

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: P677425

Luminaire Tested: **CCW-SA-2E-735-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677425  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-735-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
SLR distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

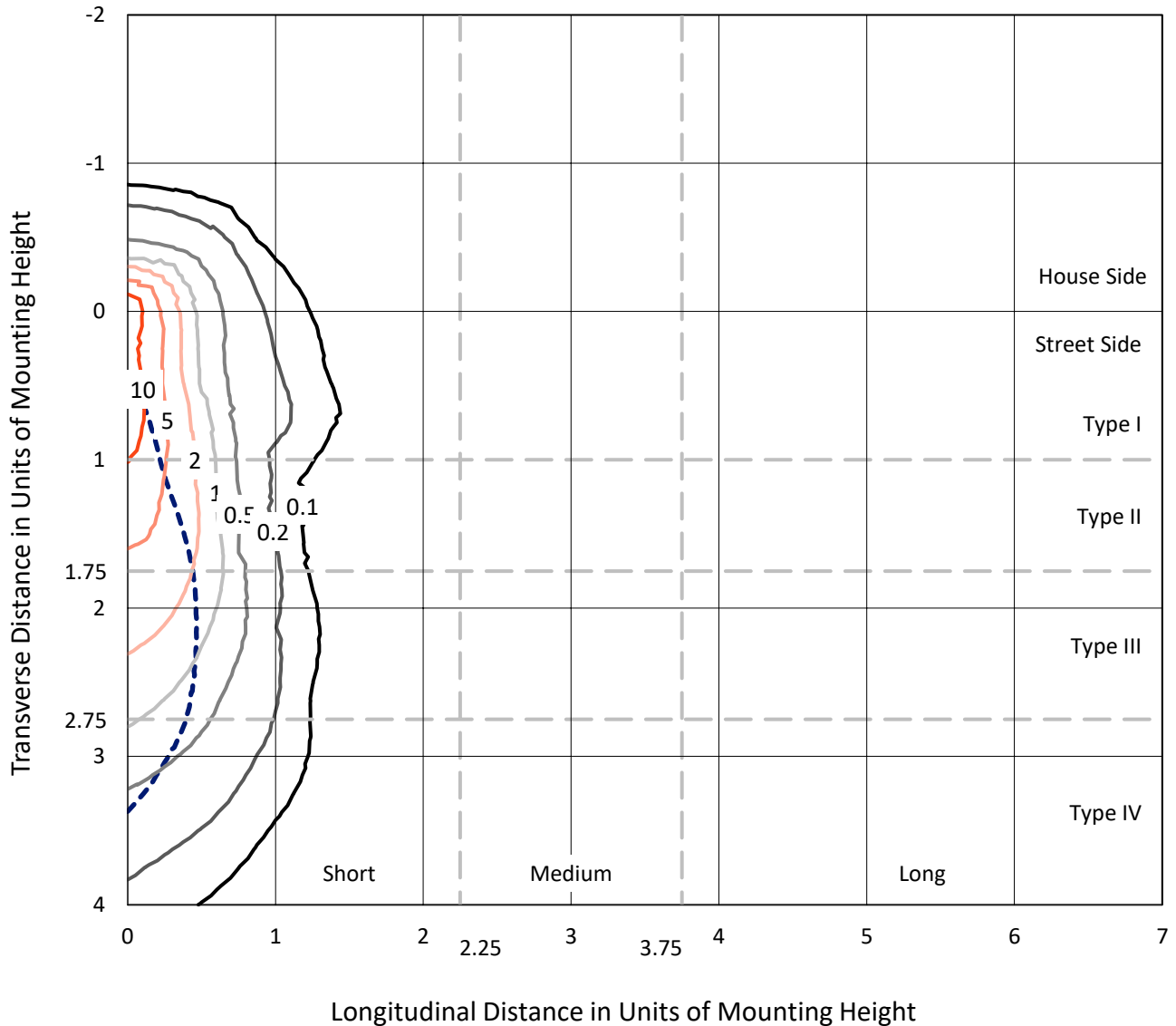
Lumens per Lamp: N/A  
Luminaire Lumens: 9691.3 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

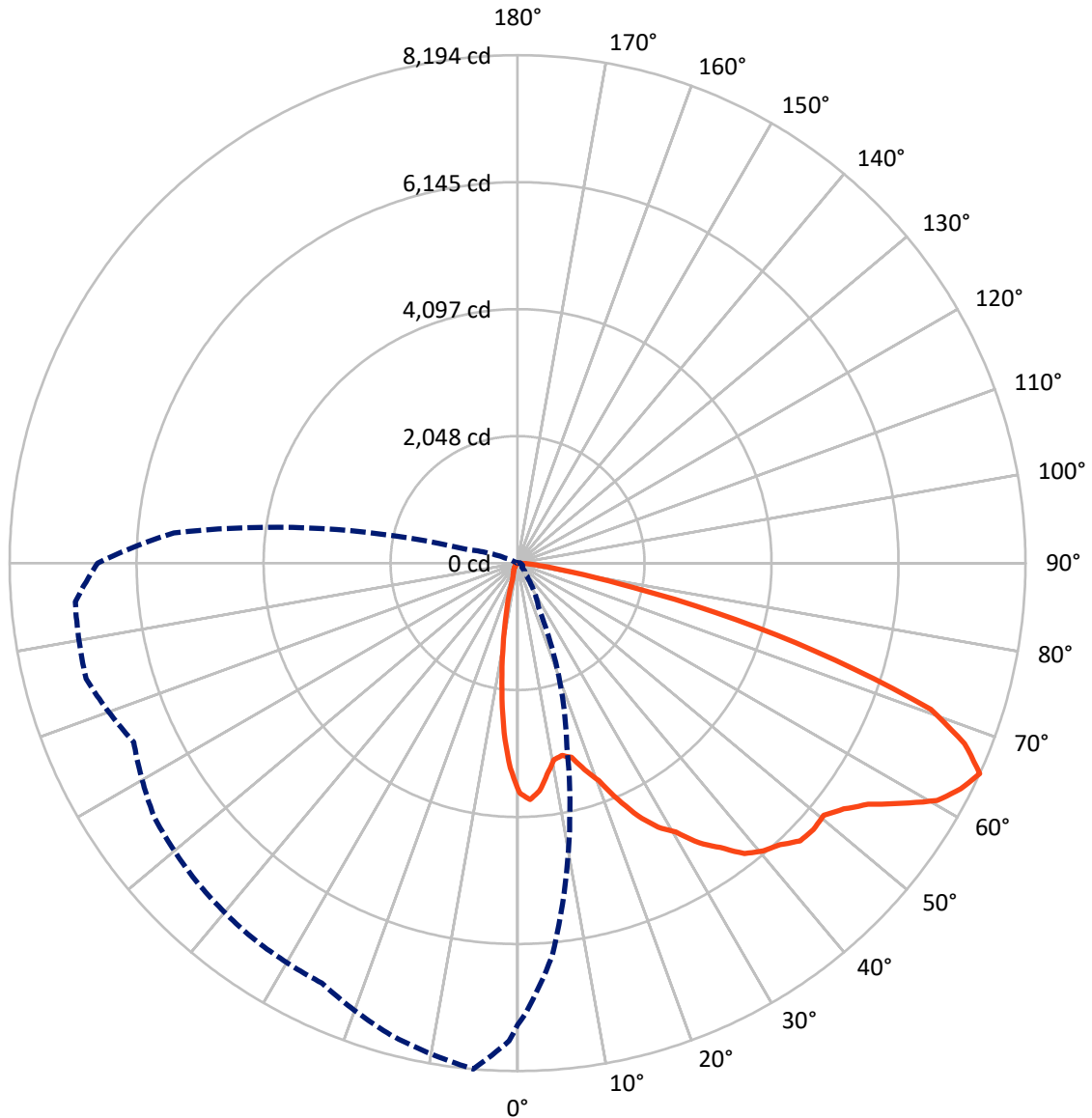
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 16.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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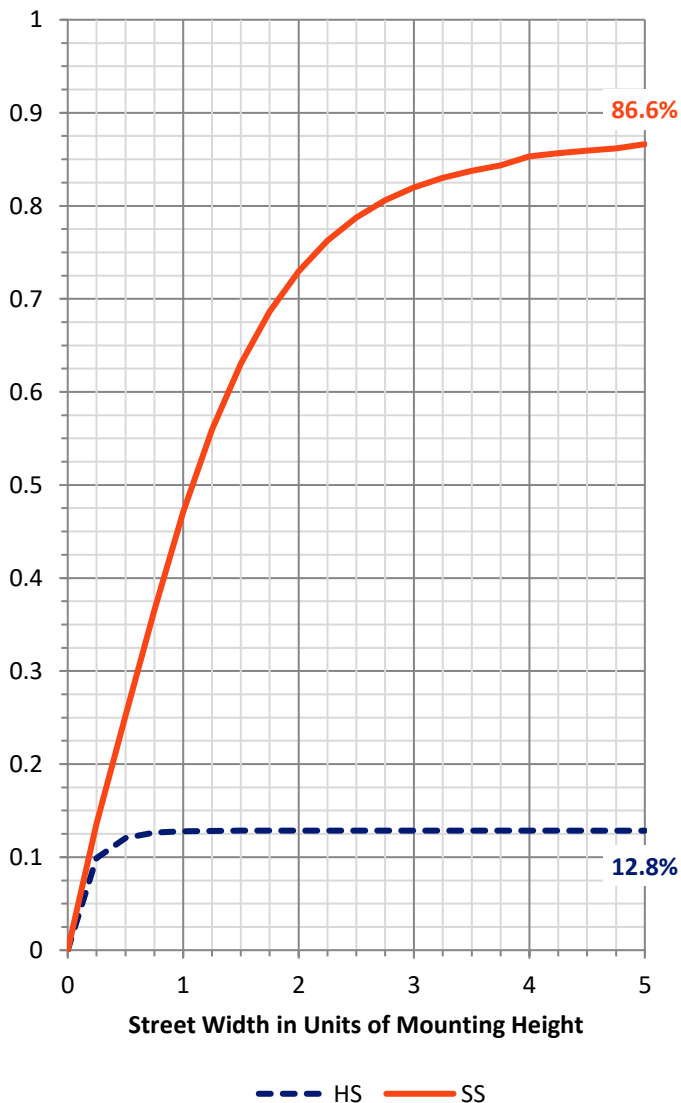
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1258.3	0.0	1258.3
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	8433.0	0.0	8433.0
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	9691.3	0.0	9691.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.7	2.9
10°-20°	543.4	5.6
20°-30°	756.9	7.8
30°-40°	1075.5	11.1
40°-50°	1491.4	15.4
50°-60°	2032.1	21.0
60°-70°	2234.1	23.1
70°-80°	1098.0	11.3
80°-90°	179.3	1.9
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°	9691.3	100.0
0°-180°	9691.3	100.0



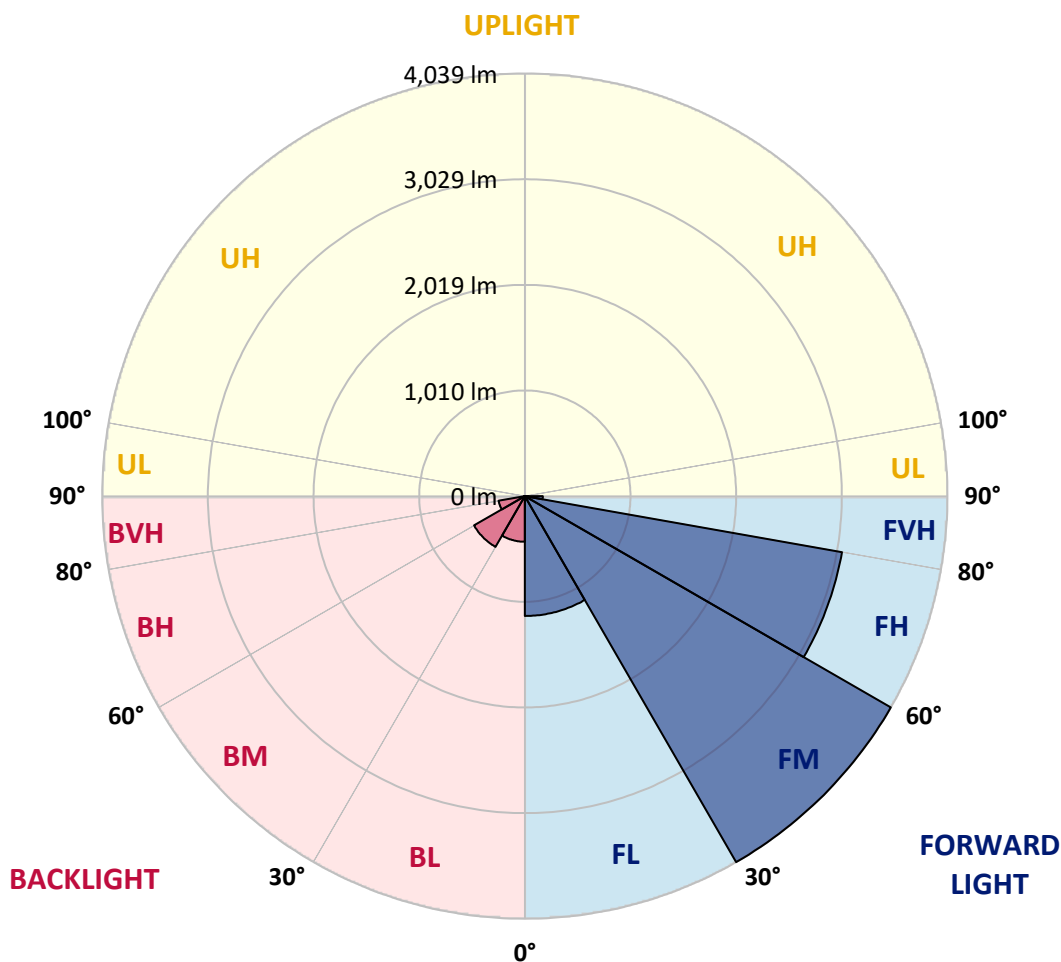
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1145.3	11.8			
FM (30°-60°)	4038.6	41.7			
FH (60°-80°)	3077.8	31.8			G2/5000
FVH (80°-90°)	171.2	1.8			G2/225
