

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: P677369

Luminaire Tested: **CCW-SA-2E-850-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677369  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-850-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) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

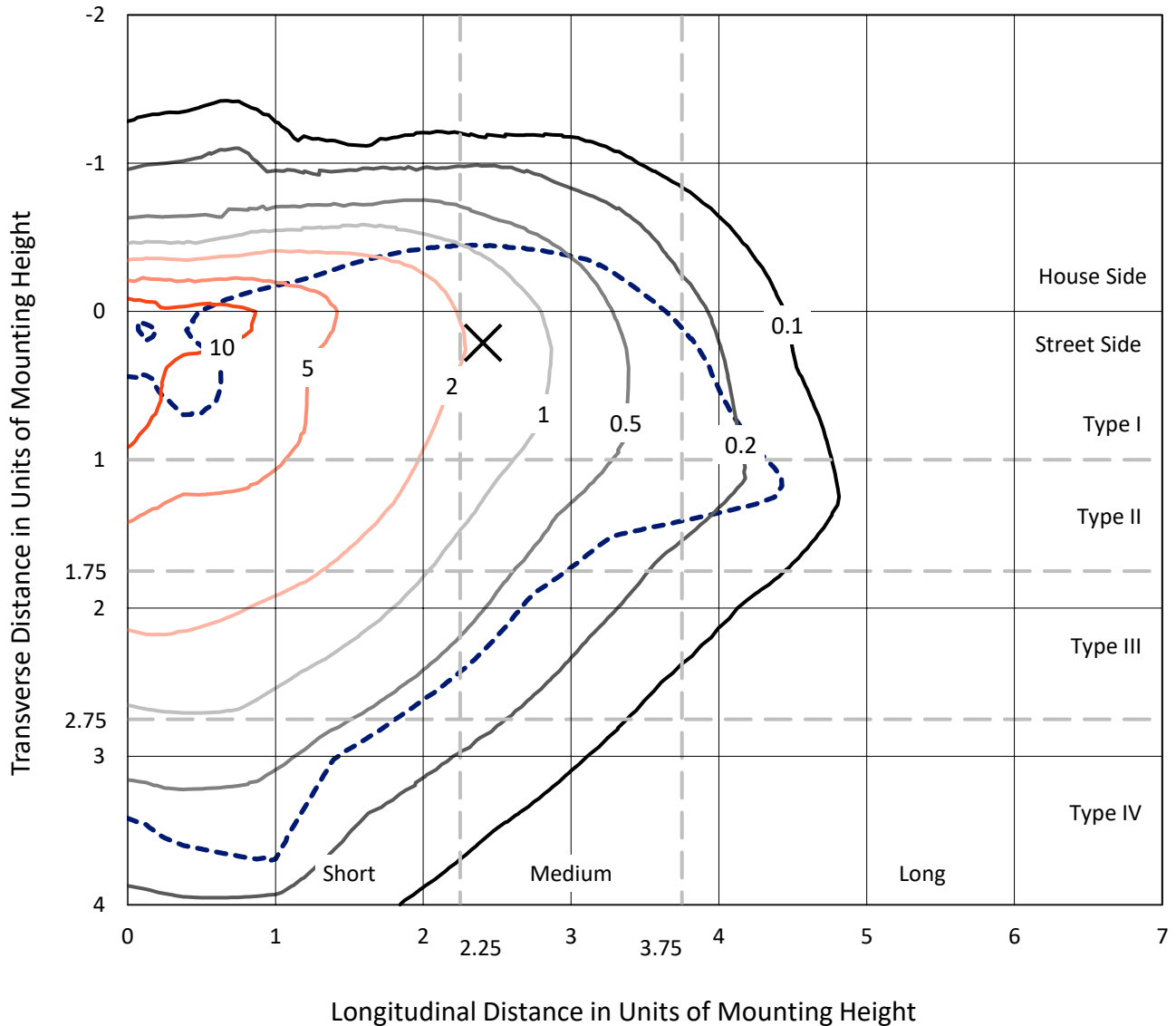
Lumens per Lamp: N/A  
Luminaire Lumens: 8656.5 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

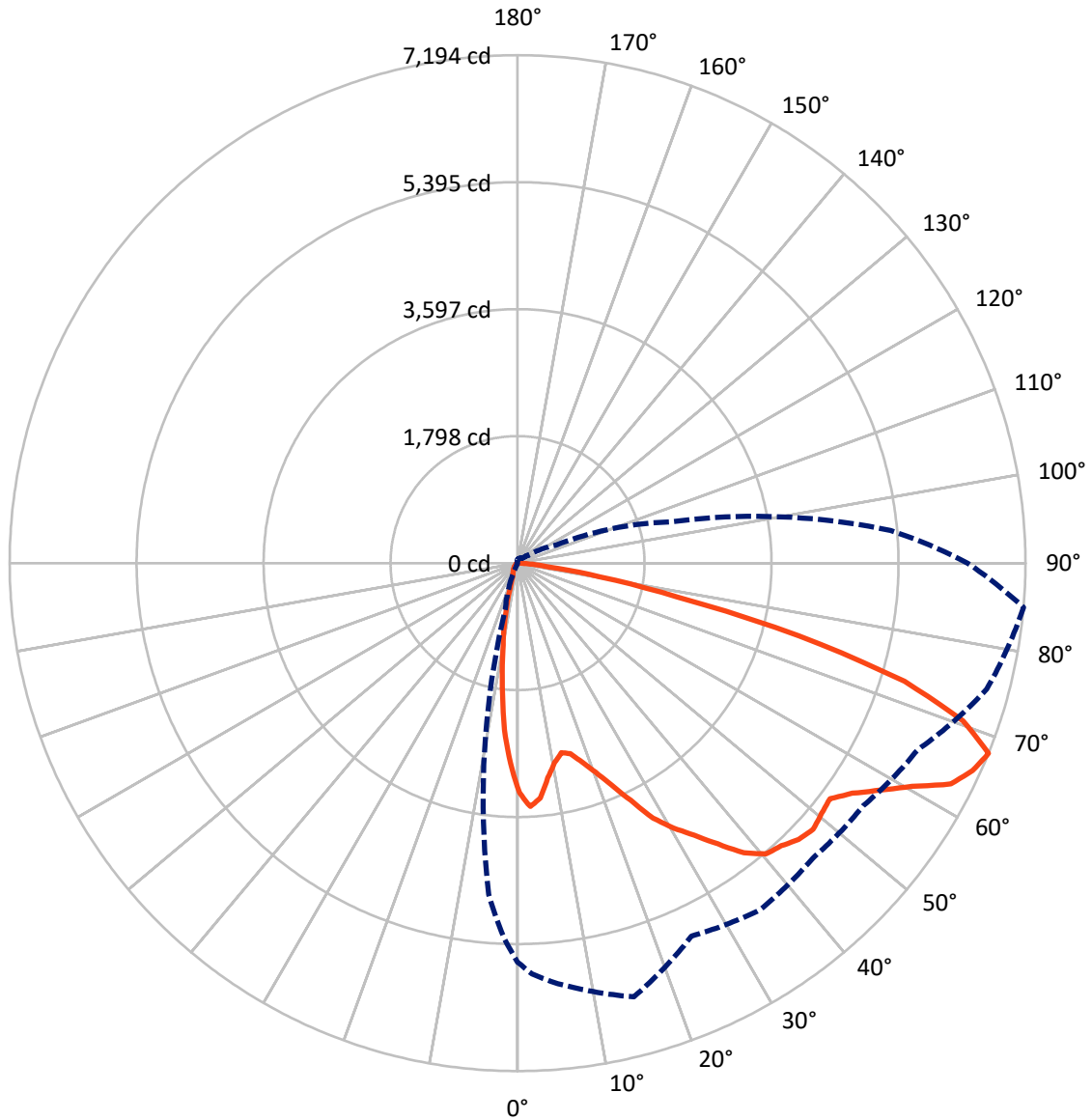
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 16.3 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
<b>House Side</b>	Lumens	1503.1	0.0	1503.1
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	7153.4	0.0	7153.4
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	8656.5	0.0	8656.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.3	2.9
10°-20°	484.9	5.6
20°-30°	671.0	7.8
30°-40°	948.3	11.0
40°-50°	1291.1	14.9
50°-60°	1710.0	19.8
60°-70°	1985.4	22.9
70°-80°	1124.3	13.0
80°-90°	194.3	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°	8656.5	100.0
0°-180°	8656.5	100.0

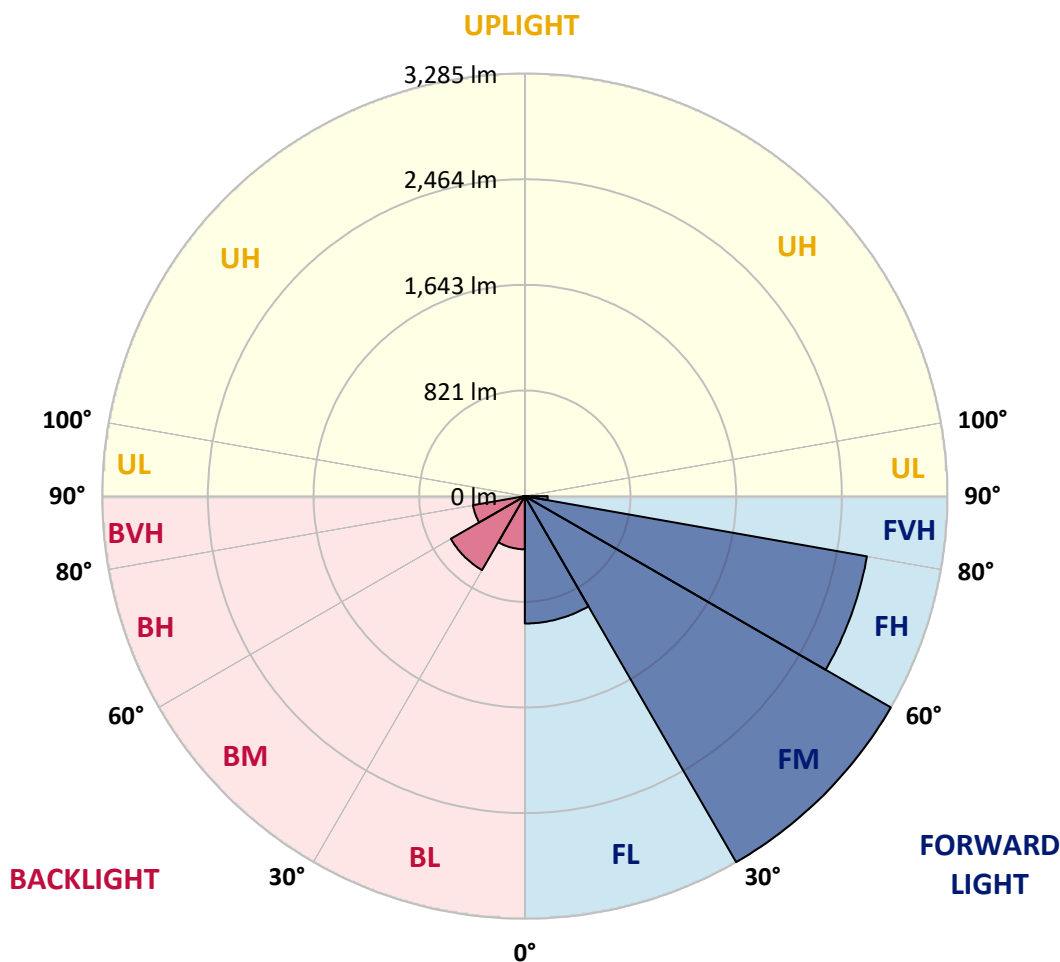


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.9	11.4			
FM (30°-60°)	3285.2	38.0			
FH (60°-80°)	2700.4	31.2			G2/5000
FVH (80°-90°)	177.9	2.1			G2/225
BL (0°-30°)	413.2	4.8	B1/500		
BM (30°-60°)	664.1	7.7	B1/1000		
BH (60°-80°)	409.3	4.7	B1/500		G1/500
BVH (80°-90°)	16.4	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°	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8
2.5°	3381.9	3453.6	3455.9	3488.3	3520.6	3520.6	3596.9	3578.4	3511.4	3499.8	3451.3
5°	3407.3	3432.8	3451.3	3615.4	3754.1	3740.2	3781.8	3754.1	3624.6	3458.2	3344.9
