

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: P677259

Luminaire Tested: **CCW-SA-2E-727-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677259  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-727-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) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

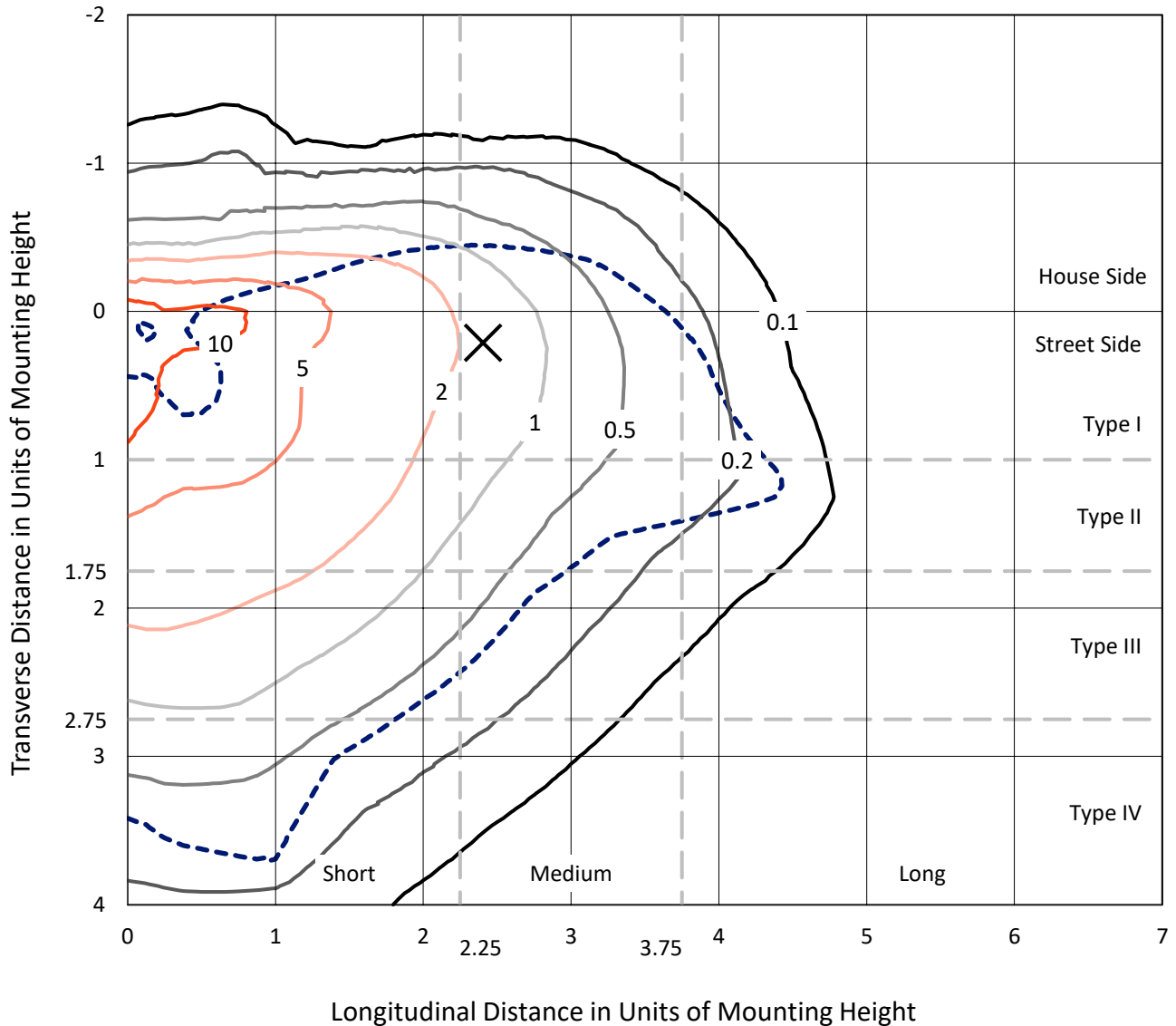
Lumens per Lamp: N/A  
Luminaire Lumens: 8296.4 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6  
Input Voltage (V): 120  
Input Current (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

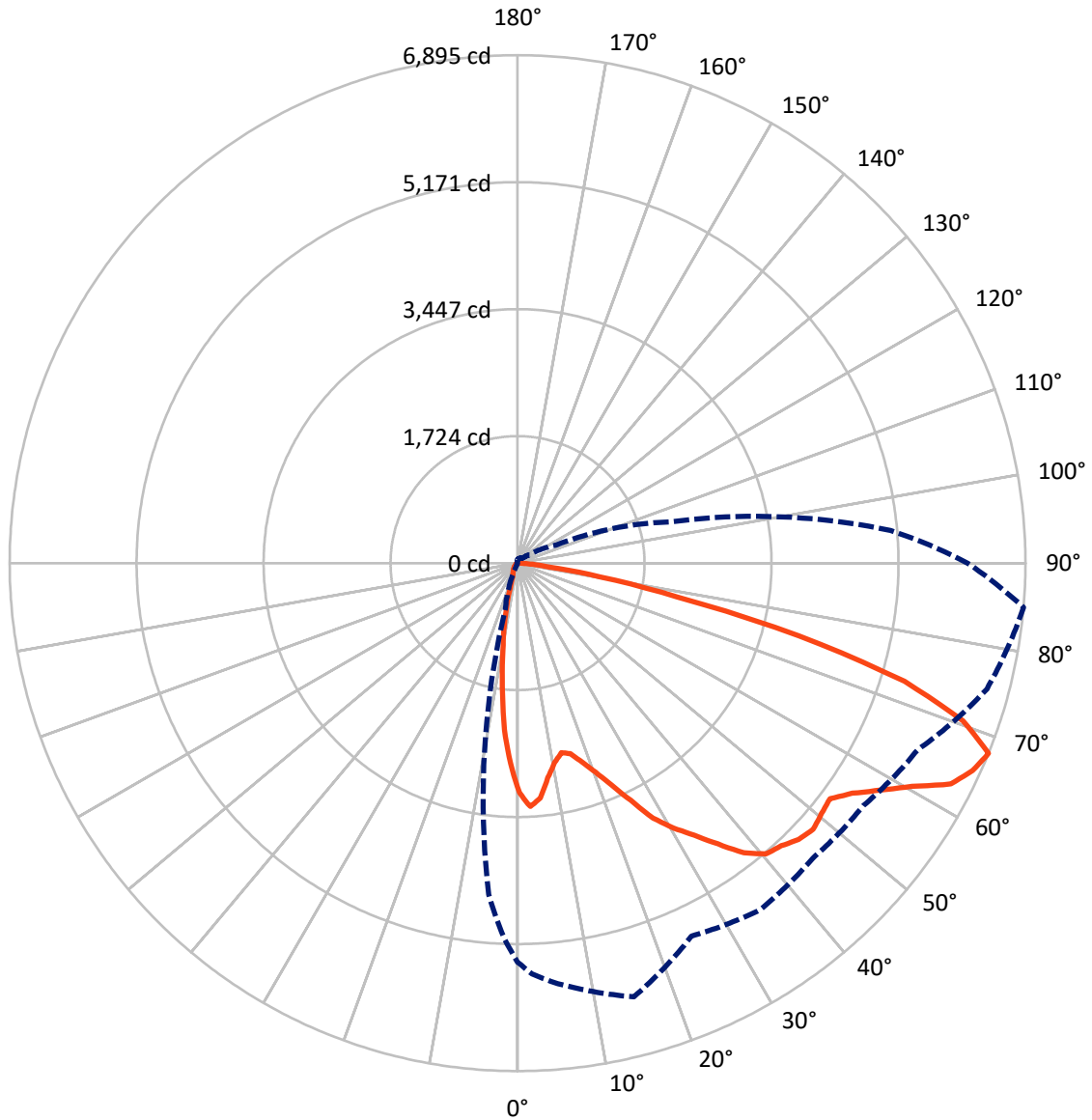
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	1440.5	0.0	1440.5
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	6855.9	0.0	6855.9
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	8296.4	0.0	8296.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.0	2.9
10°-20°	464.7	5.6
20°-30°	643.1	7.8
30°-40°	908.8	11.0
40°-50°	1237.4	14.9
50°-60°	1638.8	19.8
60°-70°	1902.8	22.9
70°-80°	1077.6	13.0
80°-90°	186.2	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°	8296.4	100.0
0°-180°	8296.4	100.0

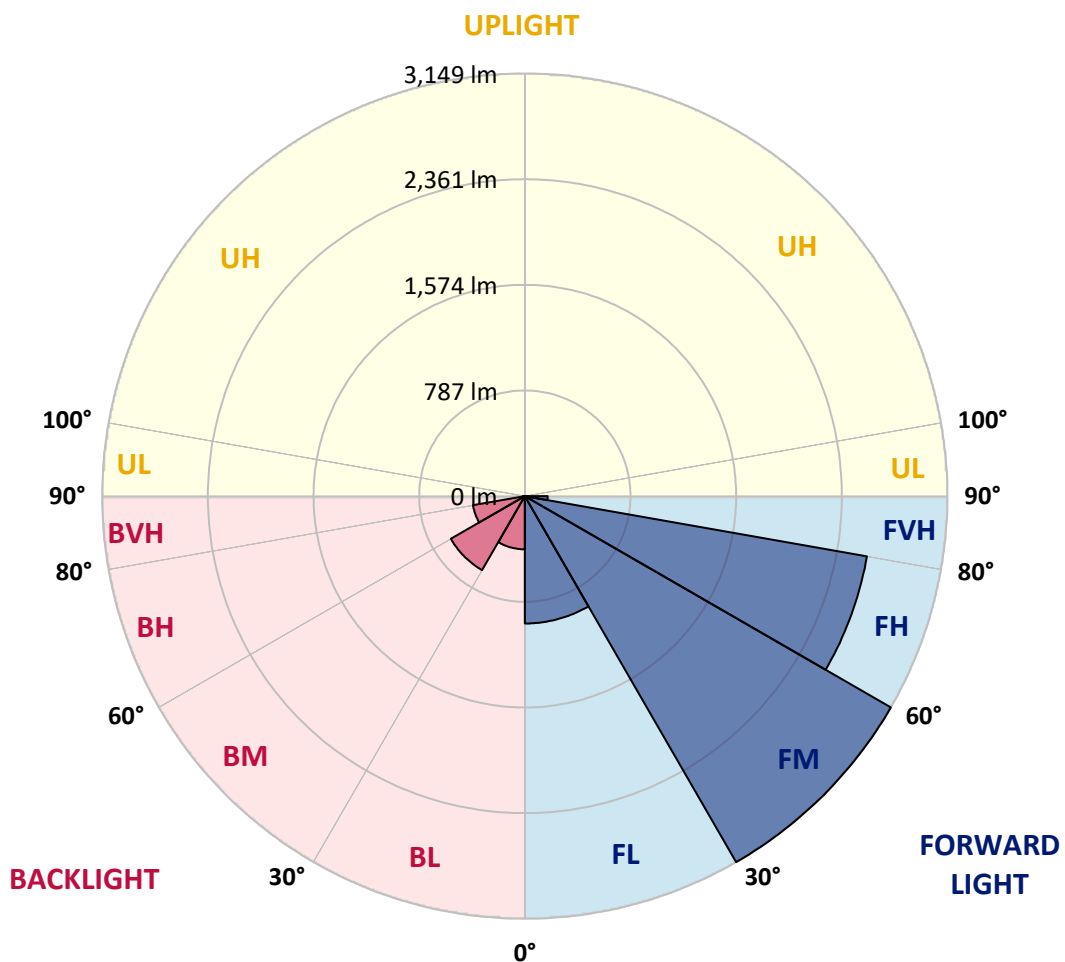


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.7	11.4			
FM (30°-60°)	3148.5	38.0			
FH (60°-80°)	2588.1	31.2			G2/5000
FVH (80°-90°)	170.5	2.1			G2/225
BL (0°-30°)	396.0	4.8	B1/500		
BM (30°-60°)	636.5	7.7	B1/1000		
BH (60°-80°)	392.3	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°	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4
2.5°	3241.2	3309.9	3312.1	3343.1	3374.2	3374.2	3447.3	3429.5	3365.3	3354.2	3307.7
5°	3265.6	3290.0	3307.7	3465.0	3597.9	3584.6	3624.5	3597.9	3473.9	3314.3	3205.8
