

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: P675901

Luminaire Tested: **CCW-SA-1E-835-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675901  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-835-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
SLL distribution lens  
Light Source: (16) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

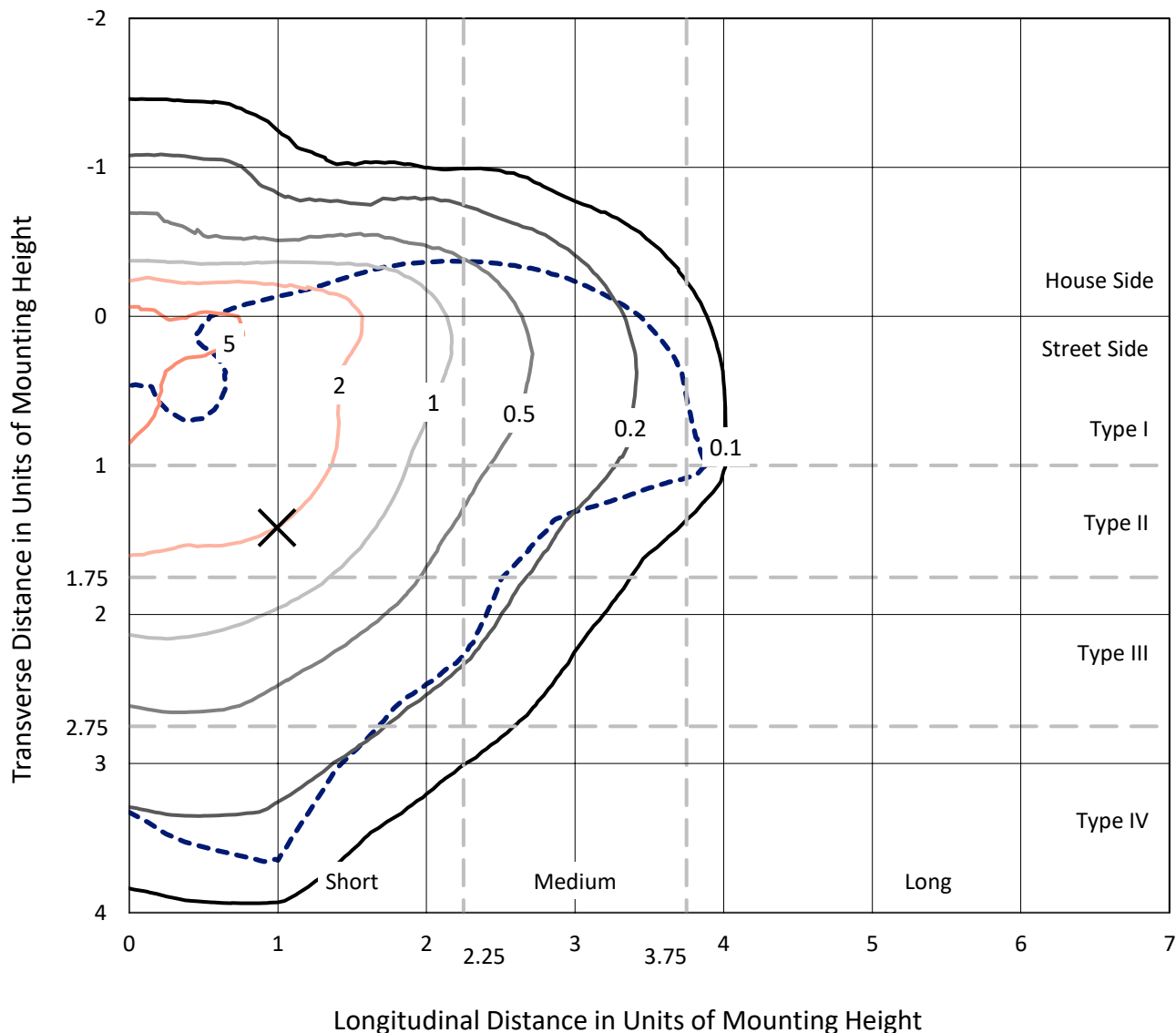
Lumens per Lamp: N/A  
Luminaire Lumens: 4674.4 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1  
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

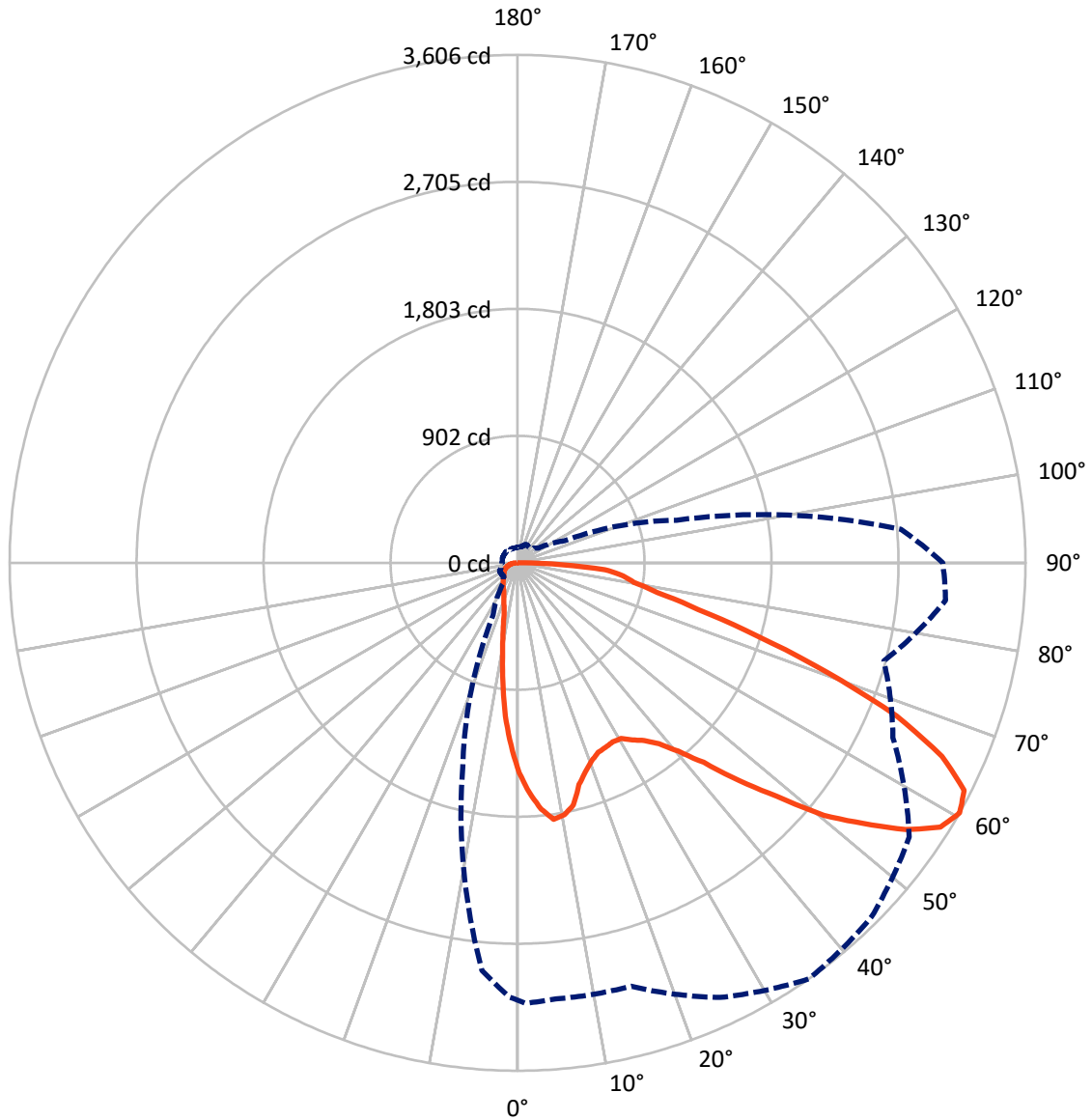
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.6 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	889.6	0.0	889.6
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	3784.8	0.0	3784.8
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	4674.4	0.0	4674.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.0	2.5
10°-20°	244.9	5.2
20°-30°	358.3	7.7
30°-40°	504.8	10.8
40°-50°	693.8	14.8
50°-60°	945.5	20.2
60°-70°	1034.8	22.1
70°-80°	597.4	12.8
80°-90°	178.9	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°	4674.4	100.0
0°-180°	4674.4	100.0

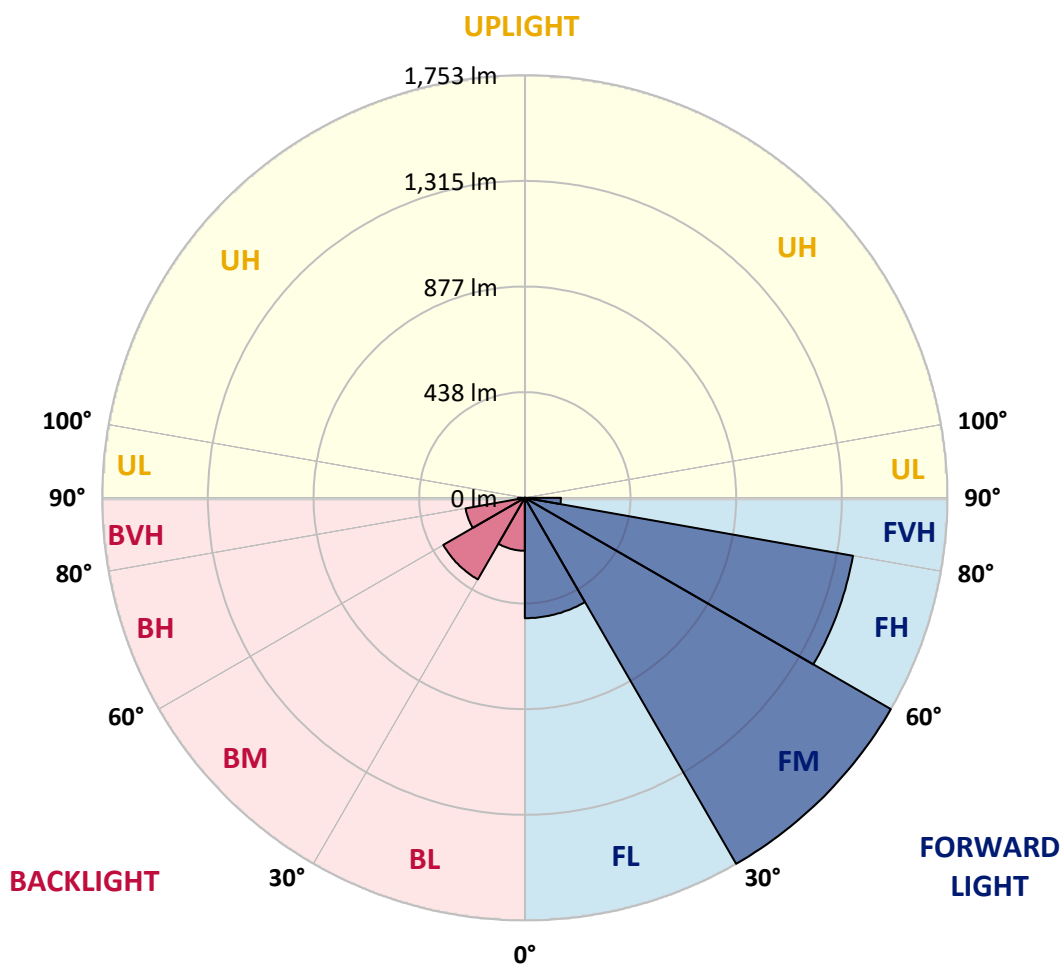


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.4	10.7			
FM (30°-60°)	1753.3	37.5			
FH (60°-80°)	1382.4	29.6			G1/1800
FVH (80°-90°)	149.8	3.2			G2/225
BL (0°-30°)	219.8	4.7	B1/500		
BM (30°-60°)	390.8	8.4	B1/1000		
BH (60°-80°)	249.9	5.3	B1/500		G1/500
BVH (80°-90°)	29.2	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°	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0
2.5°	1598.7	1592.5	1598.7	1621.6	1627.8	1638.1	1638.1	1623.6	1596.7	1584.2	1563.5
5°	1634.0	1623.6	1675.5	1723.2	1760.5	1756.3	1721.1	1692.1	1638.1	1557.3	1480.5
