

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: P677313

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677313
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-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

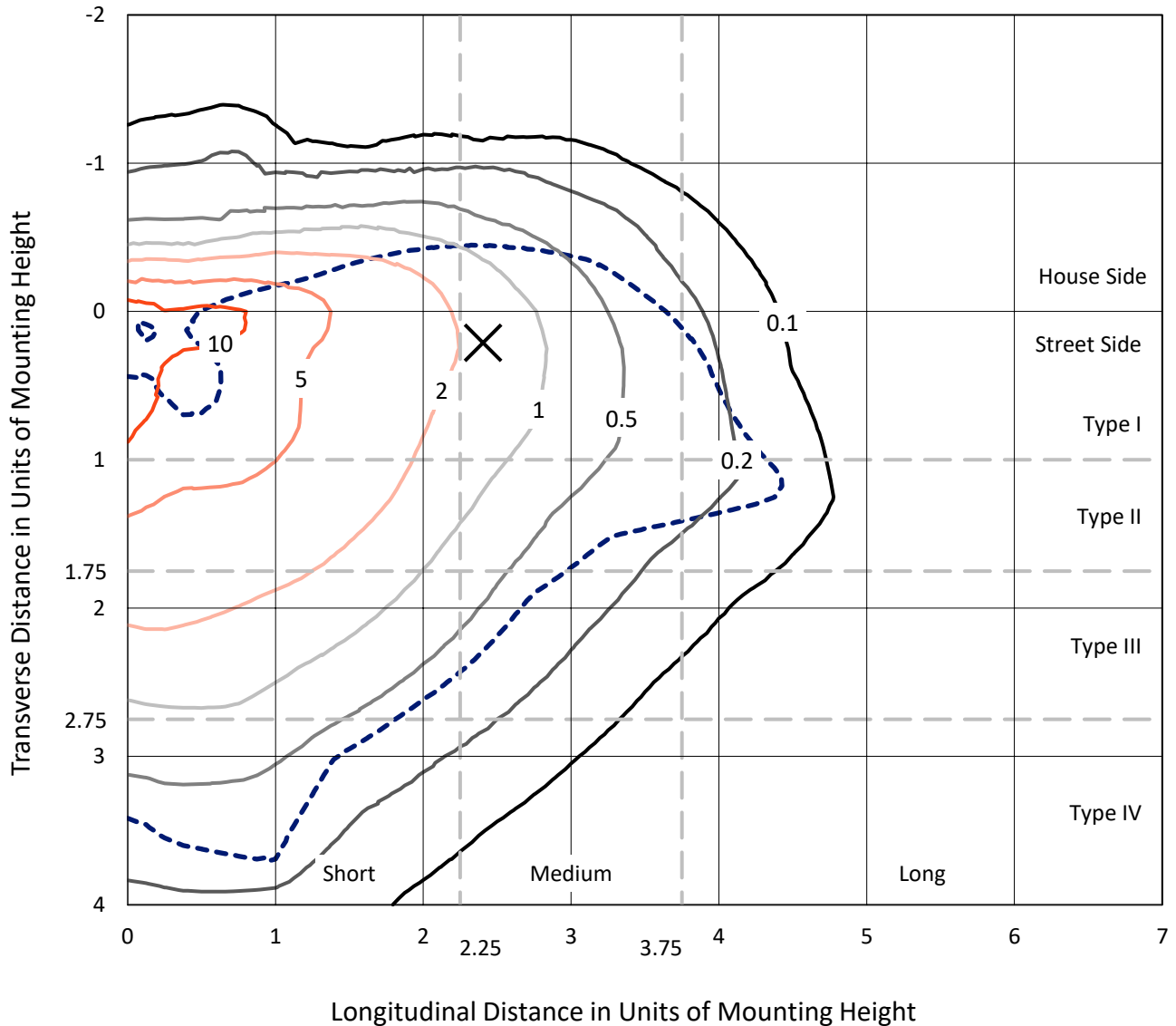
Lumens per Lamp: N/A
Luminaire Lumens: 8277.1 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

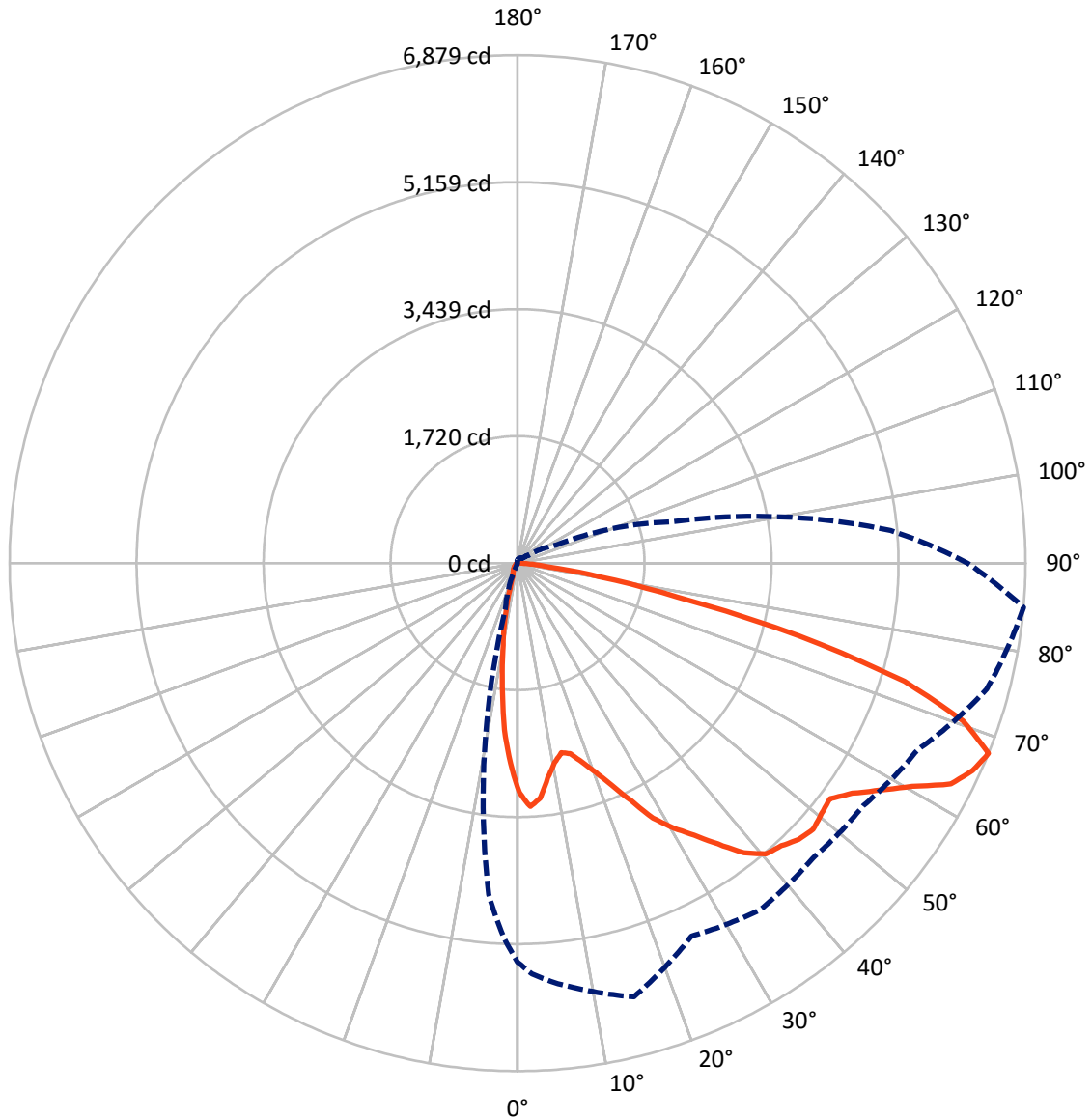
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 15.6 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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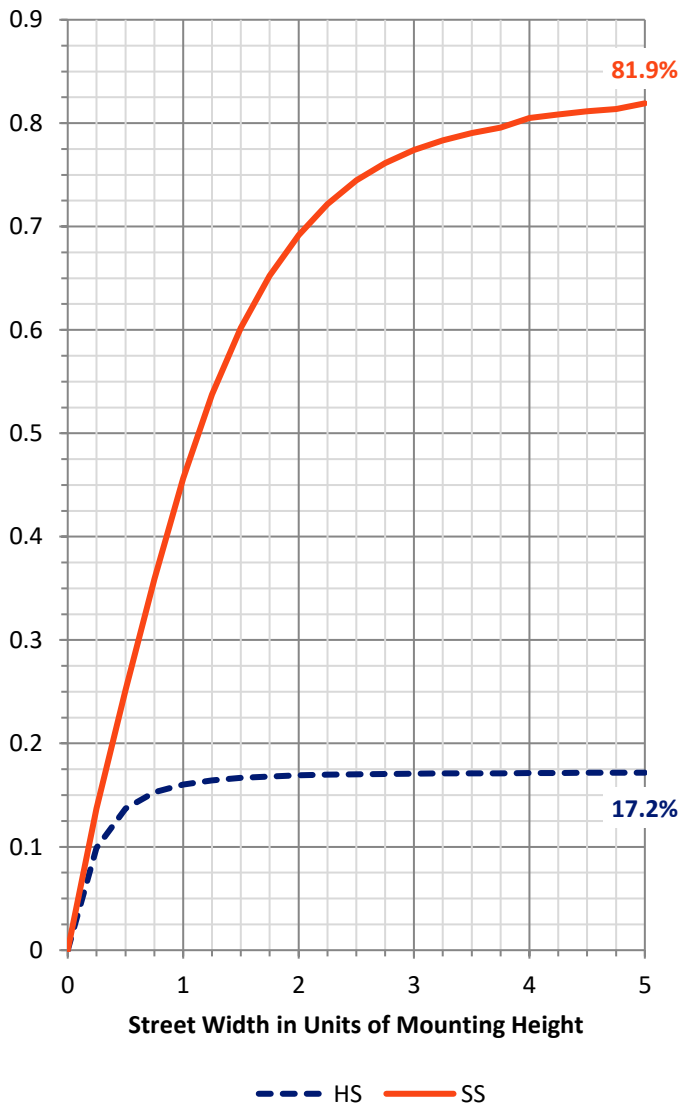
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1437.2	0.0	1437.2
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	6839.9	0.0	6839.9
	% Fixture	82.6	0.0	82.6
Total	Lumens	8277.1	0.0	8277.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.4	2.9
10°-20°	463.6	5.6
20°-30°	641.6	7.8
30°-40°	906.7	11.0
40°-50°	1234.5	14.9
50°-60°	1635.0	19.8
60°-70°	1898.4	22.9
70°-80°	1075.1	13.0
80°-90°	185.8	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°	8277.1	100.0
0°-180°	8277.1	100.0



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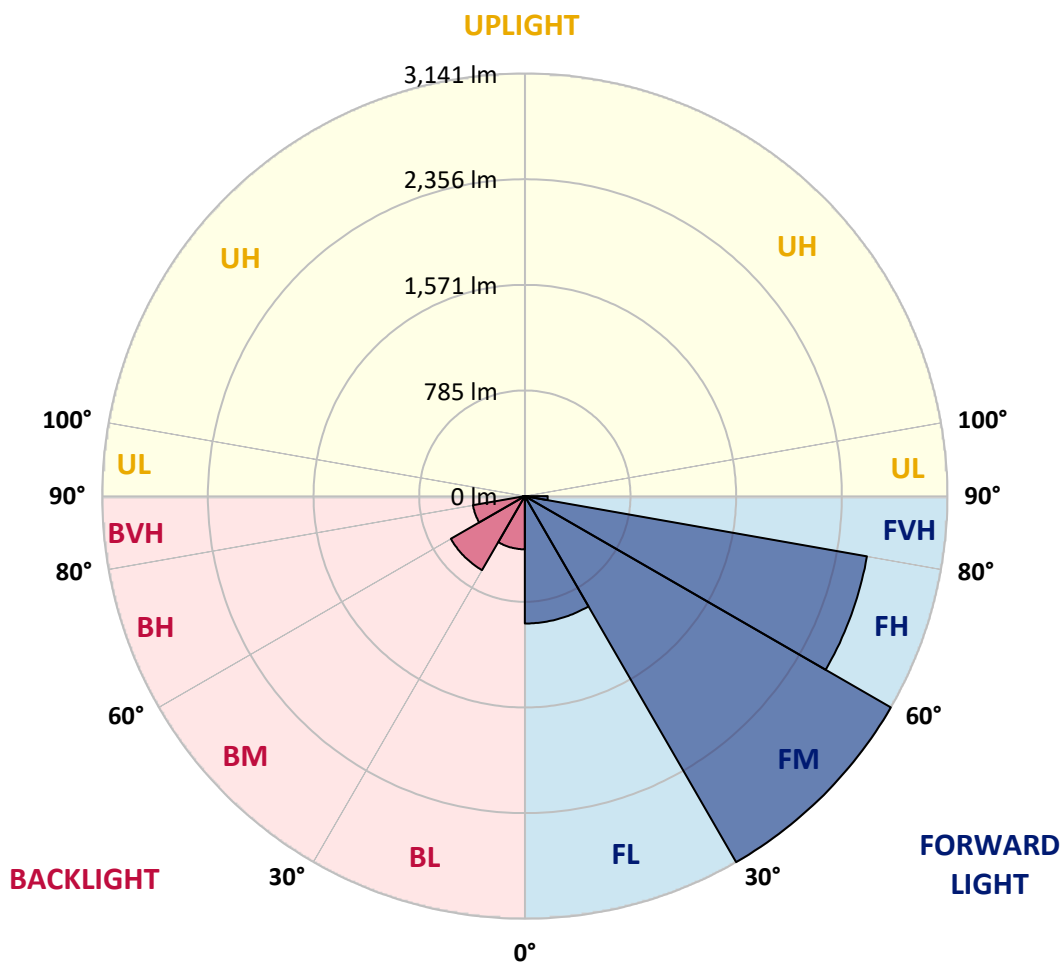
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.5	11.4			
FM (30°-60°)	3141.2	38.0			
FH (60°-80°)	2582.1	31.2			G2/5000
FVH (80°-90°)	170.1	2.1			G2/225
BL (0°-30°)	395.1	4.8	B1/500		
BM (30°-60°)	635.0	7.7	B1/1000		
BH (60°-80°)	391.4	4.7	B1/500		G1/500
