

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: P677248

Luminaire Tested: **CCW-SA-2E-722-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677248
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-722-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

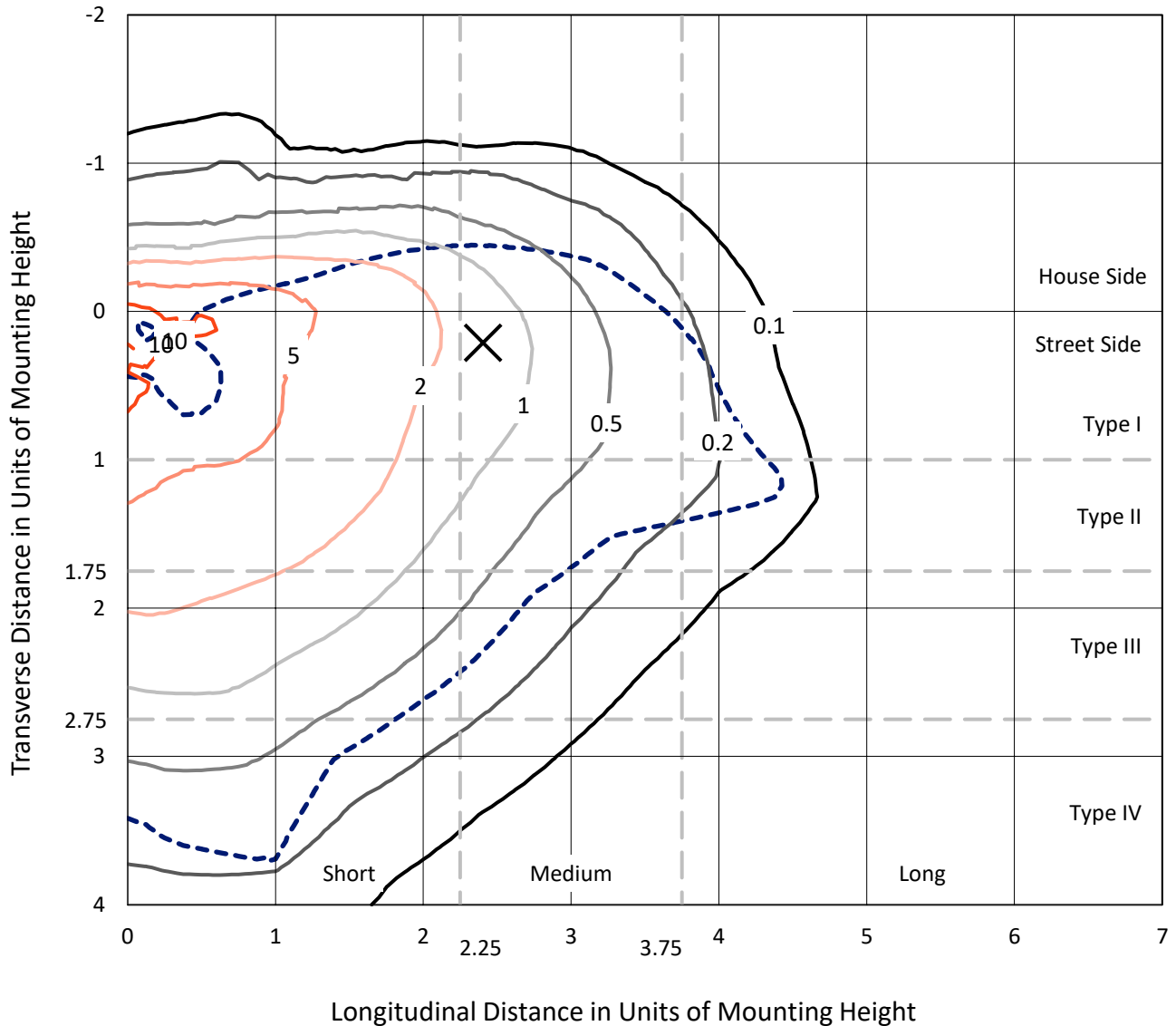
Lumens per Lamp: N/A
Luminaire Lumens: 7307.3 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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

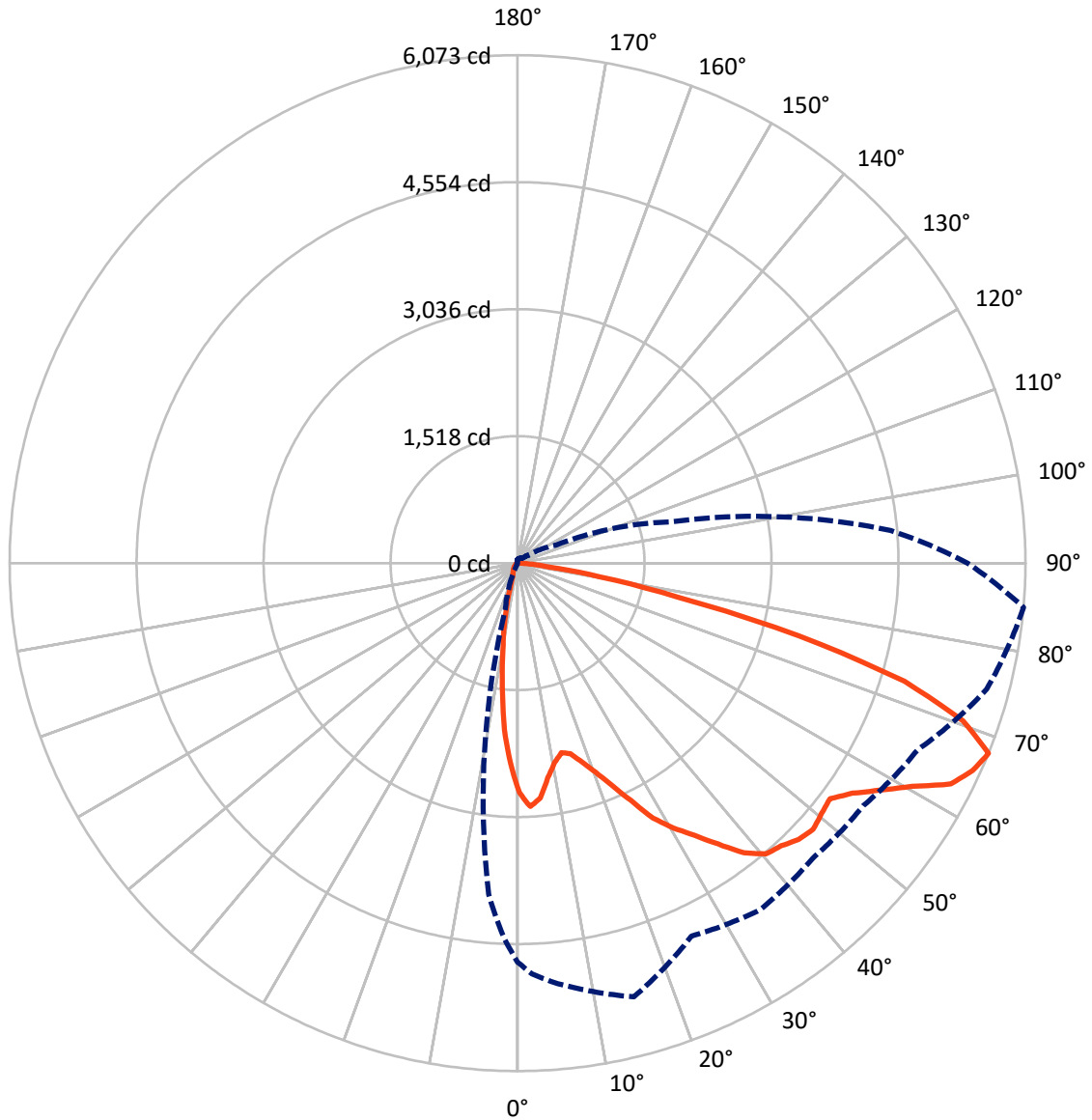
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.7 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	1268.8	0.0	1268.8
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	6038.5	0.0	6038.5
	% Fixture	82.6	0.0	82.6
Total	Lumens	7307.3	0.0	7307.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	2.9
10°-20°	409.3	5.6
20°-30°	566.4	7.8
30°-40°	800.5	11.0
40°-50°	1089.9	14.9
50°-60°	1443.5	19.8
60°-70°	1676.0	22.9
70°-80°	949.1	13.0
80°-90°	164.0	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°	7307.3	100.0
0°-180°	7307.3	100.0



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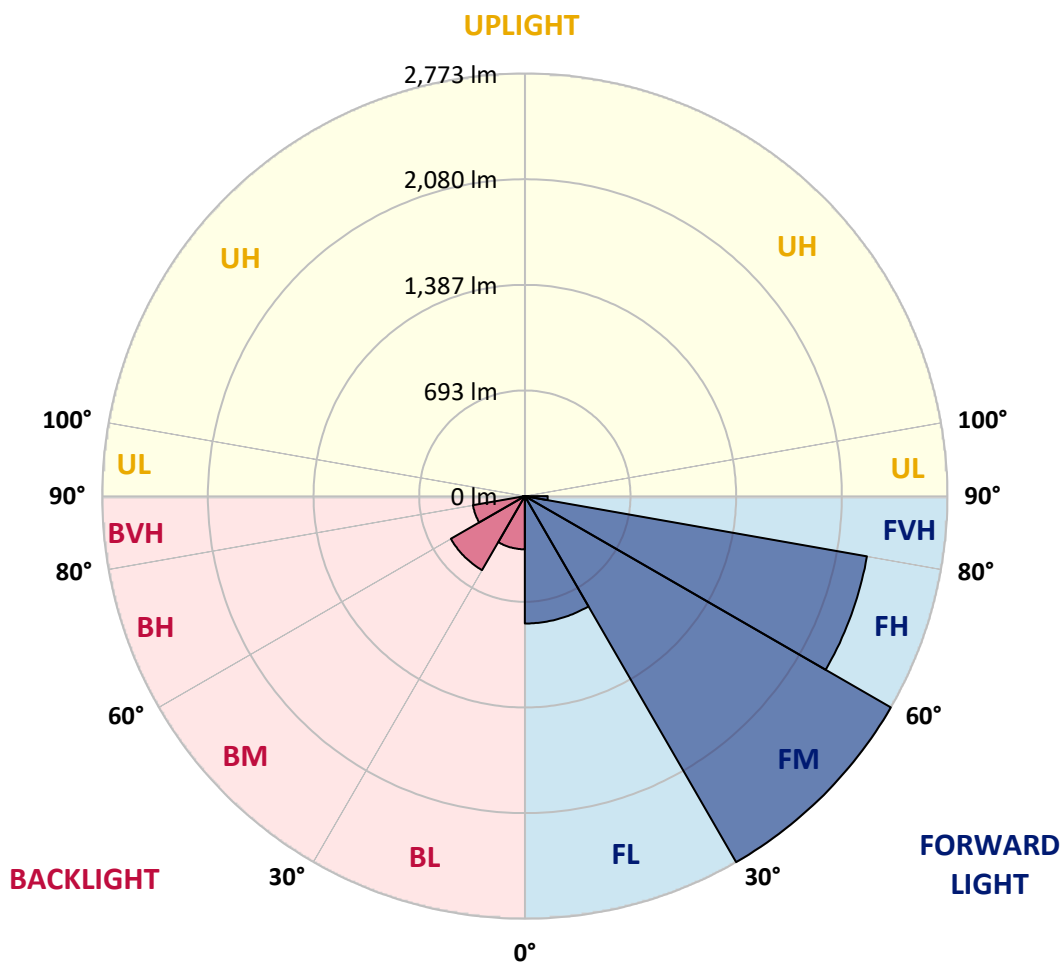
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.6	11.4			
FM (30°-60°)	2773.2	38.0			
FH (60°-80°)	2279.5	31.2			G2/5000
FVH (80°-90°)	150.2	2.1			G2/225
BL (0°-30°)	348.8	4.8	B1/500		
BM (30°-60°)	560.6	7.7	B1/1000		
BH (60°-80°)	345.5	4.7	B1/500		G1/500
BVH (80°-90°)	13.8	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°	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5
2.5°	2854.8	2915.3	2917.3	2944.6	2971.9	2971.9	3036.3	3020.7	2964.1	2954.3	2913.4
5°	2876.3	2897.8	2913.4	3051.9	3169.0	3157.3	3192.4	3169.0	3059.7	2919.2	2823.6
