

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: P677391

Luminaire Tested: **CCW-SA-2D-722-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677391  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-722-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SLR distribution lens and House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5903.7 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

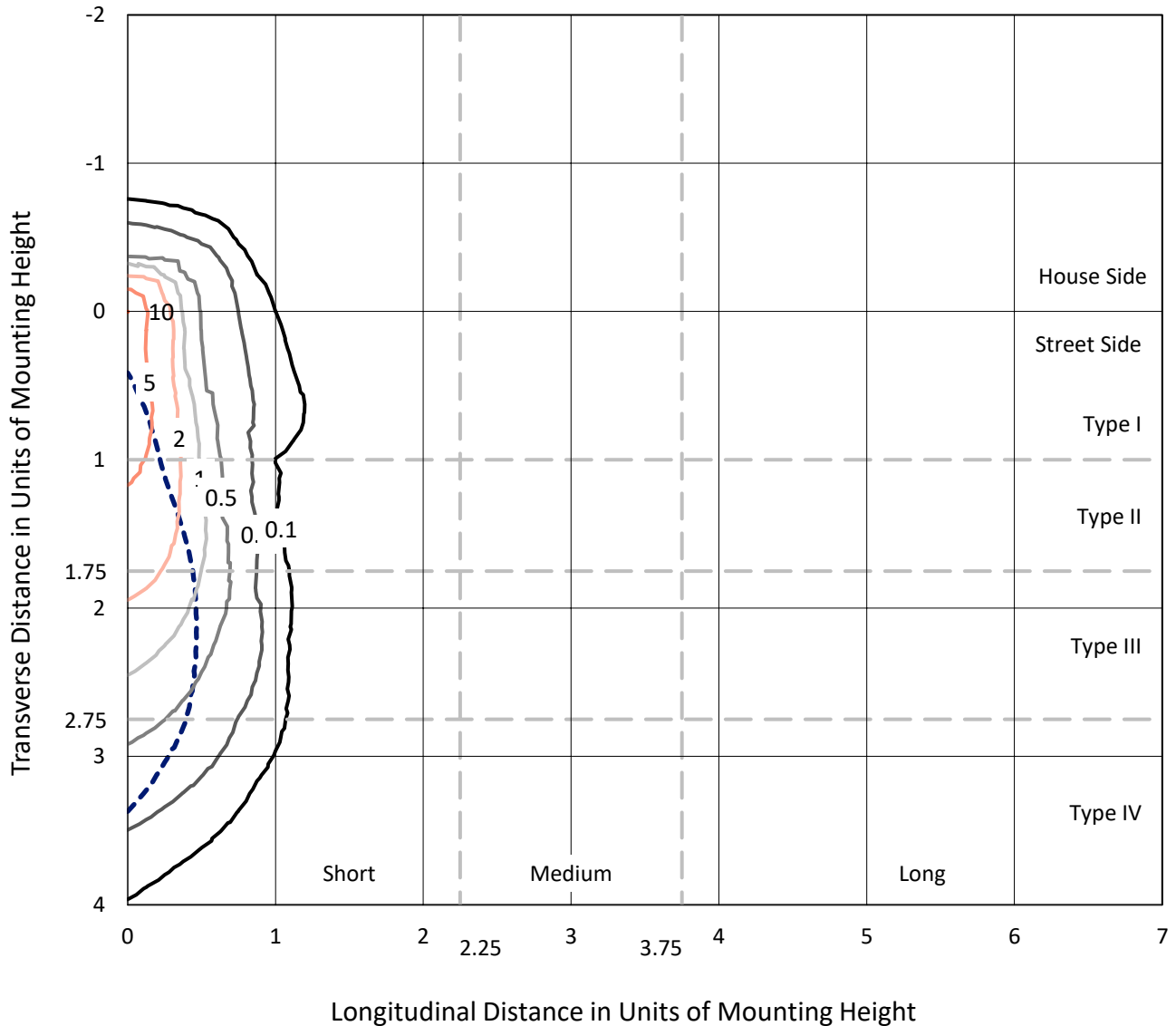
Input Watts (W): 80.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

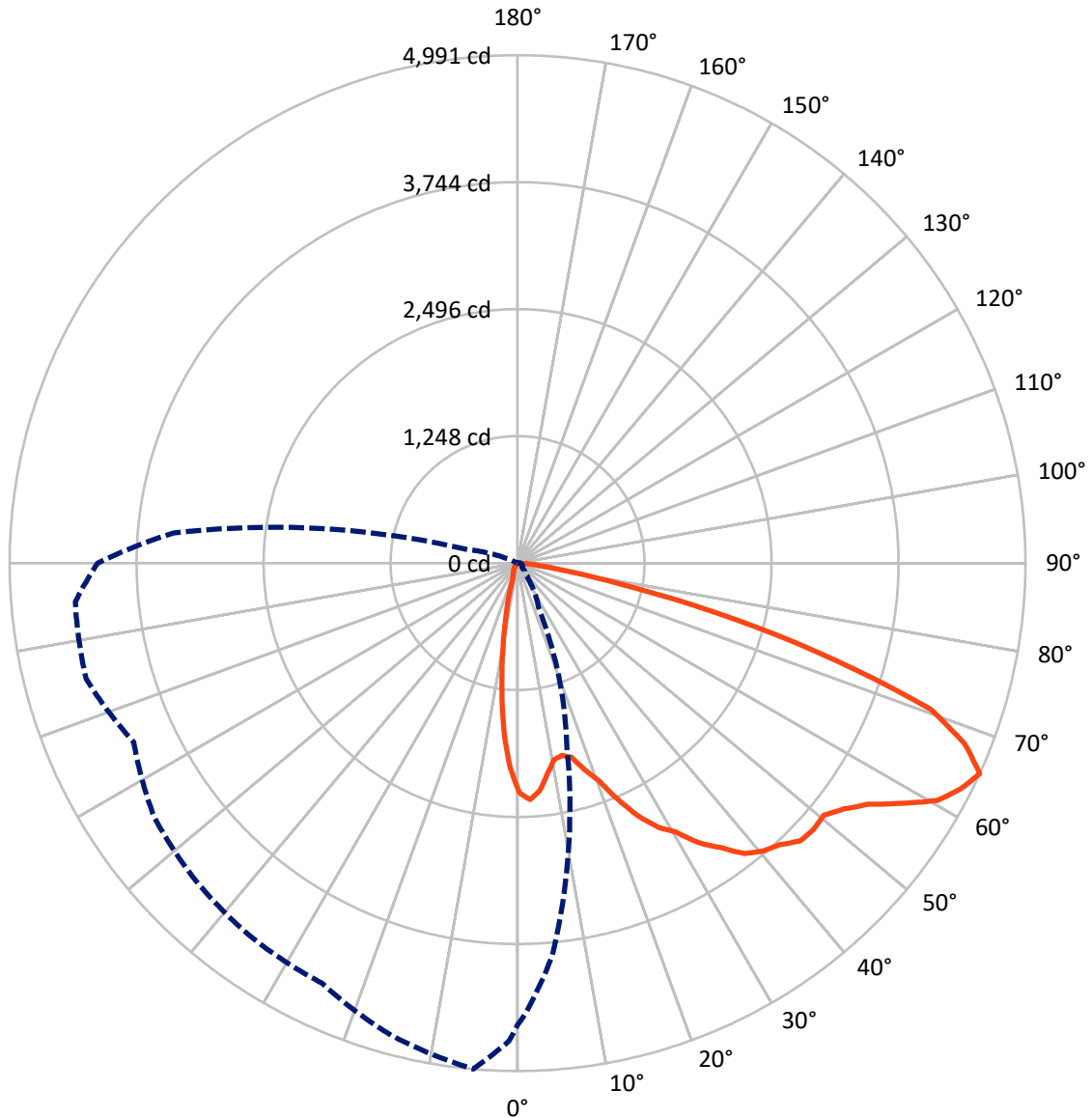
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10 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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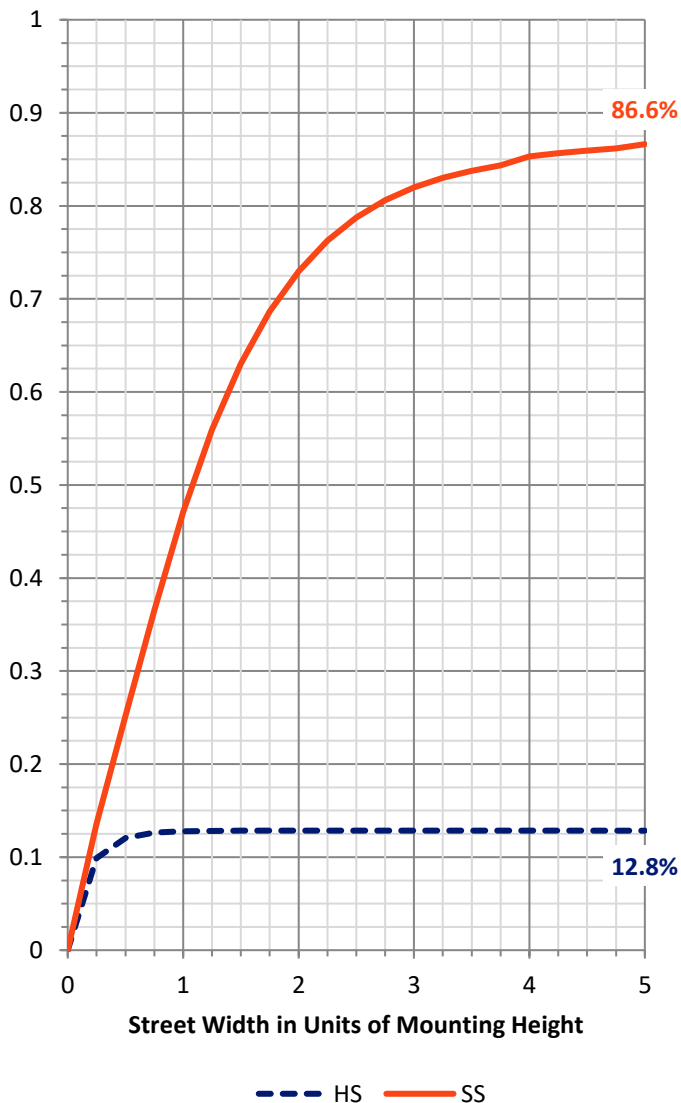
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	766.5	0.0	766.5
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	5137.1	0.0	5137.1
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	5903.7	0.0	5903.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.0	2.9
10°-20°	331.1	5.6
20°-30°	461.1	7.8
30°-40°	655.1	11.1
40°-50°	908.5	15.4
50°-60°	1237.9	21.0
60°-70°	1360.9	23.1
70°-80°	668.9	11.3
80°-90°	109.2	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°	5903.7	100.0
0°-180°	5903.7	100.0



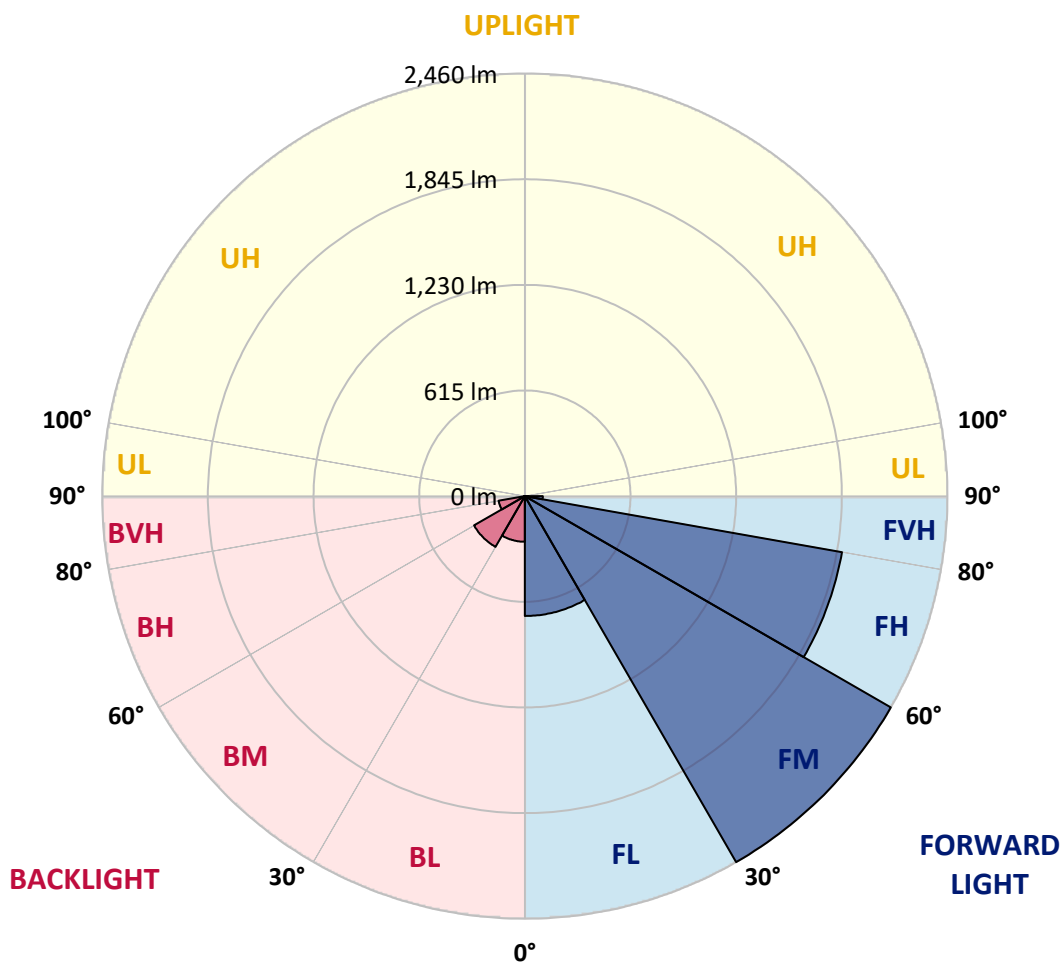
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.7	11.8			
FM (30°-60°)	2460.2	41.7			
FH (60°-80°)	1874.9	31.8			G2/5000
FVH (80°-90°)	104.3	1.8			G2/225
BL (0°-30°)	265.4	4.5	B1/500		
BM (30°-60°)	341.3	5.8	B1/1000		
BH (60°-80°)	154.9	2.6	B1/500		G1/500
BVH (80°-90°)	4.9	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°	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0
