

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: P677345

Luminaire Tested: **CCW-SA-2C-835-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677345  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-835-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SLL distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

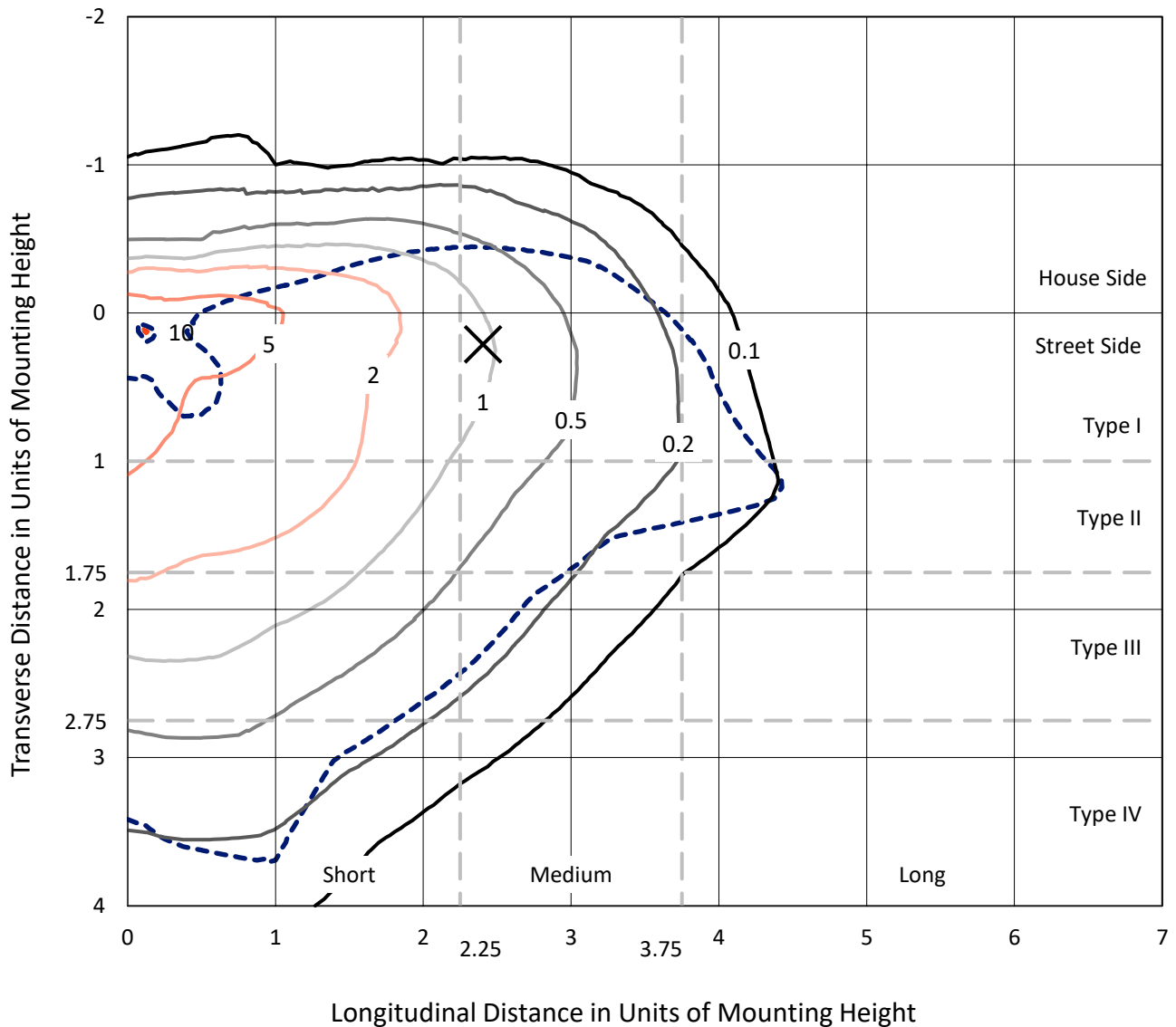
Lumens per Lamp: N/A  
Luminaire Lumens: 5405.4 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

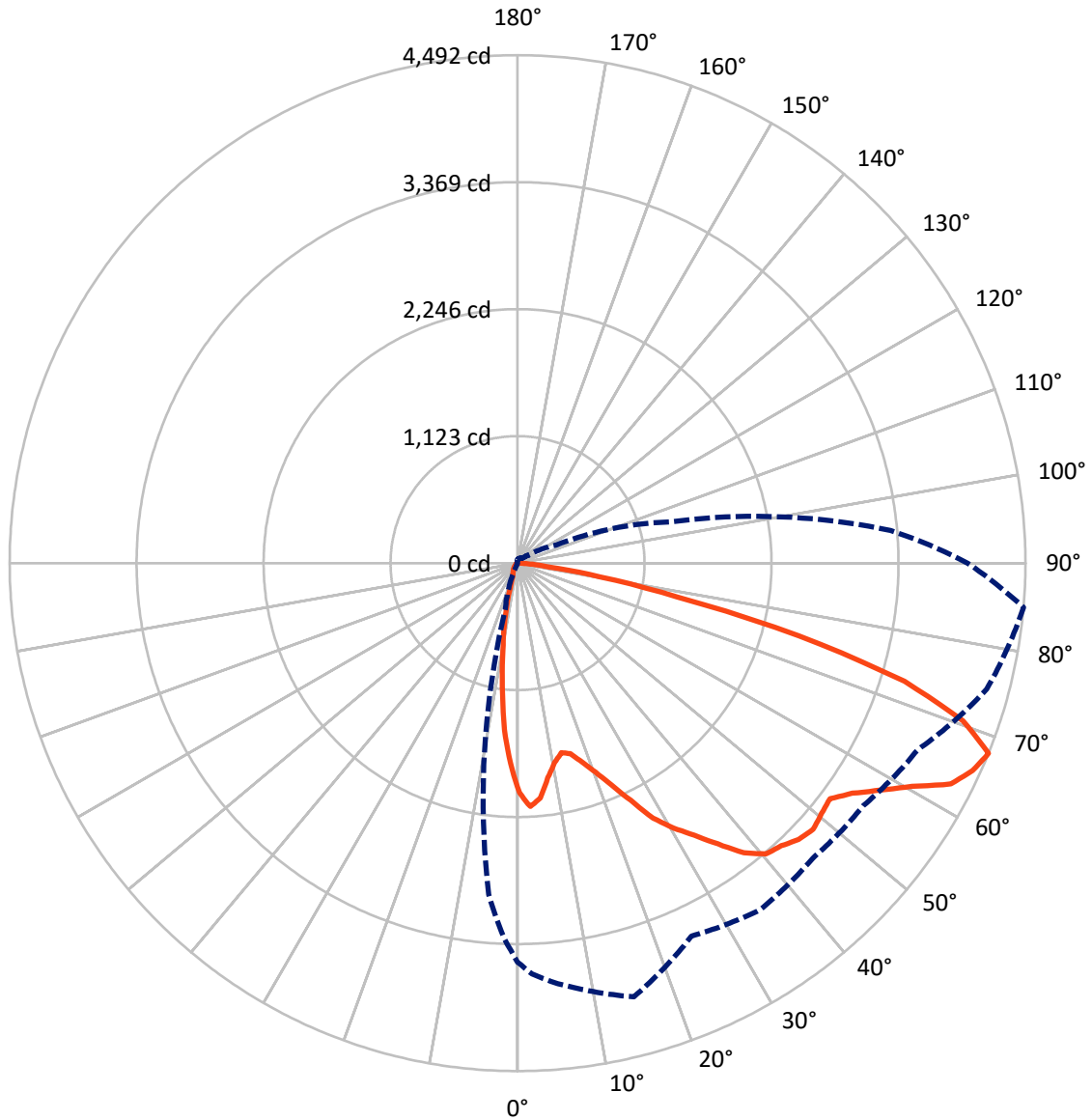
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.2 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	938.6	0.0	938.6
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	4466.9	0.0	4466.9
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	5405.4	0.0	5405.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.4	2.9
10°-20°	302.8	5.6
20°-30°	419.0	7.8
30°-40°	592.1	11.0
40°-50°	806.2	14.9
50°-60°	1067.8	19.8
60°-70°	1239.8	22.9
70°-80°	702.1	13.0
80°-90°	121.3	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°	5405.4	100.0
0°-180°	5405.4	100.0



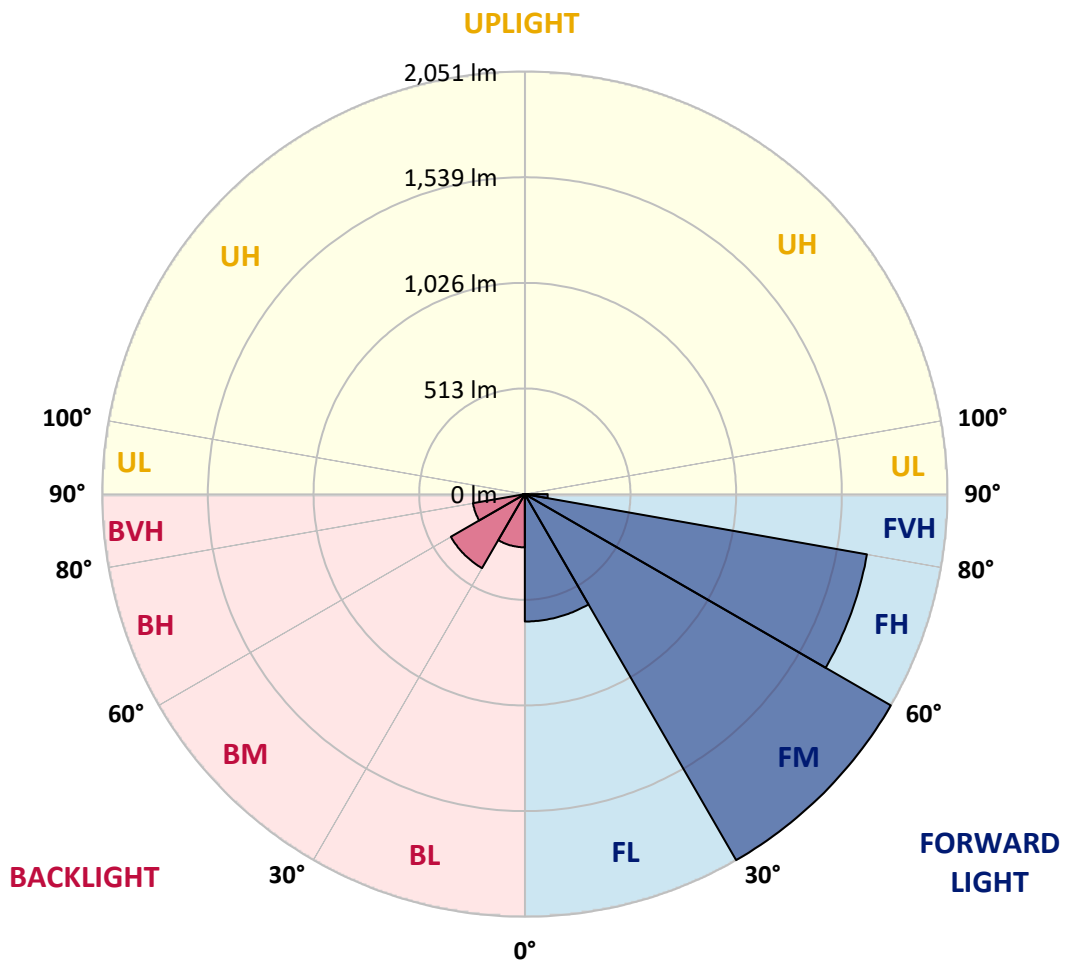
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	618.1	11.4			
FM (30°-60°)	2051.4	38.0			
FH (60°-80°)	1686.2	31.2			G1/1800
FVH (80°-90°)	111.1	2.1			G2/225
BL (0°-30°)	258.0	4.8	B1/500		
BM (30°-60°)	414.7	7.7	B1/1000		
BH (60°-80°)	255.6	4.7	B1/500		G1/500
BVH (80°-90°)	10.2	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°	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4
2.5°	2111.8	2156.5	2158.0	2178.2	2198.4	2198.4	2246.0	2234.5	2192.6	2185.4	2155.1
5°	2127.7	2143.5	2155.1	2257.6	2344.2	2335.5	2361.5	2344.2	2263.4	2159.4	2088.7
