

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: P677435

Luminaire Tested: **CCW-SA-2D-740-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677435
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-740-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

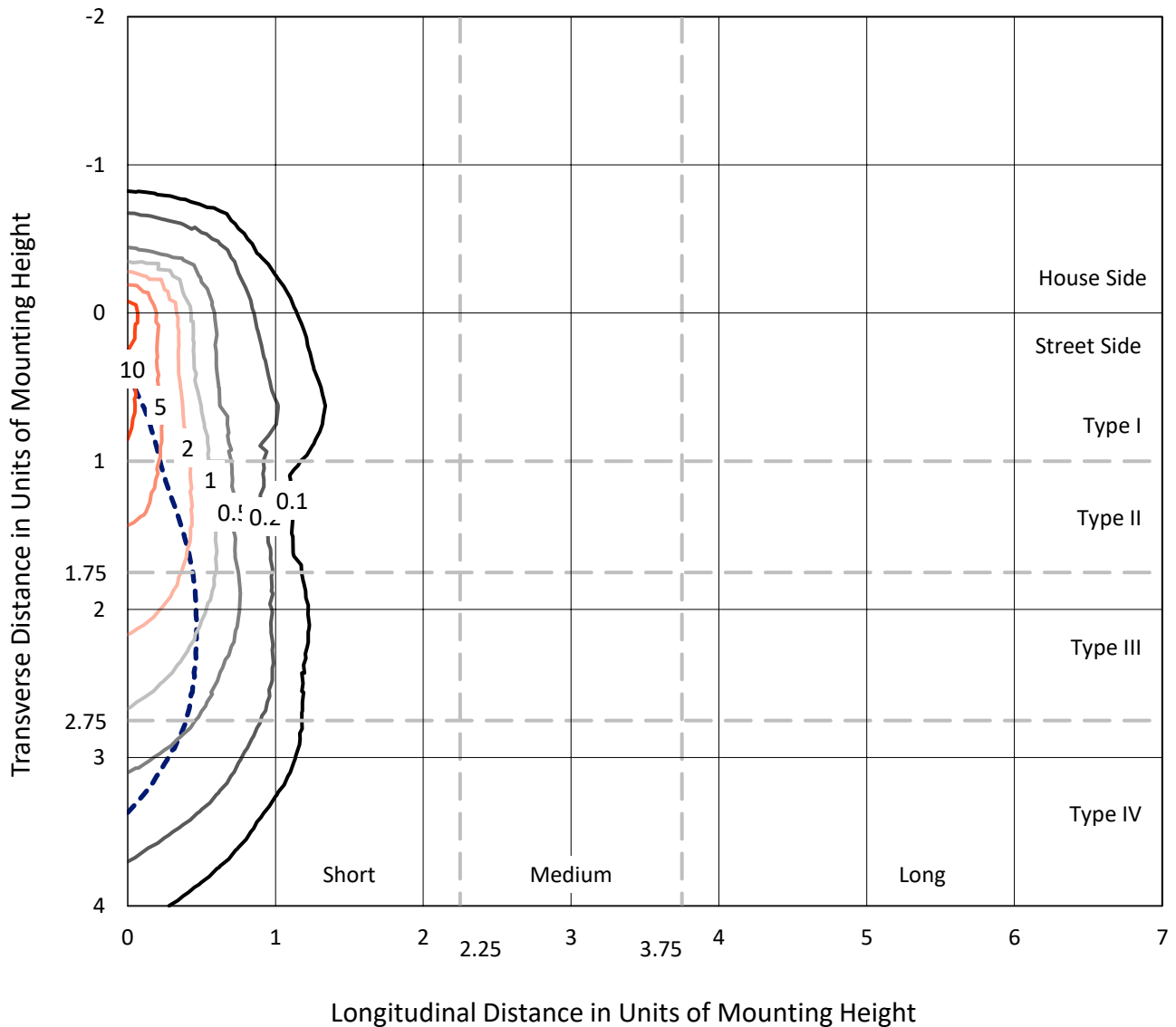
Lumens per Lamp: N/A
Luminaire Lumens: 8014.7 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

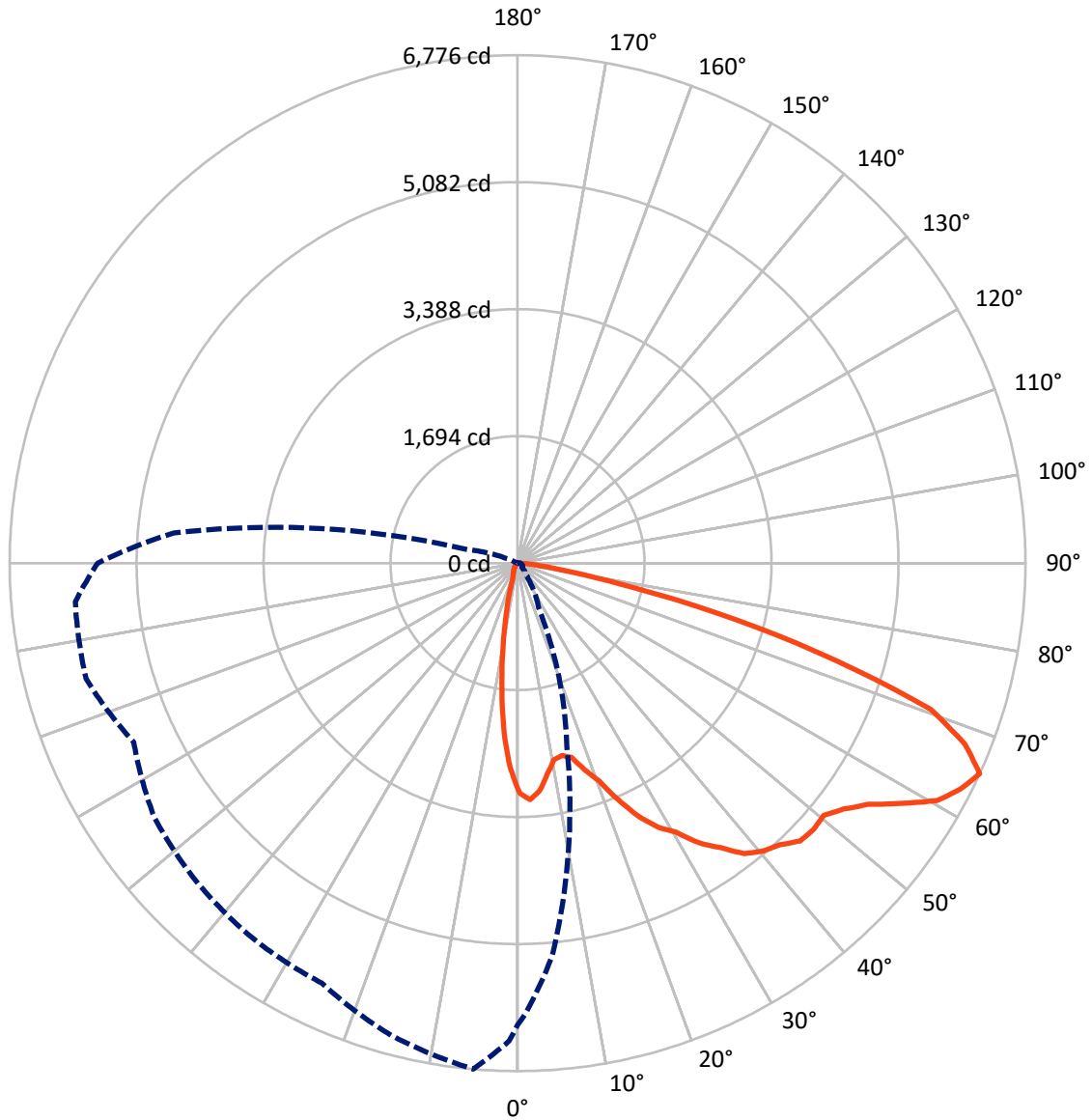
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.6 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	1040.6	0.0	1040.6
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	6974.1	0.0	6974.1
	% Fixture	87.0	0.0	87.0
Total	Lumens	8014.7	0.0	8014.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.1	2.9
10°-20°	449.4	5.6
20°-30°	626.0	7.8
30°-40°	889.4	11.1
40°-50°	1233.4	15.4
50°-60°	1680.5	21.0
60°-70°	1847.6	23.1
70°-80°	908.1	11.3
80°-90°	148.3	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°	8014.7	100.0
0°-180°	8014.7	100.0



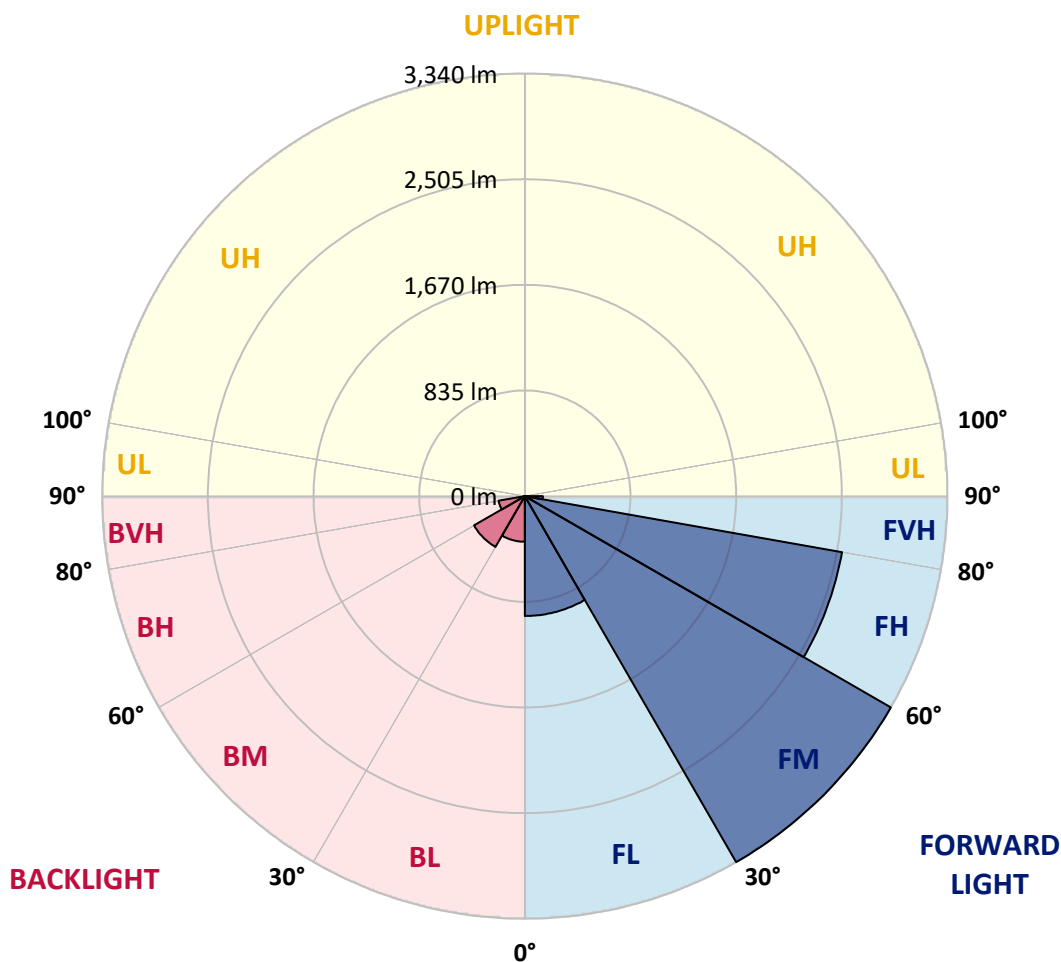
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	947.2	11.8			
FM (30°-60°)	3340.0	41.7			
FH (60°-80°)	2545.4	31.8			G2/5000
FVH (80°-90°)	141.6	1.8			G2/225
BL (0°-30°)	360.3	4.5	B1/500		
BM (30°-60°)	463.3	5.8	B1/1000		
BH (60°-80°)	210.3	2.6	B1/500		G1/500
BVH (80°-90°)	6.7	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°	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0
2.5°	3126.7	3163.4	3128.9	3007.8	2986.2	2927.9	2839.3	2832.8	2739.9	2750.7	2701.0
5°	2938.7	2975.4	2902.0	2742.1	2593.0	2474.1	2402.8	2275.3	2247.2	2184.6	2184.6
7.5°	2746.4	2744.2	2618.9	2484.9	2262.4	2044.1	1944.7	1761.1	1653.0	1594.7	1538.5