BVH (80°-90°)	15.7	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°	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1
2.5°	3233.7	3302.2	3304.4	3335.4	3366.3	3366.3	3439.3	3421.6	3357.5	3346.4	3300.0
5°	3258.0	3282.3	3300.0	3456.9	3589.6	3576.3	3616.1	3589.6	3465.8	3306.6	3198.3
7.5°	3048.0	3074.6	3145.3	3412.7	3591.8	3651.4	3726.6	3560.8	3430.4	3143.1	2935.3
10°	2769.5	2820.4	2950.8	3255.8	3476.8	3666.9	3666.9	3534.3	3282.3	3001.6	2747.4
12.5°	2614.8	2716.5	2787.2	3096.7	3384.0	3514.4	3510.0	3439.3	3275.7	2922.0	2634.7
15°	2641.3	2670.1	2820.4	3061.3	3251.4	3244.7	3324.3	3302.2	3187.3	2992.8	2676.7
17.5°	2762.9	2807.1	2937.5	3061.3	3151.9	3125.4	3123.2	3229.3	3235.9	3112.1	2833.6
20°	2961.8	3092.2	3154.1	3191.7	3081.2	2968.5	2955.2	3103.3	3218.2	3264.6	3021.5
22.5°	3280.1	3366.3	3492.3	3300.0	3012.7	2871.2	2844.7	3008.2	3240.3	3445.9	3264.6
25°	3591.8	3658.1	3779.6	3532.1	3090.0	2851.3	2804.9	2946.4	3324.3	3697.9	3558.6
27.5°	3921.1	3978.6	3991.8	3702.3	3132.0	2811.5	2756.3	2946.4	3395.0	3830.5	3910.1
30°	4122.2	4190.8	4204.0	3852.6	3200.5	2844.7	2818.2	2959.6	3443.7	3943.2	4162.0
32.5°	4347.7	4365.4	4354.3	3879.1	3275.7	2941.9	2831.4	3048.0	3498.9	4078.0	4391.9
35°	4617.4	4648.3	4535.6	4000.7	3443.7	3003.8	2964.0	3156.3	3594.0	4139.9	4670.4
37.5°	4822.9	4920.2	4666.0	4047.1	3476.8	3134.2	3140.9	3381.8	3660.3	4215.1	4977.6
40°	5209.7	5046.2	4887.0	4206.2	3602.8	3355.3	3319.9	3613.9	3883.5	4263.7	5178.8
