

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: P677500

Luminaire Tested: **CCW-SA-2C-840-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677500  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-840-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SLR distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5539.8 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

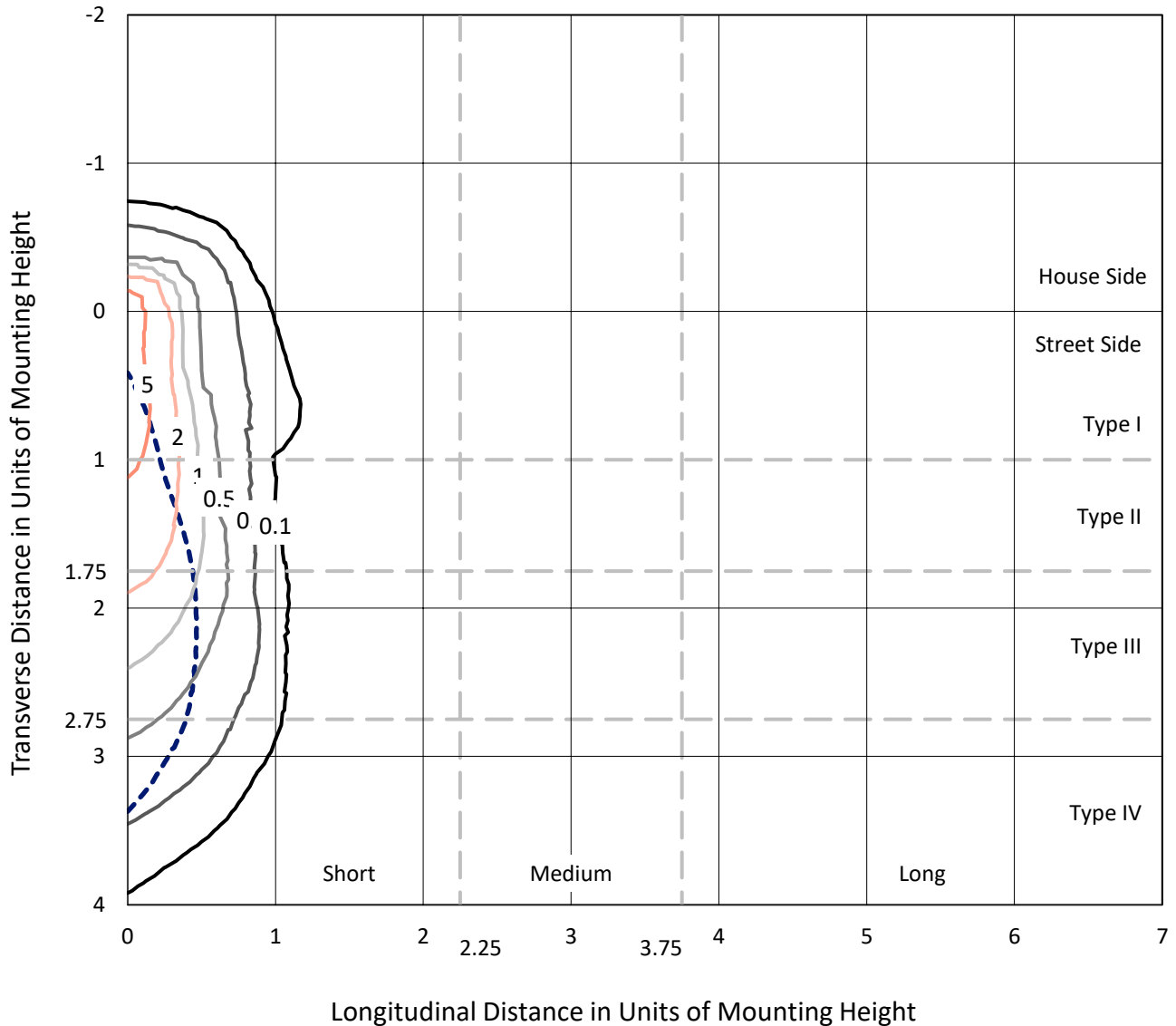
Input Watts (W): 62.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

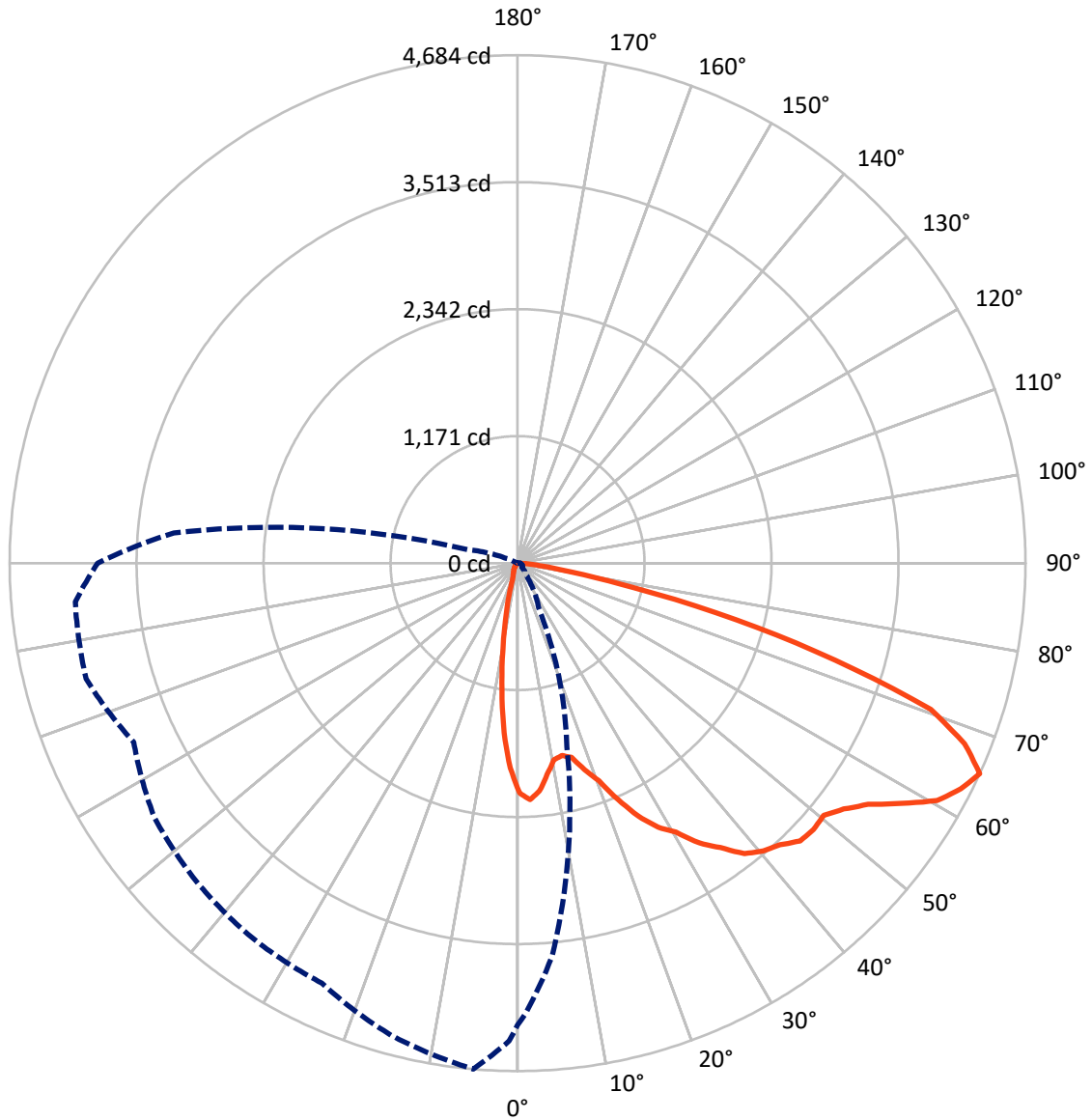
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.4 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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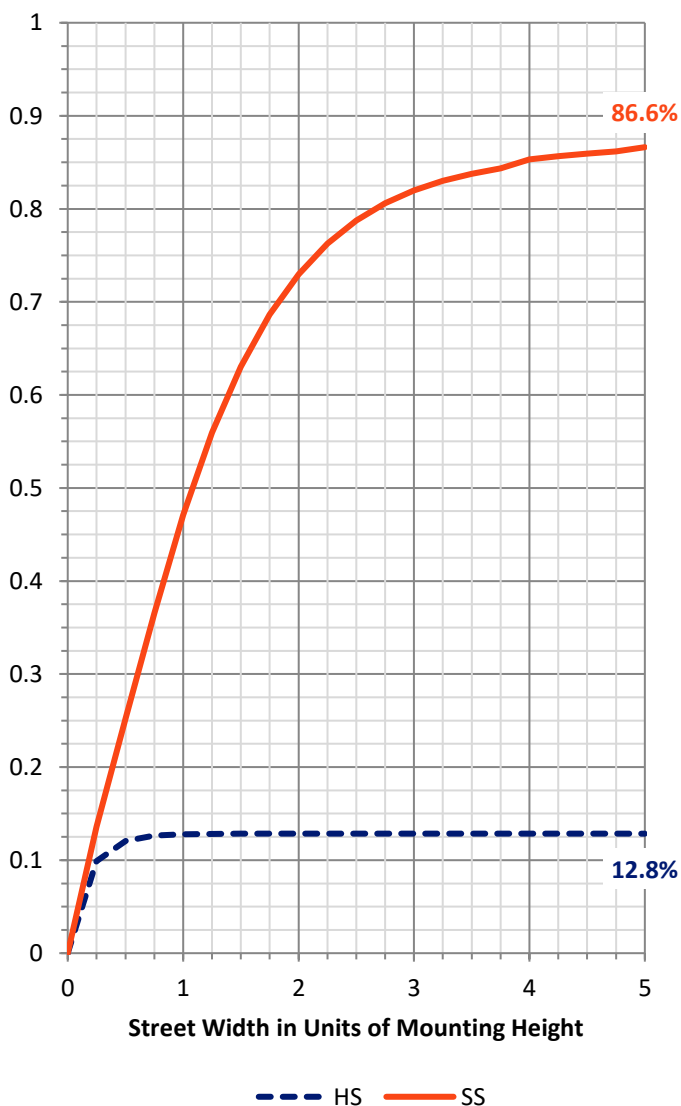
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	719.3	0.0	719.3
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	4820.5	0.0	4820.5
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	5539.8	0.0	5539.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.4	2.9
10°-20°	310.6	5.6
20°-30°	432.7	7.8
30°-40°	614.8	11.1
40°-50°	852.5	15.4
50°-60°	1161.6	21.0
60°-70°	1277.1	23.1
70°-80°	627.7	11.3
80°-90°	102.5	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°	5539.8	100.0
0°-180°	5539.8	100.0



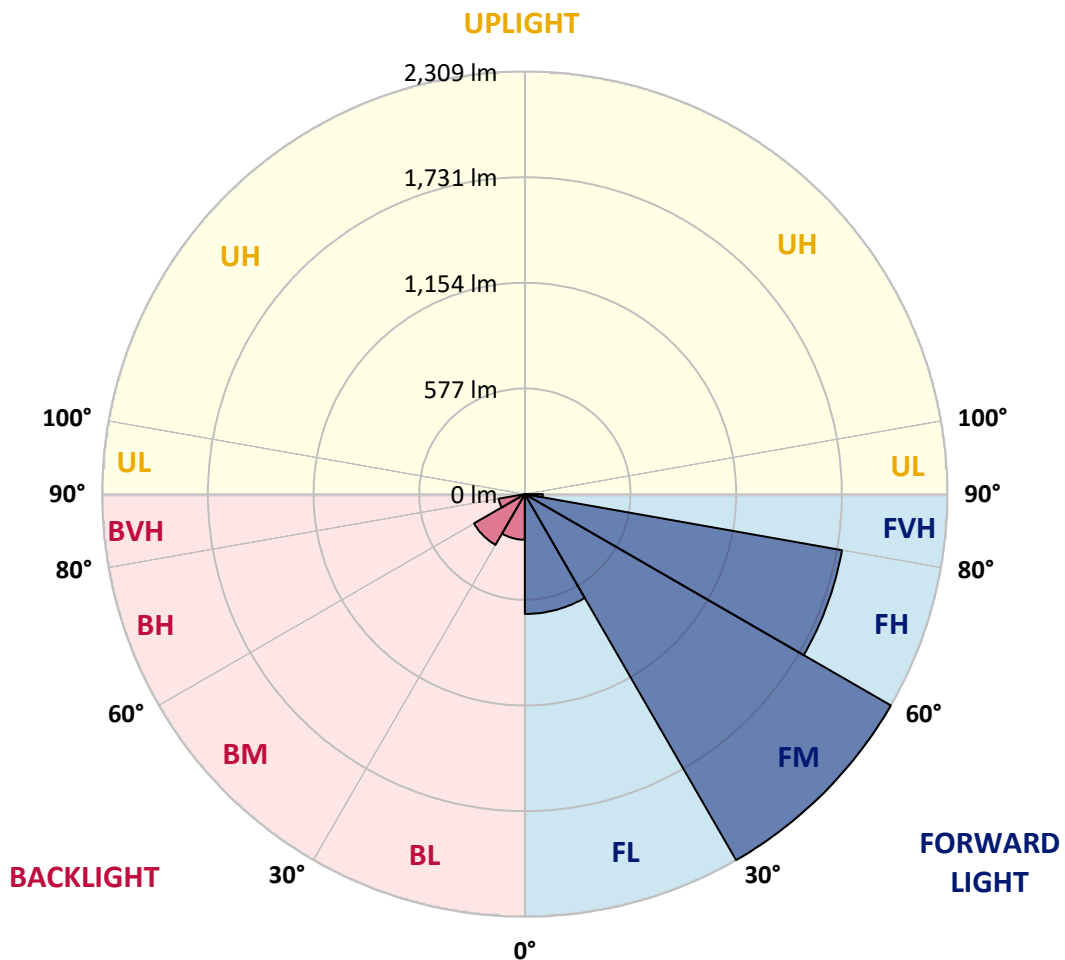
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	654.7	11.8			
FM (30°-60°)	2308.6	41.7			
FH (60°-80°)	1759.4	31.8			G1/1800