10°	2586.5	2551.9	2474.1	2197.5	1955.5	1728.6	1605.5	1484.5	1372.1	1274.9	1177.6
12.5°	2474.1	2495.7	2372.6	2072.2	1758.9	1601.2	1469.4	1341.9	1207.9	1097.7	989.7
15°	2532.5	2497.9	2353.1	2044.1	1726.5	1510.4	1335.4	1179.8	1030.7	885.9	803.8
17.5°	2714.0	2625.4	2454.7	2044.1	1659.5	1372.1	1160.4	976.7	816.8	687.1	585.6
20°	2958.2	2856.6	2672.9	2119.8	1609.8	1270.6	981.0	749.8	583.4	462.4	384.6
22.5°	3208.8	3128.9	2852.3	2150.0	1551.5	1134.4	773.6	542.4	388.9	311.2	272.3
25°	3509.2	3396.8	3094.3	2271.0	1465.0	1002.6	609.3	378.1	289.5	248.5	224.7
27.5°	3749.0	3729.6	3321.2	2344.5	1400.2	894.6	481.9	300.4	239.9	209.6	194.5
30°	4051.5	3945.6	3597.8	2491.4	1326.7	771.4	401.9	270.1	220.4	188.0	177.2
32.5°	4233.0	4183.3	3742.5	2573.5	1244.6	669.9	345.7	237.7	201.0	177.2	166.4
35°	4496.6	4397.3	3950.0	2625.4	1201.4	611.5	311.2	216.1	168.5	144.8	131.8
37.5°	4790.5	4753.8	4198.5	2623.2	1138.7	576.9	287.4	201.0	159.9	134.0	118.8
40°	5090.9	4941.8	4349.7	2683.7	1106.3	551.0	270.1	192.3	151.3	127.5	108.0
42.5°	5315.6	5144.9	4524.7	2662.1	1067.4	505.6	263.6	179.3	144.8	116.7	99.4
45°	5376.1	5315.6	4682.5	2655.6	1039.4	468.9	252.8	177.2	140.5	110.2	92.9
47.5°	5492.8	5451.7	4877.0	2666.4	1017.7	440.8	226.9	181.5	134.0	103.7	88.6
50°	5544.6	5471.2	5034.7	2692.4	968.0	406.2	203.1	190.2	131.8	101.6	84.3
52.5°	5758.6	5693.7	5250.8	2765.8	927.0	360.9	179.3	181.5	136.1	95.1	80.0
55°	5968.2	5894.7	5583.5	2934.4	868.6	324.1	153.4	159.9	129.6	86.4	71.3
57.5°	6255.5	6134.5	5806.1	3003.5	816.8	274.4	136.1	131.8	121.0	77.8	62.7
60°	6298.8	6348.5	5773.7	2960.3	762.8	242.0	118.8	101.6	129.6	69.1	54.0