7.5°	2690.9	2714.3	2776.8	3012.9	3170.9	3223.6	3290.0	3143.6	3028.5	2774.8	2591.4
10°	2445.0	2489.9	2605.1	2874.3	3069.5	3237.3	3237.3	3120.2	2897.8	2649.9	2425.5
12.5°	2308.4	2398.2	2460.7	2733.8	2987.5	3102.7	3098.7	3036.3	2891.9	2579.7	2326.0
15°	2331.9	2357.2	2489.9	2702.6	2870.4	2864.6	2934.8	2915.3	2813.9	2642.1	2363.1
17.5°	2439.2	2478.2	2593.3	2702.6	2782.6	2759.2	2757.3	2850.9	2856.8	2747.5	2501.6
20°	2614.8	2729.9	2784.6	2817.8	2720.2	2620.7	2609.0	2739.7	2841.2	2882.1	2667.5
22.5°	2895.8	2971.9	3083.1	2913.4	2659.7	2534.8	2511.4	2655.8	2860.7	3042.2	2882.1
25°	3170.9	3229.5	3336.8	3118.3	2728.0	2517.2	2476.3	2601.2	2934.8	3264.6	3141.7
27.5°	3461.7	3512.4	3524.1	3268.5	2765.1	2482.1	2433.3	2601.2	2997.3	3381.7	3451.9
30°	3639.3	3699.8	3711.5	3401.2	2825.6	2511.4	2488.0	2612.9	3040.2	3481.2	3674.4
32.5°	3838.3	3853.9	3844.2	3424.6	2891.9	2597.3	2499.7	2690.9	3089.0	3600.2	3877.3
35°	4076.4	4103.7	4004.2	3531.9	3040.2	2651.9	2616.8	2786.5	3172.9	3654.9	4123.2
37.5°	4257.9	4343.7	4119.3	3572.9	3069.5	2767.0	2772.9	2985.6	3231.4	3721.2	4394.4
40°	4599.3	4454.9	4314.4	3713.4	3180.7	2962.2	2930.9	3190.5	3428.5	3764.2	4572.0
42.5°	4786.7	4710.6	4390.5	3727.1	3352.4	3231.4	3239.2	3422.7	3531.9	3885.1	4620.8
45°	4833.5	4753.5	4494.0	3736.8	3522.2	3549.5	3684.2	3719.3	3684.2	3965.1	4712.5
47.5°	4952.5	4778.9	4482.3	3867.6	3797.3	3902.7	4074.4	4150.5	3891.0	3935.9	4755.4
50°	4929.1	4829.6	4456.9	3922.2	4133.0	4412.0	4527.1	4495.9	4121.3	3875.4	4708.6
52.5°	4831.5	4724.2	4534.9	4070.5	4447.1	4784.7	4944.7	4866.7	4326.1	4012.0	4677.4
55°	4974.0	4892.0	4636.4	4271.5	4683.2	5112.5	5225.7	5167.2	4577.9	4138.8	4855.0