FVH (80°-90°)	97.9	1.8			G1/100
BL (0°-30°)	249.1	4.5	B1/500		
BM (30°-60°)	320.2	5.8	B1/1000		
BH (60°-80°)	145.4	2.6	B1/500		G1/500
BVH (80°-90°)	4.6	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9
2.5°	2161.2	2186.6	2162.7	2079.0	2064.1	2023.8	1962.5	1958.0	1893.8	1901.3	1866.9
5°	2031.2	2056.6	2005.8	1895.3	1792.3	1710.1	1660.8	1572.7	1553.3	1510.0	1510.0
7.5°	1898.3	1896.8	1810.2	1717.6	1563.7	1412.9	1344.2	1217.2	1142.6	1102.2	1063.4
10°	1787.8	1763.9	1710.1	1518.9	1351.7	1194.8	1109.7	1026.1	948.4	881.2	814.0
12.5°	1710.1	1725.1	1639.9	1432.3	1215.8	1106.7	1015.6	927.5	834.9	758.7	684.0
15°	1750.4	1726.5	1626.5	1412.9	1193.3	1044.0	923.0	815.5	712.4	612.4	555.6
17.5°	1875.9	1814.7	1696.7	1412.9	1147.0	948.4	802.0	675.1	564.6	474.9	404.8
20°	2044.7	1974.5	1847.5	1465.2	1112.7	878.2	678.1	518.3	403.3	319.6	265.9
22.5°	2217.9	2162.7	1971.5	1486.1	1072.4	784.1	534.7	374.9	268.8	215.1	188.2
25°	2425.5	2347.9	2138.8	1569.7	1012.6	693.0	421.2	261.4	200.1	171.8	155.3
27.5°	2591.3	2577.9	2295.6	1620.5	967.8	618.3	333.1	207.6	165.8	144.9	134.4
30°	2800.4	2727.2	2486.8	1722.1	917.0	533.2	277.8	186.7	152.3	129.9	122.5
32.5°	2925.9	2891.5	2586.8	1778.8	860.3	463.0	239.0	164.3	138.9	122.5	115.0
35°	3108.1	3039.4	2730.2	1814.7	830.4	422.7	215.1	149.4	116.5	100.1	91.1
37.5°	3311.2	3285.8	2902.0	1813.2	787.1	398.8	198.6	138.9	110.5	92.6	82.1
40°	3518.8	3415.8	3006.5	1855.0	764.7	380.9	186.7	132.9	104.5	88.1	74.7
