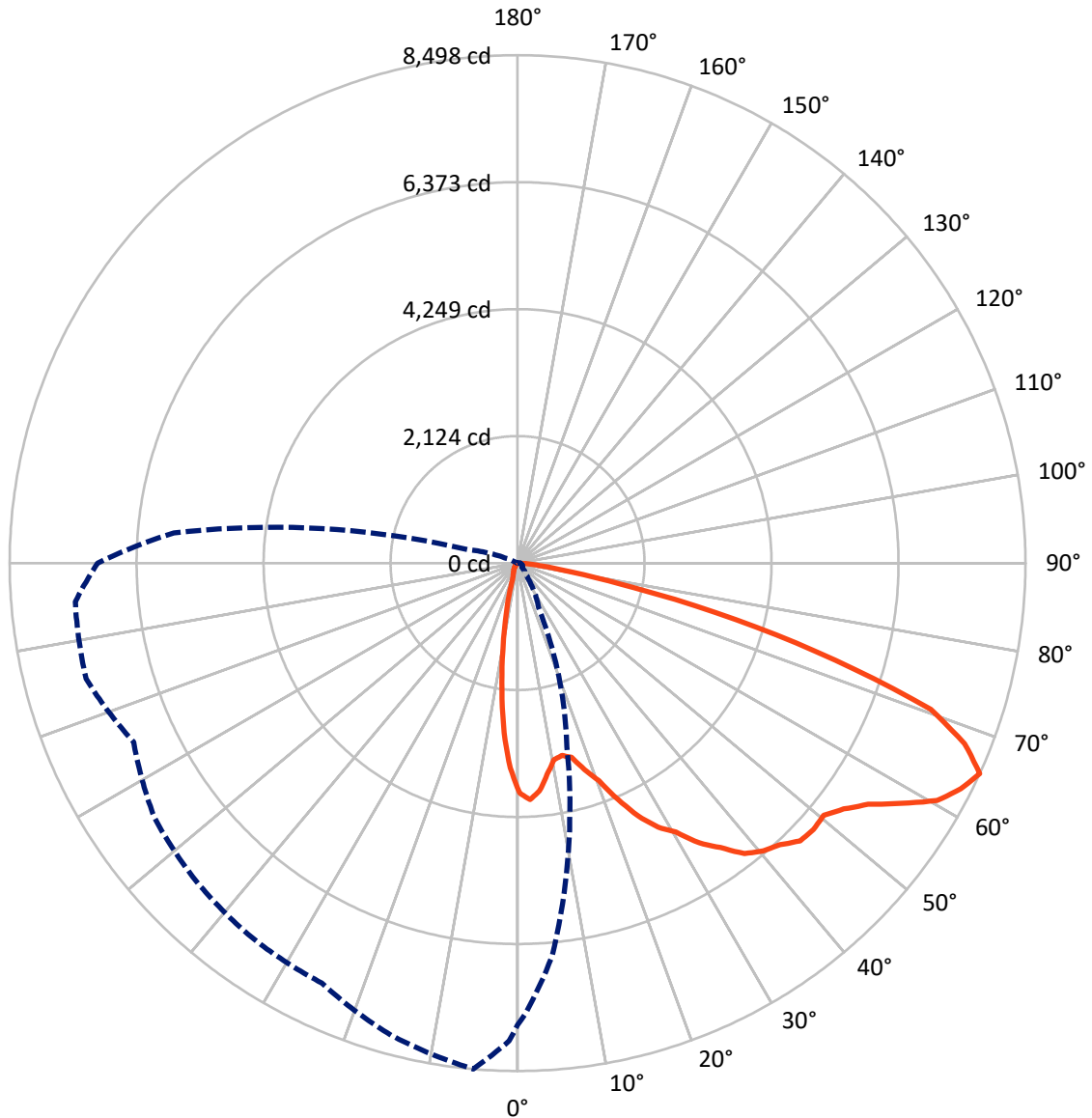
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 17.1 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	1305.0	0.0	1305.0
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	8745.9	0.0	8745.9
	% Fixture	87.0	0.0	87.0
Total	Lumens	10050.9	0.0	10050.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.1	2.9
10°-20°	563.6	5.6
20°-30°	785.0	7.8
30°-40°	1115.4	11.1
40°-50°	1546.7	15.4
50°-60°	2107.5	21.0
60°-70°	2317.0	23.1
70°-80°	1138.8	11.3
80°-90°	186.0	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°	10050.9	100.0
0°-180°	10050.9	100.0



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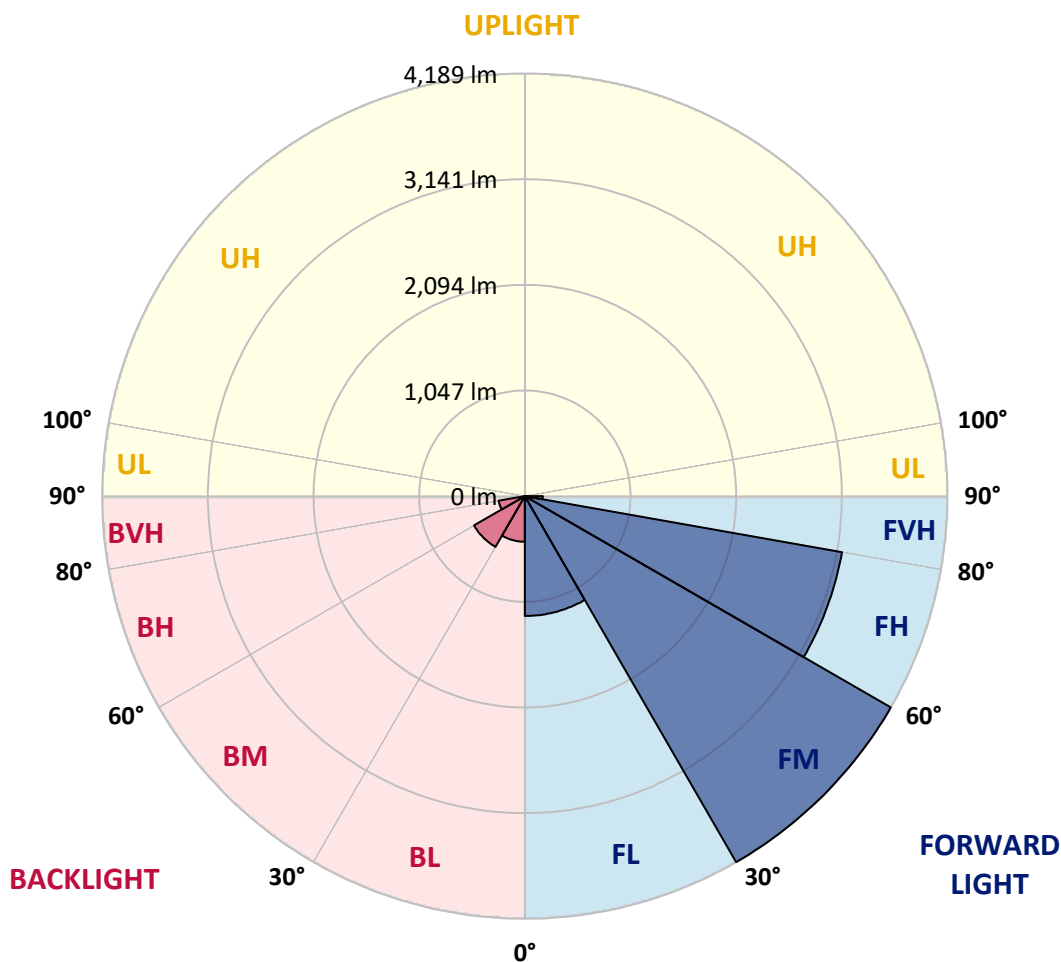
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1187.8	11.8			
FM (30°-60°)	4188.5	41.7			
FH (60°-80°)	3192.0	31.8			G2/5000
FVH (80°-90°)	177.6	1.8			G2/225
BL (0°-30°)	451.9	4.5	B1/500		
BM (30°-60°)	581.0	5.8	B1/1000		
BH (60°-80°)	263.7	2.6	B1/500		G1/500
BVH (80°-90°)	8.4	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°	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5
2.5°	3921.0	3967.1	3923.7	3772.0	3744.9	3671.7	3560.6	3552.5	3436.0	3449.5	3387.2
5°	3685.3	3731.4	3639.2	3438.7	3251.7	3102.7	3013.3	2853.4	2818.2	2739.6	2739.6
7.5°	3444.1	3441.4	3284.2	3116.2	2837.1	2563.4	2438.8	2208.5	2073.0	1999.8	1929.4
10°	3243.6	3200.2	3102.7	2755.8	2452.3	2167.8	2013.4	1861.6	1720.7	1598.8	1476.8
12.5°	3102.7	3129.8	2975.3	2598.7	2205.8	2007.9	1842.6	1682.8	1514.8	1376.6	1241.1
15°	3175.9	3132.5	2950.9	2563.4	2165.1	1894.1	1674.6	1479.5	1292.6	1111.0	1008.0
17.5°	3403.5	3292.4	3078.3	2563.4	2081.1	1720.7	1455.1	1224.8	1024.3	861.7	734.3
20°	3709.7	3582.3	3352.0	2658.3	2018.8	1593.3	1230.2	940.3	731.6	579.9	482.3
22.5°	4024.0	3923.7	3576.9	2696.2	1945.6	1422.6	970.1	680.2	487.8	390.2	341.4
25°	4400.7	4259.8	3880.4	2848.0	1837.2	1257.3	764.2	474.2	363.1	311.6	281.8