62.5°	6443.5	6236.1	5622.4	2860.9	723.9	222.6	105.9	84.3	112.4	60.5	45.4
65°	6164.8	6011.4	5268.1	2541.1	674.2	224.7	92.9	69.1	71.3	49.7	36.7
67.5°	5756.4	5635.4	4680.3	2193.2	624.5	220.4	82.1	60.5	54.0	43.2	32.4
70°	5052.0	4790.5	3975.9	1780.5	551.0	205.3	69.1	54.0	45.4	34.6	23.8
72.5°	3675.5	3569.7	2852.3	1376.4	494.8	185.8	64.8	45.4	38.9	25.9	19.4
75°	2474.1	2299.1	1800.0	903.2	397.6	162.1	54.0	41.1	30.3	19.4	15.1
77.5°	1307.3	1236.0	1019.9	430.0	220.4	75.6	30.3	23.8	17.3	15.1	8.6
80°	566.1	503.5	440.8	175.0	77.8	34.6	19.4	13.0	10.8	8.6	4.3
82.5°	289.5	276.6	229.0	75.6	45.4	25.9	10.8	8.6	6.5	4.3	2.2
85°	142.6	146.9	121.0	23.8	25.9	15.1	2.2	2.2	0.0	0.0	0.0
87.5°	10.8	10.8	8.6	4.3	6.5	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°	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0
2.5°	2681.6	2711.8	2660.0	2692.4	2677.2	2683.7	2690.2	2672.9	2677.2	2737.7	2739.9
5°	2147.8	2206.2	2184.6	2214.8	2266.7	2240.8	2264.5	2260.2	2264.5	2273.2	2312.1
7.5°	1532.0	1514.7	1555.8	1635.7	1728.6	1784.8	1756.7	1741.6	1733.0	1711.4	1737.3
10°	1156.0	1147.4	1136.6	1160.4	1220.9	1283.5	1318.1	1259.8	1227.3	1186.3	1171.2
12.5°	959.4	905.4	875.1	838.4	855.7	911.9	914.0	857.8	806.0	784.4	808.1
15°	756.3	719.6	665.5	613.7	587.7	631.0	594.2	540.2	473.2	464.6	462.4
17.5°	540.2	518.6	479.7	458.1	427.8	417.0	378.1	296.0	248.5	235.5	239.9
20°	367.3	350.1	347.9	328.4	315.5	306.8	244.2	190.2	175.0	177.2	179.3
22.5°	272.3	263.6	252.8	250.7	239.9	229.0	179.3	159.9	149.1	149.1	155.6
25°	222.6	218.2	207.4	203.1	198.8	183.7	151.3	136.1	131.8	127.5	134.0
27.5°	190.2	188.0	181.5	175.0	170.7	155.6	131.8	118.8	114.5	114.5	114.5
30°	170.7	170.7	162.1	149.1	149.1	131.8	112.4	103.7	99.4	99.4	97.2