2.5°	2303.1	2330.2	2304.7	2215.6	2199.7	2156.7	2091.4	2086.7	2018.2	2026.2	1989.6
5°	2164.6	2191.7	2137.6	2019.8	1910.0	1822.4	1769.9	1676.0	1655.3	1609.2	1609.2
7.5°	2023.0	2021.4	1929.1	1830.4	1666.5	1505.7	1432.5	1297.2	1217.6	1174.6	1133.3
10°	1905.2	1879.7	1822.4	1618.7	1440.4	1273.3	1182.6	1093.5	1010.7	939.1	867.5
12.5°	1822.4	1838.4	1747.6	1526.4	1295.6	1179.4	1082.3	988.4	889.7	808.6	729.0
15°	1865.4	1840.0	1733.3	1505.7	1271.7	1112.6	983.6	869.0	759.2	652.6	592.1
17.5°	1999.1	1933.9	1808.1	1505.7	1222.4	1010.7	854.7	719.4	601.6	506.1	431.3
20°	2179.0	2104.2	1968.9	1561.4	1185.8	935.9	722.6	552.3	429.7	340.6	283.3
22.5°	2363.6	2304.7	2101.0	1583.7	1142.8	835.6	569.8	399.5	286.5	229.2	200.5
25°	2584.8	2502.1	2279.2	1672.8	1079.1	738.5	448.8	278.5	213.3	183.0	165.5
27.5°	2761.5	2747.2	2446.4	1726.9	1031.4	658.9	354.9	221.2	176.7	154.4	143.2
30°	2984.4	2906.4	2650.1	1835.2	977.3	568.2	296.0	199.0	162.3	138.5	130.5
32.5°	3118.0	3081.4	2756.7	1895.7	916.8	493.4	254.7	175.1	148.0	130.5	122.6
35°	3312.2	3239.0	2909.5	1933.9	885.0	450.4	229.2	159.2	124.1	106.6	97.1
37.5°	3528.7	3501.6	3092.6	1932.3	838.8	425.0	211.7	148.0	117.8	98.7	87.5
40°	3749.9	3640.1	3204.0	1976.8	814.9	405.9	199.0	141.7	111.4	93.9	79.6
42.5°	3915.5	3789.7	3332.9	1960.9	786.3	372.4	194.2	132.1	106.6	85.9	73.2
45°	3960.0	3915.5	3449.1	1956.1	765.6	345.4	186.2	130.5	103.5	81.2	68.4
47.5°	4046.0	4015.7	3592.4	1964.1	749.7	324.7	167.1	133.7	98.7	76.4	65.3
50°	4084.2	4030.1	3708.6	1983.2	713.1	299.2	149.6	140.1	97.1	74.8	62.1
52.5°	4241.8	4194.0	3867.7	2037.3	682.8	265.8	132.1	133.7	100.3	70.0	58.9