7.5°	3055.1	3081.7	3152.6	3420.7	3600.1	3660.0	3735.3	3569.1	3438.4	3150.4	2942.1
10°	2776.0	2826.9	2957.7	3263.4	3484.9	3675.5	3675.5	3542.5	3290.0	3008.6	2753.8
12.5°	2620.9	2722.8	2793.7	3103.9	3391.9	3522.6	3518.2	3447.3	3283.3	2928.9	2640.8
15°	2647.5	2676.3	2826.9	3068.4	3259.0	3252.3	3332.1	3309.9	3194.7	2999.7	2682.9
17.5°	2769.3	2813.6	2944.4	3068.4	3159.3	3132.7	3130.5	3236.8	3243.4	3119.4	2840.2
20°	2968.7	3099.4	3161.5	3199.1	3088.4	2975.4	2962.1	3110.5	3225.7	3272.3	3028.5
22.5°	3287.8	3374.2	3500.4	3307.7	3019.7	2877.9	2851.3	3015.3	3247.9	3453.9	3272.3
25°	3600.1	3666.6	3788.5	3540.3	3097.2	2858.0	2811.4	2953.2	3332.1	3706.5	3566.9
27.5°	3930.2	3987.8	4001.1	3710.9	3139.3	2818.1	2762.7	2953.2	3403.0	3839.4	3919.2
30°	4131.9	4200.5	4213.8	3861.6	3208.0	2851.3	2824.7	2966.5	3451.7	3952.4	4171.7
32.5°	4357.8	4375.6	4364.5	3888.2	3283.3	2948.8	2838.0	3055.1	3507.1	4087.5	4402.1
35°	4628.1	4659.1	4546.1	4010.0	3451.7	3010.8	2970.9	3163.7	3602.4	4149.6	4681.3
37.5°	4834.2	4931.6	4676.9	4056.5	3484.9	3141.5	3148.2	3389.7	3668.8	4224.9	4989.2
40°	5221.9	5057.9	4898.4	4216.0	3611.2	3363.1	3327.6	3622.3	3892.6	4273.6	5190.8
42.5°	5434.6	5348.1	4984.8	4231.5	3806.2	3668.8	3677.7	3885.9	4010.0	4411.0	5246.2
45°	5487.7	5396.9	5102.2	4242.6	3998.9	4029.9	4182.8	4222.7	4182.8	4501.8	5350.4
47.5°	5622.9	5425.7	5088.9	4391.1	4311.3	4430.9	4625.9	4712.3	4417.6	4468.6	5399.1
50°	5596.3	5483.3	5060.1	4453.1	4692.4	5009.2	5139.9	5104.4	4679.1	4399.9	5345.9
52.5°	5485.5	5363.7	5148.8	4621.5	5049.1	5432.3	5614.0	5525.4	4911.7	4555.0	5310.5
55°	5647.2	5554.2	5264.0	4849.7	5317.1	5804.5	5933.0	5866.6	5197.5	4699.0	5512.1
