

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: P671676

Luminaire Tested: **CCP-SA-2D-735-U-SLL**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671676  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-735-U-SLL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ SLL distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

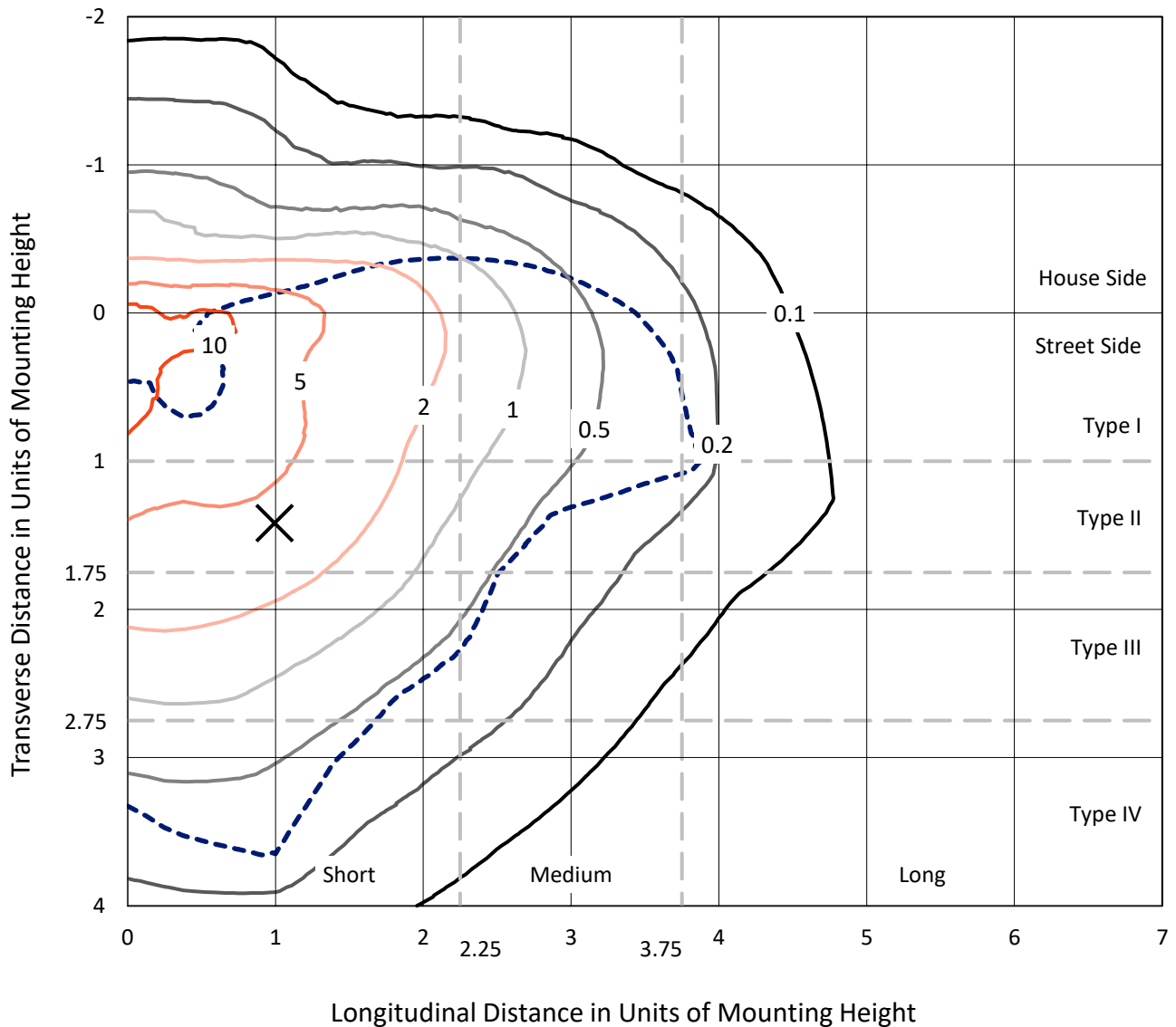
Lumens per Lamp: N/A  
Luminaire Lumens: 9127 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

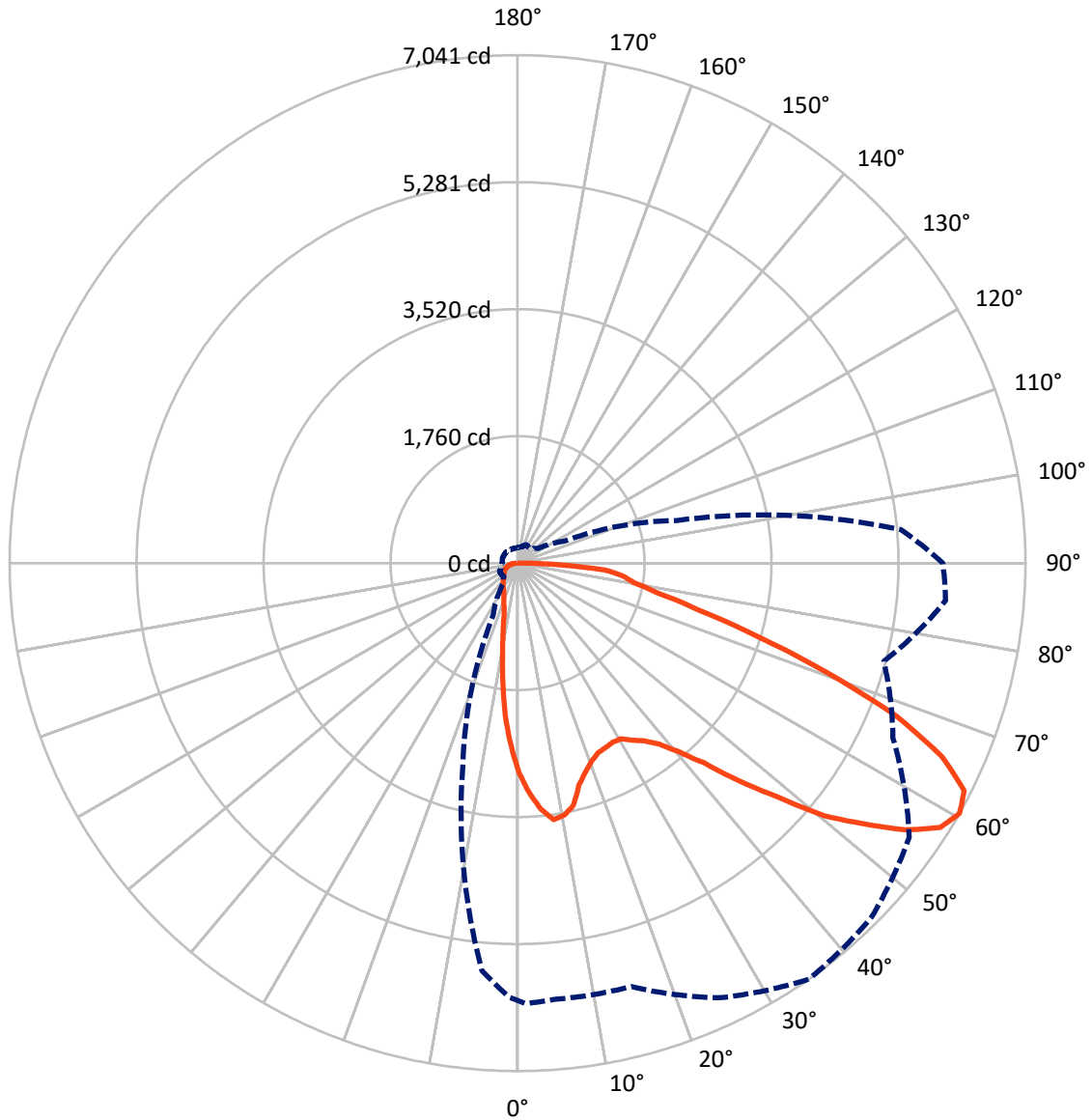
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 14.8 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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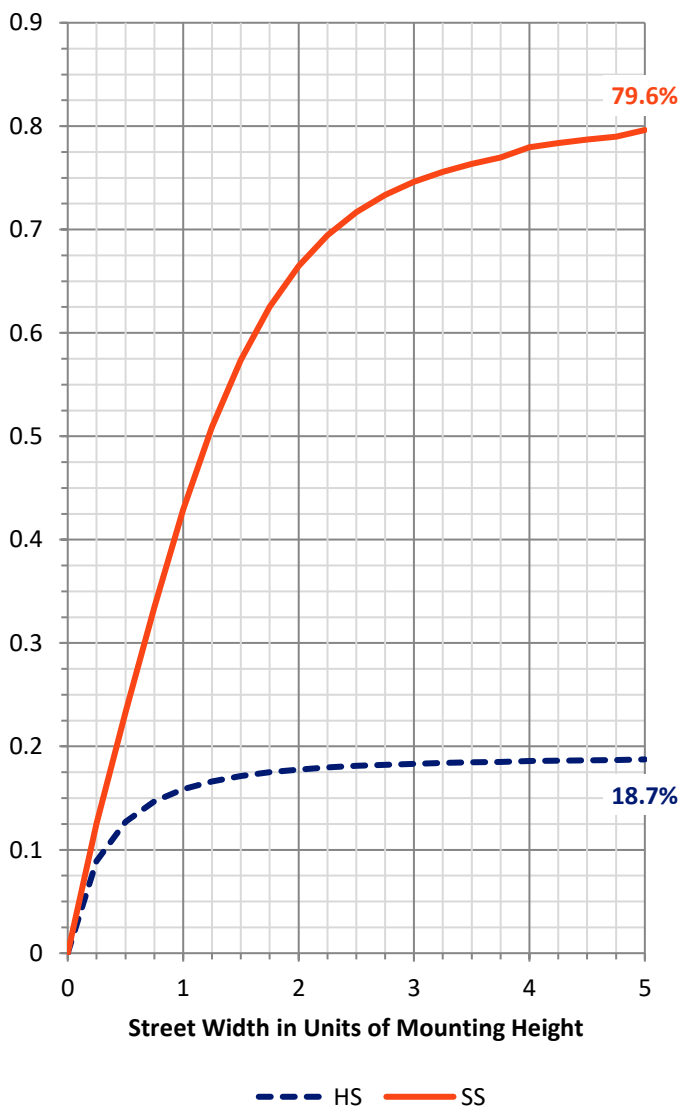
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1737.0	0.0	1737.0
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	7390.0	0.0	7390.0
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	9127.0	0.0	9127.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.5	2.5
10°-20°	478.1	5.2
20°-30°	699.6	7.7
30°-40°	985.7	10.8
40°-50°	1354.6	14.8
50°-60°	1846.2	20.2
60°-70°	2020.5	22.1
70°-80°	1166.5	12.8
80°-90°	349.3	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°	9127.0	100.0
0°-180°	9127.0	100.0



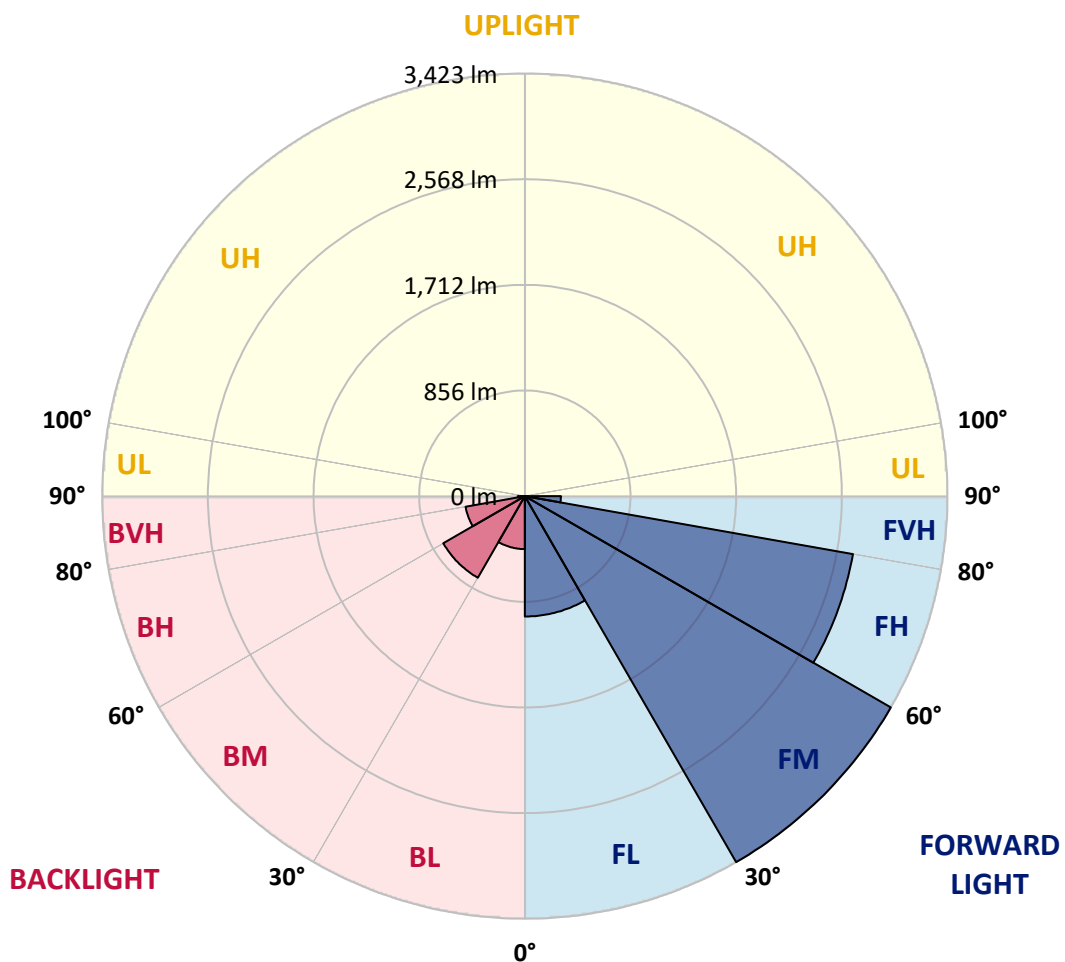
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	975.0	10.7			
FM (30°-60°)	3423.4	37.5			
FH (60°-80°)	2699.2	29.6			G2/5000
FVH (80°-90°)	292.4	3.2			G3/500
BL (0°-30°)	429.1	4.7	B1/500		
BM (30°-60°)	763.0	8.4	B1/1000		
BH (60°-80°)	487.9	5.3	B1/500		G1/500
