

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: P675814

Luminaire Tested: **CCW-SA-1F-727-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675814  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-727-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/  
SLL distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

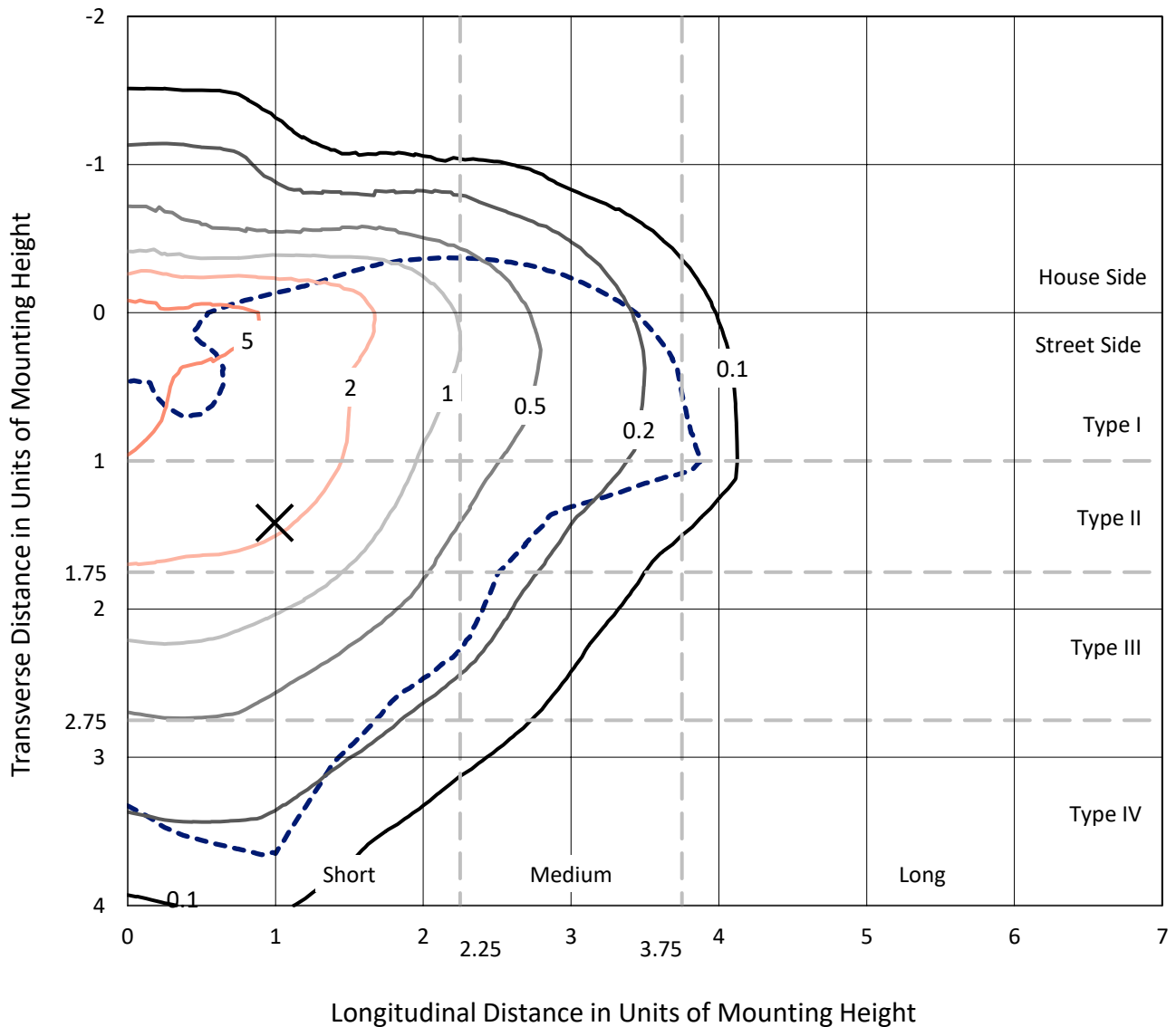
Lumens per Lamp: N/A  
Luminaire Lumens: 5202.7 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

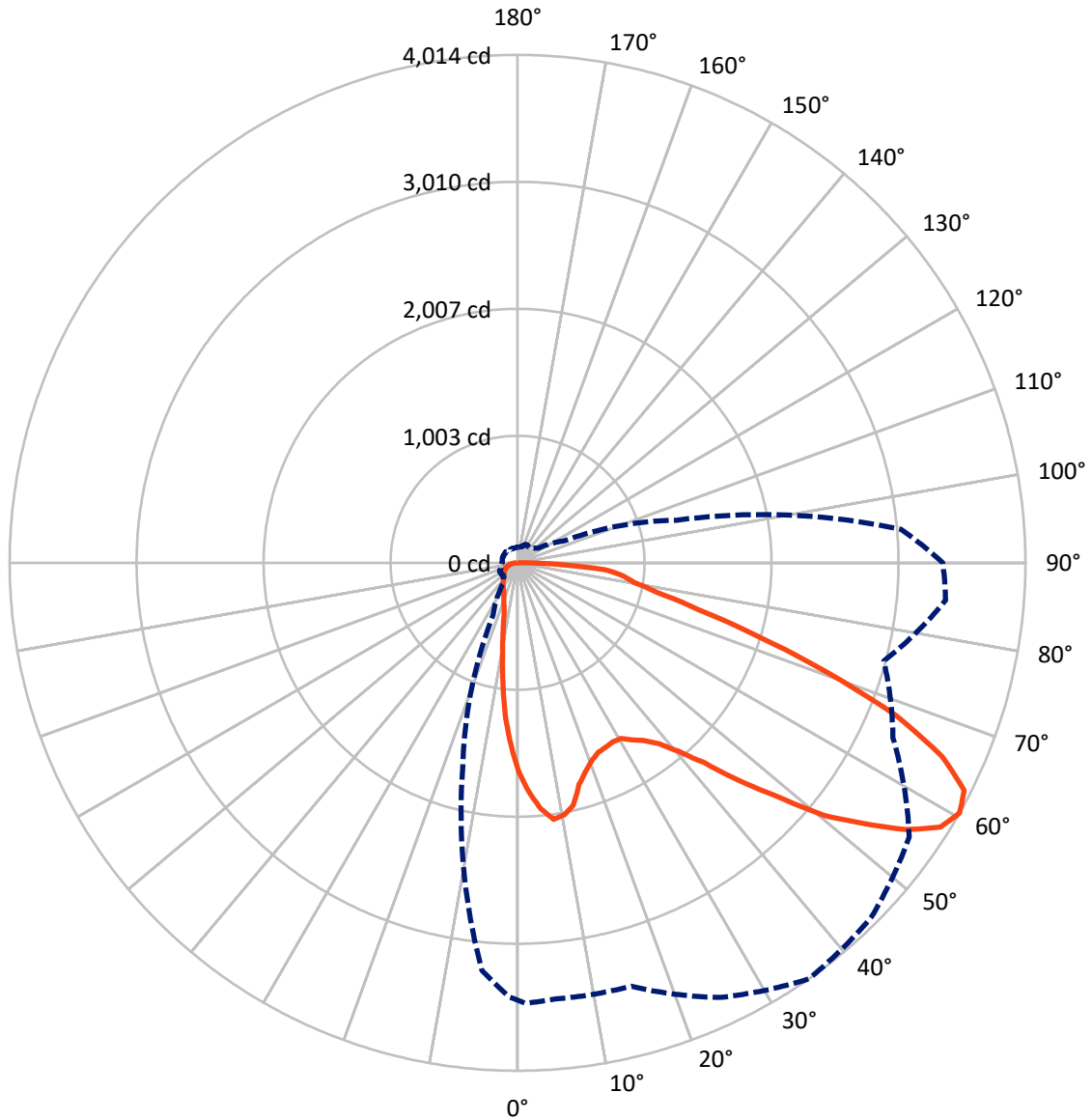
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	990.1	0.0	990.1
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	4212.5	0.0	4212.5
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	5202.7	0.0	5202.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.1	2.5
10°-20°	272.6	5.2
20°-30°	398.8	7.7
30°-40°	561.9	10.8
40°-50°	772.2	14.8
50°-60°	1052.4	20.2
60°-70°	1151.8	22.1
70°-80°	665.0	12.8
80°-90°	199.1	3.8
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°	5202.7	100.0
0°-180°	5202.7	100.0

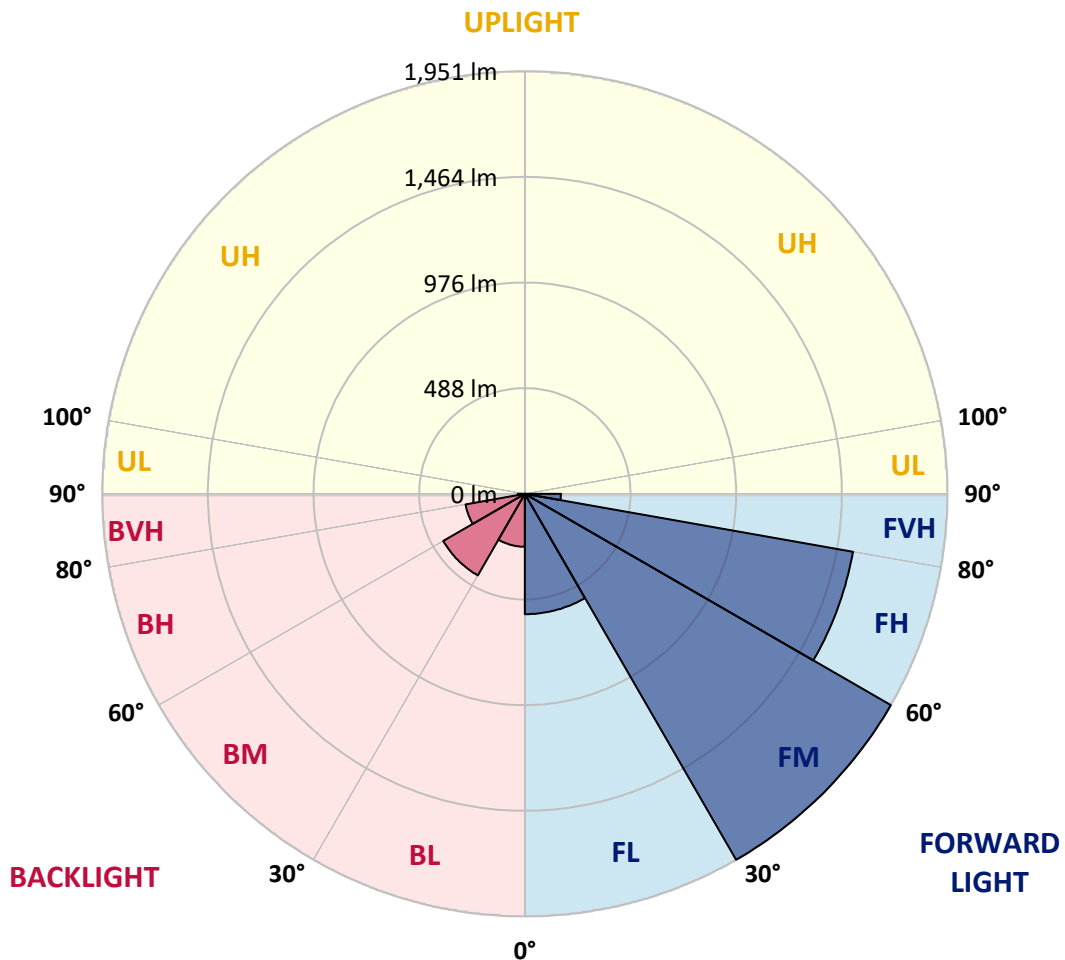


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	555.8	10.7			
FM (30°-60°)	1951.4	37.5			
FH (60°-80°)	1538.6	29.6			G1/1800
FVH (80°-90°)	166.7	3.2			G2/225
BL (0°-30°)	244.6	4.7	B1/500		
BM (30°-60°)	435.0	8.4	B1/1000		
BH (60°-80°)	278.1	5.3	B1/500		G1/500
BVH (80°-90°)	32.5	0.6			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7
2.5°	1779.4	1772.5	1779.4	1804.8	1811.7	1823.2	1823.2	1807.1	1777.1	1763.2	1740.2
5°	1818.6	1807.1	1864.8	1917.9	1959.4	1954.8	1915.6	1883.3	1823.2	1733.2	1647.8
7.5°	1740.2	1751.7	1793.2	1931.7	2028.7	2047.1	1984.8	1920.2	1790.9	1666.3	1550.9
10°	1592.5	1608.6	1698.6	1841.7	1994.0	2024.0	1984.8	1906.3	1751.7	1597.1	1463.2