7.5°	3187.7	3215.5	3289.5	3569.2	3756.4	3818.8	3897.4	3724.0	3587.7	3287.1	3069.9
10°	2896.5	2949.6	3086.0	3405.0	3636.2	3835.0	3835.0	3696.3	3432.8	3139.2	2873.4
12.5°	2734.7	2841.0	2915.0	3238.6	3539.1	3675.5	3670.9	3596.9	3425.8	3056.0	2755.5
15°	2762.4	2792.5	2949.6	3201.6	3400.4	3393.5	3476.7	3453.6	3333.4	3130.0	2799.4
17.5°	2889.5	2935.8	3072.2	3201.6	3296.4	3268.7	3266.3	3377.3	3384.2	3254.8	2963.5
20°	3097.6	3234.0	3298.7	3338.0	3222.4	3104.5	3090.7	3245.5	3365.7	3414.3	3160.0
22.5°	3430.5	3520.6	3652.4	3451.3	3150.8	3002.8	2975.1	3146.1	3388.9	3603.8	3414.3
25°	3756.4	3825.8	3952.9	3694.0	3231.7	2982.0	2933.5	3081.4	3476.7	3867.4	3721.7
27.5°	4100.8	4160.9	4174.8	3872.0	3275.6	2940.4	2882.6	3081.4	3550.7	4006.1	4089.3
30°	4311.2	4382.9	4396.7	4029.2	3347.2	2975.1	2947.3	3095.3	3601.5	4124.0	4352.8
32.5°	4547.0	4565.5	4553.9	4056.9	3425.8	3076.8	2961.2	3187.7	3659.3	4265.0	4593.2
35°	4829.0	4861.4	4743.5	4184.1	3601.5	3141.5	3099.9	3301.0	3758.7	4329.7	4884.5
37.5°	5044.0	5145.7	4879.9	4232.6	3636.2	3277.9	3284.8	3536.8	3828.1	4408.3	5205.8
40°	5448.5	5277.5	5111.0	4399.0	3768.0	3509.1	3472.1	3779.5	4061.5	4459.1	5416.2
42.5°	5670.4	5580.3	5201.2	4415.2	3971.4	3828.1	3837.3	4054.6	4184.1	4602.5	5474.0
45°	5725.9	5631.1	5323.7	4426.8	4172.5	4204.9	4364.4	4406.0	4364.4	4697.2	5582.6
47.5°	5866.9	5661.2	5309.8	4581.7	4498.4	4623.3	4826.7	4916.8	4609.4	4662.6	5633.5
50°	5839.2	5721.3	5279.8	4646.4	4896.0	5226.6	5363.0	5326.0	4882.2	4590.9	5578.0
52.5°	5723.6	5596.5	5372.2	4822.1	5268.2	5668.1	5857.7	5765.2	5124.9	4752.7	5541.0
55°	5892.4	5795.3	5492.4	5060.2	5547.9	6056.5	6190.6	6121.2	5423.1	4903.0	5751.3
