

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: P675907

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675907  
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  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
SLL distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

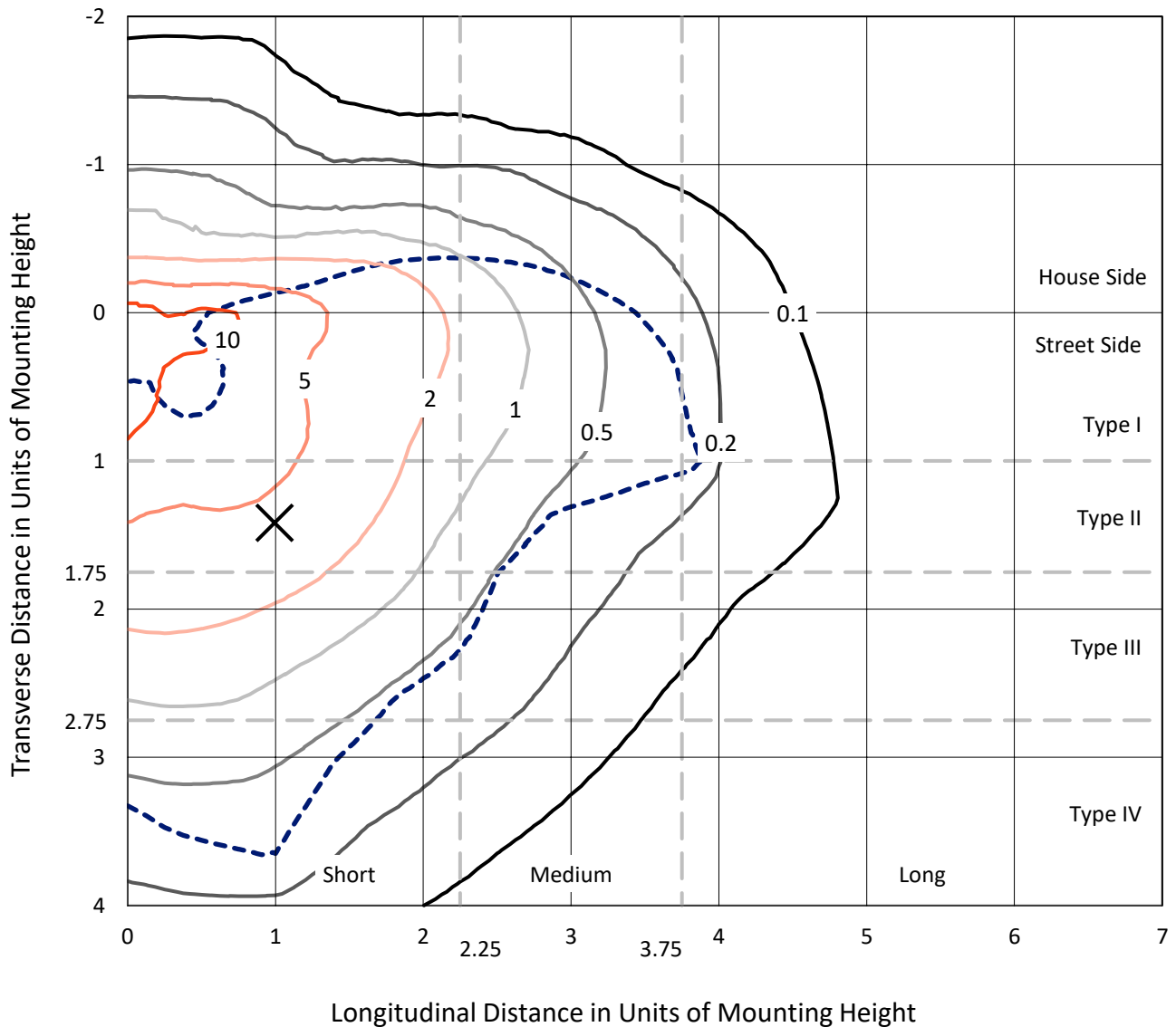
Lumens per Lamp: N/A  
Luminaire Lumens: 9348.2 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

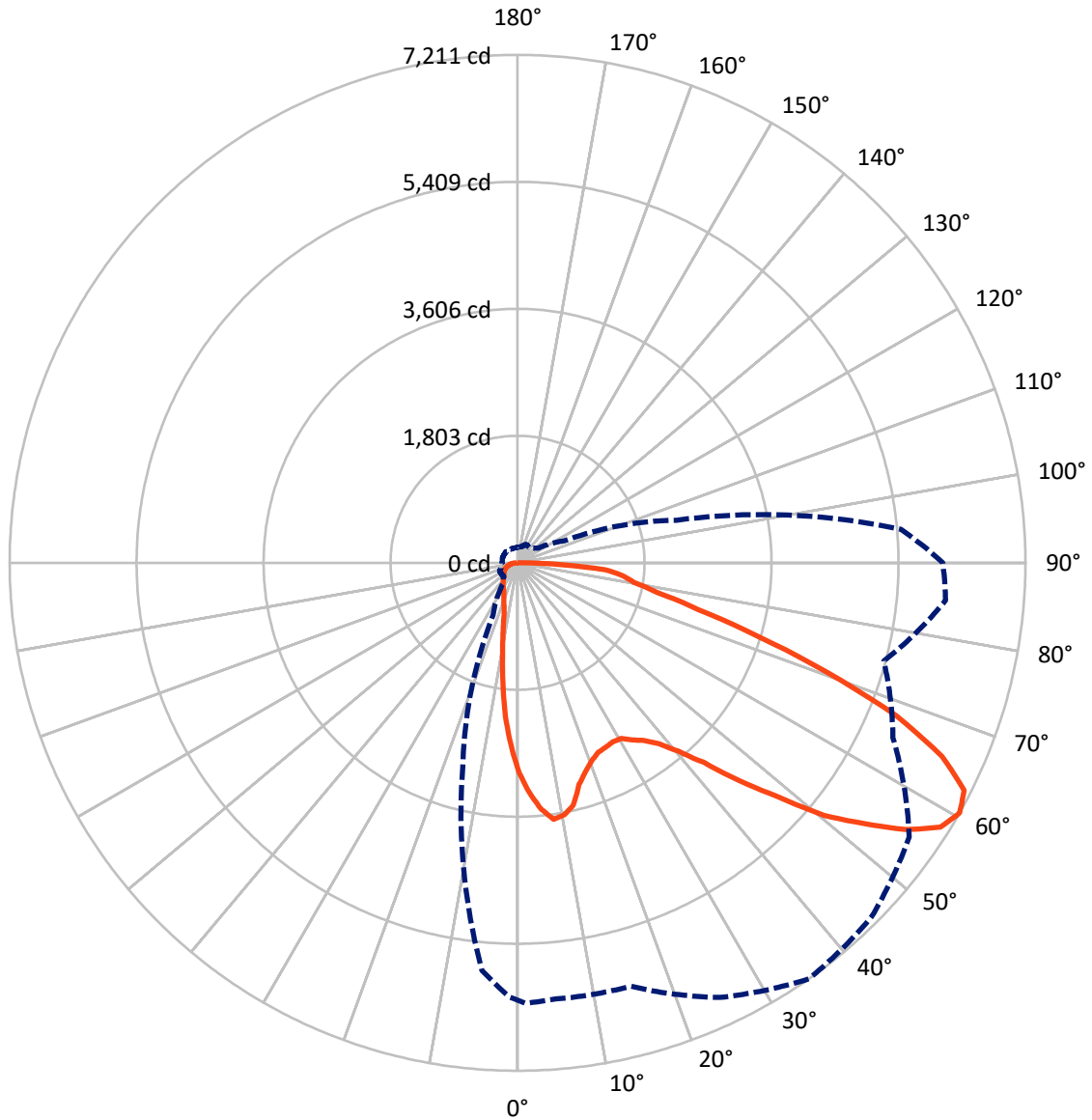
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 15.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1779.1	0.0	1779.1
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	7569.1	0.0	7569.1
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	9348.2	0.0	9348.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.0	2.5
10°-20°	489.7	5.2
20°-30°	716.5	7.7
30°-40°	1009.6	10.8
40°-50°	1387.4	14.8
50°-60°	1890.9	20.2
60°-70°	2069.5	22.1
70°-80°	1194.8	12.8
80°-90°	357.8	3.8
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°	9348.2	100.0
0°-180°	9348.2	100.0



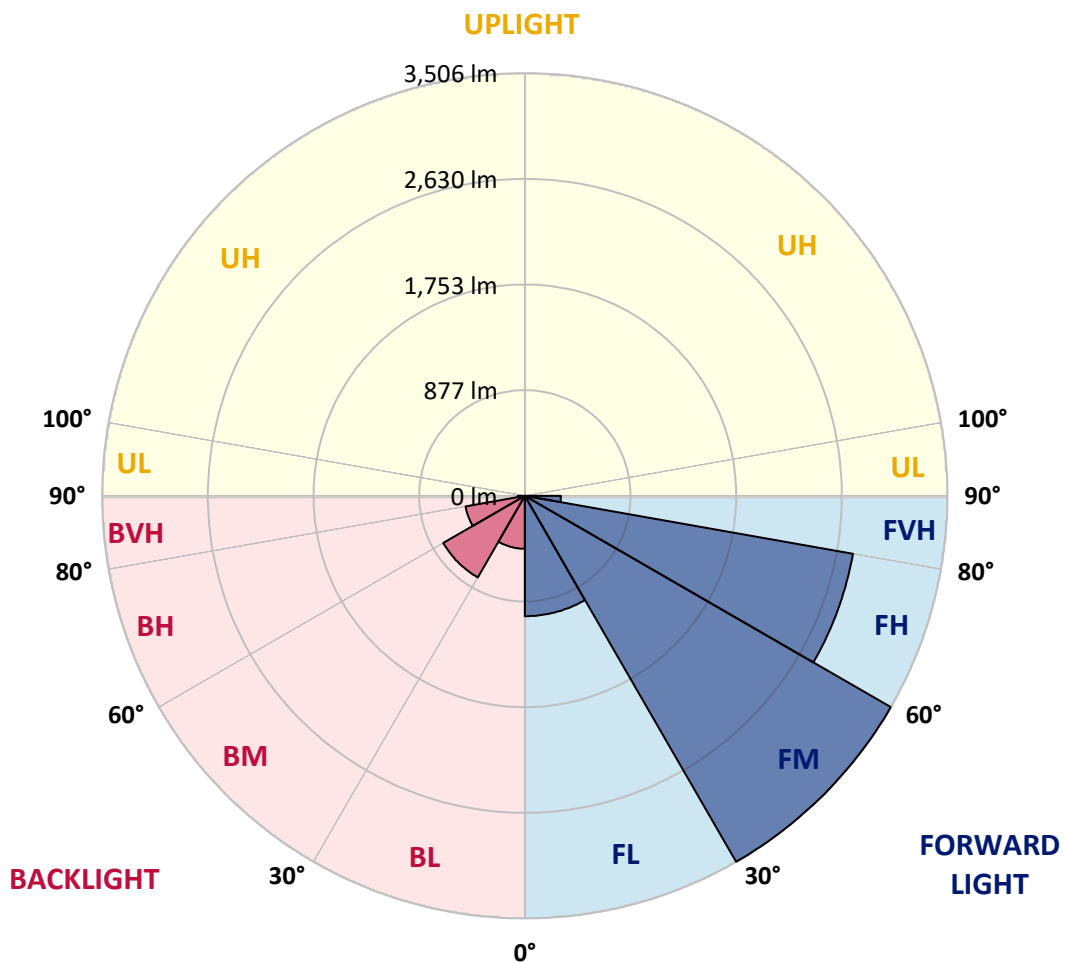
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	998.7	10.7			
FM (30°-60°)	3506.3	37.5			
FH (60°-80°)	2764.6	29.6			G2/5000
FVH (80°-90°)	299.5	3.2			G3/500
BL (0°-30°)	439.5	4.7	B1/500		
BM (30°-60°)	781.5	8.4	B1/1000		
BH (60°-80°)	499.7	5.3	B1/500		G1/500
BVH (80°-90°)	58.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8
2.5°	3197.3	3184.8	3197.3	3242.9	3255.3	3276.0	3276.0	3247.0	3193.1	3168.2	3126.8
5°	3267.7	3247.0	3350.7	3446.1	3520.7	3512.4	3441.9	3383.9	3276.0	3114.3	2960.9
7.5°	3126.8	3147.5	3222.1	3470.9	3645.1	3678.3	3566.3	3450.2	3218.0	2994.1	2786.7
10°	2861.4	2890.4	3052.1	3309.2	3582.9	3636.8	3566.3	3425.3	3147.5	2869.6	2629.1