42.5°	3674.1	3556.1	3127.5	1840.1	737.8	349.5	182.2	124.0	100.1	80.7	68.7
45°	3716.0	3674.1	3236.5	1835.6	718.4	324.1	174.7	122.5	97.1	76.2	64.2
47.5°	3796.6	3768.2	3370.9	1843.0	703.5	304.7	156.8	125.5	92.6	71.7	61.2
50°	3832.5	3781.7	3480.0	1861.0	669.1	280.8	140.4	131.4	91.1	70.2	58.2
52.5°	3980.3	3935.5	3629.3	1911.7	640.7	249.4	124.0	125.5	94.1	65.7	55.3
55°	4125.2	4074.4	3859.3	2028.2	600.4	224.0	106.0	110.5	89.6	59.7	49.3
57.5°	4323.8	4240.2	4013.2	2076.0	564.6	189.7	94.1	91.1	83.6	53.8	43.3
60°	4353.7	4388.1	3990.8	2046.2	527.2	167.3	82.1	70.2	89.6	47.8	37.3
62.5°	4453.8	4310.4	3886.2	1977.5	500.3	153.8	73.2	58.2	77.7	41.8	31.4
65°	4261.1	4155.1	3641.3	1756.4	466.0	155.3	64.2	47.8	49.3	34.4	25.4
67.5°	3978.8	3895.2	3235.0	1516.0	431.6	152.3	56.8	41.8	37.3	29.9	22.4
70°	3491.9	3311.2	2748.1	1230.7	380.9	141.9	47.8	37.3	31.4	23.9	16.4
72.5°	2540.5	2467.3	1971.5	951.4	342.0	128.4	44.8	31.4	26.9	17.9	13.4
75°	1710.1	1589.1	1244.1	624.3	274.8	112.0	37.3	28.4	20.9	13.4	10.5
77.5°	903.6	854.3	705.0	297.2	152.3	52.3	20.9	16.4	11.9	10.5	6.0
80°	391.3	348.0	304.7	121.0	53.8	23.9	13.4	9.0	7.5	6.0	3.0
82.5°	200.1	191.2	158.3	52.3	31.4	17.9	7.5	6.0	4.5	3.0	1.5
85°	98.6	101.6	83.6	16.4	17.9	10.5	1.5	1.5	0.0	0.0	0.0
87.5°	7.5	7.5	6.0	3.0	4.5	1.5	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°	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9
2.5°	1853.5	1874.4	1838.6	1861.0	1850.5	1855.0	1859.5	1847.5	1850.5	1892.3	1893.8