57.5°	6075.0	6054.2	5818.4	5339.9	5878.5	6456.4	6456.4	6370.9	5682.0	5120.3	6063.4
60°	6338.5	6384.7	6058.8	5524.8	5991.8	6433.3	6768.5	6669.1	5943.2	5501.7	6417.1
62.5°	6253.0	6400.9	6368.6	5922.4	6121.2	6546.5	6729.2	6803.1	6266.8	5966.3	6888.7
65°	5977.9	6135.1	6366.2	6183.6	6024.1	6271.5	6363.9	6588.2	6428.7	6403.2	7082.8
67.5°	5649.6	5820.7	5964.0	6359.3	5827.6	5991.8	5910.9	5982.5	6253.0	6881.7	7193.8
70°	4933.0	5097.2	5323.7	5968.6	5307.5	5159.6	5138.8	5104.1	5524.8	6710.7	6689.9
72.5°	4056.9	4133.2	4507.7	4852.1	3927.5	3899.7	3932.1	3892.8	4380.5	6075.0	5730.5
75°	3037.5	3113.8	3326.4	3726.4	2674.6	2515.1	2700.0	2882.6	3344.9	4715.7	4117.0
77.5°	2283.9	2381.0	2515.1	2787.8	1962.6	1712.9	1738.3	1911.7	2418.0	3777.2	2307.0
80°	1481.8	1470.2	1729.1	1918.7	1477.1	1523.4	1458.6	1585.8	1752.2	2020.4	1178.9
82.5°	855.3	866.9	975.5	1100.3	1028.7	1176.6	848.4	1417.0	1250.6	822.9	439.2
85°	480.8	501.6	601.0	762.8	644.9	432.3	353.7	702.7	786.0	337.5	212.7
87.5°	48.5	41.6	80.9	289.0	175.7	71.7	106.3	168.7	189.6	127.1	62.4
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°	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8
2.5°	3381.9	3381.9	3324.1	3227.0	3187.7	3118.4	3023.6	3053.7	3021.3	2903.4	2873.4
5°	3243.2	3132.3	3012.1	2864.1	2778.6	2602.9	2547.4	2448.0	2464.2	2364.8	2369.4
7.5°	2954.3	2866.4	2663.0	2468.8	2300.1	2147.5	1932.5	1851.6	1773.0	1733.7	1780.0
10°	2785.5	2621.4	2344.0	2089.7	1865.5	1729.1	1585.8	1474.8	1373.1	1296.8	1280.6
12.5°	2663.0	2517.4	2182.2	1872.4	1696.7	1585.8	1454.0	1301.5	1202.1	1070.3	1031.0
15°	2626.0	2448.0	2094.3	1786.9	1615.8	1433.2	1283.0	1132.7	1003.2	864.6	816.0
17.5°	2753.2	2547.4	2092.0	1717.5	1477.1	1280.6	1072.6	903.8	772.1	644.9	614.9