57.5°	5822.3	5802.3	5576.3	5117.7	5633.9	6187.8	6187.8	6105.8	5445.6	4907.3	5811.2
60°	6074.8	6119.1	5806.7	5295.0	5742.5	6165.7	6486.9	6391.6	5696.0	5272.8	6150.1
62.5°	5992.8	6134.6	6103.6	5676.0	5866.6	6274.2	6449.2	6520.1	6006.1	5718.1	6602.1
65°	5729.2	5879.9	6101.4	5926.4	5773.5	6010.6	6099.2	6314.1	6161.2	6136.9	6788.2
67.5°	5414.6	5578.6	5715.9	6094.8	5585.2	5742.5	5665.0	5733.6	5992.8	6595.5	6894.5
70°	4727.8	4885.1	5102.2	5720.3	5086.7	4944.9	4925.0	4891.8	5295.0	6431.5	6411.6
72.5°	3888.2	3961.3	4320.2	4650.3	3764.1	3737.5	3768.5	3730.9	4198.3	5822.3	5492.2
75°	2911.1	2984.2	3188.1	3571.3	2563.3	2410.4	2587.7	2762.7	3205.8	4519.6	3945.8
77.5°	2188.9	2281.9	2410.4	2671.9	1880.9	1641.7	1666.0	1832.2	2317.4	3620.1	2211.0
80°	1420.1	1409.0	1657.2	1838.8	1415.7	1460.0	1398.0	1519.8	1679.3	1936.3	1129.9
82.5°	819.7	830.8	934.9	1054.6	985.9	1127.7	813.1	1358.1	1198.6	788.7	420.9
85°	460.8	480.8	576.0	731.1	618.1	414.3	339.0	673.5	753.3	323.5	203.8
87.5°	46.5	39.9	77.5	276.9	168.4	68.7	101.9	161.7	181.7	121.9	59.8
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°	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4
2.5°	3241.2	3241.2	3185.8	3092.8	3055.1	2988.7	2897.8	2926.6	2895.6	2782.6	2753.8
5°	3108.3	3002.0	2886.8	2745.0	2663.0	2494.6	2441.4	2346.2	2361.7	2266.4	2270.9
7.5°	2831.4	2747.2	2552.2	2366.1	2204.4	2058.2	1852.1	1774.6	1699.3	1661.6	1705.9
10°	2669.6	2512.3	2246.5	2002.8	1787.9	1657.2	1519.8	1413.5	1316.0	1242.9	1227.4
12.5°	2552.2	2412.6	2091.4	1794.5	1626.2	1519.8	1393.5	1247.3	1152.0	1025.8	988.1
15°	2516.8	2346.2	2007.2	1712.6	1548.6	1373.6	1229.6	1085.6	961.5	828.6	782.1
17.5°	2638.6	2441.4	2005.0	1646.1	1415.7	1227.4	1028.0	866.2	740.0	618.1	589.3