32.5°	159.9	155.6	144.8	136.1	129.6	112.4	99.4	90.8	84.3	84.3	86.4
35°	129.6	129.6	127.5	121.0	112.4	95.1	84.3	75.6	71.3	69.1	71.3
37.5°	114.5	108.0	99.4	101.6	97.2	82.1	71.3	64.8	58.3	58.3	58.3
40°	103.7	97.2	88.6	82.1	80.0	73.5	62.7	51.9	45.4	43.2	43.2
42.5°	92.9	88.6	75.6	64.8	62.7	62.7	47.5	38.9	32.4	32.4	32.4
45°	86.4	80.0	69.1	56.2	45.4	47.5	38.9	28.1	23.8	21.6	21.6
47.5°	82.1	75.6	60.5	47.5	34.6	34.6	28.1	19.4	15.1	13.0	13.0
50°	75.6	69.1	54.0	38.9	25.9	21.6	17.3	10.8	6.5	4.3	4.3
52.5°	71.3	64.8	47.5	32.4	21.6	15.1	10.8	2.2	0.0	0.0	0.0
55°	64.8	56.2	41.1	25.9	17.3	8.6	2.2	0.0	0.0	0.0	0.0
57.5°	56.2	49.7	32.4	19.4	10.8	2.2	0.0	0.0	0.0	0.0	0.0
60°	47.5	41.1	25.9	15.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	38.9	34.6	19.4	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	32.4	25.9	15.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	28.1	21.6	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	21.6	15.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15.1	10.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.8	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.5	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°	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0
2.5°	2748.6	2813.4	2873.9	2891.2	2938.7	3070.5	3070.5	3133.2	3245.5	3286.6	3295.2
5°	2318.6	2387.7	2400.7	2534.6	2597.3	2731.3	2819.9	3031.6	3159.1	3239.1	3288.8
7.5°	1763.2	1787.0	1836.7	1962.0	2085.2	2247.2	2415.8	2685.9	2910.6	3001.4	3169.9
10°	1212.2	1283.5	1391.6	1503.9	1696.2	1875.6	2093.8	2348.8	2625.4	2737.7	2882.5
12.5°	816.8	916.2	1089.0	1248.9	1426.1	1607.6	1815.1	2156.5	2469.8	2625.4	2770.2