20°	2968.1	2653.8	2159.1	1675.9	1345.4	1081.8	846.1	677.3	529.4	446.1	425.3
22.5°	3213.2	2834.1	2166.0	1565.0	1213.6	883.0	617.2	446.1	362.9	323.6	312.1
25°	3513.7	3123.0	2249.2	1474.8	1058.7	670.4	439.2	342.1	293.6	270.5	265.8
27.5°	3761.0	3324.1	2339.4	1380.0	906.2	497.0	344.4	279.7	254.3	231.2	228.9
30°	4017.6	3555.3	2364.8	1322.3	774.4	409.2	295.9	247.3	219.6	208.0	205.7
32.5°	4241.8	3807.3	2445.7	1227.5	649.6	360.6	268.1	221.9	203.4	184.9	182.6
35°	4530.8	3952.9	2485.0	1176.6	603.3	325.9	245.0	203.4	175.7	164.1	159.5
37.5°	4840.6	4093.9	2510.4	1137.3	564.0	305.1	231.2	191.9	166.4	150.3	145.6
40°	5129.5	4292.7	2473.4	1088.8	534.0	279.7	221.9	178.0	154.9	138.7	131.8
42.5°	5351.4	4486.9	2461.9	1042.5	501.6	270.5	210.4	171.1	145.6	127.1	124.8
45°	5476.3	4618.6	2381.0	1005.6	476.2	275.1	205.7	161.8	138.7	122.5	113.3
47.5°	5446.2	4720.4	2401.8	994.0	441.5	256.6	203.4	154.9	127.1	113.3	106.3
50°	5612.6	4926.1	2367.1	957.0	416.1	231.2	221.9	154.9	124.8	108.6	101.7
52.5°	5640.4	5113.3	2441.1	890.0	376.8	212.7	219.6	152.6	120.2	104.0	94.8
55°	5871.6	5330.6	2584.4	853.0	344.4	184.9	201.1	147.9	108.6	94.8	90.2
57.5°	6185.9	5781.4	2676.9	818.3	300.5	161.8	168.7	145.6	99.4	87.8	80.9
60°	6488.8	5961.7	2683.8	755.9	258.9	145.6	131.8	145.6	92.5	78.6	71.7
62.5°	6715.3	5961.7	2637.6	702.7	226.5	129.5	115.6	138.7	83.2	69.3	64.7
65°	6592.8	5802.2	2517.4	658.8	205.7	113.3	99.4	106.3	74.0	60.1	55.5
67.5°	6373.2	5305.2	2251.5	605.6	203.4	99.4	85.5	78.6	64.7	53.2	48.5
70°	6021.8	4634.8	1874.7	545.5	198.8	90.2	76.3	67.0	57.8	46.2	41.6
72.5°	4852.1	3828.1	1539.5	510.9	194.2	78.6	64.7	57.8	48.5	39.3	34.7
75°	3361.1	2445.7	1185.9	436.9	189.6	71.7	60.1	50.9	41.6	32.4	30.1