7.5°	1563.5	1573.9	1611.2	1735.6	1822.7	1839.3	1783.3	1725.2	1609.1	1497.1	1393.5
10°	1430.8	1445.3	1526.2	1654.7	1791.6	1818.5	1783.3	1712.8	1573.9	1434.9	1314.7
12.5°	1366.5	1399.7	1447.4	1602.9	1700.3	1764.6	1748.0	1702.4	1546.9	1383.1	1267.0
15°	1366.5	1374.8	1445.3	1575.9	1631.9	1634.0	1640.2	1648.5	1555.2	1405.9	1250.4
17.5°	1410.0	1432.9	1493.0	1573.9	1584.2	1559.3	1559.3	1594.6	1571.8	1470.2	1310.5
20°	1515.8	1507.5	1586.3	1619.5	1563.5	1501.3	1495.1	1555.2	1590.4	1538.6	1420.4
22.5°	1621.6	1658.9	1723.2	1648.5	1544.8	1461.9	1453.6	1528.2	1646.4	1656.8	1546.9
25°	1781.2	1818.5	1851.7	1760.5	1542.8	1451.5	1457.7	1515.8	1714.9	1824.8	1758.4
27.5°	1953.3	1976.1	2023.8	1882.8	1592.5	1439.1	1445.3	1532.4	1779.1	1934.7	1924.3
30°	2050.8	2075.7	2065.3	1905.6	1625.7	1447.4	1430.8	1555.2	1743.9	1934.7	2032.1
32.5°	2146.2	2131.7	2125.4	1943.0	1667.2	1499.2	1457.7	1602.9	1764.6	1965.8	2171.1
35°	2262.3	2241.6	2225.0	2015.5	1735.6	1549.0	1530.3	1665.1	1810.3	2030.1	2283.0
37.5°	2390.9	2390.9	2310.0	2069.4	1816.5	1629.8	1609.1	1754.3	1882.8	2069.4	2436.5
40°	2542.2	2548.5	2405.4	2142.0	1907.7	1758.4	1752.2	1870.4	1953.3	2127.5	2583.7
42.5°	2654.2	2658.4	2488.3	2169.0	2013.5	1936.7	1963.7	2057.0	2034.2	2179.4	2594.1
45°	2730.9	2710.2	2546.4	2245.7	2129.6	2204.2	2212.5	2239.5	2140.0	2210.5	2635.5
47.5°	2768.3	2764.1	2571.3	2334.9	2374.3	2475.9	2523.6	2486.2	2237.4	2177.3	2635.5
50°	2805.6	2770.3	2594.1	2457.2	2612.7	2818.0	2807.7	2739.2	2372.2	2218.7	2596.1
52.5°	2830.5	2799.4	2639.7	2567.1	2840.8	3073.1	3114.5	2988.1	2529.8	2295.5	2614.8
55°	2919.6	2894.7	2776.5	2716.4	3104.2	3342.6	3348.9	3172.6	2695.7	2422.0	2737.1
57.5°	3027.5	3042.0	2965.2	2927.9	3305.3	3539.6	3516.8	3309.5	2836.7	2575.4	2878.2