5°	1484.6	1524.9	1510.0	1530.9	1566.7	1548.8	1565.2	1562.3	1565.2	1571.2	1598.1
7.5°	1058.9	1047.0	1075.4	1130.6	1194.8	1233.7	1214.3	1203.8	1197.8	1182.9	1200.8
10°	799.1	793.1	785.6	802.0	843.9	887.2	911.1	870.7	848.3	820.0	809.5
12.5°	663.1	625.8	604.9	579.5	591.4	630.3	631.8	592.9	557.1	542.2	558.6
15°	522.7	497.4	460.0	424.2	406.2	436.1	410.7	373.4	327.1	321.1	319.6
17.5°	373.4	358.5	331.6	316.6	295.7	288.3	261.4	204.6	171.8	162.8	165.8
20°	253.9	242.0	240.5	227.0	218.1	212.1	168.8	131.4	121.0	122.5	124.0
22.5°	188.2	182.2	174.7	173.3	165.8	158.3	124.0	110.5	103.1	103.1	107.5
25°	153.8	150.8	143.4	140.4	137.4	127.0	104.5	94.1	91.1	88.1	92.6
27.5°	131.4	129.9	125.5	121.0	118.0	107.5	91.1	82.1	79.2	79.2	79.2
30°	118.0	118.0	112.0	103.1	103.1	91.1	77.7	71.7	68.7	68.7	67.2
32.5°	110.5	107.5	100.1	94.1	89.6	77.7	68.7	62.7	58.2	58.2	59.7
35°	89.6	89.6	88.1	83.6	77.7	65.7	58.2	52.3	49.3	47.8	49.3
37.5°	79.2	74.7	68.7	70.2	67.2	56.8	49.3	44.8	40.3	40.3	40.3
40°	71.7	67.2	61.2	56.8	55.3	50.8	43.3	35.8	31.4	29.9	29.9
42.5°	64.2	61.2	52.3	44.8	43.3	43.3	32.9	26.9	22.4	22.4	22.4
45°	59.7	55.3	47.8	38.8	31.4	32.9	26.9	19.4	16.4	14.9	14.9
47.5°	56.8	52.3	41.8	32.9	23.9	23.9	19.4	13.4	10.5	9.0	9.0
50°	52.3	47.8	37.3	26.9	17.9	14.9	11.9	7.5	4.5	3.0	3.0
52.5°	49.3	44.8	32.9	22.4	14.9	10.5	7.5	1.5	0.0	0.0	0.0
55°	44.8	38.8	28.4	17.9	11.9	6.0	1.5	0.0	0.0	0.0	0.0
57.5°	38.8	34.4	22.4	13.4	7.5	1.5	0.0	0.0	0.0	0.0	0.0