7.5°	1990.5	2007.9	2054.1	2228.7	2345.6	2384.6	2433.7	2325.4	2240.3	2052.6	1916.9
10°	1808.7	1841.9	1927.0	2126.2	2270.6	2394.7	2394.7	2308.1	2143.5	1960.2	1794.2
12.5°	1707.6	1774.0	1820.2	2022.3	2209.9	2295.1	2292.2	2246.0	2139.2	1908.3	1720.6
15°	1724.9	1743.7	1841.9	1999.2	2123.3	2119.0	2171.0	2156.5	2081.5	1954.5	1748.0
17.5°	1804.3	1833.2	1918.4	1999.2	2058.4	2041.1	2039.6	2108.9	2113.2	2032.4	1850.5
20°	1934.2	2019.4	2059.8	2084.4	2012.2	1938.6	1929.9	2026.6	2101.7	2132.0	1973.2
22.5°	2142.1	2198.4	2280.7	2155.1	1967.4	1875.1	1857.7	1964.6	2116.1	2250.4	2132.0
25°	2345.6	2388.9	2468.3	2306.7	2018.0	1862.1	1831.8	1924.1	2171.0	2414.9	2324.0
27.5°	2560.7	2598.2	2606.9	2417.8	2045.4	1836.1	1800.0	1924.1	2217.2	2501.5	2553.5
30°	2692.1	2736.8	2745.5	2516.0	2090.1	1857.7	1840.4	1932.8	2248.9	2575.1	2718.0
32.5°	2839.3	2850.8	2843.6	2533.3	2139.2	1921.3	1849.1	1990.5	2285.0	2663.2	2868.2
35°	3015.4	3035.6	2962.0	2612.7	2248.9	1961.7	1935.7	2061.3	2347.1	2703.6	3050.0
37.5°	3149.6	3213.2	3047.2	2643.0	2270.6	2046.8	2051.2	2208.5	2390.4	2752.7	3250.7
40°	3402.3	3295.4	3191.5	2746.9	2352.9	2191.2	2168.1	2360.1	2536.2	2784.4	3382.0
42.5°	3540.8	3484.5	3247.8	2757.0	2479.9	2390.4	2396.2	2531.8	2612.7	2873.9	3418.1
45°	3575.5	3516.3	3324.3	2764.2	2605.5	2625.7	2725.3	2751.2	2725.3	2933.1	3486.0
47.5°	3663.5	3535.1	3315.6	2861.0	2809.0	2886.9	3014.0	3070.3	2878.3	2911.5	3517.7
50°	3646.2	3572.6	3296.9	2901.4	3057.3	3263.7	3348.8	3325.7	3048.6	2866.7	3483.1
52.5°	3574.0	3494.6	3354.6	3011.1	3289.7	3539.4	3657.7	3600.0	3200.2	2967.8	3460.0
55°	3679.4	3618.8	3429.7	3159.8	3464.3	3781.9	3865.6	3822.3	3386.4	3061.6	3591.3