BVH (80°-90°)	56.9	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°	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1
2.5°	3121.6	3109.4	3121.6	3166.1	3178.3	3198.5	3198.5	3170.2	3117.5	3093.3	3052.8
5°	3190.4	3170.2	3271.4	3364.5	3437.4	3429.3	3360.5	3303.8	3198.5	3040.6	2890.8
7.5°	3052.8	3073.0	3145.9	3388.8	3558.9	3591.2	3481.9	3368.6	3141.8	2923.2	2720.8
10°	2793.6	2822.0	2979.9	3230.9	3498.1	3550.8	3481.9	3344.3	3073.0	2801.7	2566.9
12.5°	2668.1	2732.9	2826.0	3129.7	3320.0	3445.5	3413.1	3324.0	3020.4	2700.5	2473.8
15°	2668.1	2684.3	2822.0	3077.1	3186.4	3190.4	3202.6	3218.8	3036.6	2745.1	2441.4
17.5°	2753.2	2797.7	2915.1	3073.0	3093.3	3044.7	3044.7	3113.5	3069.0	2870.6	2558.8
20°	2959.6	2943.4	3097.3	3162.1	3052.8	2931.3	2919.2	3036.6	3105.4	3004.2	2773.4
22.5°	3166.1	3239.0	3364.5	3218.8	3016.3	2854.4	2838.2	2983.9	3214.7	3235.0	3020.4
25°	3477.9	3550.8	3615.5	3437.4	3012.3	2834.1	2846.3	2959.6	3348.3	3562.9	3433.3
27.5°	3813.9	3858.5	3951.6	3676.3	3109.4	2809.8	2822.0	2992.0	3473.8	3777.5	3757.2
30°	4004.2	4052.8	4032.6	3720.8	3174.2	2826.0	2793.6	3036.6	3405.0	3777.5	3967.8
32.5°	4190.5	4162.1	4150.0	3793.7	3255.2	2927.3	2846.3	3129.7	3445.5	3838.2	4239.0
35°	4417.2	4376.7	4344.3	3935.4	3388.8	3024.4	2988.0	3251.2	3534.6	3963.7	4457.7
37.5°	4668.2	4668.2	4510.3	4040.7	3546.7	3182.3	3141.8	3425.2	3676.3	4040.7	4757.3
40°	4963.8	4975.9	4696.6	4182.4	3724.9	3433.3	3421.2	3652.0	3813.9	4154.0	5044.8
42.5°	5182.4	5190.5	4858.5	4235.0	3931.3	3781.5	3834.2	4016.4	3971.8	4255.2	5065.0