55°	4396.1	4342.0	4112.8	2161.5	639.8	238.7	113.0	117.8	95.5	63.7	52.5
57.5°	4607.8	4518.7	4276.8	2212.4	601.6	202.1	100.3	97.1	89.1	57.3	46.2
60°	4639.7	4676.3	4252.9	2180.6	561.9	178.3	87.5	74.8	95.5	50.9	39.8
62.5°	4746.3	4593.5	4141.5	2107.3	533.2	163.9	78.0	62.1	82.8	44.6	33.4
65°	4541.0	4428.0	3880.5	1871.8	496.6	165.5	68.4	50.9	52.5	36.6	27.1
67.5°	4240.2	4151.0	3447.5	1615.5	460.0	162.3	60.5	44.6	39.8	31.8	23.9
70°	3721.3	3528.7	2928.6	1311.5	405.9	151.2	50.9	39.8	33.4	25.5	17.5
72.5°	2707.4	2629.4	2101.0	1013.9	364.5	136.9	47.7	33.4	28.6	19.1	14.3
75°	1822.4	1693.5	1325.8	665.3	292.9	119.4	39.8	30.2	22.3	14.3	11.1
77.5°	963.0	910.4	751.3	316.7	162.3	55.7	22.3	17.5	12.7	11.1	6.4
80°	417.0	370.9	324.7	128.9	57.3	25.5	14.3	9.5	8.0	6.4	3.2
82.5°	213.3	203.7	168.7	55.7	33.4	19.1	8.0	6.4	4.8	3.2	1.6
85°	105.0	108.2	89.1	17.5	19.1	11.1	1.6	1.6	0.0	0.0	0.0
87.5°	8.0	8.0	6.4	3.2	4.8	1.6	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°	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0
2.5°	1975.2	1997.5	1959.3	1983.2	1972.1	1976.8	1981.6	1968.9	1972.1	2016.6	2018.2
5°	1582.1	1625.1	1609.2	1631.4	1669.6	1650.5	1668.1	1664.9	1668.1	1674.4	1703.1
7.5°	1128.5	1115.7	1146.0	1204.9	1273.3	1314.7	1294.0	1282.9	1276.5	1260.6	1279.7
10°	851.5	845.2	837.2	854.7	899.3	945.4	970.9	927.9	904.1	873.8	862.7
12.5°	706.7	666.9	644.6	617.6	630.3	671.7	673.3	631.9	593.7	577.8	595.3
15°	557.1	530.0	490.2	452.0	432.9	464.8	437.7	397.9	348.6	342.2	340.6
17.5°	397.9	382.0	353.3	337.4	315.1	307.2	278.5	218.1	183.0	173.5	176.7
20°	270.6	257.8	256.3	241.9	232.4	226.0	179.9	140.1	128.9	130.5	132.1
22.5°	200.5	194.2	186.2	184.6	176.7	168.7	132.1	117.8	109.8	109.8	114.6