27.5°	4701.5	4677.1	4164.9	2940.1	1755.9	1121.8	604.3	376.7	300.8	262.8	243.9
30°	5080.8	4948.0	4511.8	3124.4	1663.8	967.4	504.0	338.7	276.4	235.8	222.2
32.5°	5308.4	5246.1	4693.3	3227.3	1560.8	840.0	433.6	298.1	252.0	222.2	208.7
35°	5639.0	5514.4	4953.5	3292.4	1506.6	766.9	390.2	271.0	211.4	181.6	165.3
37.5°	6007.6	5961.5	5265.1	3289.7	1428.0	723.5	360.4	252.0	200.5	168.0	149.0
40°	6384.2	6197.2	5454.8	3365.5	1387.4	691.0	338.7	241.2	189.7	159.9	135.5
42.5°	6666.0	6452.0	5674.3	3338.4	1338.6	634.1	330.6	224.9	181.6	146.3	124.6
45°	6741.9	6666.0	5872.1	3330.3	1303.4	588.0	317.0	222.2	176.1	138.2	116.5
47.5°	6888.2	6836.8	6116.0	3343.9	1276.3	552.8	284.5	227.6	168.0	130.1	111.1
50°	6953.3	6861.1	6313.8	3376.4	1214.0	509.4	254.7	238.5	165.3	127.4	105.7
52.5°	7221.5	7140.2	6584.7	3468.5	1162.5	452.5	224.9	227.6	170.7	119.2	100.3
55°	7484.4	7392.3	7002.0	3679.9	1089.3	406.5	192.4	200.5	162.6	108.4	89.4
57.5°	7844.8	7693.0	7281.2	3766.6	1024.3	344.1	170.7	165.3	151.7	97.6	78.6
60°	7899.0	7961.3	7240.5	3712.4	956.5	303.5	149.0	127.4	162.6	86.7	67.7
62.5°	8080.5	7820.4	7050.8	3587.7	907.8	279.1	132.8	105.7	140.9	75.9	56.9
65°	7731.0	7538.6	6606.4	3186.7	845.4	281.8	116.5	86.7	89.4	62.3	46.1
67.5°	7218.8	7067.1	5869.4	2750.4	783.1	276.4	103.0	75.9	67.7	54.2	40.6
70°	6335.4	6007.6	4986.0	2232.9	691.0	257.4	86.7	67.7	56.9	43.4	29.8
72.5°	4609.3	4476.5	3576.9	1726.1	620.5	233.0	81.3	56.9	48.8	32.5	24.4
75°	3102.7	2883.2	2257.2	1132.7	498.6	203.2	67.7	51.5	37.9	24.4	19.0
77.5°	1639.4	1550.0	1279.0	539.2	276.4	94.8	37.9	29.8	21.7	19.0	10.8
80°	710.0	631.4	552.8	219.5	97.6	43.4	24.4	16.3	13.5	10.8	5.4
82.5°	363.1	346.9	287.2	94.8	56.9	32.5	13.5	10.8	8.1	5.4	2.7
85°	178.8	184.3	151.7	29.8	32.5	19.0	2.7	2.7	0.0	0.0	0.0
87.5°	13.5	13.5	10.8	5.4	8.1	2.7	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°	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5