42.5°	5421.9	5335.7	4973.2	4221.7	3797.3	3660.3	3669.1	3876.9	4000.7	4400.7	5234.0
45°	5475.0	5384.3	5090.4	4232.8	3989.6	4020.6	4173.1	4212.9	4173.1	4491.4	5337.9
47.5°	5609.8	5413.1	5077.1	4380.8	4301.3	4420.6	4615.1	4701.3	4407.4	4458.2	5386.5
50°	5583.3	5470.5	5048.4	4442.7	4681.5	4997.5	5127.9	5092.6	4668.2	4389.7	5333.5
52.5°	5472.7	5351.2	5136.8	4610.7	5037.3	5419.7	5600.9	5512.5	4900.3	4544.4	5298.1
55°	5634.1	5541.3	5251.7	4838.4	5304.8	5791.0	5919.2	5852.9	5185.4	4688.1	5499.3
57.5°	5808.7	5788.8	5563.4	5105.8	5620.8	6173.4	6173.4	6091.6	5433.0	4895.9	5797.7
60°	6060.7	6104.9	5793.2	5282.7	5729.1	6151.3	6471.8	6376.8	5682.7	5260.6	6135.8
62.5°	5978.9	6120.4	6089.4	5662.8	5852.9	6259.6	6434.2	6505.0	5992.2	5704.8	6586.7
65°	5715.9	5866.2	6087.2	5912.6	5760.1	5996.6	6085.0	6299.4	6146.9	6122.6	6772.4
67.5°	5402.0	5565.6	5702.6	6080.6	5572.2	5729.1	5651.8	5720.3	5978.9	6580.1	6878.5
70°	4716.8	4873.8	5090.4	5707.0	5074.9	4933.4	4913.5	4880.4	5282.7	6416.6	6396.7
72.5°	3879.1	3952.0	4310.1	4639.5	3755.3	3728.8	3759.8	3722.2	4188.6	5808.7	5479.4
75°	2904.4	2977.3	3180.6	3563.0	2557.3	2404.8	2581.7	2756.3	3198.3	4509.0	3936.6
77.5°	2183.8	2276.6	2404.8	2665.6	1876.6	1637.8	1662.2	1827.9	2312.0	3611.7	2205.9
80°	1416.8	1405.8	1653.3	1834.6	1412.4	1456.6	1394.7	1516.3	1675.4	1931.8	1127.3
82.5°	817.8	828.9	932.8	1052.1	983.6	1125.1	811.2	1354.9	1195.8	786.9	420.0
85°	459.7	479.6	574.7	729.4	616.7	413.3	338.2	671.9	751.5	322.7	203.3
87.5°	46.4	39.8	77.4	276.3	168.0	68.5	101.7	161.4	181.2	121.6	59.7