57.5°	3793.4	3780.4	3633.2	3334.4	3670.7	4031.6	4031.6	3978.2	3548.0	3197.3	3786.2
60°	3958.0	3986.9	3783.3	3449.9	3741.5	4017.2	4226.5	4164.4	3711.2	3435.5	4007.1
62.5°	3904.6	3997.0	3976.8	3698.2	3822.3	4087.9	4201.9	4248.1	3913.2	3725.6	4301.5
65°	3732.8	3831.0	3975.3	3861.3	3761.7	3916.1	3973.9	4113.9	4014.3	3998.4	4422.8
67.5°	3527.8	3634.7	3724.1	3971.0	3639.0	3741.5	3690.9	3735.7	3904.6	4297.2	4492.1
70°	3080.4	3182.8	3324.3	3727.0	3314.2	3221.8	3208.8	3187.2	3449.9	4190.4	4177.4
72.5°	2533.3	2580.9	2814.8	3029.8	2452.5	2435.1	2455.3	2430.8	2735.4	3793.4	3578.4
75°	1896.7	1944.4	2077.2	2326.9	1670.1	1570.5	1686.0	1800.0	2088.7	2944.7	2570.8
77.5°	1426.1	1486.8	1570.5	1740.8	1225.5	1069.6	1085.5	1193.7	1509.9	2358.6	1440.6
80°	925.3	918.0	1079.7	1198.1	922.4	951.2	910.8	990.2	1094.1	1261.6	736.2
82.5°	534.1	541.3	609.1	687.1	642.3	734.7	529.8	884.8	780.9	513.9	274.3
85°	300.2	313.2	375.3	476.3	402.7	269.9	220.9	438.8	490.8	210.7	132.8
87.5°	30.3	26.0	50.5	180.4	109.7	44.7	66.4	105.4	118.4	79.4	39.0
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°	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4
2.5°	2111.8	2111.8	2075.7	2015.1	1990.5	1947.2	1888.1	1906.8	1886.6	1813.0	1794.2
5°	2025.2	1955.9	1880.8	1788.5	1735.0	1625.3	1590.7	1528.6	1538.7	1476.7	1479.6
7.5°	1844.8	1789.9	1662.9	1541.6	1436.3	1341.0	1206.7	1156.2	1107.1	1082.6	1111.5
10°	1739.4	1636.9	1463.7	1304.9	1164.9	1079.7	990.2	920.9	857.4	809.8	799.7
12.5°	1662.9	1571.9	1362.6	1169.2	1059.5	990.2	907.9	812.7	750.6	668.3	643.8
15°	1639.8	1528.6	1307.8	1115.8	1009.0	894.9	801.1	707.3	626.5	539.9	509.5