12.5°	1520.9	1557.8	1610.9	1784.0	1892.5	1964.0	1945.6	1894.8	1721.7	1539.4	1410.1
15°	1520.9	1530.1	1608.6	1754.0	1816.3	1818.6	1825.6	1834.8	1730.9	1564.8	1391.7
17.5°	1569.4	1594.8	1661.7	1751.7	1763.2	1735.5	1735.5	1774.8	1749.4	1636.3	1458.6
20°	1687.1	1677.8	1765.5	1802.5	1740.2	1670.9	1664.0	1730.9	1770.2	1712.5	1580.9
22.5°	1804.8	1846.3	1917.9	1834.8	1719.4	1627.1	1617.8	1700.9	1832.5	1844.0	1721.7
25°	1982.5	2024.0	2061.0	1959.4	1717.1	1615.5	1622.5	1687.1	1908.6	2031.0	1957.1
27.5°	2174.0	2199.4	2252.5	2095.6	1772.5	1601.7	1608.6	1705.5	1980.2	2153.3	2141.7
30°	2282.5	2310.2	2298.7	2121.0	1809.4	1610.9	1592.5	1730.9	1941.0	2153.3	2261.7
32.5°	2388.7	2372.5	2365.6	2162.5	1855.6	1668.6	1622.5	1784.0	1964.0	2187.9	2416.4
35°	2517.9	2494.8	2476.4	2243.3	1931.7	1724.0	1703.2	1853.2	2014.8	2259.4	2541.0
37.5°	2661.0	2661.0	2571.0	2303.3	2021.7	1814.0	1790.9	1952.5	2095.6	2303.3	2711.8
40°	2829.5	2836.4	2677.2	2384.1	2123.3	1957.1	1950.2	2081.7	2174.0	2367.9	2875.7
42.5°	2954.1	2958.7	2769.5	2414.1	2241.0	2155.6	2185.6	2289.4	2264.1	2425.6	2887.2
45°	3039.5	3016.4	2834.1	2499.5	2370.2	2453.3	2462.5	2492.5	2381.8	2460.2	2933.4
47.5°	3081.1	3076.4	2861.8	2598.7	2642.6	2755.6	2808.7	2767.2	2490.2	2423.3	2933.4
50°	3122.6	3083.4	2887.2	2734.9	2908.0	3136.4	3124.9	3048.7	2640.2	2469.5	2889.5
52.5°	3150.3	3115.7	2938.0	2857.2	3161.8	3420.3	3466.5	3325.7	2815.6	2554.9	2910.3
55°	3249.5	3221.8	3090.3	3023.4	3454.9	3720.3	3727.3	3531.1	3000.3	2695.6	3046.4
57.5°	3369.5	3385.7	3300.3	3258.8	3678.8	3939.6	3914.2	3683.4	3157.2	2866.4	3203.4
60°	3454.9	3480.3	3459.6	3464.2	3789.6	4013.5	3955.8	3778.0	3272.6	2995.7	3394.9
62.5°	3408.8	3459.6	3544.9	3526.5	3794.2	3960.4	3879.6	3653.4	3286.5	3164.1	3540.3