2.5°	3362.8	3400.8	3335.7	3376.4	3357.4	3365.5	3373.7	3352.0	3357.4	3433.3	3436.0
5°	2693.5	2766.7	2739.6	2777.5	2842.5	2810.0	2839.8	2834.4	2839.8	2850.7	2899.5
7.5°	1921.2	1899.5	1951.0	2051.3	2167.8	2238.3	2203.0	2184.1	2173.2	2146.1	2178.7
10°	1449.7	1438.9	1425.3	1455.1	1531.0	1609.6	1653.0	1579.8	1539.1	1487.7	1468.7
12.5°	1203.1	1135.4	1097.5	1051.4	1073.1	1143.5	1146.2	1075.8	1010.7	983.6	1013.5
15°	948.4	902.4	834.6	769.6	737.1	791.3	745.2	677.4	593.4	582.6	579.9
17.5°	677.4	650.3	601.6	574.5	536.5	523.0	474.2	371.2	311.6	295.4	300.8
20°	460.7	439.0	436.3	411.9	395.6	384.8	306.2	238.5	219.5	222.2	224.9
22.5°	341.4	330.6	317.0	314.3	300.8	287.2	224.9	200.5	187.0	187.0	195.1
25°	279.1	273.7	260.1	254.7	249.3	230.3	189.7	170.7	165.3	159.9	168.0
27.5°	238.5	235.8	227.6	219.5	214.1	195.1	165.3	149.0	143.6	143.6	143.6
30°	214.1	214.1	203.2	187.0	187.0	165.3	140.9	130.1	124.6	124.6	121.9
32.5°	200.5	195.1	181.6	170.7	162.6	140.9	124.6	113.8	105.7	105.7	108.4
35°	162.6	162.6	159.9	151.7	140.9	119.2	105.7	94.8	89.4	86.7	89.4
37.5°	143.6	135.5	124.6	127.4	121.9	103.0	89.4	81.3	73.2	73.2	73.2
40°	130.1	121.9	111.1	103.0	100.3	92.1	78.6	65.0	56.9	54.2	54.2
42.5°	116.5	111.1	94.8	81.3	78.6	78.6	59.6	48.8	40.6	40.6	40.6
45°	108.4	100.3	86.7	70.5	56.9	59.6	48.8	35.2	29.8	27.1	27.1
47.5°	103.0	94.8	75.9	59.6	43.4	43.4	35.2	24.4	19.0	16.3	16.3
50°	94.8	86.7	67.7	48.8	32.5	27.1	21.7	13.5	8.1	5.4	5.4
52.5°	89.4	81.3	59.6	40.6	27.1	19.0	13.5	2.7	0.0	0.0	0.0
55°	81.3	70.5	51.5	32.5	21.7	10.8	2.7	0.0	0.0	0.0	0.0
57.5°	70.5	62.3	40.6	24.4	13.5	2.7	0.0	0.0	0.0	0.0	0.0