60°	32.9	28.4	17.9	10.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	26.9	23.9	13.4	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	22.4	17.9	10.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	19.4	14.9	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14.9	10.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.5	7.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.5	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°	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9
2.5°	1899.8	1944.6	1986.4	1998.4	2031.2	2122.3	2122.3	2165.7	2243.3	2271.7	2277.7
5°	1602.6	1650.4	1659.3	1751.9	1795.3	1887.9	1949.1	2095.5	2183.6	2238.8	2273.2
7.5°	1218.7	1235.2	1269.5	1356.1	1441.3	1553.3	1669.8	1856.5	2011.8	2074.5	2191.0
10°	837.9	887.2	961.8	1039.5	1172.4	1296.4	1447.3	1623.5	1814.7	1892.3	1992.4
12.5°	564.6	633.3	752.8	863.3	985.7	1111.2	1254.6	1490.6	1707.1	1814.7	1914.7
15°	330.1	413.7	516.8	696.0	858.8	999.2	1142.6	1381.5	1644.4	1783.3	1905.8
17.5°	167.3	192.7	277.8	433.1	648.2	878.2	1091.8	1396.5	1692.2	1862.5	1964.0
20°	125.5	132.9	156.8	230.0	443.6	725.9	1044.0	1418.9	1825.1	2032.7	2088.0
22.5°	109.0	115.0	125.5	149.4	249.4	555.6	976.8	1474.1	2005.8	2201.5	2318.0
25°	92.6	98.6	107.5	122.5	159.8	377.9	894.6	1532.4	2167.1	2413.6	2522.6
27.5°	80.7	85.1	94.1	106.0	129.9	240.5	752.8	1610.0	2413.6	2670.5	2698.8
30°	68.7	73.2	80.7	94.1	110.5	170.3	552.6	1620.5	2549.5	2782.5	2861.6
32.5°	59.7	61.2	70.2	82.1	92.6	134.4	388.3	1631.0	2649.6	2927.4	2943.8