57.5°	5128.2	5110.6	4911.6	4507.6	4962.3	5450.1	5450.1	5377.9	4796.4	4322.2	5118.4
60°	5350.6	5389.6	5114.5	4663.7	5057.9	5430.6	5713.6	5629.7	5016.9	4644.2	5417.0
62.5°	5278.4	5403.3	5376.0	4999.4	5167.2	5526.2	5680.4	5742.8	5290.1	5036.4	5815.0
65°	5046.2	5178.9	5374.0	5219.9	5085.2	5294.0	5372.1	5561.4	5426.7	5405.2	5978.9
67.5°	4769.1	4913.5	5034.5	5368.2	4919.4	5057.9	4989.6	5050.1	5278.4	5809.2	6072.6
70°	4164.2	4302.7	4494.0	5038.4	4480.3	4355.4	4337.9	4308.6	4663.7	5664.8	5647.2
72.5°	3424.6	3489.0	3805.1	4095.9	3315.3	3291.9	3319.3	3286.1	3697.8	5128.2	4837.4
75°	2564.1	2628.5	2808.0	3145.6	2257.7	2123.1	2279.2	2433.3	2823.6	3980.8	3475.4
77.5°	1927.9	2009.9	2123.1	2353.3	1656.7	1446.0	1467.4	1613.8	2041.1	3188.5	1947.4
80°	1250.8	1241.1	1459.6	1619.6	1246.9	1285.9	1231.3	1338.6	1479.1	1705.5	995.2
82.5°	722.0	731.8	823.5	928.8	868.4	993.2	716.1	1196.2	1055.7	694.7	370.8
85°	405.9	423.4	507.4	643.9	544.4	364.9	298.6	593.2	663.5	284.9	179.5
87.5°	41.0	35.1	68.3	243.9	148.3	60.5	89.8	142.4	160.0	107.3	52.7
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°	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5
2.5°	2854.8	2854.8	2806.0	2724.1	2690.9	2632.4	2552.4	2577.7	2550.4	2450.9	2425.5
5°	2737.7	2644.1	2542.6	2417.7	2345.5	2197.2	2150.4	2066.5	2080.1	1996.2	2000.1
7.5°	2493.8	2419.7	2248.0	2084.0	1941.6	1812.8	1631.3	1563.0	1496.7	1463.5	1502.5
10°	2351.4	2212.8	1978.7	1764.0	1574.7	1459.6	1338.6	1245.0	1159.1	1094.7	1081.0
12.5°	2248.0	2125.0	1842.1	1580.6	1432.3	1338.6	1227.4	1098.6	1014.7	903.5	870.3
15°	2216.7	2066.5	1767.9	1508.4	1364.0	1209.8	1083.0	956.2	846.9	729.8	688.8
