

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: P677347

Luminaire Tested: **CCW-SA-2E-835-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677347
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

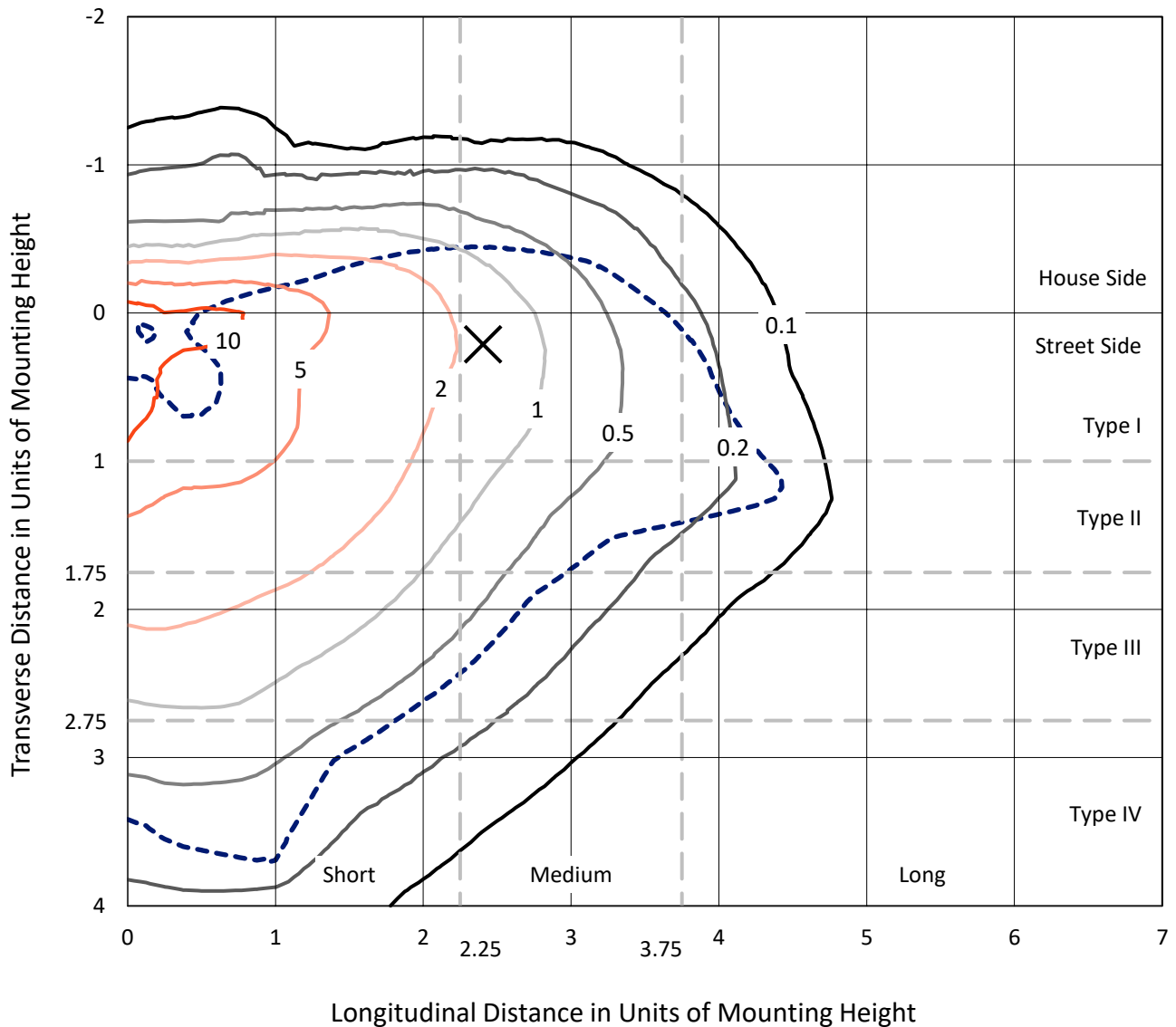
Lumens per Lamp: N/A
Luminaire Lumens: 8174.4 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

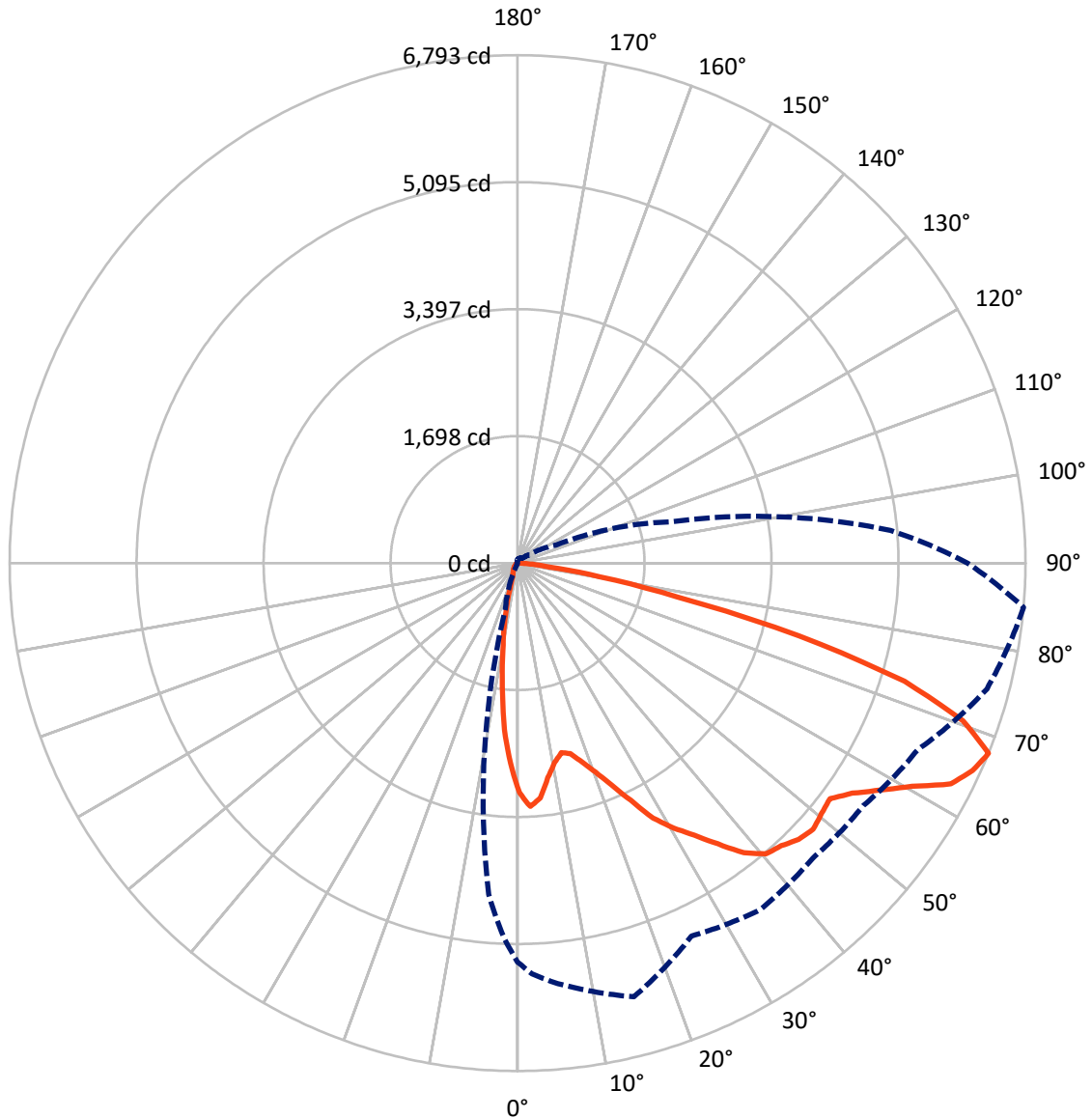
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 15.4 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	1419.3	0.0	1419.3
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	6755.0	0.0	6755.0
	% Fixture	82.6	0.0	82.6
Total	Lumens	8174.4	0.0	8174.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	2.9
10°-20°	457.9	5.6
20°-30°	633.6	7.8
30°-40°	895.5	11.0
40°-50°	1219.2	14.9
50°-60°	1614.7	19.8
60°-70°	1874.8	22.9
70°-80°	1061.7	13.0
80°-90°	183.5	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°	8174.4	100.0
0°-180°	8174.4	100.0



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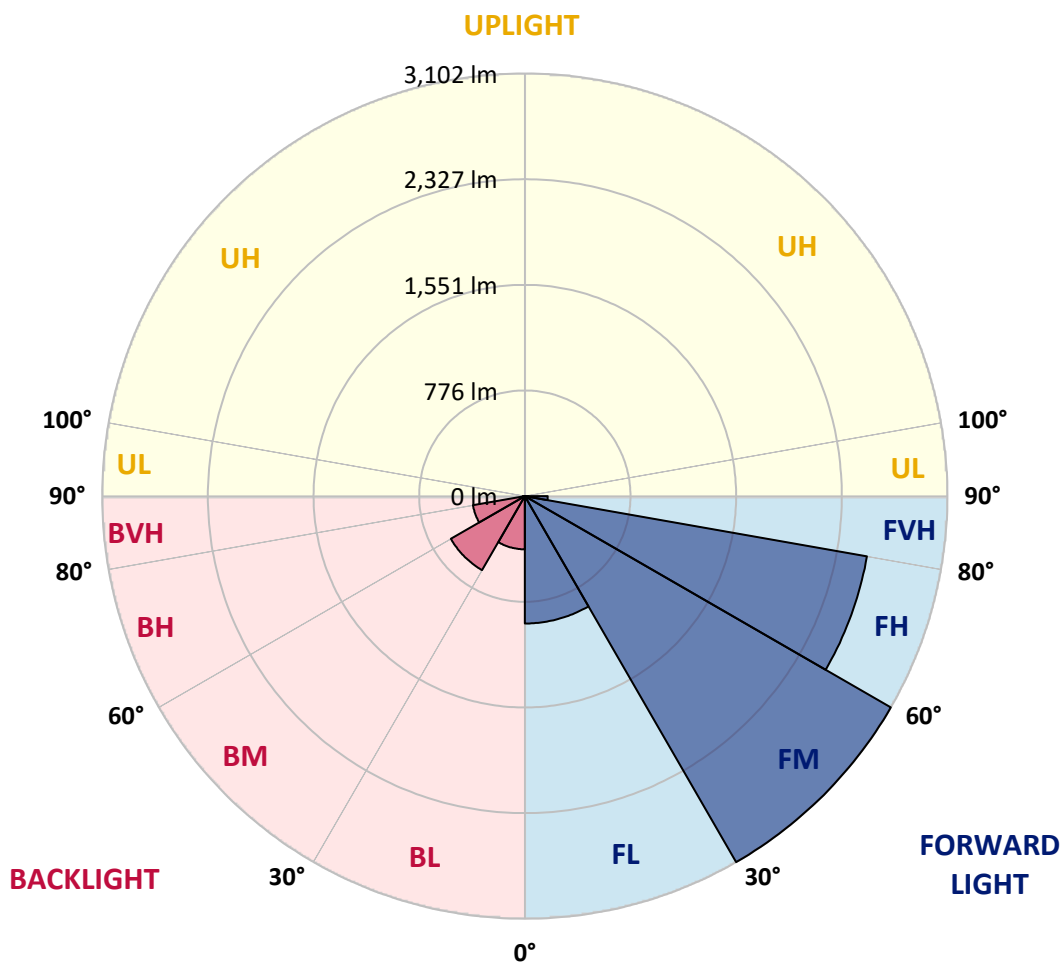
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	934.8	11.4			
FM (30°-60°)	3102.2	38.0			
FH (60°-80°)	2550.0	31.2			G2/5000
FVH (80°-90°)	168.0	2.1			G2/225
BL (0°-30°)	390.2	4.8	B1/500		
BM (30°-60°)	627.1	7.7	B1/1000		
BH (60°-80°)	386.5	4.7	B1/500		G1/500
BVH (80°-90°)	15.5	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°	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5
2.5°	3193.6	3261.2	3263.4	3294.0	3324.5	3324.5	3396.6	3379.1	3315.8	3304.9	3259.1
5°	3217.6	3241.6	3259.1	3414.0	3545.0	3531.9	3571.2	3545.0	3422.8	3265.6	3158.6
7.5°	3010.2	3036.4	3106.2	3370.4	3547.2	3606.1	3680.3	3516.6	3387.8	3104.1	2898.9