17.5°	1719.2	1590.7	1306.3	1072.5	922.4	799.7	669.8	564.4	482.1	402.7	384.0
20°	1853.4	1657.1	1348.2	1046.5	840.1	675.5	528.3	422.9	330.6	278.6	265.6
22.5°	2006.4	1769.7	1352.5	977.2	757.8	551.4	385.4	278.6	226.6	202.1	194.9
25°	2194.1	1950.1	1404.5	920.9	661.1	418.6	274.3	213.6	183.3	168.9	166.0
27.5°	2348.5	2075.7	1460.8	861.8	565.8	310.3	215.1	174.7	158.8	144.3	142.9
30°	2508.7	2220.1	1476.7	825.7	483.6	255.5	184.8	154.5	137.1	129.9	128.5
32.5°	2648.8	2377.4	1527.2	766.5	405.6	225.2	167.4	138.6	127.0	115.5	114.0
35°	2829.2	2468.3	1551.7	734.7	376.7	203.5	153.0	127.0	109.7	102.5	99.6
37.5°	3022.6	2556.4	1567.6	710.2	352.2	190.5	144.3	119.8	103.9	93.8	90.9
40°	3203.1	2680.5	1544.5	679.9	333.4	174.7	138.6	111.1	96.7	86.6	82.3
42.5°	3341.6	2801.8	1537.3	651.0	313.2	168.9	131.4	106.8	90.9	79.4	77.9
45°	3419.6	2884.0	1486.8	627.9	297.4	171.8	128.5	101.0	86.6	76.5	70.7
47.5°	3400.8	2947.6	1499.8	620.7	275.7	160.2	127.0	96.7	79.4	70.7	66.4
50°	3504.7	3076.0	1478.1	597.6	259.8	144.3	138.6	96.7	77.9	67.8	63.5
52.5°	3522.1	3193.0	1524.3	555.7	235.3	132.8	137.1	95.3	75.1	65.0	59.2
55°	3666.4	3328.6	1613.8	532.6	215.1	115.5	125.6	92.4	67.8	59.2	56.3
57.5°	3862.7	3610.1	1671.5	511.0	187.7	101.0	105.4	90.9	62.1	54.9	50.5
60°	4051.8	3722.7	1675.9	472.0	161.7	90.9	82.3	90.9	57.7	49.1	44.7
62.5°	4193.3	3722.7	1647.0	438.8	141.5	80.8	72.2	86.6	52.0	43.3	40.4
65°	4116.8	3623.1	1571.9	411.4	128.5	70.7	62.1	66.4	46.2	37.5	34.6
67.5°	3979.6	3312.8	1405.9	378.2	127.0	62.1	53.4	49.1	40.4	33.2	30.3
70°	3760.2	2894.2	1170.7	340.7	124.1	56.3	47.6	41.9	36.1	28.9	26.0
72.5°	3029.8	2390.4	961.3	319.0	121.3	49.1	40.4	36.1	30.3	24.5	21.7
75°	2098.8	1527.2	740.5	272.8	118.4	44.7	37.5	31.8	26.0	20.2	18.8