20°	2844.7	2543.4	2069.3	1606.2	1289.4	1036.8	810.9	649.1	507.3	427.6	407.6
22.5°	3079.5	2716.2	2075.9	1499.9	1163.1	846.3	591.5	427.6	347.8	310.2	299.1
25°	3367.5	2993.1	2155.7	1413.5	1014.7	642.5	420.9	327.9	281.4	259.2	254.8
27.5°	3604.6	3185.8	2242.1	1322.6	868.5	476.3	330.1	268.1	243.7	221.5	219.3
30°	3850.5	3407.4	2266.4	1267.2	742.2	392.1	283.6	237.1	210.5	199.4	197.2
32.5°	4065.4	3648.9	2344.0	1176.4	622.5	345.6	257.0	212.7	195.0	177.2	175.0
35°	4342.3	3788.5	2381.6	1127.7	578.2	312.4	234.8	195.0	168.4	157.3	152.9
37.5°	4639.2	3923.6	2406.0	1090.0	540.6	292.4	221.5	183.9	159.5	144.0	139.6
40°	4916.1	4114.1	2370.6	1043.5	511.8	268.1	212.7	170.6	148.4	132.9	126.3
42.5°	5128.8	4300.2	2359.5	999.2	480.8	259.2	201.6	163.9	139.6	121.9	119.6
45°	5248.5	4426.5	2281.9	963.7	456.4	263.6	197.2	155.1	132.9	117.4	108.6
47.5°	5219.7	4524.0	2301.9	952.7	423.2	245.9	195.0	148.4	121.9	108.6	101.9
50°	5379.2	4721.2	2268.6	917.2	398.8	221.5	212.7	148.4	119.6	104.1	97.5
52.5°	5405.7	4900.6	2339.5	853.0	361.1	203.8	210.5	146.2	115.2	99.7	90.8
55°	5627.3	5108.9	2476.9	817.5	330.1	177.2	192.7	141.8	104.1	90.8	86.4
57.5°	5928.6	5540.9	2565.5	784.3	288.0	155.1	161.7	139.6	95.3	84.2	77.5
60°	6218.8	5713.7	2572.2	724.5	248.1	139.6	126.3	139.6	88.6	75.3	68.7
62.5°	6435.9	5713.7	2527.9	673.5	217.1	124.1	110.8	132.9	79.8	66.5	62.0
65°	6318.5	5560.8	2412.6	631.4	197.2	108.6	95.3	101.9	70.9	57.6	53.2
67.5°	6108.1	5084.5	2157.9	580.5	195.0	95.3	82.0	75.3	62.0	51.0	46.5
70°	5771.3	4442.0	1796.7	522.9	190.5	86.4	73.1	64.2	55.4	44.3	39.9
72.5°	4650.3	3668.8	1475.5	489.6	186.1	75.3	62.0	55.4	46.5	37.7	33.2
75°	3221.3	2344.0	1136.5	418.7	181.7	68.7	57.6	48.7	39.9	31.0	28.8