10°	2735.2	2785.4	2914.2	3215.4	3433.7	3621.4	3621.4	3490.4	3241.6	2964.4	2713.3
12.5°	2582.4	2682.8	2752.6	3058.2	3342.0	3470.8	3466.4	3396.6	3235.0	2885.8	2602.0
15°	2608.5	2636.9	2785.4	3023.3	3211.0	3204.5	3283.1	3261.2	3147.7	2955.6	2643.5
17.5°	2728.6	2772.3	2901.1	3023.3	3112.8	3086.6	3084.4	3189.2	3195.7	3073.5	2798.5
20°	2925.1	3053.9	3115.0	3152.1	3042.9	2931.6	2918.5	3064.8	3178.3	3224.1	2984.0
22.5°	3239.4	3324.5	3449.0	3259.1	2975.3	2835.6	2809.4	2970.9	3200.1	3403.1	3224.1
25°	3547.2	3612.7	3732.7	3488.3	3051.7	2815.9	2770.1	2909.8	3283.1	3652.0	3514.4
27.5°	3872.4	3929.2	3942.3	3656.3	3093.2	2776.6	2722.1	2909.8	3352.9	3782.9	3861.5
30°	4071.1	4138.8	4151.9	3804.8	3160.8	2809.4	2783.2	2922.9	3400.9	3894.3	4110.4
32.5°	4293.7	4311.2	4300.3	3831.0	3235.0	2905.4	2796.3	3010.2	3455.5	4027.4	4337.4
35°	4560.1	4590.6	4479.3	3951.0	3400.9	2966.5	2927.3	3117.2	3549.4	4088.5	4612.4
37.5°	4763.1	4859.1	4608.1	3996.9	3433.7	3095.3	3101.9	3339.8	3614.9	4162.8	4915.9
40°	5145.1	4983.5	4826.4	4154.0	3558.1	3313.6	3278.7	3569.0	3835.3	4210.8	5114.5
42.5°	5354.6	5269.5	4911.5	4169.3	3750.2	3614.9	3623.6	3828.8	3951.0	4346.1	5169.1
45°	5407.0	5317.5	5027.2	4180.2	3940.1	3970.7	4121.3	4160.6	4121.3	4435.6	5271.7
47.5°	5540.2	5345.9	5014.1	4326.5	4247.9	4365.8	4557.9	4643.0	4352.7	4402.9	5319.7
50°	5514.0	5402.6	4985.7	4387.6	4623.4	4935.5	5064.3	5029.4	4610.3	4335.2	5267.3
52.5°	5404.8	5284.8	5073.0	4553.5	4974.8	5352.4	5531.4	5444.1	4839.5	4488.0	5232.4
55°	5564.2	5472.5	5186.5	4778.3	5238.9	5719.2	5845.8	5780.3	5121.1	4629.9	5431.0
57.5°	5736.6	5717.0	5494.3	5042.5	5551.1	6096.8	6096.8	6016.0	5365.5	4835.1	5725.7