60°	59.6	51.5	32.5	19.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	48.8	43.4	24.4	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	40.6	32.5	19.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	35.2	27.1	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	27.1	19.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	19.0	13.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.5	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.7	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°	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5
2.5°	3446.8	3528.1	3604.0	3625.7	3685.3	3850.6	3850.6	3929.2	4070.1	4121.6	4132.4
5°	2907.6	2994.3	3010.6	3178.6	3257.1	3425.2	3536.3	3801.8	3961.7	4061.9	4124.3
7.5°	2211.2	2241.0	2303.3	2460.5	2614.9	2818.2	3029.5	3368.2	3650.1	3763.9	3975.2
10°	1520.2	1609.6	1745.1	1886.0	2127.2	2352.1	2625.8	2945.5	3292.4	3433.3	3614.8
12.5°	1024.3	1148.9	1365.7	1566.2	1788.4	2016.1	2276.2	2704.4	3097.3	3292.4	3473.9
15°	598.9	750.6	937.6	1262.8	1558.1	1812.8	2073.0	2506.5	2983.5	3235.5	3457.7
17.5°	303.5	349.6	504.0	785.8	1176.0	1593.3	1980.8	2533.6	3070.2	3379.1	3563.3
20°	227.6	241.2	284.5	417.3	804.8	1316.9	1894.1	2574.3	3311.3	3688.0	3788.3
22.5°	197.8	208.7	227.6	271.0	452.5	1008.0	1772.2	2674.5	3639.2	3994.2	4205.6
25°	168.0	178.8	195.1	222.2	289.9	685.6	1623.2	2780.2	3931.9	4379.0	4576.8
27.5°	146.3	154.5	170.7	192.4	235.8	436.3	1365.7	2921.1	4379.0	4845.1	4896.6
30°	124.6	132.8	146.3	170.7	200.5	308.9	1002.6	2940.1	4625.6	5048.3	5191.9
32.5°	108.4	111.1	127.4	149.0	168.0	243.9	704.5	2959.1	4807.1	5311.2	5341.0
35°	89.4	94.8	111.1	124.6	146.3	192.4	533.8	2864.2	5042.9	5582.1	5574.0
37.5°	73.2	81.3	92.1	103.0	119.2	162.6	425.4	2688.1	5338.2	6002.1	5747.4
40°	56.9	65.0	75.9	89.4	100.3	146.3	319.8	2422.5	5647.2	6208.1	5937.1
42.5°	40.6	46.1	56.9	70.5	89.4	121.9	230.3	2108.2	5769.1	6449.3	6164.7
45°	29.8	35.2	43.4	59.6	92.1	97.6	159.9	1821.0	5899.2	6554.9	6113.2
47.5°	16.3	21.7	32.5	51.5	81.3	73.2	113.8	1563.5	6048.2	6649.8	6153.9
50°	5.4	8.1	19.0	54.2	65.0	56.9	89.4	1425.3	6194.5	6668.7	6235.2
52.5°	0.0	0.0	10.8	56.9	48.8	43.4	78.6	1371.1	6156.6	6728.4	6183.7