45°	5332.2	5291.7	4971.9	4384.8	4158.1	4303.8	4320.0	4372.7	4178.3	4316.0	5146.0
47.5°	5405.1	5397.0	5020.5	4558.9	4635.8	4834.2	4927.3	4854.5	4368.6	4251.2	5146.0
50°	5478.0	5409.1	5065.0	4797.8	5101.4	5502.3	5482.0	5348.4	4631.8	4332.2	5069.0
52.5°	5526.6	5465.8	5154.1	5012.4	5546.8	6000.3	6081.2	5834.3	4939.5	4482.0	5105.5
55°	5700.7	5652.1	5421.3	5303.9	6061.0	6526.6	6538.7	6194.6	5263.4	4728.9	5344.4
57.5°	5911.2	5939.5	5789.7	5716.8	6453.7	6911.2	6866.7	6461.8	5538.7	5028.6	5619.7
60°	6061.0	6105.5	6069.1	6077.2	6648.1	7040.8	6939.6	6627.8	5741.1	5255.3	5955.7
62.5°	5980.0	6069.1	6218.9	6186.5	6656.2	6947.7	6806.0	6409.2	5765.4	5550.8	6210.8
65°	5757.3	5765.4	6056.9	6235.1	6291.8	6465.9	6279.6	5951.7	5514.4	5733.0	6174.4
67.5°	5186.5	5251.2	5514.4	5862.6	5623.7	5664.2	5648.0	5174.3	5133.8	5607.5	5895.0
70°	4579.1	4623.7	4911.1	5320.1	4749.2	4558.9	4595.3	4243.1	4409.1	5218.8	5332.2
72.5°	3785.6	3813.9	4141.9	4502.2	3809.9	3469.8	3554.8	3267.3	3502.2	4567.0	4498.2
75°	2858.4	2911.1	3166.1	3591.2	2805.8	2587.2	2672.2	2554.8	2773.4	3761.3	3490.0
77.5°	2032.5	1992.0	2307.8	2809.8	2109.4	1979.8	1987.9	2008.2	2243.0	3170.2	2506.2
80°	1384.7	1396.8	1680.2	2060.8	1655.9	1635.7	1615.5	1777.4	1882.7	2510.2	1821.9
82.5°	821.9	821.9	1133.7	1465.7	1307.7	1473.7	1380.6	1526.4	1473.7	1846.2	1194.4
85°	384.6	384.6	583.0	1056.7	1012.2	1214.6	1032.4	1153.9	1089.1	1287.5	538.5
87.5°	64.8	56.7	117.4	518.2	417.0	473.7	186.2	615.4	684.2	898.8	133.6
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°	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1