BL (0°-30°)	435.7	4.5	B1/500		
BM (30°-60°)	560.2	5.8	B1/1000		
BH (60°-80°)	254.3	2.6	B1/500		G1/500
BVH (80°-90°)	8.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0
2.5°	3780.7	3825.2	3783.4	3637.0	3610.9	3540.4	3433.2	3425.4	3313.0	3326.1	3266.0
5°	3553.4	3597.8	3509.0	3315.7	3135.4	2991.7	2905.4	2751.3	2717.3	2641.6	2641.6
7.5°	3320.9	3318.3	3166.7	3004.7	2735.6	2471.7	2351.5	2129.4	1998.8	1928.3	1860.3
10°	3127.5	3085.7	2991.7	2657.2	2364.6	2090.3	1941.3	1795.0	1659.1	1541.6	1424.0
12.5°	2991.7	3017.8	2868.9	2505.7	2126.8	1936.1	1776.7	1622.6	1460.6	1327.3	1196.7
15°	3062.2	3020.4	2845.4	2471.7	2087.6	1826.4	1614.7	1426.6	1246.3	1071.3	972.0
17.5°	3281.7	3174.6	2968.2	2471.7	2006.6	1659.1	1403.1	1181.0	987.6	830.9	708.1
20°	3576.9	3454.1	3232.1	2563.2	1946.5	1536.3	1186.2	906.6	705.5	559.1	465.1
22.5°	3880.0	3783.4	3448.9	2599.7	1876.0	1371.7	935.4	655.8	470.3	376.2	329.2
25°	4243.2	4107.3	3741.5	2746.1	1771.5	1212.3	736.8	457.2	350.1	300.5	271.7
27.5°	4533.2	4509.7	4015.9	2834.9	1693.1	1081.7	582.7	363.2	290.0	253.4	235.2
30°	4899.0	4771.0	4350.3	3012.6	1604.3	932.8	486.0	326.6	266.5	227.3	214.3
32.5°	5118.5	5058.4	4525.4	3111.9	1505.0	810.0	418.1	287.4	243.0	214.3	201.2
35°	5437.3	5317.1	4776.2	3174.6	1452.7	739.4	376.2	261.3	203.8	175.1	159.4
37.5°	5792.6	5748.2	5076.7	3172.0	1377.0	697.6	347.5	243.0	193.3	162.0	143.7
40°	6155.8	5975.5	5259.6	3245.1	1337.8	666.3	326.6	232.5	182.9	154.2	130.6