77.5°	2015.7	1634.3	765.2	328.3	124.8	57.8	50.9	39.3	34.7	27.7	25.4
80°	943.1	772.1	309.8	127.1	60.1	41.6	34.7	30.1	27.7	23.1	20.8
82.5°	369.9	325.9	150.3	74.0	48.5	32.4	27.7	25.4	23.1	18.5	16.2
85°	198.8	175.7	71.7	50.9	34.7	23.1	23.1	20.8	18.5	16.2	13.9
87.5°	43.9	32.4	30.1	30.1	25.4	18.5	18.5	16.2	13.9	11.6	9.2
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°	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8
2.5°	2857.2	2891.9	2836.4	2871.1	2822.5	2859.5	2864.1	2829.4	2838.7	2884.9	2905.7
5°	2434.2	2411.0	2360.2	2344.0	2346.3	2316.3	2327.8	2344.0	2369.4	2383.3	2424.9
7.5°	1754.5	1807.7	1805.4	1844.7	1847.0	1842.4	1810.0	1740.7	1763.8	1745.3	1768.4
10°	1255.2	1278.3	1322.3	1347.7	1393.9	1368.5	1294.5	1266.8	1252.9	1250.6	1273.7
12.5°	1003.2	947.8	943.1	952.4	975.5	945.5	908.5	876.1	892.3	924.7	950.1
15°	776.7	730.5	670.4	661.1	665.8	651.9	612.6	571.0	582.5	614.9	633.4
17.5°	596.4	543.2	501.6	473.9	464.6	416.1	358.3	323.6	314.4	312.1	328.3
20°	402.2	393.0	386.0	351.4	351.4	282.0	233.5	208.0	208.0	212.7	215.0
22.5°	300.5	289.0	291.3	284.3	265.8	210.4	184.9	178.0	178.0	182.6	182.6
25°	261.2	245.0	240.4	238.1	219.6	180.3	161.8	154.9	154.9	159.5	159.5
27.5°	221.9	217.3	210.4	201.1	184.9	154.9	143.3	136.4	138.7	141.0	138.7
30°	203.4	191.9	182.6	182.6	164.1	138.7	129.5	124.8	120.2	124.8	127.1
32.5°	180.3	173.4	168.7	161.8	141.0	122.5	113.3	108.6	106.3	106.3	108.6
35°	154.9	154.9	150.3	141.0	122.5	111.0	99.4	94.8	92.5	94.8	94.8
37.5°	138.7	131.8	134.1	124.8	108.6	97.1	85.5	80.9	80.9	78.6	80.9
40°	129.5	117.9	111.0	106.3	97.1	83.2	74.0	69.3	67.0	67.0	67.0
42.5°	115.6	106.3	92.5	90.2	87.8	71.7	60.1	57.8	55.5	53.2	53.2
45°	108.6	94.8	83.2	71.7	71.7	60.1	50.9	46.2	43.9	41.6	43.9