2.5°	3008.2	2979.9	2923.2	2850.3	2789.6	2712.7	2688.4	2635.7	2562.9	2554.8	2522.4
5°	2834.1	2737.0	2615.5	2465.7	2364.5	2259.2	2170.1	2117.5	2056.8	2048.7	2032.5
7.5°	2643.8	2522.4	2319.9	2141.8	1967.7	1801.7	1720.7	1619.5	1550.7	1498.0	1473.7
10°	2465.7	2352.3	2101.3	1858.4	1704.5	1595.2	1498.0	1392.8	1307.7	1243.0	1218.7
12.5°	2348.3	2214.7	1943.4	1712.6	1599.3	1473.7	1364.4	1251.1	1141.7	1056.7	1012.2
15°	2295.6	2170.1	1894.8	1639.7	1473.7	1299.7	1174.1	1060.8	927.2	866.4	846.2
17.5°	2421.2	2234.9	1878.6	1554.7	1319.9	1121.5	967.7	846.2	749.0	688.3	664.0
20°	2583.1	2352.3	1907.0	1453.5	1174.1	951.5	781.4	651.9	587.1	542.5	538.5
22.5°	2789.6	2526.4	1951.5	1380.6	1012.2	765.2	611.4	534.4	489.9	485.9	477.8
25°	3158.0	2842.2	2024.4	1283.5	882.6	631.6	522.3	477.8	457.5	445.4	453.5
27.5°	3473.8	3048.7	2077.0	1222.7	830.0	595.2	506.1	457.5	437.3	433.2	437.3
30°	3660.1	3239.0	2060.8	1109.4	724.7	566.8	538.5	522.3	481.8	449.4	449.4
32.5°	3830.1	3360.5	2056.8	1008.1	619.5	473.7	449.4	437.3	461.6	477.8	465.6
35°	4065.0	3550.8	2044.6	951.5	574.9	437.3	396.8	364.4	348.2	340.1	352.2
37.5°	4316.0	3680.3	2012.2	943.4	550.6	417.0	384.6	352.2	336.0	327.9	323.9
40°	4591.3	3818.0	1975.8	902.9	538.5	404.9	372.5	344.1	323.9	311.8	307.7
42.5°	4769.4	3927.3	1939.4	882.6	514.2	396.8	360.3	336.0	315.8	299.6	299.6
45°	4870.7	4056.9	1902.9	862.4	485.9	400.8	360.3	327.9	303.7	295.6	287.5
47.5°	4915.2	4154.0	1890.8	830.0	461.6	384.6	352.2	319.9	295.6	279.4	275.3
50°	5032.6	4360.5	1935.3	805.7	433.2	368.4	372.5	315.8	291.5	271.3	267.2