42.5°	6427.5	6221.1	5471.2	3219.0	1290.7	611.4	318.8	216.9	175.1	141.1	120.2
45°	6500.7	6427.5	5662.0	3211.1	1256.8	567.0	305.7	214.3	169.8	133.3	112.4
47.5°	6641.8	6592.1	5897.1	3224.2	1230.6	533.0	274.3	219.5	162.0	125.4	107.1
50°	6704.5	6615.6	6087.9	3255.6	1170.5	491.2	245.6	229.9	159.4	122.8	101.9
52.5°	6963.1	6884.8	6349.1	3344.4	1120.9	436.3	216.9	219.5	164.6	115.0	96.7
55°	7216.6	7127.8	6751.5	3548.2	1050.4	391.9	185.5	193.3	156.8	104.5	86.2
57.5°	7564.1	7417.8	7020.6	3631.8	987.6	331.8	164.6	159.4	146.3	94.1	75.8
60°	7616.4	7676.4	6981.4	3579.6	922.3	292.6	143.7	122.8	156.8	83.6	65.3
62.5°	7791.4	7540.6	6798.5	3459.4	875.3	269.1	128.0	101.9	135.9	73.2	54.9
65°	7454.4	7268.8	6370.0	3072.7	815.2	271.7	112.4	83.6	86.2	60.1	44.4
67.5°	6960.5	6814.2	5659.4	2652.0	755.1	266.5	99.3	73.2	65.3	52.3	39.2
70°	6108.8	5792.6	4807.6	2153.0	666.3	248.2	83.6	65.3	54.9	41.8	28.7
72.5°	4444.4	4316.4	3448.9	1664.4	598.3	224.7	78.4	54.9	47.0	31.4	23.5
75°	2991.7	2780.0	2176.5	1092.2	480.8	196.0	65.3	49.6	36.6	23.5	18.3
77.5°	1580.8	1494.5	1233.2	519.9	266.5	91.4	36.6	28.7	20.9	18.3	10.5
80°	684.6	608.8	533.0	211.6	94.1	41.8	23.5	15.7	13.1	10.5	5.2
82.5°	350.1	334.4	277.0	91.4	54.9	31.4	13.1	10.5	7.8	5.2	2.6
85°	172.4	177.7	146.3	28.7	31.4	18.3	2.6	2.6	0.0	0.0	0.0
87.5°	13.1	13.1	10.5	5.2	7.8	2.6	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0
2.5°	3242.5	3279.1	3216.4	3255.6	3237.3	3245.1	3253.0	3232.1	3237.3	3310.4	3313.0
5°	2597.1	2667.7	2641.6	2678.1	2740.8	2709.5	2738.2	2733.0	2738.2	2748.7	2795.7