77.5°	1258.7	1020.5	477.8	205.0	77.9	36.1	31.8	24.5	21.7	17.3	15.9
80°	588.9	482.1	193.4	79.4	37.5	26.0	21.7	18.8	17.3	14.4	13.0
82.5°	231.0	203.5	93.8	46.2	30.3	20.2	17.3	15.9	14.4	11.5	10.1
85°	124.1	109.7	44.7	31.8	21.7	14.4	14.4	13.0	11.5	10.1	8.7
87.5°	27.4	20.2	18.8	18.8	15.9	11.5	11.5	10.1	8.7	7.2	5.8
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4
2.5°	1784.1	1805.8	1771.1	1792.8	1762.5	1785.6	1788.5	1766.8	1772.6	1801.4	1814.4
5°	1520.0	1505.5	1473.8	1463.7	1465.1	1446.4	1453.6	1463.7	1479.6	1488.2	1514.2
7.5°	1095.6	1128.8	1127.3	1151.9	1153.3	1150.4	1130.2	1086.9	1101.4	1089.8	1104.3
10°	783.8	798.2	825.7	841.5	870.4	854.5	808.3	791.0	782.4	780.9	795.4
12.5°	626.5	591.8	588.9	594.7	609.1	590.4	567.3	547.1	557.2	577.4	593.3
15°	485.0	456.1	418.6	412.8	415.7	407.1	382.5	356.5	363.8	384.0	395.5
17.5°	372.4	339.2	313.2	295.9	290.1	259.8	223.7	202.1	196.3	194.9	205.0
20°	251.2	245.4	241.1	219.4	219.4	176.1	145.8	129.9	129.9	132.8	134.2
22.5°	187.7	180.4	181.9	177.5	166.0	131.4	115.5	111.1	111.1	114.0	114.0
25°	163.1	153.0	150.1	148.7	137.1	112.6	101.0	96.7	96.7	99.6	99.6
27.5°	138.6	135.7	131.4	125.6	115.5	96.7	89.5	85.2	86.6	88.1	86.6
30°	127.0	119.8	114.0	114.0	102.5	86.6	80.8	77.9	75.1	77.9	79.4
32.5°	112.6	108.3	105.4	101.0	88.1	76.5	70.7	67.8	66.4	66.4	67.8
35°	96.7	96.7	93.8	88.1	76.5	69.3	62.1	59.2	57.7	59.2	59.2
37.5°	86.6	82.3	83.7	77.9	67.8	60.6	53.4	50.5	50.5	49.1	50.5
40°	80.8	73.6	69.3	66.4	60.6	52.0	46.2	43.3	41.9	41.9	41.9
42.5°	72.2	66.4	57.7	56.3	54.9	44.7	37.5	36.1	34.6	33.2	33.2
45°	67.8	59.2	52.0	44.7	44.7	37.5	31.8	28.9	27.4	26.0	27.4