65°	3281.8	3286.5	3452.6	3554.2	3586.5	3685.7	3579.6	3392.6	3143.4	3268.0	3519.6
67.5°	2956.4	2993.4	3143.4	3341.9	3205.7	3228.8	3219.5	2949.5	2926.4	3196.5	3360.3
70°	2610.2	2635.6	2799.5	3032.6	2707.2	2598.7	2619.5	2418.7	2513.3	2974.9	3039.5
72.5°	2157.9	2174.0	2361.0	2566.4	2171.7	1977.9	2026.3	1862.5	1996.3	2603.3	2564.1
75°	1629.4	1659.4	1804.8	2047.1	1599.4	1474.8	1523.2	1456.3	1580.9	2144.0	1989.4
77.5°	1158.6	1135.5	1315.5	1601.7	1202.4	1128.6	1133.2	1144.7	1278.6	1807.1	1428.6
80°	789.3	796.2	957.8	1174.7	943.9	932.4	920.9	1013.2	1073.2	1430.9	1038.6
82.5°	468.5	468.5	646.2	835.5	745.5	840.1	787.0	870.1	840.1	1052.4	680.8
85°	219.3	219.3	332.3	602.4	577.0	692.4	588.5	657.8	620.8	733.9	307.0
87.5°	36.9	32.3	66.9	295.4	237.7	270.0	106.2	350.8	390.0	512.4	76.2
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°	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7
2.5°	1714.8	1698.6	1666.3	1624.8	1590.1	1546.3	1532.5	1502.4	1460.9	1456.3	1437.8
5°	1615.5	1560.1	1490.9	1405.5	1347.8	1287.8	1237.0	1207.0	1172.4	1167.8	1158.6
7.5°	1507.1	1437.8	1322.4	1220.9	1121.6	1027.0	980.9	923.2	883.9	853.9	840.1
10°	1405.5	1340.9	1197.8	1059.3	971.6	909.3	853.9	793.9	745.5	708.5	694.7
12.5°	1338.6	1262.4	1107.8	976.2	911.6	840.1	777.8	713.1	650.8	602.4	577.0
15°	1308.6	1237.0	1080.1	934.7	840.1	740.8	669.3	604.7	528.5	493.9	482.4
17.5°	1380.1	1274.0	1070.9	886.2	752.4	639.3	551.6	482.4	427.0	392.3	378.5
20°	1472.4	1340.9	1087.0	828.5	669.3	542.4	445.4	371.6	334.6	309.3	307.0
22.5°	1590.1	1440.1	1112.4	787.0	577.0	436.2	348.5	304.6	279.3	276.9	272.3
25°	1800.2	1620.2	1154.0	731.6	503.1	360.0	297.7	272.3	260.8	253.9	258.5
27.5°	1980.2	1737.9	1184.0	697.0	473.1	339.3	288.5	260.8	249.3	246.9	249.3