7.5°	1852.5	1831.6	1881.2	1977.9	2090.3	2158.2	2124.2	2105.9	2095.5	2069.3	2100.7
10°	1397.9	1387.4	1374.3	1403.1	1476.2	1552.0	1593.8	1523.3	1484.1	1434.4	1416.1
12.5°	1160.1	1094.8	1058.2	1013.8	1034.7	1102.6	1105.2	1037.3	974.6	948.5	977.2
15°	914.5	870.1	804.7	742.0	710.7	762.9	718.5	653.2	572.2	561.8	559.1
17.5°	653.2	627.1	580.0	553.9	517.3	504.3	457.2	358.0	300.5	284.8	290.0
20°	444.2	423.3	420.7	397.1	381.5	371.0	295.2	229.9	211.6	214.3	216.9
22.5°	329.2	318.8	305.7	303.1	290.0	277.0	216.9	193.3	180.3	180.3	188.1
25°	269.1	263.9	250.8	245.6	240.4	222.1	182.9	164.6	159.4	154.2	162.0
27.5°	229.9	227.3	219.5	211.6	206.4	188.1	159.4	143.7	138.5	138.5	138.5
30°	206.4	206.4	196.0	180.3	180.3	159.4	135.9	125.4	120.2	120.2	117.6
32.5°	193.3	188.1	175.1	164.6	156.8	135.9	120.2	109.7	101.9	101.9	104.5
35°	156.8	156.8	154.2	146.3	135.9	115.0	101.9	91.4	86.2	83.6	86.2
37.5°	138.5	130.6	120.2	122.8	117.6	99.3	86.2	78.4	70.5	70.5	70.5
40°	125.4	117.6	107.1	99.3	96.7	88.8	75.8	62.7	54.9	52.3	52.3
42.5°	112.4	107.1	91.4	78.4	75.8	75.8	57.5	47.0	39.2	39.2	39.2
45°	104.5	96.7	83.6	67.9	54.9	57.5	47.0	34.0	28.7	26.1	26.1
47.5°	99.3	91.4	73.2	57.5	41.8	41.8	34.0	23.5	18.3	15.7	15.7
50°	91.4	83.6	65.3	47.0	31.4	26.1	20.9	13.1	7.8	5.2	5.2
52.5°	86.2	78.4	57.5	39.2	26.1	18.3	13.1	2.6	0.0	0.0	0.0
55°	78.4	67.9	49.6	31.4	20.9	10.5	2.6	0.0	0.0	0.0	0.0
57.5°	67.9	60.1	39.2	23.5	13.1	2.6	0.0	0.0	0.0	0.0	0.0