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°	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1
2.5°	3233.7	3233.7	3178.4	3085.6	3048.0	2981.7	2891.1	2919.8	2888.9	2776.2	2747.4
5°	3101.1	2995.0	2880.0	2738.6	2656.8	2488.8	2435.8	2340.7	2356.2	2261.2	2265.6
7.5°	2824.8	2740.8	2546.3	2360.6	2199.3	2053.4	1847.8	1770.5	1695.3	1657.7	1701.9
10°	2663.4	2506.5	2241.3	1998.1	1783.7	1653.3	1516.3	1410.2	1312.9	1240.0	1224.5
12.5°	2546.3	2407.0	2086.5	1790.4	1622.4	1516.3	1390.3	1244.4	1149.4	1023.4	985.8
15°	2510.9	2340.7	2002.5	1708.6	1545.0	1370.4	1226.7	1083.1	959.3	826.7	780.2
17.5°	2632.5	2435.8	2000.3	1642.3	1412.4	1224.5	1025.6	864.2	738.2	616.7	587.9
20°	2838.0	2537.4	2064.4	1602.5	1286.4	1034.4	809.0	647.6	506.2	426.6	406.7
22.5°	3072.3	2709.8	2071.1	1496.4	1160.4	844.3	590.2	426.6	347.0	309.4	298.4
25°	3359.7	2986.1	2150.6	1410.2	1012.3	641.0	420.0	327.1	280.7	258.6	254.2
27.5°	3596.2	3178.4	2236.8	1319.6	866.4	475.2	329.3	267.4	243.1	221.0	218.8
30°	3841.5	3399.5	2261.2	1264.3	740.5	391.2	282.9	236.5	210.0	198.9	196.7
32.5°	4055.9	3640.4	2338.5	1173.7	621.1	344.8	256.4	212.2	194.5	176.8	174.6
35°	4332.2	3779.6	2376.1	1125.1	576.9	311.7	234.3	194.5	168.0	156.9	152.5
37.5°	4628.4	3914.5	2400.4	1087.5	539.3	291.8	221.0	183.5	159.1	143.7	139.3
40°	4904.7	4104.6	2365.0	1041.1	510.6	267.4	212.2	170.2	148.1	132.6	126.0
42.5°	5116.9	4290.2	2354.0	996.9	479.6	258.6	201.1	163.6	139.3	121.6	119.4
45°	5236.2	4416.2	2276.6	961.5	455.3	263.0	196.7	154.7	132.6	117.1	108.3