60°	3104.2	3127.0	3108.3	3112.5	3404.8	3606.0	3554.1	3394.5	2940.4	2691.5	3050.3
62.5°	3062.7	3108.3	3185.0	3168.5	3409.0	3558.3	3485.7	3282.5	2952.8	2842.9	3180.9
65°	2948.7	2952.8	3102.1	3193.3	3222.4	3311.5	3216.1	3048.2	2824.2	2936.2	3162.2
67.5°	2656.3	2689.5	2824.2	3002.6	2880.2	2901.0	2892.7	2650.1	2629.3	2871.9	3019.2
70°	2345.2	2368.0	2515.3	2724.7	2432.3	2334.9	2353.5	2173.1	2258.1	2672.9	2730.9
72.5°	1938.8	1953.3	2121.3	2305.8	1951.3	1777.1	1820.6	1673.4	1793.7	2339.0	2303.8
75°	1464.0	1490.9	1621.6	1839.3	1437.0	1325.0	1368.6	1308.4	1420.4	1926.4	1787.4
77.5°	1040.9	1020.2	1182.0	1439.1	1080.3	1014.0	1018.1	1028.5	1148.8	1623.6	1283.6
80°	709.2	715.4	860.5	1055.5	848.1	837.7	827.4	910.3	964.2	1285.6	933.1
82.5°	420.9	420.9	580.6	750.6	669.8	754.8	707.1	781.7	754.8	945.6	611.7
85°	197.0	197.0	298.6	541.2	518.4	622.1	528.8	591.0	557.8	659.4	275.8
87.5°	33.2	29.0	60.1	265.4	213.6	242.6	95.4	315.2	350.4	460.3	68.4
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°	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0
2.5°	1540.7	1526.2	1497.1	1459.8	1428.7	1389.3	1376.9	1349.9	1312.6	1308.4	1291.9
5°	1451.5	1401.8	1339.5	1262.8	1211.0	1157.1	1111.4	1084.5	1053.4	1049.2	1040.9
7.5°	1354.1	1291.9	1188.2	1096.9	1007.8	922.8	881.3	829.4	794.2	767.2	754.8
10°	1262.8	1204.8	1076.2	951.8	873.0	817.0	767.2	713.3	669.8	636.6	624.2
12.5°	1202.7	1134.3	995.3	877.1	819.1	754.8	698.8	640.7	584.8	541.2	518.4
15°	1175.7	1111.4	970.4	839.8	754.8	665.6	601.3	543.3	474.9	443.7	433.4
17.5°	1240.0	1144.6	962.1	796.3	676.0	574.4	495.6	433.4	383.6	352.5	340.1
20°	1323.0	1204.8	976.7	744.4	601.3	487.3	400.2	333.8	300.7	277.9	275.8
22.5°	1428.7	1293.9	999.5	707.1	518.4	391.9	313.1	273.7	250.9	248.8	244.7