60°	57.5	49.6	31.4	18.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	47.0	41.8	23.5	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	39.2	31.4	18.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	34.0	26.1	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	26.1	18.3	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	18.3	13.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.1	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0
2.5°	3323.5	3401.9	3475.0	3495.9	3553.4	3712.8	3712.8	3788.6	3924.4	3974.1	3984.5
5°	2803.5	2887.2	2902.8	3064.8	3140.6	3302.6	3409.7	3665.8	3819.9	3916.6	3976.7
7.5°	2132.1	2160.8	2220.9	2372.4	2521.4	2717.3	2921.1	3247.7	3519.5	3629.2	3833.0
10°	1465.8	1552.0	1682.7	1818.5	2051.1	2267.9	2531.8	2840.1	3174.6	3310.4	3485.5
12.5°	987.6	1107.8	1316.9	1510.2	1724.5	1943.9	2194.8	2607.6	2986.4	3174.6	3349.6
15°	577.4	723.7	904.0	1217.6	1502.4	1748.0	1998.8	2416.9	2876.7	3119.7	3334.0
17.5°	292.6	337.1	486.0	757.7	1134.0	1536.3	1910.0	2443.0	2960.3	3258.2	3435.8
20°	219.5	232.5	274.3	402.4	776.0	1269.8	1826.4	2482.2	3192.9	3556.0	3652.7
22.5°	190.7	201.2	219.5	261.3	436.3	972.0	1708.8	2578.8	3509.0	3851.3	4055.1
25°	162.0	172.4	188.1	214.3	279.6	661.0	1565.1	2680.7	3791.2	4222.3	4413.0
27.5°	141.1	148.9	164.6	185.5	227.3	420.7	1316.9	2816.6	4222.3	4671.7	4721.4
30°	120.2	128.0	141.1	164.6	193.3	297.9	966.7	2834.9	4460.1	4867.7	5006.2
32.5°	104.5	107.1	122.8	143.7	162.0	235.2	679.3	2853.2	4635.1	5121.1	5149.9