55°	0.0	0.0	2.7	24.4	27.1	32.5	65.0	1368.4	6424.9	6747.3	6465.5
57.5°	0.0	0.0	0.0	8.1	16.3	27.1	56.9	1281.7	6595.6	7218.8	6844.9
60°	0.0	0.0	0.0	2.7	10.8	19.0	43.4	1205.8	6769.0	7430.2	7251.3
62.5°	0.0	0.0	0.0	0.0	2.7	8.1	29.8	1089.3	6419.4	7413.9	7644.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	19.0	861.7	5774.5	7026.4	7427.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.8	596.1	5056.4	6538.7	7029.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	360.4	4080.9	5733.9	5961.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	154.5	2913.0	4552.4	4891.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.3	1802.0	3327.6	3744.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.4	1167.9	2520.1	2842.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	623.2	1579.8	1837.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	271.0	959.3	1105.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.7	582.6	663.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.4	119.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5
2.5°	4137.8	4216.4	4246.2	4200.1	4205.6	4110.7	4097.2	3964.4	3910.2	3921.0
5°	4327.5	4441.3	4503.6	4452.2	4335.6	4154.1	3988.8	3831.6	3734.1	3685.3
7.5°	4284.1	4411.5	4490.1	4538.9	4406.1	4113.4	3861.4	3566.1	3441.4	3444.1
10°	4045.7	4311.2	4471.1	4408.8	4346.5	4053.8	3663.6	3343.9	3232.8	3243.6
12.5°	3853.3	4148.7	4243.5	4292.3	4164.9	3931.9	3669.0	3303.2	3178.6	3102.7
15°	3734.1	3953.6	3959.0	4034.8	3983.4	3983.4	3725.9	3368.2	3259.9	3175.9
17.5°	3734.1	3782.8	3777.4	3804.5	3891.2	3994.2	3869.6	3631.1	3417.0	3403.5
20°	3818.1	3666.3	3631.1	3641.9	3715.1	4021.3	4186.6	3888.5	3753.0	3709.7
22.5°	4013.2	3679.9	3465.8	3427.9	3652.8	4018.6	4389.8	4295.0	4059.2	4024.0
25°	4281.4	3655.5	3422.4	3373.7	3544.4	4116.1	4668.9	4687.9	4473.8	4400.7
27.5°	4536.2	3763.9	3417.0	3406.2	3631.1	4094.5	4861.3	5002.2	4761.1	4701.5