60°	5985.5	6029.1	5721.3	5217.1	5658.0	6075.0	6391.5	6297.6	5612.2	5195.3	6059.7
62.5°	5904.7	6044.4	6013.9	5592.6	5780.3	6181.9	6354.4	6424.2	5917.8	5634.0	6505.0
65°	5644.9	5793.4	6011.7	5839.2	5688.6	5922.2	6009.5	6221.2	6070.6	6046.6	6688.4
67.5°	5335.0	5496.5	5631.8	6005.1	5503.1	5658.0	5581.6	5649.3	5904.7	6498.5	6793.1
70°	4658.3	4813.3	5027.2	5636.2	5011.9	4872.2	4852.6	4819.8	5217.1	6336.9	6317.3
72.5°	3831.0	3903.0	4256.6	4581.9	3708.7	3682.5	3713.1	3676.0	4136.6	5736.6	5411.4
75°	2868.3	2940.3	3141.2	3518.8	2525.6	2375.0	2549.6	2722.1	3158.6	4453.1	3887.7
77.5°	2156.7	2248.4	2375.0	2632.6	1853.3	1617.5	1641.5	1805.2	2283.3	3566.8	2178.5
80°	1399.2	1388.3	1632.8	1811.8	1394.9	1438.5	1377.4	1497.5	1654.6	1907.8	1113.3
82.5°	807.7	818.6	921.2	1039.1	971.4	1111.1	801.1	1338.1	1180.9	777.1	414.7
85°	454.0	473.7	567.6	720.4	609.0	408.2	334.0	663.6	742.2	318.7	200.8
87.5°	45.8	39.3	76.4	272.9	165.9	67.7	100.4	159.4	179.0	120.1	58.9
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°	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5
2.5°	3193.6	3193.6	3139.0	3047.3	3010.2	2944.7	2855.2	2883.6	2853.0	2741.7	2713.3
5°	3062.6	2957.8	2844.3	2704.6	2623.8	2457.9	2405.5	2311.7	2327.0	2233.1	2237.5
7.5°	2789.7	2706.8	2514.7	2331.3	2172.0	2027.9	1824.9	1748.5	1674.3	1637.2	1680.8
10°	2630.4	2475.4	2213.4	1973.3	1761.6	1632.8	1497.5	1392.7	1296.6	1224.6	1209.3
12.5°	2514.7	2377.2	2060.6	1768.1	1602.2	1497.5	1373.0	1229.0	1135.1	1010.7	973.6
15°	2479.8	2311.7	1977.7	1687.4	1525.8	1353.4	1211.5	1069.6	947.4	816.4	770.6
17.5°	2599.8	2405.5	1975.5	1621.9	1394.9	1209.3	1012.9	853.5	729.1	609.0	580.6
20°	2802.8	2506.0	2038.8	1582.6	1270.4	1021.6	798.9	639.6	499.9	421.3	401.7