25°	163.9	160.8	152.8	149.6	146.4	135.3	111.4	100.3	97.1	93.9	98.7
27.5°	140.1	138.5	133.7	128.9	125.7	114.6	97.1	87.5	84.4	84.4	84.4
30°	125.7	125.7	119.4	109.8	109.8	97.1	82.8	76.4	73.2	73.2	71.6
32.5°	117.8	114.6	106.6	100.3	95.5	82.8	73.2	66.8	62.1	62.1	63.7
35°	95.5	95.5	93.9	89.1	82.8	70.0	62.1	55.7	52.5	50.9	52.5
37.5°	84.4	79.6	73.2	74.8	71.6	60.5	52.5	47.7	43.0	43.0	43.0
40°	76.4	71.6	65.3	60.5	58.9	54.1	46.2	38.2	33.4	31.8	31.8
42.5°	68.4	65.3	55.7	47.7	46.2	46.2	35.0	28.6	23.9	23.9	23.9
45°	63.7	58.9	50.9	41.4	33.4	35.0	28.6	20.7	17.5	15.9	15.9
47.5°	60.5	55.7	44.6	35.0	25.5	25.5	20.7	14.3	11.1	9.5	9.5
50°	55.7	50.9	39.8	28.6	19.1	15.9	12.7	8.0	4.8	3.2	3.2
52.5°	52.5	47.7	35.0	23.9	15.9	11.1	8.0	1.6	0.0	0.0	0.0
55°	47.7	41.4	30.2	19.1	12.7	6.4	1.6	0.0	0.0	0.0	0.0
57.5°	41.4	36.6	23.9	14.3	8.0	1.6	0.0	0.0	0.0	0.0	0.0
60°	35.0	30.2	19.1	11.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	28.6	25.5	14.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	23.9	19.1	11.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	20.7	15.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	15.9	11.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11.1	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.6	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°	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0
2.5°	2024.6	2072.3	2116.9	2129.6	2164.6	2261.7	2261.7	2307.9	2390.7	2420.9	2427.3
5°	1707.8	1758.8	1768.3	1867.0	1913.2	2011.9	2077.1	2233.1	2327.0	2385.9	2422.5
7.5°	1298.8	1316.3	1352.9	1445.2	1535.9	1655.3	1779.5	1978.4	2144.0	2210.8	2335.0
10°	892.9	945.4	1025.0	1107.8	1249.4	1381.6	1542.3	1730.1	1933.9	2016.6	2123.3