15°	477.5	598.5	747.6	1006.9	1242.5	1445.6	1653.0	1998.8	2379.1	2580.0	2757.2
17.5°	242.0	278.7	401.9	626.6	937.8	1270.6	1579.6	2020.4	2448.2	2694.5	2841.5
20°	181.5	192.3	226.9	332.8	641.8	1050.2	1510.4	2052.8	2640.5	2940.9	3020.8
22.5°	157.7	166.4	181.5	216.1	360.9	803.8	1413.2	2132.7	2902.0	3185.0	3353.6
25°	134.0	142.6	155.6	177.2	231.2	546.7	1294.3	2217.0	3135.3	3491.9	3649.6
27.5°	116.7	123.2	136.1	153.4	188.0	347.9	1089.0	2329.4	3491.9	3863.5	3904.6
30°	99.4	105.9	116.7	136.1	159.9	246.3	799.5	2344.5	3688.5	4025.6	4140.1
32.5°	86.4	88.6	101.6	118.8	134.0	194.5	561.8	2359.6	3833.3	4235.2	4259.0
35°	71.3	75.6	88.6	99.4	116.7	153.4	425.7	2284.0	4021.3	4451.3	4444.8
37.5°	58.3	64.8	73.5	82.1	95.1	129.6	339.2	2143.5	4256.8	4786.2	4583.1
40°	45.4	51.9	60.5	71.3	80.0	116.7	255.0	1931.8	4503.1	4950.4	4734.3
42.5°	32.4	36.7	45.4	56.2	71.3	97.2	183.7	1681.1	4600.4	5142.7	4915.8
45°	23.8	28.1	34.6	47.5	73.5	77.8	127.5	1452.1	4704.1	5227.0	4874.8
47.5°	13.0	17.3	25.9	41.1	64.8	58.3	90.8	1246.8	4822.9	5302.6	4907.2
50°	4.3	6.5	15.1	43.2	51.9	45.4	71.3	1136.6	4939.6	5317.8	4972.0
52.5°	0.0	0.0	8.6	45.4	38.9	34.6	62.7	1093.4	4909.4	5365.3	4931.0
55°	0.0	0.0	2.2	19.4	21.6	25.9	51.9	1091.2	5123.3	5380.4	5155.7
57.5°	0.0	0.0	0.0	6.5	13.0	21.6	45.4	1022.1	5259.4	5756.4	5458.2
60°	0.0	0.0	0.0	2.2	8.6	15.1	34.6	961.6	5397.7	5924.9	5782.3
62.5°	0.0	0.0	0.0	0.0	2.2	6.5	23.8	868.6	5119.0	5912.0	6095.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	15.1	687.1	4604.7	5603.0	5922.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.6	475.4	4032.1	5214.0	5605.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	287.4	3254.2	4572.3	4753.