22.5°	3034.2	2676.2	2045.4	1477.8	1146.0	833.9	582.8	421.3	342.7	305.6	294.7
25°	3318.0	2949.1	2123.9	1392.7	999.8	633.0	414.7	323.1	277.2	255.4	251.0
27.5°	3551.6	3139.0	2209.1	1303.2	855.7	469.3	325.3	264.1	240.1	218.3	216.1
30°	3793.9	3357.3	2233.1	1248.6	731.3	386.4	279.4	233.6	207.4	196.5	194.3
32.5°	4005.6	3595.2	2309.5	1159.1	613.4	340.5	253.2	209.6	192.1	174.6	172.4
35°	4278.5	3732.7	2346.6	1111.1	569.7	307.8	231.4	192.1	165.9	155.0	150.6
37.5°	4571.0	3865.9	2370.6	1074.0	532.6	288.1	218.3	181.2	157.2	141.9	137.5
40°	4843.8	4053.6	2335.7	1028.1	504.2	264.1	209.6	168.1	146.3	131.0	124.4
42.5°	5053.4	4237.0	2324.8	984.5	473.7	255.4	198.6	161.5	137.5	120.1	117.9
45°	5171.3	4361.4	2248.4	949.6	449.7	259.8	194.3	152.8	131.0	115.7	107.0
47.5°	5142.9	4457.5	2268.0	938.6	416.9	242.3	192.1	146.3	120.1	107.0	100.4
50°	5300.0	4651.7	2235.3	903.7	392.9	218.3	209.6	146.3	117.9	102.6	96.0
52.5°	5326.2	4828.5	2305.1	840.4	355.8	200.8	207.4	144.1	113.5	98.2	89.5
55°	5544.5	5033.7	2440.5	805.5	325.3	174.6	189.9	139.7	102.6	89.5	85.1
57.5°	5841.4	5459.4	2527.8	772.7	283.8	152.8	159.4	137.5	93.9	82.9	76.4
60°	6127.4	5629.7	2534.3	713.8	244.5	137.5	124.4	137.5	87.3	74.2	67.7
62.5°	6341.3	5629.7	2490.7	663.6	213.9	122.2	109.1	131.0	78.6	65.5	61.1
65°	6225.6	5479.0	2377.2	622.1	194.3	107.0	93.9	100.4	69.9	56.8	52.4
67.5°	6018.2	5009.7	2126.1	571.9	192.1	93.9	80.8	74.2	61.1	50.2	45.8
70°	5686.4	4376.7	1770.3	515.2	187.7	85.1	72.0	63.3	54.6	43.7	39.3
72.5°	4581.9	3614.9	1453.8	482.4	183.4	74.2	61.1	54.6	45.8	37.1	32.7
75°	3173.9	2309.5	1119.8	412.6	179.0	67.7	56.8	48.0	39.3	30.6	28.4