25°	1617.4	1455.7	1036.8	657.3	452.0	323.5	267.5	244.7	234.3	228.1	232.2
27.5°	1779.1	1561.4	1063.8	626.2	425.1	304.8	259.2	234.3	223.9	221.9	223.9
30°	1874.5	1658.9	1055.5	568.2	371.2	290.3	275.8	267.5	246.8	230.2	230.2
32.5°	1961.6	1721.1	1053.4	516.3	317.3	242.6	230.2	223.9	236.4	244.7	238.5
35°	2081.9	1818.5	1047.2	487.3	294.5	223.9	203.2	186.6	178.3	174.2	180.4
37.5°	2210.5	1884.9	1030.6	483.1	282.0	213.6	197.0	180.4	172.1	168.0	165.9
40°	2351.5	1955.4	1011.9	462.4	275.8	207.4	190.8	176.3	165.9	159.7	157.6
42.5°	2442.7	2011.4	993.3	452.0	263.3	203.2	184.6	172.1	161.7	153.4	153.4
45°	2494.5	2077.7	974.6	441.7	248.8	205.3	184.6	168.0	155.5	151.4	147.2
47.5°	2517.3	2127.5	968.4	425.1	236.4	197.0	180.4	163.8	151.4	143.1	141.0
50°	2577.5	2233.3	991.2	412.6	221.9	188.7	190.8	161.7	149.3	138.9	136.9
52.5°	2612.7	2318.3	1040.9	394.0	211.5	178.3	186.6	157.6	143.1	132.7	132.7
55°	2741.3	2459.3	1094.9	379.5	199.1	163.8	172.1	149.3	132.7	126.5	126.5
57.5°	2905.1	2608.6	1140.5	373.2	190.8	153.4	153.4	145.2	126.5	118.2	116.1
60°	3019.2	2730.9	1167.4	369.1	182.5	143.1	136.9	145.2	120.3	112.0	109.9
62.5°	3031.6	2660.4	1140.5	367.0	180.4	132.7	124.4	138.9	114.0	105.8	101.6
65°	2952.8	2517.3	1065.8	358.7	178.3	122.3	116.1	120.3	105.8	99.5	95.4
67.5°	2795.2	2285.1	958.0	354.6	176.3	114.0	105.8	103.7	97.5	91.2	87.1
70°	2428.2	1982.4	831.5	335.9	172.1	107.8	95.4	93.3	87.1	82.9	80.9
72.5°	2038.3	1621.6	686.4	311.0	163.8	97.5	87.1	82.9	80.9	74.6	72.6
75°	1561.4	1248.3	549.5	275.8	143.1	87.1	76.7	72.6	70.5	66.4	64.3
77.5°	1096.9	929.0	406.4	223.9	120.3	78.8	68.4	64.3	62.2	56.0	56.0
80°	744.4	651.1	275.8	155.5	93.3	64.3	60.1	56.0	51.8	47.7	47.7
82.5°	462.4	456.2	199.1	101.6	68.4	51.8	47.7	47.7	41.5	37.3	37.3
85°	211.5	279.9	138.9	70.5	51.8	39.4	39.4	37.3	33.2	27.0	27.0