12.5°	2732.8	2799.2	2894.5	3205.5	3400.4	3529.0	3495.8	3404.6	3093.6	2766.0	2533.7
15°	2732.8	2749.4	2890.4	3151.6	3263.6	3267.7	3280.2	3296.8	3110.2	2811.6	2500.6
17.5°	2819.9	2865.5	2985.8	3147.5	3168.2	3118.5	3118.5	3189.0	3143.3	2940.1	2620.8
20°	3031.4	3014.8	3172.4	3238.7	3126.8	3002.3	2989.9	3110.2	3180.7	3077.0	2840.6
22.5°	3242.9	3317.5	3446.1	3296.8	3089.4	2923.6	2907.0	3056.3	3292.6	3313.4	3093.6
25°	3562.2	3636.8	3703.2	3520.7	3085.3	2902.8	2915.3	3031.4	3429.5	3649.3	3516.6
27.5°	3906.4	3952.0	4047.4	3765.4	3184.8	2877.9	2890.4	3064.6	3558.0	3869.0	3848.3
30°	4101.3	4151.0	4130.3	3811.0	3251.2	2894.5	2861.4	3110.2	3487.5	3869.0	4064.0
32.5°	4292.0	4263.0	4250.6	3885.6	3334.1	2998.2	2915.3	3205.5	3529.0	3931.3	4341.8
35°	4524.3	4482.8	4449.6	4030.8	3470.9	3097.7	3060.4	3330.0	3620.2	4059.8	4565.7
37.5°	4781.4	4781.4	4619.6	4138.6	3632.7	3259.5	3218.0	3508.3	3765.4	4138.6	4872.6
40°	5084.1	5096.5	4810.4	4283.7	3815.1	3516.6	3504.1	3740.5	3906.4	4254.7	5167.0
42.5°	5308.0	5316.3	4976.3	4337.6	4026.6	3873.2	3927.1	4113.7	4068.1	4358.4	5187.8
45°	5461.5	5420.0	5092.4	4491.1	4258.9	4408.1	4424.7	4478.6	4279.6	4420.6	5270.7
47.5°	5536.1	5527.8	5142.1	4669.4	4748.2	4951.4	5046.8	4972.1	4474.5	4354.2	5270.7
50°	5610.7	5540.2	5187.8	4914.1	5225.1	5635.6	5614.9	5478.0	4744.0	4437.2	5191.9
52.5°	5660.5	5598.3	5279.0	5133.9	5681.2	6145.7	6228.6	5975.7	5059.2	4590.6	5229.2
55°	5838.8	5789.1	5552.7	5432.4	6207.9	6684.8	6697.2	6344.7	5391.0	4843.6	5473.9
57.5°	6054.5	6083.5	5930.1	5855.4	6610.1	7078.7	7033.1	6618.4	5672.9	5150.4	5755.9
60°	6207.9	6253.5	6216.2	6224.5	6809.2	7211.4	7107.8	6788.5	5880.3	5382.7	6100.1
62.5°	6125.0	6216.2	6369.6	6336.4	6817.5	7116.1	6970.9	6564.5	5905.2	5685.4	6361.3