77.5°	1931.9	1566.3	733.3	314.6	119.6	55.4	48.7	37.7	33.2	26.6	24.4
80°	903.9	740.0	296.9	121.9	57.6	39.9	33.2	28.8	26.6	22.2	19.9
82.5°	354.5	312.4	144.0	70.9	46.5	31.0	26.6	24.4	22.2	17.7	15.5
85°	190.5	168.4	68.7	48.7	33.2	22.2	22.2	19.9	17.7	15.5	13.3
87.5°	42.1	31.0	28.8	28.8	24.4	17.7	17.7	15.5	13.3	11.1	8.9
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°	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4
2.5°	2738.3	2771.6	2718.4	2751.6	2705.1	2740.5	2745.0	2711.7	2720.6	2764.9	2784.8
5°	2332.9	2310.7	2262.0	2246.5	2248.7	2219.9	2231.0	2246.5	2270.9	2284.2	2324.0
7.5°	1681.5	1732.5	1730.3	1767.9	1770.2	1765.7	1734.7	1668.2	1690.4	1672.7	1694.8
10°	1203.0	1225.2	1267.2	1291.6	1335.9	1311.6	1240.7	1214.1	1200.8	1198.6	1220.7
12.5°	961.5	908.3	903.9	912.8	934.9	906.1	870.7	839.7	855.2	886.2	910.6
15°	744.4	700.1	642.5	633.6	638.1	624.8	587.1	547.2	558.3	589.3	607.0
17.5°	571.6	520.6	480.8	454.2	445.3	398.8	343.4	310.2	301.3	299.1	314.6
20°	385.5	376.6	370.0	336.8	336.8	270.3	223.8	199.4	199.4	203.8	206.0
22.5°	288.0	276.9	279.1	272.5	254.8	201.6	177.2	170.6	170.6	175.0	175.0
25°	250.3	234.8	230.4	228.2	210.5	172.8	155.1	148.4	148.4	152.9	152.9
27.5°	212.7	208.3	201.6	192.7	177.2	148.4	137.4	130.7	132.9	135.1	132.9
30°	195.0	183.9	175.0	175.0	157.3	132.9	124.1	119.6	115.2	119.6	121.9
32.5°	172.8	166.2	161.7	155.1	135.1	117.4	108.6	104.1	101.9	101.9	104.1
35°	148.4	148.4	144.0	135.1	117.4	106.3	95.3	90.8	88.6	90.8	90.8
37.5°	132.9	126.3	128.5	119.6	104.1	93.0	82.0	77.5	77.5	75.3	77.5
40°	124.1	113.0	106.3	101.9	93.0	79.8	70.9	66.5	64.2	64.2	64.2
42.5°	110.8	101.9	88.6	86.4	84.2	68.7	57.6	55.4	53.2	51.0	51.0