35°	49.3	52.3	61.2	68.7	80.7	106.0	294.2	1578.7	2779.5	3076.7	3072.2
37.5°	40.3	44.8	50.8	56.8	65.7	89.6	234.5	1481.6	2942.3	3308.2	3167.8
40°	31.4	35.8	41.8	49.3	55.3	80.7	176.2	1335.2	3112.6	3421.7	3272.4
42.5°	22.4	25.4	31.4	38.8	49.3	67.2	127.0	1162.0	3179.8	3554.7	3397.8
45°	16.4	19.4	23.9	32.9	50.8	53.8	88.1	1003.7	3251.5	3612.9	3369.5
47.5°	9.0	11.9	17.9	28.4	44.8	40.3	62.7	861.8	3333.6	3665.2	3391.9
50°	3.0	4.5	10.5	29.9	35.8	31.4	49.3	785.6	3414.3	3675.6	3436.7
52.5°	0.0	0.0	6.0	31.4	26.9	23.9	43.3	755.7	3393.4	3708.5	3408.3
55°	0.0	0.0	1.5	13.4	14.9	17.9	35.8	754.2	3541.2	3718.9	3563.6
57.5°	0.0	0.0	0.0	4.5	9.0	14.9	31.4	706.5	3635.3	3978.8	3772.7
60°	0.0	0.0	0.0	1.5	6.0	10.5	23.9	664.6	3730.9	4095.3	3996.7
62.5°	0.0	0.0	0.0	0.0	1.5	4.5	16.4	600.4	3538.2	4086.4	4213.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	10.5	474.9	3182.8	3872.8	4093.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.0	328.6	2787.0	3603.9	3874.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	198.6	2249.3	3160.4	3285.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.1	1605.6	2509.2	2695.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.4	993.2	1834.1	2064.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	643.7	1389.0	1566.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	343.5	870.7	1012.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.4	528.7	609.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.8	321.1	365.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.3	65.7