12.5°	601.6	674.9	802.2	920.0	1050.5	1184.2	1337.0	1588.5	1819.3	1933.9	2040.5
15°	351.8	440.9	550.7	741.7	915.2	1064.8	1217.6	1472.3	1752.4	1900.4	2031.0
17.5°	178.3	205.3	296.0	461.6	690.8	935.9	1163.5	1488.2	1803.3	1984.8	2093.0
20°	133.7	141.7	167.1	245.1	472.7	773.5	1112.6	1512.1	1945.0	2166.2	2225.1
22.5°	116.2	122.6	133.7	159.2	265.8	592.1	1040.9	1571.0	2137.6	2346.1	2470.2
25°	98.7	105.0	114.6	130.5	170.3	402.7	953.4	1633.0	2309.5	2572.1	2688.3
27.5°	85.9	90.7	100.3	113.0	138.5	256.3	802.2	1715.8	2572.1	2845.9	2876.1
30°	73.2	78.0	85.9	100.3	117.8	181.4	588.9	1726.9	2717.0	2965.3	3049.6
32.5°	63.7	65.3	74.8	87.5	98.7	143.2	413.8	1738.1	2823.6	3119.6	3137.1
35°	52.5	55.7	65.3	73.2	85.9	113.0	313.6	1682.4	2962.1	3278.8	3274.0
37.5°	43.0	47.7	54.1	60.5	70.0	95.5	249.9	1578.9	3135.6	3525.5	3375.9
40°	33.4	38.2	44.6	52.5	58.9	85.9	187.8	1422.9	3317.0	3646.5	3487.3
42.5°	23.9	27.1	33.4	41.4	52.5	71.6	135.3	1238.3	3388.6	3788.1	3621.0
45°	17.5	20.7	25.5	35.0	54.1	57.3	93.9	1069.6	3465.0	3850.2	3590.8
47.5°	9.5	12.7	19.1	30.2	47.7	43.0	66.8	918.4	3552.6	3905.9	3614.6
50°	3.2	4.8	11.1	31.8	38.2	33.4	52.5	837.2	3638.5	3917.1	3662.4
52.5°	0.0	0.0	6.4	33.4	28.6	25.5	46.2	805.4	3616.2	3952.1	3632.2
55°	0.0	0.0	1.6	14.3	15.9	19.1	38.2	803.8	3773.8	3963.2	3797.7
57.5°	0.0	0.0	0.0	4.8	9.5	15.9	33.4	752.9	3874.1	4240.2	4020.5
60°	0.0	0.0	0.0	1.6	6.4	11.1	25.5	708.3	3976.0	4364.3	4259.3
62.5°	0.0	0.0	0.0	0.0	1.6	4.8	17.5	639.8	3770.6	4354.8	4490.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	11.1	506.1	3391.8	4127.2	4362.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.4	350.2	2970.0	3840.7	4128.