77.5°	1903.5	1543.3	722.5	310.0	117.9	54.6	48.0	37.1	32.7	26.2	24.0
80°	890.6	729.1	292.5	120.1	56.8	39.3	32.7	28.4	26.2	21.8	19.6
82.5°	349.3	307.8	141.9	69.9	45.8	30.6	26.2	24.0	21.8	17.5	15.3
85°	187.7	165.9	67.7	48.0	32.7	21.8	21.8	19.6	17.5	15.3	13.1
87.5°	41.5	30.6	28.4	28.4	24.0	17.5	17.5	15.3	13.1	10.9	8.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5
2.5°	2698.0	2730.8	2678.4	2711.1	2665.3	2700.2	2704.6	2671.9	2680.6	2724.2	2743.9
5°	2298.6	2276.8	2228.7	2213.4	2215.6	2187.3	2198.2	2213.4	2237.5	2250.6	2289.8
7.5°	1656.8	1707.0	1704.8	1741.9	1744.1	1739.8	1709.2	1643.7	1665.5	1648.1	1669.9
10°	1185.3	1207.1	1248.6	1272.6	1316.3	1292.3	1222.4	1196.2	1183.1	1180.9	1202.8
12.5°	947.4	895.0	890.6	899.3	921.2	892.8	857.9	827.3	842.6	873.2	897.2
15°	733.4	689.8	633.0	624.3	628.7	615.6	578.5	539.2	550.1	580.6	598.1
17.5°	563.2	513.0	473.7	447.5	438.8	392.9	338.3	305.6	296.9	294.7	310.0
20°	379.8	371.1	364.5	331.8	331.8	266.3	220.5	196.5	196.5	200.8	203.0
22.5°	283.8	272.9	275.0	268.5	251.0	198.6	174.6	168.1	168.1	172.4	172.4
25°	246.7	231.4	227.0	224.8	207.4	170.3	152.8	146.3	146.3	150.6	150.6
27.5°	209.6	205.2	198.6	189.9	174.6	146.3	135.3	128.8	131.0	133.2	131.0
30°	192.1	181.2	172.4	172.4	155.0	131.0	122.2	117.9	113.5	117.9	120.1
32.5°	170.3	163.7	159.4	152.8	133.2	115.7	107.0	102.6	100.4	100.4	102.6
35°	146.3	146.3	141.9	133.2	115.7	104.8	93.9	89.5	87.3	89.5	89.5
37.5°	131.0	124.4	126.6	117.9	102.6	91.7	80.8	76.4	76.4	74.2	76.4
40°	122.2	111.3	104.8	100.4	91.7	78.6	69.9	65.5	63.3	63.3	63.3
42.5°	109.1	100.4	87.3	85.1	82.9	67.7	56.8	54.6	52.4	50.2	50.2
45°	102.6	89.5	78.6	67.7	67.7	56.8	48.0	43.7	41.5	39.3	41.5
47.5°	93.9	80.8	67.7	56.8	54.6	45.8	37.1	32.7	30.6	30.6	30.6