30°	2086.3	1846.3	1174.7	632.4	413.1	323.1	307.0	297.7	274.6	256.2	256.2
32.5°	2183.3	1915.6	1172.4	574.7	353.1	270.0	256.2	249.3	263.1	272.3	265.4
35°	2317.1	2024.0	1165.5	542.4	327.7	249.3	226.2	207.7	198.5	193.9	200.8
37.5°	2460.2	2097.9	1147.0	537.7	313.9	237.7	219.3	200.8	191.6	186.9	184.6
40°	2617.2	2176.4	1126.3	514.7	307.0	230.8	212.3	196.2	184.6	177.7	175.4
42.5°	2718.7	2238.7	1105.5	503.1	293.1	226.2	205.4	191.6	180.0	170.8	170.8
45°	2776.4	2312.5	1084.7	491.6	276.9	228.5	205.4	186.9	173.1	168.5	163.9
47.5°	2801.8	2367.9	1077.8	473.1	263.1	219.3	200.8	182.3	168.5	159.2	156.9
50°	2868.7	2485.6	1103.2	459.3	246.9	210.0	212.3	180.0	166.2	154.6	152.3
52.5°	2908.0	2580.2	1158.6	438.5	235.4	198.5	207.7	175.4	159.2	147.7	147.7
55°	3051.1	2737.2	1218.6	422.3	221.6	182.3	191.6	166.2	147.7	140.8	140.8
57.5°	3233.4	2903.3	1269.3	415.4	212.3	170.8	170.8	161.6	140.8	131.6	129.2
60°	3360.3	3039.5	1299.4	410.8	203.1	159.2	152.3	161.6	133.9	124.6	122.3
62.5°	3374.2	2961.0	1269.3	408.5	200.8	147.7	138.5	154.6	126.9	117.7	113.1
65°	3286.5	2801.8	1186.3	399.3	198.5	136.2	129.2	133.9	117.7	110.8	106.2
67.5°	3111.1	2543.3	1066.3	394.7	196.2	126.9	117.7	115.4	108.5	101.5	96.9
70°	2702.6	2206.4	925.5	373.9	191.6	120.0	106.2	103.9	96.9	92.3	90.0
72.5°	2268.7	1804.8	763.9	346.2	182.3	108.5	96.9	92.3	90.0	83.1	80.8
75°	1737.9	1389.4	611.6	307.0	159.2	96.9	85.4	80.8	78.5	73.9	71.5
77.5°	1220.9	1033.9	452.3	249.3	133.9	87.7	76.2	71.5	69.2	62.3	62.3
80°	828.5	724.7	307.0	173.1	103.9	71.5	66.9	62.3	57.7	53.1	53.1
82.5°	514.7	507.7	221.6	113.1	76.2	57.7	53.1	53.1	46.2	41.5	41.5
85°	235.4	311.6	154.6	78.5	57.7	43.9	43.9	41.5	36.9	30.0	30.0
87.5°	73.9	103.9	80.8	34.6	32.3	25.4	25.4	23.1	23.1	18.5	18.5