65°	5896.9	5905.2	6203.7	6386.2	6444.3	6622.6	6431.8	6095.9	5648.1	5872.0	6324.0
67.5°	5312.2	5378.5	5648.1	6004.7	5760.0	5801.5	5784.9	5299.7	5258.3	5743.4	6037.9
70°	4690.1	4735.7	5030.2	5449.0	4864.3	4669.4	4706.7	4345.9	4516.0	5345.3	5461.5
72.5°	3877.3	3906.4	4242.3	4611.3	3902.2	3553.9	3641.0	3346.5	3587.1	4677.7	4607.2
75°	2927.7	2981.6	3242.9	3678.3	2873.8	2649.9	2736.9	2616.7	2840.6	3852.5	3574.6
77.5°	2081.7	2040.3	2363.7	2877.9	2160.5	2027.8	2036.1	2056.9	2297.4	3247.0	2566.9
80°	1418.2	1430.7	1721.0	2110.8	1696.1	1675.3	1654.6	1820.5	1928.3	2571.1	1866.1
82.5°	841.8	841.8	1161.1	1501.2	1339.4	1509.5	1414.1	1563.4	1509.5	1891.0	1223.3
85°	394.0	394.0	597.2	1082.3	1036.7	1244.1	1057.5	1181.9	1115.5	1318.7	551.5
87.5°	66.4	58.1	120.3	530.8	427.1	485.2	190.8	630.3	700.8	920.6	136.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8
2.5°	3081.1	3052.1	2994.1	2919.4	2857.2	2778.4	2753.5	2699.6	2625.0	2616.7	2583.5
5°	2902.8	2803.3	2678.9	2525.5	2421.8	2314.0	2222.7	2168.8	2106.6	2098.3	2081.7
7.5°	2707.9	2583.5	2376.2	2193.7	2015.4	1845.4	1762.4	1658.8	1588.3	1534.3	1509.5
10°	2525.5	2409.3	2152.2	1903.4	1745.8	1633.9	1534.3	1426.5	1339.4	1273.1	1248.2
12.5°	2405.2	2268.3	1990.5	1754.1	1638.0	1509.5	1397.5	1281.4	1169.4	1082.3	1036.7
15°	2351.3	2222.7	1940.7	1679.5	1509.5	1331.2	1202.6	1086.5	949.6	887.4	866.7
17.5°	2479.8	2289.1	1924.2	1592.4	1351.9	1148.7	991.1	866.7	767.2	705.0	680.1
20°	2645.7	2409.3	1953.2	1488.7	1202.6	974.5	800.3	667.6	601.3	555.7	551.5
22.5°	2857.2	2587.7	1998.8	1414.1	1036.7	783.8	626.2	547.4	501.8	497.6	489.3
25°	3234.6	2911.1	2073.4	1314.6	904.0	646.9	534.9	489.3	468.6	456.2	464.5
27.5°	3558.0	3122.6	2127.4	1252.4	850.1	609.6	518.4	468.6	447.9	443.7	447.9