50°	89.5	72.0	58.9	48.0	41.5	37.1	28.4	24.0	21.8	21.8	21.8
52.5°	82.9	67.7	52.4	41.5	32.7	28.4	21.8	17.5	15.3	15.3	15.3
55°	74.2	61.1	45.8	34.9	28.4	21.8	15.3	10.9	8.7	8.7	8.7
57.5°	69.9	54.6	39.3	30.6	21.8	15.3	8.7	6.5	6.5	4.4	6.5
60°	63.3	48.0	32.7	24.0	17.5	10.9	6.5	2.2	2.2	2.2	2.2
62.5°	54.6	41.5	28.4	19.6	13.1	6.5	2.2	0.0	0.0	0.0	0.0
65°	45.8	32.7	21.8	15.3	8.7	2.2	0.0	0.0	0.0	0.0	0.0
67.5°	39.3	28.4	17.5	10.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	34.9	24.0	13.1	8.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	28.4	19.6	10.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.0	15.3	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.6	10.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.3	8.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.2	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°	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5
2.5°	2772.3	2759.2	2824.7	2931.6	2986.2	3093.2	3119.3	3187.0	3169.6	3193.6
5°	2294.2	2320.4	2416.5	2573.6	2630.4	2785.4	2931.6	3077.9	3171.7	3217.6
7.5°	1702.7	1790.0	1907.8	2051.9	2198.2	2401.2	2650.0	2820.3	2912.0	3010.2
10°	1268.3	1362.1	1497.5	1639.3	1877.3	2104.3	2353.2	2564.9	2643.5	2735.2
12.5°	997.6	1143.8	1301.0	1453.8	1595.7	1811.8	2119.6	2427.4	2512.5	2582.4
15°	694.2	873.2	1098.0	1296.6	1495.3	1683.0	2001.7	2375.0	2490.7	2608.5
17.5°	384.2	526.1	783.7	1063.1	1355.6	1643.7	2041.0	2471.0	2645.7	2728.6
20°	222.7	279.4	462.8	794.6	1180.9	1558.6	2060.6	2652.2	2883.6	2925.1
22.5°	183.4	203.0	261.9	497.7	967.0	1504.0	2161.1	2905.4	3141.2	3239.4
25°	157.2	172.4	203.0	299.1	731.3	1388.3	2224.4	3221.9	3440.2	3547.2