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	123.2	2322.9	3630.2	3900.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.7	1436.9	2653.5	2986.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.4	931.3	2009.6	2266.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	497.0	1259.8	1465.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	216.1	764.9	881.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.1	464.6	529.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.3	95.1
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°	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0	3064.0
2.5°	3299.6	3362.2	3386.0	3349.3	3353.6	3278.0	3267.1	3161.3	3118.1	3126.7
5°	3450.8	3541.6	3591.3	3550.2	3457.3	3312.5	3180.7	3055.4	2977.6	2938.7
7.5°	3416.2	3517.8	3580.5	3619.4	3513.5	3280.1	3079.2	2843.6	2744.2	2746.4
10°	3226.1	3437.9	3565.3	3515.6	3465.9	3232.6	2921.4	2666.4	2577.8	2586.5
12.5°	3072.7	3308.2	3383.8	3422.7	3321.2	3135.3	2925.7	2634.0	2534.6	2474.1
15°	2977.6	3152.6	3156.9	3217.4	3176.4	3176.4	2971.1	2685.9	2599.5	2532.5
17.5°	2977.6	3016.5	3012.2	3033.8	3102.9	3185.0	3085.6	2895.5	2724.8	2714.0
20°	3044.6	2923.6	2895.5	2904.1	2962.5	3206.6	3338.5	3100.8	2992.7	2958.2
22.5°	3200.2	2934.4	2763.7	2733.4	2912.8	3204.5	3500.5	3424.9	3236.9	3208.8
25°	3414.1	2914.9	2729.1	2690.2	2826.3	3282.3	3723.1	3738.2	3567.5	3509.2
27.5°	3617.2	3001.4	2724.8	2716.1	2895.5	3265.0	3876.5	3988.9	3796.5	3749.0
30°	3686.3	3087.8	2804.7	2690.2	2921.4	3327.6	3872.2	4166.0	4040.7	4051.5
32.5°	3768.5	3174.2	2813.4	2768.0	3031.6	3429.2	3995.3	4451.3	4360.5	4233.0
35°	3889.5	3290.9	2895.5	2854.4	3109.4	3520.0	4021.3	4660.9	4645.7	4496.6