52.5°	5101.4	4526.5	2032.5	769.3	413.0	348.2	364.4	307.7	279.4	259.1	259.1
55°	5352.5	4801.8	2137.7	740.9	388.7	319.9	336.0	291.5	259.1	247.0	247.0
57.5°	5672.3	5093.3	2226.8	728.8	372.5	299.6	299.6	283.4	247.0	230.8	226.7
60°	5895.0	5332.2	2279.5	720.7	356.3	279.4	267.2	283.4	234.8	218.6	214.6
62.5°	5919.3	5194.6	2226.8	716.6	352.2	259.1	242.9	271.3	222.7	206.5	198.4
65°	5765.4	4915.2	2081.1	700.4	348.2	238.9	226.7	234.8	206.5	194.3	186.2
67.5°	5457.7	4461.7	1870.5	692.3	344.1	222.7	206.5	202.4	190.3	178.1	170.0
70°	4741.1	3870.6	1623.6	655.9	336.0	210.5	186.2	182.2	170.0	162.0	157.9
72.5°	3979.9	3166.1	1340.1	607.3	319.9	190.3	170.0	162.0	157.9	145.8	141.7
75°	3048.7	2437.4	1072.9	538.5	279.4	170.0	149.8	141.7	137.7	129.6	125.5
77.5°	2141.8	1813.8	793.6	437.3	234.8	153.9	133.6	125.5	121.5	109.3	109.3
80°	1453.5	1271.3	538.5	303.7	182.2	125.5	117.4	109.3	101.2	93.1	93.1
82.5°	902.9	890.7	388.7	198.4	133.6	101.2	93.1	93.1	81.0	72.9	72.9
85°	413.0	546.6	271.3	137.7	101.2	76.9	76.9	72.9	64.8	52.6	52.6
87.5°	129.6	182.2	141.7	60.7	56.7	44.5	44.5	40.5	40.5	32.4	32.4
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1
2.5°	2554.8	2550.7	2550.7	2534.5	2575.0	2575.0	2599.3	2579.1	2591.2	2595.3	2627.6
5°	2028.4	2060.8	2085.1	2133.7	2162.0	2174.2	2174.2	2206.6	2194.4	2218.7	2267.3
7.5°	1485.9	1526.4	1599.3	1660.0	1708.6	1724.8	1720.7	1728.8	1741.0	1712.6	1720.7
10°	1202.5	1174.1	1198.4	1255.1	1299.7	1352.3	1311.8	1307.7	1319.9	1307.7	1332.0
12.5°	1004.1	971.7	951.5	951.5	983.8	1008.1	996.0	1016.2	1060.8	1072.9	1101.3
15°	813.8	785.5	769.3	749.0	781.4	789.5	801.7	830.0	862.4	878.6	911.0