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	211.7	2397.0	3367.9	3501.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.7	1711.0	2674.0	2872.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.6	1058.4	1954.6	2199.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	686.0	1480.2	1669.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	366.1	927.9	1079.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	159.2	563.4	649.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.9	342.2	390.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5	70.0
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°	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0
2.5°	2430.5	2476.6	2494.1	2467.1	2470.2	2414.5	2406.6	2328.6	2296.8	2303.1
5°	2541.9	2608.7	2645.3	2615.1	2546.6	2440.0	2342.9	2250.6	2193.3	2164.6
7.5°	2516.4	2591.2	2637.4	2666.0	2588.0	2416.1	2268.1	2094.6	2021.4	2023.0
10°	2376.3	2532.3	2626.2	2589.6	2553.0	2381.1	2151.9	1964.1	1898.8	1905.2
12.5°	2263.3	2436.8	2492.5	2521.2	2446.4	2309.5	2155.1	1940.2	1867.0	1822.4
15°	2193.3	2322.2	2325.4	2370.0	2339.7	2339.7	2188.5	1978.4	1914.8	1865.4
17.5°	2193.3	2221.9	2218.8	2234.7	2285.6	2346.1	2272.9	2132.8	2007.1	1999.1
20°	2242.6	2153.5	2132.8	2139.2	2182.2	2362.0	2459.1	2284.0	2204.4	2179.0
22.5°	2357.2	2161.5	2035.7	2013.4	2145.5	2360.4	2578.5	2522.8	2384.3	2363.6
25°	2514.8	2147.1	2010.3	1981.6	2081.9	2417.7	2742.4	2753.6	2627.8	2584.8
27.5°	2664.4	2210.8	2007.1	2000.7	2132.8	2405.0	2855.4	2938.2	2796.5	2761.5
30°	2715.4	2274.5	2066.0	1981.6	2151.9	2451.1	2852.2	3068.7	2976.4	2984.4
32.5°	2775.8	2338.1	2072.3	2038.9	2233.1	2526.0	2943.0	3278.8	3212.0	3118.0
35°	2865.0	2424.1	2132.8	2102.6	2290.4	2592.8	2962.1	3433.2	3422.1	3312.2