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°	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9	2117.9
2.5°	2280.7	2324.0	2340.4	2315.0	2318.0	2265.7	2258.3	2185.1	2155.2	2161.2
5°	2385.2	2447.9	2482.3	2453.9	2389.7	2289.6	2198.5	2111.9	2058.1	2031.2
7.5°	2361.3	2431.5	2474.8	2501.7	2428.5	2267.2	2128.3	1965.5	1896.8	1898.3
10°	2229.9	2376.2	2464.4	2430.0	2395.7	2234.4	2019.3	1843.0	1781.8	1787.8
12.5°	2123.8	2286.6	2338.9	2365.8	2295.6	2167.1	2022.3	1820.6	1751.9	1710.1
15°	2058.1	2179.1	2182.1	2223.9	2195.5	2195.5	2053.6	1856.5	1796.7	1750.4
17.5°	2058.1	2085.0	2082.0	2096.9	2144.7	2201.5	2132.8	2001.4	1883.4	1875.9
20°	2104.4	2020.8	2001.4	2007.3	2047.7	2216.4	2307.5	2143.2	2068.6	2044.7
22.5°	2212.0	2028.2	1910.3	1889.3	2013.3	2214.9	2419.6	2367.3	2237.3	2217.9
25°	2359.8	2014.8	1886.4	1859.5	1953.6	2268.7	2573.4	2583.8	2465.9	2425.5
27.5°	2500.2	2074.5	1883.4	1877.4	2001.4	2256.8	2679.4	2757.1	2624.2	2591.3
30°	2548.0	2134.3	1938.6	1859.5	2019.3	2300.1	2676.4	2879.6	2792.9	2800.4
32.5°	2604.8	2194.0	1944.6	1913.2	2095.5	2370.3	2761.6	3076.7	3014.0	2925.9
35°	2688.4	2274.7	2001.4	1973.0	2149.2	2433.0	2779.5	3221.6	3211.1	3108.1
37.5°	2760.1	2353.8	2119.4	2123.8	2313.5	2534.6	2858.7	3399.3	3381.4	3311.2
40°	2810.9	2464.4	2303.1	2315.0	2456.9	2648.1	2999.1	3488.9	3621.9	3518.8