47.5°	62.1	53.4	44.7	37.5	36.1	30.3	24.5	21.7	20.2	20.2	20.2
50°	59.2	47.6	39.0	31.8	27.4	24.5	18.8	15.9	14.4	14.4	14.4
52.5°	54.9	44.7	34.6	27.4	21.7	18.8	14.4	11.5	10.1	10.1	10.1
55°	49.1	40.4	30.3	23.1	18.8	14.4	10.1	7.2	5.8	5.8	5.8
57.5°	46.2	36.1	26.0	20.2	14.4	10.1	5.8	4.3	4.3	2.9	4.3
60°	41.9	31.8	21.7	15.9	11.5	7.2	4.3	1.4	1.4	1.4	1.4
62.5°	36.1	27.4	18.8	13.0	8.7	4.3	1.4	0.0	0.0	0.0	0.0
65°	30.3	21.7	14.4	10.1	5.8	1.4	0.0	0.0	0.0	0.0	0.0
67.5°	26.0	18.8	11.5	7.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	23.1	15.9	8.7	5.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	18.8	13.0	7.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.9	10.1	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.0	7.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.1	5.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	1.4	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°	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4	2032.4
2.5°	1833.2	1824.5	1867.8	1938.6	1974.7	2045.4	2062.7	2107.5	2095.9	2111.8
5°	1517.1	1534.4	1597.9	1701.8	1739.4	1841.9	1938.6	2035.3	2097.4	2127.7
7.5°	1125.9	1183.6	1261.6	1356.9	1453.6	1587.8	1752.4	1865.0	1925.6	1990.5
10°	838.7	900.7	990.2	1084.0	1241.4	1391.5	1556.1	1696.1	1748.0	1808.7
12.5°	659.7	756.4	860.3	961.3	1055.2	1198.1	1401.6	1605.1	1661.4	1707.6
15°	459.0	577.4	726.1	857.4	988.8	1112.9	1323.7	1570.5	1647.0	1724.9
17.5°	254.1	347.9	518.2	703.0	896.4	1086.9	1349.6	1634.0	1749.5	1804.3
20°	147.2	184.8	306.0	525.4	780.9	1030.6	1362.6	1753.8	1906.8	1934.2
22.5°	121.3	134.2	173.2	329.1	639.5	994.5	1429.0	1921.3	2077.2	2142.1
25°	103.9	114.0	134.2	197.8	483.6	918.0	1470.9	2130.6	2274.9	2345.6