47.5°	5207.5	4513.5	2296.5	950.4	422.2	245.3	194.5	148.1	121.6	108.3	101.7
50°	5366.7	4710.2	2263.4	915.1	397.9	221.0	212.2	148.1	119.4	103.9	97.3
52.5°	5393.2	4889.2	2334.1	851.0	360.3	203.3	210.0	145.9	114.9	99.5	90.6
55°	5614.2	5097.0	2471.1	815.6	329.3	176.8	192.3	141.5	103.9	90.6	86.2
57.5°	5914.8	5528.0	2559.5	782.5	287.3	154.7	161.4	139.3	95.0	84.0	77.4
60°	6204.4	5700.4	2566.2	722.8	247.6	139.3	126.0	139.3	88.4	75.2	68.5
62.5°	6421.0	5700.4	2522.0	671.9	216.6	123.8	110.5	132.6	79.6	66.3	61.9
65°	6303.8	5547.9	2407.0	629.9	196.7	108.3	95.0	101.7	70.7	57.5	53.0
67.5°	6093.8	5072.7	2152.8	579.1	194.5	95.0	81.8	75.2	61.9	50.8	46.4
70°	5757.9	4431.7	1792.6	521.6	190.1	86.2	72.9	64.1	55.3	44.2	39.8
72.5°	4639.5	3660.3	1472.1	488.5	185.7	75.2	61.9	55.3	46.4	37.6	33.2
75°	3213.8	2338.5	1133.9	417.8	181.2	68.5	57.5	48.6	39.8	30.9	28.7
77.5°	1927.4	1562.7	731.6	313.9	119.4	55.3	48.6	37.6	33.2	26.5	24.3
80°	901.8	738.2	296.2	121.6	57.5	39.8	33.2	28.7	26.5	22.1	19.9
82.5°	353.7	311.7	143.7	70.7	46.4	30.9	26.5	24.3	22.1	17.7	15.5
85°	190.1	168.0	68.5	48.6	33.2	22.1	22.1	19.9	17.7	15.5	13.3
87.5°	42.0	30.9	28.7	28.7	24.3	17.7	17.7	15.5	13.3	11.1	8.8
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°	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1
2.5°	2732.0	2765.1	2712.1	2745.2	2698.8	2734.2	2738.6	2705.4	2714.3	2758.5	2778.4
5°	2327.5	2305.4	2256.7	2241.3	2243.5	2214.7	2225.8	2241.3	2265.6	2278.8	2318.6