35°	86.2	91.4	107.1	120.2	141.1	185.5	514.7	2761.7	4862.4	5382.4	5374.6
37.5°	70.5	78.4	88.8	99.3	115.0	156.8	410.2	2591.9	5147.2	5787.4	5541.8
40°	54.9	62.7	73.2	86.2	96.7	141.1	308.3	2335.9	5445.1	5986.0	5724.7
42.5°	39.2	44.4	54.9	67.9	86.2	117.6	222.1	2032.8	5562.7	6218.5	5944.2
45°	28.7	34.0	41.8	57.5	88.8	94.1	154.2	1755.8	5688.1	6320.4	5894.5
47.5°	15.7	20.9	31.4	49.6	78.4	70.5	109.7	1507.6	5831.8	6411.8	5933.7
50°	5.2	7.8	18.3	52.3	62.7	54.9	86.2	1374.3	5972.9	6430.1	6012.1
52.5°	0.0	0.0	10.5	54.9	47.0	41.8	75.8	1322.1	5936.3	6487.6	5962.4
55°	0.0	0.0	2.6	23.5	26.1	31.4	62.7	1319.5	6195.0	6505.9	6234.2
57.5°	0.0	0.0	0.0	7.8	15.7	26.1	54.9	1235.9	6359.6	6960.5	6600.0
60°	0.0	0.0	0.0	2.6	10.5	18.3	41.8	1162.7	6526.8	7164.3	6991.9
62.5°	0.0	0.0	0.0	0.0	2.6	7.8	28.7	1050.4	6189.8	7148.7	7370.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	18.3	830.9	5567.9	6775.0	7161.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.5	574.8	4875.5	6304.7	6777.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	347.5	3934.9	5528.7	5748.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.9	2808.8	4389.5	4716.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.1	1737.5	3208.5	3610.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.5	1126.1	2429.9	2740.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	600.9	1523.3	1771.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	261.3	924.9	1066.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.6	561.8	640.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.2	115.0