17.5°	2324.1	2150.4	1766.0	1449.9	1246.9	1081.0	905.4	763.0	651.8	544.4	519.1
20°	2505.5	2240.2	1822.6	1414.7	1135.7	913.2	714.2	571.7	446.9	376.6	359.0
22.5°	2712.4	2392.4	1828.4	1321.1	1024.5	745.4	521.0	376.6	306.4	273.2	263.4
25°	2966.1	2636.3	1898.7	1245.0	893.7	565.9	370.8	288.8	247.8	228.3	224.4
27.5°	3174.9	2806.0	1974.8	1165.0	764.9	419.5	290.8	236.1	214.6	195.1	193.2
30°	3391.5	3001.2	1996.2	1116.2	653.7	345.4	249.8	208.8	185.4	175.6	173.7
32.5°	3580.7	3213.9	2064.5	1036.2	548.3	304.4	226.4	187.3	171.7	156.1	154.2
35°	3824.7	3336.8	2097.7	993.2	509.3	275.1	206.8	171.7	148.3	138.5	134.6
37.5°	4086.1	3455.8	2119.2	960.1	476.1	257.6	195.1	162.0	140.5	126.8	122.9
40°	4330.1	3623.7	2087.9	919.1	450.8	236.1	187.3	150.3	130.7	117.1	111.2
42.5°	4517.4	3787.6	2078.2	880.1	423.4	228.3	177.6	144.4	122.9	107.3	105.4
45°	4622.8	3898.8	2009.9	848.8	402.0	232.2	173.7	136.6	117.1	103.4	95.6
47.5°	4597.4	3984.7	2027.5	839.1	372.7	216.6	171.7	130.7	107.3	95.6	89.8
50°	4737.9	4158.3	1998.2	807.9	351.2	195.1	187.3	130.7	105.4	91.7	85.9
52.5°	4761.3	4316.4	2060.6	751.3	318.1	179.5	185.4	128.8	101.5	87.8	80.0
55°	4956.4	4499.8	2181.6	720.0	290.8	156.1	169.8	124.9	91.7	80.0	76.1
57.5°	5221.8	4880.3	2259.7	690.8	253.7	136.6	142.4	122.9	83.9	74.2	68.3
60°	5477.4	5032.5	2265.5	638.1	218.6	122.9	111.2	122.9	78.1	66.3	60.5
62.5°	5668.7	5032.5	2226.5	593.2	191.2	109.3	97.6	117.1	70.2	58.5	54.6
65°	5565.3	4897.9	2125.0	556.1	173.7	95.6	83.9	89.8	62.4	50.7	46.8
67.5°	5379.9	4478.4	1900.6	511.3	171.7	83.9	72.2	66.3	54.6	44.9	41.0
70°	5083.3	3912.5	1582.5	460.5	167.8	76.1	64.4	56.6	48.8	39.0	35.1
72.5°	4095.9	3231.4	1299.6	431.2	163.9	66.3	54.6	48.8	41.0	33.2	29.3
75°	2837.3	2064.5	1001.0	368.8	160.0	60.5	50.7	42.9	35.1	27.3	25.4