17.5°	651.9	651.9	651.9	635.7	647.8	659.9	664.0	700.4	704.5	720.7	732.8
20°	534.4	546.6	566.8	574.9	587.1	587.1	579.0	599.2	583.0	595.2	603.3
22.5°	481.8	498.0	506.1	510.1	526.3	530.4	510.1	514.2	518.2	506.1	510.1
25°	453.5	461.6	453.5	457.5	461.6	453.5	457.5	465.6	461.6	469.7	465.6
27.5°	441.3	433.2	429.2	425.1	425.1	417.0	421.1	421.1	429.2	433.2	433.2
30°	441.3	429.2	413.0	400.8	400.8	388.7	396.8	404.9	408.9	417.0	417.0
32.5°	453.5	429.2	400.8	388.7	376.5	368.4	376.5	388.7	404.9	408.9	413.0
35°	360.3	372.5	368.4	352.2	348.2	348.2	344.1	344.1	332.0	332.0	327.9
37.5°	323.9	319.9	327.9	332.0	336.0	323.9	323.9	307.7	303.7	307.7	307.7
40°	303.7	303.7	303.7	315.8	319.9	311.8	299.6	291.5	291.5	291.5	295.6
42.5°	295.6	287.5	283.4	291.5	303.7	295.6	283.4	279.4	279.4	283.4	283.4
45°	283.4	279.4	275.3	271.3	287.5	275.3	271.3	267.2	267.2	267.2	271.3
47.5°	271.3	267.2	259.1	259.1	263.2	259.1	255.1	255.1	255.1	263.2	263.2
50°	263.2	259.1	251.0	251.0	251.0	251.0	247.0	247.0	247.0	251.0	255.1
52.5°	251.0	247.0	242.9	238.9	238.9	238.9	238.9	238.9	238.9	242.9	247.0
55°	238.9	234.8	230.8	230.8	234.8	234.8	230.8	234.8	230.8	234.8	238.9
57.5°	226.7	222.7	218.6	222.7	226.7	222.7	222.7	222.7	222.7	222.7	226.7
60°	210.5	210.5	210.5	210.5	218.6	218.6	218.6	218.6	210.5	214.6	218.6
62.5°	202.4	198.4	198.4	202.4	206.5	206.5	210.5	206.5	202.4	206.5	206.5
65°	186.2	186.2	186.2	190.3	190.3	194.3	194.3	194.3	190.3	194.3	194.3
67.5°	174.1	174.1	174.1	174.1	182.2	182.2	182.2	182.2	178.1	178.1	182.2