30°	3748.8	3317.5	2110.8	1136.2	742.3	580.6	551.5	534.9	493.5	460.3	460.3
32.5°	3923.0	3441.9	2106.6	1032.6	634.5	485.2	460.3	447.9	472.7	489.3	476.9
35°	4163.5	3636.8	2094.2	974.5	588.9	447.9	406.4	373.2	356.6	348.3	360.8
37.5°	4420.6	3769.5	2061.0	966.2	564.0	427.1	394.0	360.8	344.2	335.9	331.8
40°	4702.6	3910.5	2023.7	924.8	551.5	414.7	381.5	352.5	331.8	319.3	315.2
42.5°	4885.0	4022.5	1986.4	904.0	526.7	406.4	369.1	344.2	323.5	306.9	306.9
45°	4988.7	4155.2	1949.0	883.3	497.6	410.5	369.1	335.9	311.0	302.7	294.4
47.5°	5034.3	4254.7	1936.6	850.1	472.7	394.0	360.8	327.6	302.7	286.1	282.0
50°	5154.6	4466.2	1982.2	825.2	443.7	377.4	381.5	323.5	298.6	277.8	273.7
52.5°	5225.1	4636.2	2081.7	787.9	423.0	356.6	373.2	315.2	286.1	265.4	265.4
55°	5482.2	4918.2	2189.6	758.9	398.1	327.6	344.2	298.6	265.4	253.0	253.0
57.5°	5809.8	5216.8	2280.8	746.4	381.5	306.9	306.9	290.3	253.0	236.4	232.2
60°	6037.9	5461.5	2334.7	738.1	364.9	286.1	273.7	290.3	240.5	223.9	219.8
62.5°	6062.8	5320.5	2280.8	734.0	360.8	265.4	248.8	277.8	228.1	211.5	203.2
65°	5905.2	5034.3	2131.5	717.4	356.6	244.7	232.2	240.5	211.5	199.1	190.8
67.5°	5590.0	4569.9	1915.9	709.1	352.5	228.1	211.5	207.3	194.9	182.5	174.2
70°	4856.0	3964.4	1662.9	671.8	344.2	215.6	190.8	186.6	174.2	165.9	161.7
72.5°	4076.4	3242.9	1372.6	622.0	327.6	194.9	174.2	165.9	161.7	149.3	145.1
75°	3122.6	2496.4	1098.9	551.5	286.1	174.2	153.4	145.1	141.0	132.7	128.6
77.5°	2193.7	1857.8	812.8	447.9	240.5	157.6	136.8	128.6	124.4	112.0	112.0
80°	1488.7	1302.1	551.5	311.0	186.6	128.6	120.3	112.0	103.7	95.4	95.4
82.5°	924.8	912.3	398.1	203.2	136.8	103.7	95.4	95.4	82.9	74.6	74.6
85°	423.0	559.8	277.8	141.0	103.7	78.8	78.8	74.6	66.4	53.9	53.9
87.5°	132.7	186.6	145.1	62.2	58.1	45.6	45.6	41.5	41.5	33.2	33.2