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°	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7
2.5°	1456.3	1454.0	1454.0	1444.8	1467.8	1467.8	1481.7	1470.1	1477.1	1479.4	1497.8
5°	1156.3	1174.7	1188.6	1216.3	1232.4	1239.3	1239.3	1257.8	1250.9	1264.7	1292.4
7.5°	847.0	870.1	911.6	946.2	973.9	983.2	980.9	985.5	992.4	976.2	980.9
10°	685.4	669.3	683.1	715.5	740.8	770.8	747.8	745.5	752.4	745.5	759.3
12.5°	572.4	553.9	542.4	542.4	560.8	574.7	567.7	579.3	604.7	611.6	627.8
15°	463.9	447.7	438.5	427.0	445.4	450.0	457.0	473.1	491.6	500.8	519.3
17.5°	371.6	371.6	371.6	362.3	369.3	376.2	378.5	399.3	401.6	410.8	417.7
20°	304.6	311.6	323.1	327.7	334.6	334.6	330.0	341.6	332.3	339.3	343.9
22.5°	274.6	283.9	288.5	290.8	300.0	302.3	290.8	293.1	295.4	288.5	290.8
25°	258.5	263.1	258.5	260.8	263.1	258.5	260.8	265.4	263.1	267.7	265.4
27.5°	251.6	246.9	244.6	242.3	242.3	237.7	240.0	240.0	244.6	246.9	246.9
30°	251.6	244.6	235.4	228.5	228.5	221.6	226.2	230.8	233.1	237.7	237.7
32.5°	258.5	244.6	228.5	221.6	214.6	210.0	214.6	221.6	230.8	233.1	235.4
35°	205.4	212.3	210.0	200.8	198.5	198.5	196.2	196.2	189.2	189.2	186.9
37.5°	184.6	182.3	186.9	189.2	191.6	184.6	184.6	175.4	173.1	175.4	175.4
40°	173.1	173.1	173.1	180.0	182.3	177.7	170.8	166.2	166.2	166.2	168.5
42.5°	168.5	163.9	161.6	166.2	173.1	168.5	161.6	159.2	159.2	161.6	161.6
45°	161.6	159.2	156.9	154.6	163.9	156.9	154.6	152.3	152.3	152.3	154.6
47.5°	154.6	152.3	147.7	147.7	150.0	147.7	145.4	145.4	145.4	150.0	150.0
50°	150.0	147.7	143.1	143.1	143.1	143.1	140.8	140.8	140.8	143.1	145.4
52.5°	143.1	140.8	138.5	136.2	136.2	136.2	136.2	136.2	136.2	138.5	140.8
55°	136.2	133.9	131.6	131.6	133.9	133.9	131.6	133.9	131.6	133.9	136.2
57.5°	129.2	126.9	124.6	126.9	129.2	126.9	126.9	126.9	126.9	126.9	129.2