45°	104.1	90.8	79.8	68.7	68.7	57.6	48.7	44.3	42.1	39.9	42.1
47.5°	95.3	82.0	68.7	57.6	55.4	46.5	37.7	33.2	31.0	31.0	31.0
50°	90.8	73.1	59.8	48.7	42.1	37.7	28.8	24.4	22.2	22.2	22.2
52.5°	84.2	68.7	53.2	42.1	33.2	28.8	22.2	17.7	15.5	15.5	15.5
55°	75.3	62.0	46.5	35.4	28.8	22.2	15.5	11.1	8.9	8.9	8.9
57.5°	70.9	55.4	39.9	31.0	22.2	15.5	8.9	6.6	6.6	4.4	6.6
60°	64.2	48.7	33.2	24.4	17.7	11.1	6.6	2.2	2.2	2.2	2.2
62.5°	55.4	42.1	28.8	19.9	13.3	6.6	2.2	0.0	0.0	0.0	0.0
65°	46.5	33.2	22.2	15.5	8.9	2.2	0.0	0.0	0.0	0.0	0.0
67.5°	39.9	28.8	17.7	11.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	35.4	24.4	13.3	8.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	28.8	19.9	11.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.4	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	8.9	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°	8.9	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°	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4
2.5°	2813.6	2800.4	2866.8	2975.4	3030.8	3139.3	3165.9	3234.6	3216.9	3241.2
5°	2328.5	2355.0	2452.5	2612.0	2669.6	2826.9	2975.4	3123.8	3219.1	3265.6
7.5°	1728.1	1816.7	1936.3	2082.5	2231.0	2437.0	2689.6	2862.4	2955.4	3055.1
10°	1287.2	1382.5	1519.8	1663.8	1905.3	2135.7	2388.3	2603.2	2682.9	2776.0
12.5°	1012.5	1160.9	1320.4	1475.5	1619.5	1838.8	2151.2	2463.6	2550.0	2620.9
15°	704.5	886.2	1114.4	1316.0	1517.6	1708.1	2031.6	2410.4	2527.9	2647.5
17.5°	389.9	533.9	795.4	1078.9	1375.8	1668.2	2071.5	2507.9	2685.2	2769.3
20°	226.0	283.6	469.7	806.4	1198.6	1581.8	2091.4	2691.8	2926.6	2968.7
22.5°	186.1	206.0	265.9	505.1	981.5	1526.5	2193.3	2948.8	3188.1	3287.8