37.5°	3993.2	3405.4	3066.2	3072.7	3347.1	3666.9	4135.8	4918.0	4892.1	4790.5
40°	4066.6	3565.3	3332.0	3349.3	3554.5	3831.1	4338.9	5047.7	5240.0	5090.9
42.5°	4077.5	3708.0	3636.6	3774.9	3967.2	4086.1	4421.0	5136.2	5412.8	5315.6
45°	4118.5	3934.8	4133.6	4235.2	4392.9	4310.8	4416.7	5287.5	5425.8	5376.1
47.5°	4278.4	4347.6	4598.2	4907.2	4963.4	4693.3	4520.4	5311.3	5499.3	5492.8
50°	4444.8	4790.5	5142.7	5348.0	5419.3	4956.9	4617.7	5291.8	5596.5	5544.6
52.5°	4630.6	5175.1	5682.9	5935.7	5896.9	5248.6	4727.9	5449.6	5775.8	5758.6
55°	4747.3	5348.0	6030.8	6383.0	6352.8	5574.9	5077.9	5676.5	6011.4	5968.2
57.5°	5056.3	5628.9	6376.6	6540.8	6620.7	6002.7	5322.1	6048.1	6208.0	6255.5
60°	5311.3	5812.6	6467.3	6705.0	6733.1	6257.7	5749.9	6430.6	6458.7	6298.8
62.5°	5685.1	5883.9	6275.0	6488.9	6633.7	6402.5	6134.5	6635.9	6454.3	6443.5
65°	5959.5	5650.5	5916.3	6035.1	6128.1	6182.1	6521.3	6776.3	6374.4	6164.8
67.5°	5806.1	5209.7	5160.0	5166.5	5194.6	5520.9	6391.7	6432.7	5929.3	5756.4
70°	5110.3	4274.1	4207.1	4259.0	4118.5	4511.8	5866.6	5847.2	5231.3	5052.0
72.5°	4133.6	3115.9	3001.4	3072.7	3105.1	3522.1	4935.3	4434.0	3816.0	3675.5
75°	3284.4	2284.0	1927.4	2100.3	2210.5	2564.9	3854.9	3012.2	2664.3	2474.1
77.5°	2580.0	1728.6	1499.6	1430.5	1532.0	1864.8	2804.7	1581.7	1395.9	1307.3
80°	1635.7	1270.6	1378.6	1279.2	1322.4	1331.1	1460.7	719.6	572.6	566.1
82.5°	985.3	868.6	1032.9	568.3	1035.0	924.8	607.2	326.3	289.5	289.5
85°	697.9	538.0	356.5	231.2	460.3	507.8	235.5	168.5	146.9	142.6
87.5°	350.1	166.4	80.0	51.9	58.3	95.1	28.1	13.0	13.0	10.8
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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