70°	153.9	157.9	153.9	162.0	170.0	166.0	170.0	170.0	166.0	162.0	170.0
72.5°	141.7	141.7	141.7	141.7	153.9	153.9	153.9	157.9	153.9	149.8	153.9
75°	125.5	125.5	125.5	129.6	137.7	137.7	137.7	137.7	137.7	133.6	133.6
77.5°	109.3	113.4	109.3	113.4	121.5	117.4	121.5	125.5	121.5	117.4	117.4
80°	93.1	93.1	93.1	97.2	101.2	101.2	101.2	105.3	101.2	97.2	97.2
82.5°	72.9	72.9	76.9	76.9	81.0	81.0	81.0	85.0	81.0	76.9	76.9
85°	56.7	56.7	56.7	60.7	60.7	64.8	64.8	68.8	68.8	64.8	64.8
87.5°	36.4	32.4	36.4	36.4	40.5	40.5	36.4	32.4	36.4	32.4	28.3
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°	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1	2915.1
2.5°	2660.0	2732.9	2785.5	2822.0	2874.6	2975.8	3016.3	3089.2	3109.4	3121.6
5°	2287.5	2364.5	2477.8	2558.8	2651.9	2842.2	2988.0	3097.3	3145.9	3190.4
7.5°	1793.6	1894.8	2012.2	2117.5	2271.4	2506.2	2696.5	2923.2	3008.2	3052.8
10°	1400.9	1494.0	1623.6	1753.1	1967.7	2166.1	2437.4	2643.8	2761.3	2793.6
12.5°	1182.2	1291.6	1445.4	1603.3	1736.9	1963.6	2239.0	2538.6	2647.9	2668.1
15°	1004.1	1153.9	1311.8	1473.7	1627.6	1826.0	2121.5	2485.9	2647.9	2668.1
17.5°	830.0	963.6	1149.8	1323.9	1502.1	1773.4	2141.8	2530.5	2692.4	2753.2
20°	659.9	789.5	935.3	1153.9	1396.8	1684.3	2186.3	2680.3	2894.9	2959.6
22.5°	546.6	603.3	745.0	955.5	1243.0	1623.6	2230.9	2915.1	3141.8	3166.1
25°	477.8	518.2	607.3	805.7	1121.5	1583.1	2336.1	3186.4	3477.9	3477.9
27.5°	445.4	461.6	522.3	700.4	1036.5	1546.6	2441.4	3486.0	3757.2	3813.9
30°	437.3	477.8	510.1	623.5	943.4	1445.4	2538.6	3720.8	4000.2	4004.2
32.5°	429.2	421.1	445.4	542.5	830.0	1340.1	2619.5	3959.7	4178.3	4190.5