47.5°	99.4	85.5	71.7	60.1	57.8	48.5	39.3	34.7	32.4	32.4	32.4
50°	94.8	76.3	62.4	50.9	43.9	39.3	30.1	25.4	23.1	23.1	23.1
52.5°	87.8	71.7	55.5	43.9	34.7	30.1	23.1	18.5	16.2	16.2	16.2
55°	78.6	64.7	48.5	37.0	30.1	23.1	16.2	11.6	9.2	9.2	9.2
57.5°	74.0	57.8	41.6	32.4	23.1	16.2	9.2	6.9	6.9	4.6	6.9
60°	67.0	50.9	34.7	25.4	18.5	11.6	6.9	2.3	2.3	2.3	2.3
62.5°	57.8	43.9	30.1	20.8	13.9	6.9	2.3	0.0	0.0	0.0	0.0
65°	48.5	34.7	23.1	16.2	9.2	2.3	0.0	0.0	0.0	0.0	0.0
67.5°	41.6	30.1	18.5	11.6	6.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	37.0	25.4	13.9	9.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	30.1	20.8	11.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	25.4	16.2	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	20.8	11.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.2	9.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	2.3	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°	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8	3254.8
2.5°	2935.8	2921.9	2991.3	3104.5	3162.3	3275.6	3303.3	3375.0	3356.5	3381.9
5°	2429.5	2457.3	2559.0	2725.4	2785.5	2949.6	3104.5	3259.4	3358.8	3407.3
7.5°	1803.1	1895.5	2020.4	2172.9	2327.8	2542.8	2806.3	2986.6	3083.7	3187.7
10°	1343.1	1442.5	1585.8	1736.0	1988.0	2228.4	2491.9	2716.2	2799.4	2896.5
12.5°	1056.4	1211.3	1377.7	1539.5	1689.8	1918.7	2244.6	2570.5	2660.7	2734.7
15°	735.1	924.7	1162.8	1373.1	1583.5	1782.3	2119.8	2515.1	2637.6	2762.4
17.5°	406.8	557.1	829.9	1125.8	1435.5	1740.7	2161.4	2616.8	2801.7	2889.5
20°	235.8	295.9	490.1	841.4	1250.6	1650.5	2182.2	2808.6	3053.7	3097.6
22.5°	194.2	215.0	277.4	527.1	1024.1	1592.7	2288.5	3076.8	3326.4	3430.5