77.5°	1701.6	1379.6	645.9	277.1	105.4	48.8	42.9	33.2	29.3	23.4	21.5
80°	796.2	651.8	261.5	107.3	50.7	35.1	29.3	25.4	23.4	19.5	17.6
82.5°	312.2	275.1	126.8	62.4	41.0	27.3	23.4	21.5	19.5	15.6	13.7
85°	167.8	148.3	60.5	42.9	29.3	19.5	19.5	17.6	15.6	13.7	11.7
87.5°	37.1	27.3	25.4	25.4	21.5	15.6	15.6	13.7	11.7	9.8	7.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5
2.5°	2411.9	2441.1	2394.3	2423.6	2382.6	2413.8	2417.7	2388.5	2396.3	2435.3	2452.9
5°	2054.8	2035.3	1992.3	1978.7	1980.6	1955.3	1965.0	1978.7	2000.1	2011.8	2047.0
7.5°	1481.1	1526.0	1524.0	1557.2	1559.1	1555.2	1527.9	1469.4	1488.9	1473.3	1492.8
10°	1059.6	1079.1	1116.2	1137.6	1176.7	1155.2	1092.8	1069.3	1057.6	1055.7	1075.2
12.5°	846.9	800.1	796.2	804.0	823.5	798.1	766.9	739.6	753.2	780.5	802.0
15°	655.7	616.6	565.9	558.1	562.0	550.3	517.1	482.0	491.7	519.1	534.7
17.5°	503.4	458.6	423.4	400.0	392.2	351.2	302.5	273.2	265.4	263.4	277.1
20°	339.5	331.7	325.9	296.6	296.6	238.1	197.1	175.6	175.6	179.5	181.5
22.5°	253.7	243.9	245.9	240.0	224.4	177.6	156.1	150.3	150.3	154.2	154.2
25°	220.5	206.8	202.9	201.0	185.4	152.2	136.6	130.7	130.7	134.6	134.6
27.5°	187.3	183.4	177.6	169.8	156.1	130.7	121.0	115.1	117.1	119.0	117.1
30°	171.7	162.0	154.2	154.2	138.5	117.1	109.3	105.4	101.5	105.4	107.3
32.5°	152.2	146.4	142.4	136.6	119.0	103.4	95.6	91.7	89.8	89.8	91.7
35°	130.7	130.7	126.8	119.0	103.4	93.7	83.9	80.0	78.1	80.0	80.0
37.5°	117.1	111.2	113.2	105.4	91.7	82.0	72.2	68.3	68.3	66.3	68.3
40°	109.3	99.5	93.7	89.8	82.0	70.2	62.4	58.5	56.6	56.6	56.6
42.5°	97.6	89.8	78.1	76.1	74.2	60.5	50.7	48.8	46.8	44.9	44.9
45°	91.7	80.0	70.2	60.5	60.5	50.7	42.9	39.0	37.1	35.1	37.1