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8
2.5°	2616.7	2612.5	2612.5	2596.0	2637.4	2637.4	2662.3	2641.6	2654.0	2658.2	2691.3
5°	2077.6	2110.8	2135.6	2185.4	2214.4	2226.9	2226.9	2260.1	2247.6	2272.5	2322.3
7.5°	1521.9	1563.4	1638.0	1700.2	1750.0	1766.6	1762.4	1770.7	1783.2	1754.1	1762.4
10°	1231.6	1202.6	1227.5	1285.5	1331.2	1385.1	1343.6	1339.4	1351.9	1339.4	1364.3
12.5°	1028.4	995.3	974.5	974.5	1007.7	1032.6	1020.1	1040.9	1086.5	1098.9	1128.0
15°	833.5	804.5	787.9	767.2	800.3	808.6	821.1	850.1	883.3	899.9	933.1
17.5°	667.6	667.6	667.6	651.1	663.5	675.9	680.1	717.4	721.6	738.1	750.6
20°	547.4	559.8	580.6	588.9	601.3	601.3	593.0	613.7	597.2	609.6	617.9
22.5°	493.5	510.1	518.4	522.5	539.1	543.2	522.5	526.7	530.8	518.4	522.5
25°	464.5	472.7	464.5	468.6	472.7	464.5	468.6	476.9	472.7	481.0	476.9
27.5°	452.0	443.7	439.6	435.4	435.4	427.1	431.3	431.3	439.6	443.7	443.7
30°	452.0	439.6	423.0	410.5	410.5	398.1	406.4	414.7	418.8	427.1	427.1
32.5°	464.5	439.6	410.5	398.1	385.7	377.4	385.7	398.1	414.7	418.8	423.0
35°	369.1	381.5	377.4	360.8	356.6	356.6	352.5	352.5	340.0	340.0	335.9
37.5°	331.8	327.6	335.9	340.0	344.2	331.8	331.8	315.2	311.0	315.2	315.2
40°	311.0	311.0	311.0	323.5	327.6	319.3	306.9	298.6	298.6	298.6	302.7
42.5°	302.7	294.4	290.3	298.6	311.0	302.7	290.3	286.1	286.1	290.3	290.3
45°	290.3	286.1	282.0	277.8	294.4	282.0	277.8	273.7	273.7	273.7	277.8
47.5°	277.8	273.7	265.4	265.4	269.5	265.4	261.3	261.3	261.3	269.5	269.5
50°	269.5	265.4	257.1	257.1	257.1	257.1	253.0	253.0	253.0	257.1	261.3
52.5°	257.1	253.0	248.8	244.7	244.7	244.7	244.7	244.7	244.7	248.8	253.0
55°	244.7	240.5	236.4	236.4	240.5	240.5	236.4	240.5	236.4	240.5	244.7
57.5°	232.2	228.1	223.9	228.1	232.2	228.1	228.1	228.1	228.1	228.1	232.2