7.5°	1677.6	1728.5	1726.3	1763.8	1766.0	1761.6	1730.7	1664.4	1686.5	1668.8	1690.9
10°	1200.2	1222.3	1264.3	1288.6	1332.8	1308.5	1237.8	1211.3	1198.0	1195.8	1217.9
12.5°	959.3	906.2	901.8	910.7	932.8	904.0	868.7	837.7	853.2	884.1	908.4
15°	742.7	698.5	641.0	632.2	636.6	623.3	585.7	545.9	557.0	587.9	605.6
17.5°	570.3	519.4	479.6	453.1	444.3	397.9	342.6	309.4	300.6	298.4	313.9
20°	384.6	375.8	369.1	336.0	336.0	269.7	223.2	198.9	198.9	203.3	205.6
22.5°	287.3	276.3	278.5	271.9	254.2	201.1	176.8	170.2	170.2	174.6	174.6
25°	249.8	234.3	229.9	227.7	210.0	172.4	154.7	148.1	148.1	152.5	152.5
27.5°	212.2	207.8	201.1	192.3	176.8	148.1	137.0	130.4	132.6	134.8	132.6
30°	194.5	183.5	174.6	174.6	156.9	132.6	123.8	119.4	114.9	119.4	121.6
32.5°	172.4	165.8	161.4	154.7	134.8	117.1	108.3	103.9	101.7	101.7	103.9
35°	148.1	148.1	143.7	134.8	117.1	106.1	95.0	90.6	88.4	90.6	90.6
37.5°	132.6	126.0	128.2	119.4	103.9	92.8	81.8	77.4	77.4	75.2	77.4
40°	123.8	112.7	106.1	101.7	92.8	79.6	70.7	66.3	64.1	64.1	64.1
42.5°	110.5	101.7	88.4	86.2	84.0	68.5	57.5	55.3	53.0	50.8	50.8
45°	103.9	90.6	79.6	68.5	68.5	57.5	48.6	44.2	42.0	39.8	42.0
47.5°	95.0	81.8	68.5	57.5	55.3	46.4	37.6	33.2	30.9	30.9	30.9
50°	90.6	72.9	59.7	48.6	42.0	37.6	28.7	24.3	22.1	22.1	22.1
52.5°	84.0	68.5	53.0	42.0	33.2	28.7	22.1	17.7	15.5	15.5	15.5
55°	75.2	61.9	46.4	35.4	28.7	22.1	15.5	11.1	8.8	8.8	8.8
57.5°	70.7	55.3	39.8	30.9	22.1	15.5	8.8	6.6	6.6	4.4	6.6
60°	64.1	48.6	33.2	24.3	17.7	11.1	6.6	2.2	2.2	2.2	2.2