27.5°	92.4	102.5	118.4	145.8	329.1	812.7	1540.2	2319.7	2464.0	2560.7
30°	80.8	89.5	105.4	124.1	228.1	694.3	1599.4	2458.2	2661.8	2692.1
32.5°	72.2	79.4	90.9	106.8	168.9	526.9	1647.0	2601.1	2772.9	2839.3
35°	62.1	70.7	77.9	90.9	128.5	397.0	1618.1	2712.3	2936.0	3015.4
37.5°	54.9	60.6	67.8	76.5	108.3	310.3	1558.9	2845.1	3076.0	3149.6
40°	46.2	50.5	59.2	67.8	98.2	239.6	1491.1	3005.3	3272.3	3402.3
42.5°	39.0	43.3	49.1	63.5	80.8	177.5	1354.0	3129.4	3431.1	3540.8
45°	30.3	36.1	44.7	63.5	65.0	131.4	1212.5	3221.8	3520.6	3575.5
47.5°	23.1	28.9	43.3	54.9	52.0	90.9	1045.1	3327.2	3613.0	3663.5
50°	17.3	23.1	49.1	47.6	43.3	69.3	939.7	3400.8	3618.8	3646.2
52.5°	11.5	17.3	40.4	36.1	36.1	60.6	910.8	3397.9	3633.2	3574.0
55°	8.7	13.0	23.1	26.0	31.8	53.4	884.8	3506.2	3637.5	3679.4
57.5°	5.8	10.1	15.9	20.2	27.4	46.2	831.4	3636.1	3771.8	3793.4
60°	2.9	7.2	11.5	15.9	23.1	40.4	756.4	3731.4	3934.9	3958.0
62.5°	1.4	4.3	8.7	13.0	18.8	31.8	678.4	3579.8	3864.2	3904.6
65°	0.0	2.9	5.8	8.7	11.5	23.1	551.4	3231.9	3584.1	3732.8
67.5°	0.0	0.0	2.9	5.8	7.2	17.3	415.7	2940.3	3325.7	3527.8
70°	0.0	0.0	1.4	1.4	4.3	13.0	265.6	2435.1	2969.2	3080.4
72.5°	0.0	0.0	0.0	0.0	1.4	8.7	154.5	1808.7	2326.9	2533.3
75°	0.0	0.0	0.0	0.0	0.0	7.2	77.9	1163.4	1619.6	1896.7
77.5°	0.0	0.0	0.0	0.0	0.0	5.8	41.9	750.6	1193.7	1426.1
80°	0.0	0.0	0.0	0.0	0.0	1.4	24.5	435.9	763.6	925.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.1	213.6	456.1	534.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	114.0	228.1	300.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	15.9	30.3
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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