30°	4622.9	3872.3	3517.3	3373.7	3663.6	4173.0	4855.9	5224.4	5067.3	5080.8
32.5°	4725.8	3980.7	3528.1	3471.2	3801.8	4300.4	5010.4	5582.1	5468.3	5308.4
35°	4877.6	4127.0	3631.1	3579.6	3899.4	4414.2	5042.9	5845.0	5826.0	5639.0
37.5°	5007.7	4270.6	3845.2	3853.3	4197.4	4598.5	5186.5	6167.4	6134.9	6007.6
40°	5099.8	4471.1	4178.5	4200.1	4457.6	4804.4	5441.2	6330.0	6571.2	6384.2
42.5°	5113.3	4650.0	4560.5	4734.0	4975.1	5124.2	5544.2	6441.1	6788.0	6666.0
45°	5164.8	4934.5	5183.8	5311.2	5509.0	5406.0	5538.8	6630.8	6804.2	6741.9
47.5°	5365.3	5452.1	5766.4	6153.9	6224.3	5885.6	5668.8	6660.6	6896.4	6888.2
50°	5574.0	6007.6	6449.3	6706.7	6796.1	6216.2	5790.8	6636.2	7018.3	6953.3
52.5°	5807.0	6489.9	7126.7	7443.7	7395.0	6582.0	5929.0	6834.0	7243.2	7221.5
55°	5953.4	6706.7	7563.0	8004.7	7966.7	6991.2	6368.0	7118.6	7538.6	7484.4
57.5°	6340.9	7059.0	7996.5	8202.5	8302.7	7527.7	6674.2	7584.6	7785.2	7844.8
60°	6660.6	7289.3	8110.3	8408.4	8443.6	7847.5	7210.7	8064.3	8099.5	7899.0
62.5°	7129.4	7378.7	7869.2	8137.4	8319.0	8029.1	7693.0	8321.7	8094.1	8080.5
65°	7473.5	7086.1	7419.4	7568.4	7684.9	7752.7	8178.1	8497.8	7993.8	7731.0
67.5°	7281.2	6533.3	6470.9	6479.1	6514.3	6923.5	8015.5	8067.0	7435.6	7218.8
70°	6408.6	5359.9	5275.9	5341.0	5164.8	5658.0	7357.0	7332.6	6560.4	6335.4
72.5°	5183.8	3907.5	3763.9	3853.3	3893.9	4416.9	6189.1	5560.4	4785.5	4609.3
75°	4118.9	2864.2	2417.1	2633.9	2772.1	3216.5	4834.2	3777.4	3341.1	3102.7
77.5°	3235.5	2167.8	1880.6	1793.9	1921.2	2338.5	3517.3	1983.6	1750.5	1639.4
80°	2051.3	1593.3	1728.8	1604.2	1658.4	1669.2	1831.8	902.4	718.1	710.0
82.5°	1235.7	1089.3	1295.3	712.7	1298.0	1159.8	761.4	409.2	363.1	363.1
85°	875.3	674.7	447.1	289.9	577.2	636.8	295.4	211.4	184.3	178.8
87.5°	439.0	208.7	100.3	65.0	73.2	119.2	35.2	16.3	16.3	13.5
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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