42.5°	2818.3	2562.9	2513.6	2609.2	2742.2	2824.3	3055.8	3550.2	3741.3	3674.1
45°	2846.7	2719.8	2857.2	2927.4	3036.4	2979.6	3052.8	3654.7	3750.3	3716.0
47.5°	2957.2	3005.0	3178.3	3391.9	3430.7	3244.0	3124.5	3671.2	3801.1	3796.6
50°	3072.2	3311.2	3554.7	3696.5	3745.8	3426.2	3191.7	3657.7	3868.3	3832.5
52.5°	3200.7	3577.1	3928.0	4102.8	4075.9	3627.8	3267.9	3766.7	3992.3	3980.3
55°	3281.3	3696.5	4168.5	4412.0	4391.0	3853.4	3509.8	3923.6	4155.1	4125.2
57.5°	3494.9	3890.7	4407.5	4521.0	4576.2	4149.1	3678.6	4180.5	4291.0	4323.8
60°	3671.2	4017.7	4470.2	4634.5	4653.9	4325.3	3974.3	4444.8	4464.2	4353.7
62.5°	3929.5	4066.9	4337.3	4485.1	4585.2	4425.4	4240.2	4586.7	4461.2	4453.8
65°	4119.2	3905.6	4089.3	4171.5	4235.7	4273.1	4507.5	4683.8	4406.0	4261.1
67.5°	4013.2	3601.0	3566.6	3571.1	3590.5	3816.0	4417.9	4446.3	4098.3	3978.8
70°	3532.3	2954.2	2907.9	2943.8	2846.7	3118.5	4055.0	4041.6	3615.9	3491.9
72.5°	2857.2	2153.7	2074.5	2123.8	2146.2	2434.5	3411.3	3064.8	2637.6	2540.5
75°	2270.2	1578.7	1332.2	1451.7	1527.9	1772.8	2664.5	2082.0	1841.6	1710.1
77.5°	1783.3	1194.8	1036.5	988.7	1058.9	1288.9	1938.6	1093.3	964.8	903.6
80°	1130.6	878.2	952.9	884.2	914.1	920.0	1009.6	497.4	395.8	391.3
82.5°	681.1	600.4	713.9	392.8	715.4	639.2	419.7	225.5	200.1	200.1
85°	482.4	371.9	246.4	159.8	318.1	351.0	162.8	116.5	101.6	98.6
87.5°	242.0	115.0	55.3	35.8	40.3	65.7	19.4	9.0	9.0	7.5
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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