60°	120.0	120.0	120.0	120.0	124.6	124.6	124.6	124.6	120.0	122.3	124.6
62.5°	115.4	113.1	113.1	115.4	117.7	117.7	120.0	117.7	115.4	117.7	117.7
65°	106.2	106.2	106.2	108.5	108.5	110.8	110.8	110.8	108.5	110.8	110.8
67.5°	99.2	99.2	99.2	99.2	103.9	103.9	103.9	103.9	101.5	101.5	103.9
70°	87.7	90.0	87.7	92.3	96.9	94.6	96.9	96.9	94.6	92.3	96.9
72.5°	80.8	80.8	80.8	80.8	87.7	87.7	87.7	90.0	87.7	85.4	87.7
75°	71.5	71.5	71.5	73.9	78.5	78.5	78.5	78.5	78.5	76.2	76.2
77.5°	62.3	64.6	62.3	64.6	69.2	66.9	69.2	71.5	69.2	66.9	66.9
80°	53.1	53.1	53.1	55.4	57.7	57.7	57.7	60.0	57.7	55.4	55.4
82.5°	41.5	41.5	43.9	43.9	46.2	46.2	46.2	48.5	46.2	43.9	43.9
85°	32.3	32.3	32.3	34.6	34.6	36.9	36.9	39.2	39.2	36.9	36.9
87.5°	20.8	18.5	20.8	20.8	23.1	23.1	20.8	18.5	20.8	18.5	16.2
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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 CATALOG NUMBER: CCW-SA-1F-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7	1661.7
2.5°	1516.3	1557.8	1587.8	1608.6	1638.6	1696.3	1719.4	1760.9	1772.5	1779.4
5°	1304.0	1347.8	1412.4	1458.6	1511.7	1620.2	1703.2	1765.5	1793.2	1818.6
7.5°	1022.4	1080.1	1147.0	1207.0	1294.7	1428.6	1537.1	1666.3	1714.8	1740.2
10°	798.5	851.6	925.5	999.3	1121.6	1234.7	1389.4	1507.1	1574.0	1592.5
12.5°	673.9	736.2	823.9	913.9	990.1	1119.3	1276.3	1447.1	1509.4	1520.9
15°	572.4	657.8	747.8	840.1	927.8	1040.9	1209.3	1417.1	1509.4	1520.9
17.5°	473.1	549.3	655.4	754.7	856.2	1010.9	1220.9	1442.4	1534.8	1569.4
20°	376.2	450.0	533.1	657.8	796.2	960.1	1246.3	1527.8	1650.2	1687.1
22.5°	311.6	343.9	424.7	544.7	708.5	925.5	1271.7	1661.7	1790.9	1804.8
25°	272.3	295.4	346.2	459.3	639.3	902.4	1331.7	1816.3	1982.5	1982.5
27.5°	253.9	263.1	297.7	399.3	590.8	881.6	1391.7	1987.1	2141.7	2174.0