62.5°	55.3	42.0	28.7	19.9	13.3	6.6	2.2	0.0	0.0	0.0	0.0
65°	46.4	33.2	22.1	15.5	8.8	2.2	0.0	0.0	0.0	0.0	0.0
67.5°	39.8	28.7	17.7	11.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	35.4	24.3	13.3	8.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	28.7	19.9	11.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.3	15.5	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.9	11.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.5	8.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	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°	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1
2.5°	2807.1	2793.8	2860.2	2968.5	3023.7	3132.0	3158.5	3227.1	3209.4	3233.7
5°	2323.0	2349.6	2446.8	2606.0	2663.4	2820.4	2968.5	3116.5	3211.6	3258.0
7.5°	1724.0	1812.5	1931.8	2077.7	2225.8	2431.3	2683.3	2855.7	2948.6	3048.0
10°	1284.2	1379.2	1516.3	1659.9	1900.9	2130.7	2382.7	2597.1	2676.7	2769.5
12.5°	1010.1	1158.2	1317.3	1472.1	1615.7	1834.6	2146.2	2457.9	2544.1	2614.8
15°	702.9	884.1	1111.8	1312.9	1514.1	1704.2	2026.9	2404.8	2522.0	2641.3
17.5°	389.0	532.7	793.5	1076.4	1372.6	1664.4	2066.6	2502.1	2678.9	2762.9
20°	225.5	282.9	468.6	804.6	1195.8	1578.2	2086.5	2685.5	2919.8	2961.8
22.5°	185.7	205.6	265.2	504.0	979.2	1522.9	2188.2	2941.9	3180.6	3280.1
25°	159.1	174.6	205.6	302.8	740.5	1405.8	2252.3	3262.4	3483.5	3591.8
27.5°	141.5	156.9	181.2	223.2	504.0	1244.4	2358.4	3552.0	3773.0	3921.1
30°	123.8	137.0	161.4	190.1	349.2	1063.2	2449.0	3764.2	4075.8	4122.2