25°	166.4	182.6	215.0	316.7	774.4	1470.2	2355.6	3412.0	3643.1	3756.4
27.5°	147.9	164.1	189.6	233.5	527.1	1301.5	2466.5	3714.8	3946.0	4100.8
30°	129.5	143.3	168.7	198.8	365.2	1111.9	2561.3	3936.7	4262.7	4311.2
32.5°	115.6	127.1	145.6	171.1	270.5	843.7	2637.6	4165.6	4440.7	4547.0
35°	99.4	113.3	124.8	145.6	205.7	635.7	2591.3	4343.6	4701.9	4829.0
37.5°	87.8	97.1	108.6	122.5	173.4	497.0	2496.6	4556.2	4926.1	5044.0
40°	74.0	80.9	94.8	108.6	157.2	383.7	2387.9	4812.8	5240.5	5448.5
42.5°	62.4	69.3	78.6	101.7	129.5	284.3	2168.3	5011.6	5494.8	5670.4
45°	48.5	57.8	71.7	101.7	104.0	210.4	1941.8	5159.6	5638.1	5725.9
47.5°	37.0	46.2	69.3	87.8	83.2	145.6	1673.6	5328.3	5786.0	5866.9
50°	27.7	37.0	78.6	76.3	69.3	111.0	1504.9	5446.2	5795.3	5839.2
52.5°	18.5	27.7	64.7	57.8	57.8	97.1	1458.6	5441.6	5818.4	5723.6
55°	13.9	20.8	37.0	41.6	50.9	85.5	1417.0	5615.0	5825.3	5892.4
57.5°	9.2	16.2	25.4	32.4	43.9	74.0	1331.5	5823.0	6040.3	6075.0
60°	4.6	11.6	18.5	25.4	37.0	64.7	1211.3	5975.6	6301.5	6338.5
62.5°	2.3	6.9	13.9	20.8	30.1	50.9	1086.5	5732.9	6188.2	6253.0
65°	0.0	4.6	9.2	13.9	18.5	37.0	883.0	5175.8	5739.8	5977.9
67.5°	0.0	0.0	4.6	9.2	11.6	27.7	665.8	4708.8	5326.0	5649.6
70°	0.0	0.0	2.3	2.3	6.9	20.8	425.3	3899.7	4755.0	4933.0
72.5°	0.0	0.0	0.0	0.0	2.3	13.9	247.3	2896.5	3726.4	4056.9
75°	0.0	0.0	0.0	0.0	0.0	11.6	124.8	1863.2	2593.7	3037.5
77.5°	0.0	0.0	0.0	0.0	0.0	9.2	67.0	1202.1	1911.7	2283.9
80°	0.0	0.0	0.0	0.0	0.0	2.3	39.3	698.1	1222.9	1481.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	16.2	342.1	730.5	855.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.6	182.6	365.2	480.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	25.4	48.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)