47.5°	83.9	72.2	60.5	50.7	48.8	41.0	33.2	29.3	27.3	27.3	27.3
50°	80.0	64.4	52.7	42.9	37.1	33.2	25.4	21.5	19.5	19.5	19.5
52.5°	74.2	60.5	46.8	37.1	29.3	25.4	19.5	15.6	13.7	13.7	13.7
55°	66.3	54.6	41.0	31.2	25.4	19.5	13.7	9.8	7.8	7.8	7.8
57.5°	62.4	48.8	35.1	27.3	19.5	13.7	7.8	5.9	5.9	3.9	5.9
60°	56.6	42.9	29.3	21.5	15.6	9.8	5.9	2.0	2.0	2.0	2.0
62.5°	48.8	37.1	25.4	17.6	11.7	5.9	2.0	0.0	0.0	0.0	0.0
65°	41.0	29.3	19.5	13.7	7.8	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	35.1	25.4	15.6	9.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	31.2	21.5	11.7	7.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	25.4	17.6	9.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.5	13.7	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.6	9.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.7	7.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	2.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5	2747.5
2.5°	2478.2	2466.5	2525.1	2620.7	2669.5	2765.1	2788.5	2849.0	2833.4	2854.8
5°	2050.9	2074.3	2160.1	2300.6	2351.4	2489.9	2620.7	2751.4	2835.3	2876.3
7.5°	1522.1	1600.1	1705.5	1834.3	1965.0	2146.5	2368.9	2521.1	2603.1	2690.9
10°	1133.7	1217.6	1338.6	1465.5	1678.2	1881.1	2103.6	2292.8	2363.1	2445.0
12.5°	891.8	1022.5	1163.0	1299.6	1426.4	1619.6	1894.8	2169.9	2246.0	2308.4
15°	620.5	780.5	981.5	1159.1	1336.7	1504.5	1789.4	2123.1	2226.5	2331.9
17.5°	343.4	470.3	700.5	950.3	1211.8	1469.4	1824.5	2208.9	2365.0	2439.2
20°	199.0	249.8	413.7	710.3	1055.7	1393.3	1842.1	2370.9	2577.7	2614.8
22.5°	163.9	181.5	234.2	444.9	864.4	1344.5	1931.8	2597.3	2808.0	2895.8
25°	140.5	154.2	181.5	267.3	653.7	1241.1	1988.4	2880.2	3075.3	3170.9