32.5°	110.5	121.6	139.3	163.6	258.6	806.8	2522.0	3983.0	4246.0	4347.7
35°	95.0	108.3	119.4	139.3	196.7	607.8	2477.8	4153.2	4495.8	4617.4
37.5°	84.0	92.8	103.9	117.1	165.8	475.2	2387.1	4356.5	4710.2	4822.9
40°	70.7	77.4	90.6	103.9	150.3	366.9	2283.3	4601.9	5010.8	5209.7
42.5°	59.7	66.3	75.2	97.3	123.8	271.9	2073.3	4792.0	5253.9	5421.9
45°	46.4	55.3	68.5	97.3	99.5	201.1	1856.7	4933.4	5391.0	5475.0
47.5°	35.4	44.2	66.3	84.0	79.6	139.3	1600.3	5094.8	5532.4	5609.8
50°	26.5	35.4	75.2	72.9	66.3	106.1	1438.9	5207.5	5541.3	5583.3
52.5°	17.7	26.5	61.9	55.3	55.3	92.8	1394.7	5203.1	5563.4	5472.7
55°	13.3	19.9	35.4	39.8	48.6	81.8	1354.9	5368.9	5570.0	5634.1
57.5°	8.8	15.5	24.3	30.9	42.0	70.7	1273.1	5567.8	5775.6	5808.7
60°	4.4	11.1	17.7	24.3	35.4	61.9	1158.2	5713.7	6025.3	6060.7
62.5°	2.2	6.6	13.3	19.9	28.7	48.6	1038.8	5481.6	5917.0	5978.9
65°	0.0	4.4	8.8	13.3	17.7	35.4	844.3	4948.9	5488.2	5715.9
67.5°	0.0	0.0	4.4	8.8	11.1	26.5	636.6	4502.4	5092.6	5402.0
70°	0.0	0.0	2.2	2.2	6.6	19.9	406.7	3728.8	4546.6	4716.8
72.5°	0.0	0.0	0.0	0.0	2.2	13.3	236.5	2769.5	3563.0	3879.1
75°	0.0	0.0	0.0	0.0	0.0	11.1	119.4	1781.5	2480.0	2904.4
77.5°	0.0	0.0	0.0	0.0	0.0	8.8	64.1	1149.4	1827.9	2183.8
80°	0.0	0.0	0.0	0.0	0.0	2.2	37.6	667.5	1169.3	1416.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.5	327.1	698.5	817.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	174.6	349.2	459.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	24.3	46.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)