87.5°	66.4	93.3	72.6	31.1	29.0	22.8	22.8	20.7	20.7	16.6	16.6
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°	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0
2.5°	1308.4	1306.4	1306.4	1298.1	1318.8	1318.8	1331.2	1320.9	1327.1	1329.2	1345.8
5°	1038.9	1055.5	1067.9	1092.8	1107.3	1113.5	1113.5	1130.1	1123.9	1136.3	1161.2
7.5°	761.0	781.7	819.1	850.2	875.1	883.4	881.3	885.4	891.6	877.1	881.3
10°	615.9	601.3	613.8	642.8	665.6	692.6	671.8	669.8	676.0	669.8	682.2
12.5°	514.3	497.7	487.3	487.3	503.9	516.3	510.1	520.5	543.3	549.5	564.0
15°	416.8	402.3	394.0	383.6	400.2	404.4	410.6	425.1	441.7	450.0	466.6
17.5°	333.8	333.8	333.8	325.6	331.8	338.0	340.1	358.7	360.8	369.1	375.3
20°	273.7	279.9	290.3	294.5	300.7	300.7	296.5	306.9	298.6	304.8	309.0
22.5°	246.8	255.1	259.2	261.3	269.6	271.6	261.3	263.3	265.4	259.2	261.3
25°	232.2	236.4	232.2	234.3	236.4	232.2	234.3	238.5	236.4	240.5	238.5
27.5°	226.0	221.9	219.8	217.7	217.7	213.6	215.7	215.7	219.8	221.9	221.9
30°	226.0	219.8	211.5	205.3	205.3	199.1	203.2	207.4	209.4	213.6	213.6
32.5°	232.2	219.8	205.3	199.1	192.8	188.7	192.8	199.1	207.4	209.4	211.5
35°	184.6	190.8	188.7	180.4	178.3	178.3	176.3	176.3	170.0	170.0	168.0
37.5°	165.9	163.8	168.0	170.0	172.1	165.9	165.9	157.6	155.5	157.6	157.6
40°	155.5	155.5	155.5	161.7	163.8	159.7	153.4	149.3	149.3	149.3	151.4
42.5°	151.4	147.2	145.2	149.3	155.5	151.4	145.2	143.1	143.1	145.2	145.2
45°	145.2	143.1	141.0	138.9	147.2	141.0	138.9	136.9	136.9	136.9	138.9
47.5°	138.9	136.9	132.7	132.7	134.8	132.7	130.6	130.6	130.6	134.8	134.8
50°	134.8	132.7	128.6	128.6	128.6	128.6	126.5	126.5	126.5	128.6	130.6
52.5°	128.6	126.5	124.4	122.3	122.3	122.3	122.3	122.3	122.3	124.4	126.5
55°	122.3	120.3	118.2	118.2	120.3	120.3	118.2	120.3	118.2	120.3	122.3