27.5°	139.7	155.0	179.0	220.5	497.7	1229.0	2329.1	3507.9	3726.2	3872.4
30°	122.2	135.3	159.4	187.7	344.9	1050.0	2418.6	3717.5	4025.2	4071.1
32.5°	109.1	120.1	137.5	161.5	255.4	796.8	2490.7	3933.6	4193.3	4293.7
35°	93.9	107.0	117.9	137.5	194.3	600.3	2447.0	4101.6	4440.0	4560.1
37.5°	82.9	91.7	102.6	115.7	163.7	469.3	2357.5	4302.5	4651.7	4763.1
40°	69.9	76.4	89.5	102.6	148.4	362.4	2254.9	4544.8	4948.6	5145.1
42.5°	58.9	65.5	74.2	96.0	122.2	268.5	2047.5	4732.5	5188.7	5354.6
45°	45.8	54.6	67.7	96.0	98.2	198.6	1833.6	4872.2	5324.1	5407.0
47.5°	34.9	43.7	65.5	82.9	78.6	137.5	1580.4	5031.6	5463.8	5540.2
50°	26.2	34.9	74.2	72.0	65.5	104.8	1421.1	5142.9	5472.5	5514.0
52.5°	17.5	26.2	61.1	54.6	54.6	91.7	1377.4	5138.5	5494.3	5404.8
55°	13.1	19.6	34.9	39.3	48.0	80.8	1338.1	5302.2	5500.9	5564.2
57.5°	8.7	15.3	24.0	30.6	41.5	69.9	1257.3	5498.7	5703.9	5736.6
60°	4.4	10.9	17.5	24.0	34.9	61.1	1143.8	5642.8	5950.5	5985.5
62.5°	2.2	6.5	13.1	19.6	28.4	48.0	1026.0	5413.6	5843.6	5904.7
65°	0.0	4.4	8.7	13.1	17.5	34.9	833.9	4887.5	5420.1	5644.9
67.5°	0.0	0.0	4.4	8.7	10.9	26.2	628.7	4446.5	5029.4	5335.0
70°	0.0	0.0	2.2	2.2	6.5	19.6	401.7	3682.5	4490.2	4658.3
72.5°	0.0	0.0	0.0	0.0	2.2	13.1	233.6	2735.2	3518.8	3831.0
75°	0.0	0.0	0.0	0.0	0.0	10.9	117.9	1759.4	2449.2	2868.3
77.5°	0.0	0.0	0.0	0.0	0.0	8.7	63.3	1135.1	1805.2	2156.7
80°	0.0	0.0	0.0	0.0	0.0	2.2	37.1	659.2	1154.7	1399.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.3	323.1	689.8	807.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	172.4	344.9	454.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	24.0	45.8
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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