60°	215.6	215.6	215.6	215.6	223.9	223.9	223.9	223.9	215.6	219.8	223.9
62.5°	207.3	203.2	203.2	207.3	211.5	211.5	215.6	211.5	207.3	211.5	211.5
65°	190.8	190.8	190.8	194.9	194.9	199.1	199.1	199.1	194.9	199.1	199.1
67.5°	178.3	178.3	178.3	178.3	186.6	186.6	186.6	186.6	182.5	182.5	186.6
70°	157.6	161.7	157.6	165.9	174.2	170.0	174.2	174.2	170.0	165.9	174.2
72.5°	145.1	145.1	145.1	145.1	157.6	157.6	157.6	161.7	157.6	153.4	157.6
75°	128.6	128.6	128.6	132.7	141.0	141.0	141.0	141.0	141.0	136.8	136.8
77.5°	112.0	116.1	112.0	116.1	124.4	120.3	124.4	128.6	124.4	120.3	120.3
80°	95.4	95.4	95.4	99.5	103.7	103.7	103.7	107.8	103.7	99.5	99.5
82.5°	74.6	74.6	78.8	78.8	82.9	82.9	82.9	87.1	82.9	78.8	78.8
85°	58.1	58.1	58.1	62.2	62.2	66.4	66.4	70.5	70.5	66.4	66.4
87.5°	37.3	33.2	37.3	37.3	41.5	41.5	37.3	33.2	37.3	33.2	29.0
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°	359°	360°
0°	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8	2985.8
2.5°	2724.5	2799.2	2853.1	2890.4	2944.3	3048.0	3089.4	3164.1	3184.8	3197.3
5°	2343.0	2421.8	2537.9	2620.8	2716.2	2911.1	3060.4	3172.4	3222.1	3267.7
7.5°	1837.1	1940.7	2061.0	2168.8	2326.4	2566.9	2761.8	2994.1	3081.1	3126.8
10°	1434.8	1530.2	1662.9	1795.6	2015.4	2218.6	2496.4	2707.9	2828.2	2861.4
12.5°	1210.9	1322.9	1480.4	1642.2	1779.0	2011.2	2293.2	2600.1	2712.1	2732.8
15°	1028.4	1181.9	1343.6	1509.5	1667.0	1870.2	2173.0	2546.2	2712.1	2732.8
17.5°	850.1	987.0	1177.7	1356.0	1538.5	1816.3	2193.7	2591.8	2757.7	2819.9
20°	675.9	808.6	957.9	1181.9	1430.7	1725.1	2239.3	2745.2	2965.0	3031.4
22.5°	559.8	617.9	763.0	978.7	1273.1	1662.9	2284.9	2985.8	3218.0	3242.9
25°	489.3	530.8	622.0	825.2	1148.7	1621.4	2392.8	3263.6	3562.2	3562.2