57.5°	116.1	114.0	112.0	114.0	116.1	114.0	114.0	114.0	114.0	114.0	116.1
60°	107.8	107.8	107.8	107.8	112.0	112.0	112.0	112.0	107.8	109.9	112.0
62.5°	103.7	101.6	101.6	103.7	105.8	105.8	107.8	105.8	103.7	105.8	105.8
65°	95.4	95.4	95.4	97.5	97.5	99.5	99.5	99.5	97.5	99.5	99.5
67.5°	89.2	89.2	89.2	89.2	93.3	93.3	93.3	93.3	91.2	91.2	93.3
70°	78.8	80.9	78.8	82.9	87.1	85.0	87.1	87.1	85.0	82.9	87.1
72.5°	72.6	72.6	72.6	72.6	78.8	78.8	78.8	80.9	78.8	76.7	78.8
75°	64.3	64.3	64.3	66.4	70.5	70.5	70.5	70.5	70.5	68.4	68.4
77.5°	56.0	58.1	56.0	58.1	62.2	60.1	62.2	64.3	62.2	60.1	60.1
80°	47.7	47.7	47.7	49.8	51.8	51.8	51.8	53.9	51.8	49.8	49.8
82.5°	37.3	37.3	39.4	39.4	41.5	41.5	41.5	43.5	41.5	39.4	39.4
85°	29.0	29.0	29.0	31.1	31.1	33.2	33.2	35.3	35.3	33.2	33.2
87.5°	18.7	16.6	18.7	18.7	20.7	20.7	18.7	16.6	18.7	16.6	14.5
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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CATALOG NUMBER: CCW-SA-1E-835-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0
2.5°	1362.4	1399.7	1426.6	1445.3	1472.3	1524.1	1544.8	1582.2	1592.5	1598.7
5°	1171.6	1211.0	1269.0	1310.5	1358.2	1455.7	1530.3	1586.3	1611.2	1634.0
7.5°	918.6	970.4	1030.6	1084.5	1163.3	1283.6	1381.0	1497.1	1540.7	1563.5
10°	717.5	765.2	831.5	897.9	1007.8	1109.4	1248.3	1354.1	1414.2	1430.8
12.5°	605.5	661.5	740.3	821.1	889.6	1005.7	1146.7	1300.1	1356.1	1366.5
15°	514.3	591.0	671.8	754.8	833.6	935.2	1086.6	1273.2	1356.1	1366.5
17.5°	425.1	493.5	588.9	678.1	769.3	908.2	1096.9	1296.0	1378.9	1410.0
20°	338.0	404.4	479.0	591.0	715.4	862.6	1119.7	1372.7	1482.6	1515.8
22.5°	279.9	309.0	381.5	489.4	636.6	831.5	1142.6	1493.0	1609.1	1621.6
25°	244.7	265.4	311.0	412.6	574.4	810.8	1196.5	1631.9	1781.2	1781.2