27.5°	124.9	138.5	160.0	197.1	444.9	1098.6	2082.1	3135.8	3331.0	3461.7
30°	109.3	121.0	142.4	167.8	308.3	938.6	2162.1	3323.2	3598.3	3639.3
32.5°	97.6	107.3	122.9	144.4	228.3	712.2	2226.5	3516.3	3748.5	3838.3
35°	83.9	95.6	105.4	122.9	173.7	536.6	2187.5	3666.6	3969.1	4076.4
37.5°	74.2	82.0	91.7	103.4	146.4	419.5	2107.5	3846.1	4158.3	4257.9
40°	62.4	68.3	80.0	91.7	132.7	323.9	2015.7	4062.7	4423.7	4599.3
42.5°	52.7	58.5	66.3	85.9	109.3	240.0	1830.4	4230.5	4638.4	4786.7
45°	41.0	48.8	60.5	85.9	87.8	177.6	1639.1	4355.4	4759.3	4833.5
47.5°	31.2	39.0	58.5	74.2	70.2	122.9	1412.8	4497.9	4884.2	4952.5
50°	23.4	31.2	66.3	64.4	58.5	93.7	1270.3	4597.4	4892.0	4929.1
52.5°	15.6	23.4	54.6	48.8	48.8	82.0	1231.3	4593.5	4911.6	4831.5
55°	11.7	17.6	31.2	35.1	42.9	72.2	1196.2	4739.8	4917.4	4974.0
57.5°	7.8	13.7	21.5	27.3	37.1	62.4	1124.0	4915.5	5098.9	5128.2
60°	3.9	9.8	15.6	21.5	31.2	54.6	1022.5	5044.2	5319.4	5350.6
62.5°	2.0	5.9	11.7	17.6	25.4	42.9	917.1	4839.4	5223.8	5278.4
65°	0.0	3.9	7.8	11.7	15.6	31.2	745.4	4369.1	4845.2	5046.2
67.5°	0.0	0.0	3.9	7.8	9.8	23.4	562.0	3974.9	4495.9	4769.1
70°	0.0	0.0	2.0	2.0	5.9	17.6	359.0	3291.9	4013.9	4164.2
72.5°	0.0	0.0	0.0	0.0	2.0	11.7	208.8	2445.0	3145.6	3424.6
75°	0.0	0.0	0.0	0.0	0.0	9.8	105.4	1572.8	2189.4	2564.1
77.5°	0.0	0.0	0.0	0.0	0.0	7.8	56.6	1014.7	1613.8	1927.9
80°	0.0	0.0	0.0	0.0	0.0	2.0	33.2	589.3	1032.3	1250.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	13.7	288.8	616.6	722.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	154.2	308.3	405.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	21.5	41.0
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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