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°	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0	3705.0
2.5°	3989.8	4065.5	4094.3	4049.9	4055.1	3963.6	3950.6	3822.5	3770.3	3780.7
5°	4172.7	4282.4	4342.5	4292.9	4180.5	4005.4	3846.1	3694.5	3600.5	3553.4
7.5°	4130.9	4253.7	4329.4	4376.5	4248.4	3966.3	3723.3	3438.5	3318.3	3320.9
10°	3900.9	4157.0	4311.1	4251.0	4191.0	3908.8	3532.5	3224.2	3117.1	3127.5
12.5°	3715.4	4000.2	4091.7	4138.7	4015.9	3791.2	3537.7	3185.0	3064.8	2991.7
15°	3600.5	3812.1	3817.3	3890.5	3840.8	3840.8	3592.6	3247.7	3143.2	3062.2
17.5°	3600.5	3647.5	3642.3	3668.4	3752.0	3851.3	3731.1	3501.2	3294.8	3281.7
20°	3681.5	3535.1	3501.2	3511.6	3582.2	3877.4	4036.8	3749.4	3618.7	3576.9
22.5°	3869.6	3548.2	3341.8	3305.2	3522.1	3874.8	4232.8	4141.3	3914.0	3880.0
25°	4128.2	3524.7	3300.0	3253.0	3417.6	3968.9	4501.9	4520.2	4313.8	4243.2
27.5°	4373.9	3629.2	3294.8	3284.3	3501.2	3948.0	4687.4	4823.3	4590.7	4533.2
30°	4457.5	3733.7	3391.4	3253.0	3532.5	4023.7	4682.2	5037.5	4886.0	4899.0
32.5°	4556.7	3838.2	3401.9	3347.0	3665.8	4146.5	4831.1	5382.4	5272.7	5118.5
35°	4703.1	3979.3	3501.2	3451.5	3759.8	4256.3	4862.4	5635.8	5617.5	5437.3
37.5°	4828.5	4117.8	3707.6	3715.4	4047.2	4433.9	5000.9	5946.8	5915.4	5792.6
40°	4917.3	4311.1	4029.0	4049.9	4298.1	4632.5	5246.5	6103.5	6336.1	6155.8
42.5°	4930.4	4483.6	4397.4	4564.6	4797.1	4940.8	5345.8	6210.7	6545.1	6427.5