27.5°	228.1	236.4	267.5	358.7	530.8	792.1	1250.4	1785.4	1924.3	1953.3
30°	223.9	244.7	261.3	319.3	483.1	740.3	1300.1	1905.6	2048.7	2050.8
32.5°	219.8	215.7	228.1	277.9	425.1	686.4	1341.6	2028.0	2140.0	2146.2
35°	172.1	180.4	201.1	244.7	381.5	647.0	1362.4	2094.3	2256.1	2262.3
37.5°	161.7	172.1	188.7	226.0	352.5	613.8	1368.6	2222.9	2378.4	2390.9
40°	157.6	165.9	178.3	209.4	329.7	572.3	1381.0	2355.6	2558.8	2542.2
42.5°	149.3	159.7	172.1	201.1	311.0	541.2	1383.1	2428.2	2654.2	2654.2
45°	147.2	153.4	168.0	201.1	290.3	514.3	1349.9	2500.8	2764.1	2730.9
47.5°	138.9	151.4	163.8	194.9	265.4	487.3	1310.5	2538.1	2778.6	2768.3
50°	136.9	149.3	170.0	184.6	250.9	474.9	1302.2	2631.4	2807.7	2805.6
52.5°	132.7	145.2	176.3	176.3	232.2	458.3	1341.6	2672.9	2813.9	2830.5
55°	126.5	145.2	163.8	161.7	215.7	437.5	1385.2	2780.7	2923.8	2919.6
57.5°	122.3	141.0	155.5	147.2	197.0	423.0	1449.4	2884.4	3056.5	3027.5
60°	116.1	141.0	138.9	136.9	182.5	410.6	1503.4	2905.1	3085.5	3104.2
62.5°	112.0	147.2	122.3	126.5	170.0	404.4	1480.5	2749.6	3046.1	3062.7
65°	107.8	126.5	112.0	116.1	165.9	391.9	1391.4	2563.0	2876.1	2948.7
67.5°	99.5	103.7	103.7	107.8	161.7	362.9	1208.9	2227.0	2616.9	2656.3
70°	91.2	93.3	93.3	99.5	157.6	329.7	997.4	1926.4	2270.6	2345.2
72.5°	82.9	82.9	82.9	91.2	145.2	302.7	821.1	1480.5	1887.0	1938.8
75°	72.6	72.6	72.6	80.9	130.6	275.8	647.0	1101.1	1389.3	1464.0
77.5°	64.3	64.3	62.2	72.6	114.0	223.9	466.6	777.6	978.7	1040.9
80°	53.9	51.8	51.8	58.1	89.2	161.7	300.7	549.5	682.2	709.2
82.5°	43.5	41.5	39.4	43.5	64.3	101.6	186.6	383.6	437.5	420.9
85°	41.5	43.5	35.3	33.2	45.6	66.4	118.2	236.4	197.0	197.0
87.5°	16.6	14.5	14.5	12.4	22.8	24.9	51.8	43.5	33.2	33.2
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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