25°	159.5	175.0	206.0	303.5	742.2	1409.0	2257.6	3270.0	3491.6	3600.1
27.5°	141.8	157.3	181.7	223.8	505.1	1247.3	2363.9	3560.3	3781.8	3930.2
30°	124.1	137.4	161.7	190.5	350.0	1065.6	2454.7	3772.9	4085.3	4131.9
32.5°	110.8	121.9	139.6	163.9	259.2	808.6	2527.9	3992.3	4255.9	4357.8
35°	95.3	108.6	119.6	139.6	197.2	609.3	2483.5	4162.9	4506.3	4628.1
37.5°	84.2	93.0	104.1	117.4	166.2	476.3	2392.7	4366.7	4721.2	4834.2
40°	70.9	77.5	90.8	104.1	150.7	367.8	2288.6	4612.6	5022.5	5221.9
42.5°	59.8	66.5	75.3	97.5	124.1	272.5	2078.1	4803.1	5266.2	5434.6
45°	46.5	55.4	68.7	97.5	99.7	201.6	1861.0	4944.9	5403.5	5487.7
47.5°	35.4	44.3	66.5	84.2	79.8	139.6	1604.0	5106.7	5545.3	5622.9
50°	26.6	35.4	75.3	73.1	66.5	106.3	1442.3	5219.7	5554.2	5596.3
52.5°	17.7	26.6	62.0	55.4	55.4	93.0	1398.0	5215.2	5576.3	5485.5
55°	13.3	19.9	35.4	39.9	48.7	82.0	1358.1	5381.4	5583.0	5647.2
57.5°	8.9	15.5	24.4	31.0	42.1	70.9	1276.1	5580.8	5789.0	5822.3
60°	4.4	11.1	17.7	24.4	35.4	62.0	1160.9	5727.0	6039.4	6074.8
62.5°	2.2	6.6	13.3	19.9	28.8	48.7	1041.3	5494.4	5930.8	5992.8
65°	0.0	4.4	8.9	13.3	17.7	35.4	846.3	4960.4	5501.0	5729.2
67.5°	0.0	0.0	4.4	8.9	11.1	26.6	638.1	4512.9	5104.4	5414.6
70°	0.0	0.0	2.2	2.2	6.6	19.9	407.6	3737.5	4557.2	4727.8
72.5°	0.0	0.0	0.0	0.0	2.2	13.3	237.1	2776.0	3571.3	3888.2
75°	0.0	0.0	0.0	0.0	0.0	11.1	119.6	1785.7	2485.8	2911.1
77.5°	0.0	0.0	0.0	0.0	0.0	8.9	64.2	1152.0	1832.2	2188.9
80°	0.0	0.0	0.0	0.0	0.0	2.2	37.7	669.1	1172.0	1420.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.5	327.9	700.1	819.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	175.0	350.0	460.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	24.4	46.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)