37.5°	2941.4	2508.4	2258.6	2263.3	2465.5	2701.0	3046.4	3622.6	3603.5	3528.7
40°	2995.5	2626.2	2454.3	2467.1	2618.3	2822.0	3196.0	3718.1	3859.8	3749.9
42.5°	3003.5	2731.3	2678.8	2780.6	2922.3	3009.8	3256.5	3783.4	3987.1	3915.5
45°	3033.7	2898.4	3044.8	3119.6	3235.8	3175.3	3253.3	3894.8	3996.6	3960.0
47.5°	3151.5	3202.4	3387.0	3614.6	3656.0	3457.1	3329.7	3912.3	4050.8	4046.0
50°	3274.0	3528.7	3788.1	3939.3	3991.9	3651.3	3401.4	3898.0	4122.4	4084.2
52.5°	3410.9	3812.0	4186.0	4372.3	4343.6	3866.1	3482.5	4014.2	4254.5	4241.8
55°	3496.9	3939.3	4442.3	4701.7	4679.5	4106.5	3740.4	4181.3	4428.0	4396.1
57.5°	3724.5	4146.3	4697.0	4817.9	4876.8	4421.6	3920.2	4455.0	4572.8	4607.8
60°	3912.3	4281.5	4763.8	4938.9	4959.6	4609.4	4235.4	4736.8	4757.5	4639.7
62.5°	4187.6	4334.1	4622.2	4779.7	4886.4	4716.1	4518.7	4888.0	4754.3	4746.3
65°	4389.8	4162.2	4357.9	4445.5	4513.9	4553.7	4803.6	4991.4	4695.4	4541.0
67.5°	4276.8	3837.5	3800.9	3805.6	3826.3	4066.7	4708.1	4738.4	4367.5	4240.2
70°	3764.3	3148.3	3098.9	3137.1	3033.7	3323.4	4321.3	4307.0	3853.4	3721.3
72.5°	3044.8	2295.2	2210.8	2263.3	2287.2	2594.4	3635.3	3266.1	2810.9	2707.4
75°	2419.3	1682.4	1419.8	1547.1	1628.3	1889.3	2839.5	2218.8	1962.5	1822.4
77.5°	1900.4	1273.3	1104.6	1053.7	1128.5	1373.6	2066.0	1165.1	1028.2	963.0
80°	1204.9	935.9	1015.5	942.3	974.1	980.5	1076.0	530.0	421.8	417.0
82.5°	725.8	639.8	760.8	418.6	762.4	681.2	447.3	240.3	213.3	213.3
85°	514.1	396.3	262.6	170.3	339.0	374.0	173.5	124.1	108.2	105.0
87.5°	257.8	122.6	58.9	38.2	43.0	70.0	20.7	9.5	9.5	8.0
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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