30°	249.3	272.3	290.8	355.4	537.7	823.9	1447.1	2121.0	2280.2	2282.5
32.5°	244.6	240.0	253.9	309.3	473.1	763.9	1493.2	2257.1	2381.8	2388.7
35°	191.6	200.8	223.9	272.3	424.7	720.1	1516.3	2331.0	2511.0	2517.9
37.5°	180.0	191.6	210.0	251.6	392.3	683.1	1523.2	2474.1	2647.2	2661.0
40°	175.4	184.6	198.5	233.1	367.0	637.0	1537.1	2621.8	2848.0	2829.5
42.5°	166.2	177.7	191.6	223.9	346.2	602.4	1539.4	2702.6	2954.1	2954.1
45°	163.9	170.8	186.9	223.9	323.1	572.4	1502.4	2783.3	3076.4	3039.5
47.5°	154.6	168.5	182.3	216.9	295.4	542.4	1458.6	2824.9	3092.6	3081.1
50°	152.3	166.2	189.2	205.4	279.3	528.5	1449.4	2928.7	3124.9	3122.6
52.5°	147.7	161.6	196.2	196.2	258.5	510.0	1493.2	2974.9	3131.8	3150.3
55°	140.8	161.6	182.3	180.0	240.0	487.0	1541.7	3094.9	3254.1	3249.5
57.5°	136.2	156.9	173.1	163.9	219.3	470.8	1613.2	3210.3	3401.9	3369.5
60°	129.2	156.9	154.6	152.3	203.1	457.0	1673.2	3233.4	3434.2	3454.9
62.5°	124.6	163.9	136.2	140.8	189.2	450.0	1647.8	3060.3	3390.3	3408.8
65°	120.0	140.8	124.6	129.2	184.6	436.2	1548.6	2852.6	3201.1	3281.8
67.5°	110.8	115.4	115.4	120.0	180.0	403.9	1345.5	2478.7	2912.6	2956.4
70°	101.5	103.9	103.9	110.8	175.4	367.0	1110.1	2144.0	2527.2	2610.2
72.5°	92.3	92.3	92.3	101.5	161.6	337.0	913.9	1647.8	2100.2	2157.9
75°	80.8	80.8	80.8	90.0	145.4	307.0	720.1	1225.5	1546.3	1629.4
77.5°	71.5	71.5	69.2	80.8	126.9	249.3	519.3	865.5	1089.3	1158.6
80°	60.0	57.7	57.7	64.6	99.2	180.0	334.6	611.6	759.3	789.3
82.5°	48.5	46.2	43.9	48.5	71.5	113.1	207.7	427.0	487.0	468.5
85°	46.2	48.5	39.2	36.9	50.8	73.9	131.6	263.1	219.3	219.3
87.5°	18.5	16.2	16.2	13.8	25.4	27.7	57.7	48.5	36.9	36.9
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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