35°	336.0	352.2	392.7	477.8	745.0	1263.2	2660.0	4089.2	4405.0	4417.2
37.5°	315.8	336.0	368.4	441.3	688.3	1198.4	2672.2	4340.3	4643.9	4668.2
40°	307.7	323.9	348.2	408.9	643.8	1117.5	2696.5	4599.4	4996.2	4963.8
42.5°	291.5	311.8	336.0	392.7	607.3	1056.7	2700.5	4741.1	5182.4	5182.4
45°	287.5	299.6	327.9	392.7	566.8	1004.1	2635.7	4882.8	5397.0	5332.2
47.5°	271.3	295.6	319.9	380.6	518.2	951.5	2558.8	4955.7	5425.3	5405.1
50°	267.2	291.5	332.0	360.3	489.9	927.2	2542.6	5137.9	5482.0	5478.0
52.5°	259.1	283.4	344.1	344.1	453.5	894.8	2619.5	5218.8	5494.2	5526.6
55°	247.0	283.4	319.9	315.8	421.1	854.3	2704.6	5429.4	5708.7	5700.7
57.5°	238.9	275.3	303.7	287.5	384.6	825.9	2830.1	5631.8	5967.9	5911.2
60°	226.7	275.3	271.3	267.2	356.3	801.7	2935.3	5672.3	6024.6	6061.0
62.5°	218.6	287.5	238.9	247.0	332.0	789.5	2890.8	5368.7	5947.6	5980.0
65°	210.5	247.0	218.6	226.7	323.9	765.2	2716.7	5004.3	5615.6	5757.3
67.5°	194.3	202.4	202.4	210.5	315.8	708.5	2360.4	4348.4	5109.5	5186.5
70°	178.1	182.2	182.2	194.3	307.7	643.8	1947.5	3761.3	4433.4	4579.1
72.5°	162.0	162.0	162.0	178.1	283.4	591.1	1603.3	2890.8	3684.4	3785.6
75°	141.7	141.7	141.7	157.9	255.1	538.5	1263.2	2149.9	2712.7	2858.4
77.5°	125.5	125.5	121.5	141.7	222.7	437.3	911.0	1518.3	1911.0	2032.5
80°	105.3	101.2	101.2	113.4	174.1	315.8	587.1	1072.9	1332.0	1384.7
82.5°	85.0	81.0	76.9	85.0	125.5	198.4	364.4	749.0	854.3	821.9
85°	81.0	85.0	68.8	64.8	89.1	129.6	230.8	461.6	384.6	384.6
87.5°	32.4	28.3	28.3	24.3	44.5	48.6	101.2	85.0	64.8	64.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)