27.5°	456.2	472.7	534.9	717.4	1061.6	1584.1	2500.6	3570.5	3848.3	3906.4
30°	447.9	489.3	522.5	638.6	966.2	1480.4	2600.1	3811.0	4097.1	4101.3
32.5°	439.6	431.3	456.2	555.7	850.1	1372.6	2683.0	4055.7	4279.6	4292.0
35°	344.2	360.8	402.2	489.3	763.0	1293.8	2724.5	4188.4	4511.8	4524.3
37.5°	323.5	344.2	377.4	452.0	705.0	1227.5	2736.9	4445.5	4756.5	4781.4
40°	315.2	331.8	356.6	418.8	659.4	1144.5	2761.8	4710.9	5117.3	5084.1
42.5°	298.6	319.3	344.2	402.2	622.0	1082.3	2766.0	4856.0	5308.0	5308.0
45°	294.4	306.9	335.9	402.2	580.6	1028.4	2699.6	5001.1	5527.8	5461.5
47.5°	277.8	302.7	327.6	389.8	530.8	974.5	2620.8	5075.8	5556.8	5536.1
50°	273.7	298.6	340.0	369.1	501.8	949.6	2604.2	5262.4	5614.9	5610.7
52.5°	265.4	290.3	352.5	352.5	464.5	916.5	2683.0	5345.3	5627.3	5660.5
55°	253.0	290.3	327.6	323.5	431.3	875.0	2770.1	5561.0	5847.1	5838.8
57.5°	244.7	282.0	311.0	294.4	394.0	846.0	2898.7	5768.3	6112.5	6054.5
60°	232.2	282.0	277.8	273.7	364.9	821.1	3006.5	5809.8	6170.6	6207.9
62.5°	223.9	294.4	244.7	253.0	340.0	808.6	2960.9	5498.8	6091.8	6125.0
65°	215.6	253.0	223.9	232.2	331.8	783.8	2782.6	5125.6	5751.7	5896.9
67.5°	199.1	207.3	207.3	215.6	323.5	725.7	2417.6	4453.8	5233.4	5312.2
70°	182.5	186.6	186.6	199.1	315.2	659.4	1994.7	3852.5	4540.8	4690.1
72.5°	165.9	165.9	165.9	182.5	290.3	605.4	1642.2	2960.9	3773.7	3877.3
75°	145.1	145.1	145.1	161.7	261.3	551.5	1293.8	2202.0	2778.4	2927.7
77.5°	128.6	128.6	124.4	145.1	228.1	447.9	933.1	1555.1	1957.3	2081.7
80°	107.8	103.7	103.7	116.1	178.3	323.5	601.3	1098.9	1364.3	1418.2
82.5°	87.1	82.9	78.8	87.1	128.6	203.2	373.2	767.2	875.0	841.8
85°	82.9	87.1	70.5	66.4	91.2	132.7	236.4	472.7	394.0	394.0
87.5°	33.2	29.0	29.0	24.9	45.6	49.8	103.7	87.1	66.4	66.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)