45°	4980.0	4757.9	4998.3	5121.1	5311.9	5212.6	5340.6	6393.6	6560.8	6500.7
47.5°	5173.4	5257.0	5560.1	5933.7	6001.6	5675.0	5466.0	6422.3	6649.6	6641.8
50°	5374.6	5792.6	6218.5	6466.7	6552.9	5993.8	5583.6	6398.8	6767.2	6704.5
52.5°	5599.3	6257.7	6871.7	7177.4	7130.4	6346.5	5716.8	6589.5	6984.1	6963.1
55°	5740.4	6466.7	7292.4	7718.3	7681.7	6741.1	6140.1	6863.9	7268.8	7216.6
57.5°	6114.0	6806.4	7710.4	7909.0	8005.7	7258.4	6435.4	7313.3	7506.6	7564.1
60°	6422.3	7028.5	7820.2	8107.6	8141.5	7566.7	6952.7	7775.7	7809.7	7616.4
62.5°	6874.3	7114.7	7587.6	7846.3	8021.3	7741.8	7417.8	8024.0	7804.5	7791.4
65°	7206.1	6832.5	7153.9	7297.6	7409.9	7475.3	7885.5	8193.8	7707.8	7454.4
67.5°	7020.6	6299.5	6239.4	6247.2	6281.2	6675.7	7728.7	7778.3	7169.6	6960.5
70°	6179.3	5168.1	5087.1	5149.9	4980.0	5455.6	7093.8	7070.3	6325.6	6108.8
72.5°	4998.3	3767.7	3629.2	3715.4	3754.6	4258.9	5967.7	5361.5	4614.2	4444.4
75°	3971.5	2761.7	2330.6	2539.7	2672.9	3101.4	4661.3	3642.3	3221.6	2991.7
77.5°	3119.7	2090.3	1813.3	1729.7	1852.5	2254.9	3391.4	1912.6	1687.9	1580.8
80°	1977.9	1536.3	1667.0	1546.8	1599.0	1609.5	1766.3	870.1	692.4	684.6
82.5°	1191.4	1050.4	1248.9	687.2	1251.5	1118.3	734.2	394.5	350.1	350.1
85°	843.9	650.6	431.1	279.6	556.5	614.0	284.8	203.8	177.7	172.4
87.5°	423.3	201.2	96.7	62.7	70.5	115.0	34.0	15.7	15.7	13.1
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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