

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: P676336

Luminaire Tested: **CCW-SA-2B-835-U-T2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676336  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-835-U-T2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T2 distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

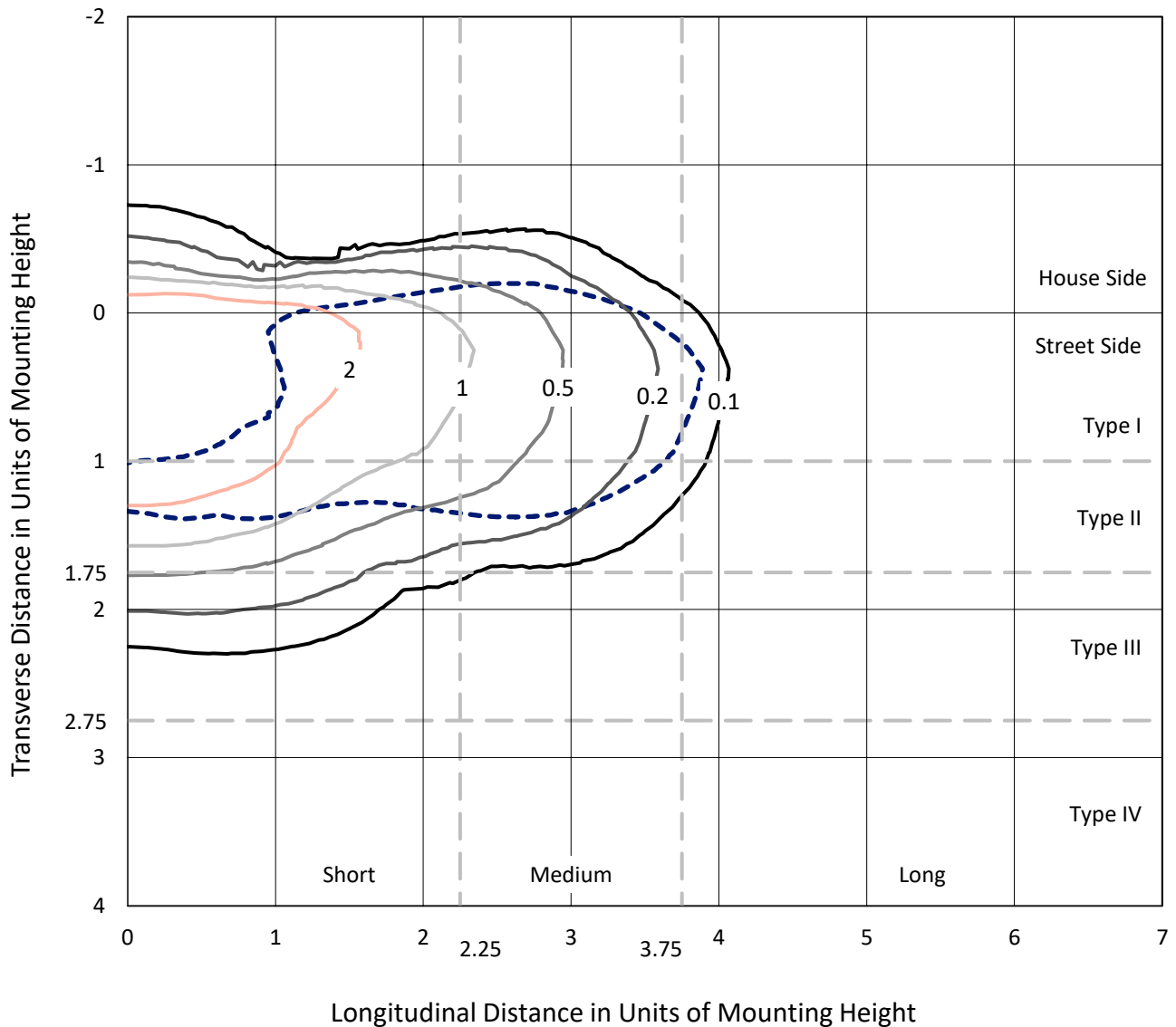
Lumens per Lamp: N/A  
Luminaire Lumens: 4393.5 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 46  
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

REPORT NUMBER: P676336  
 CATALOG NUMBER: CCW-SA-2B-835-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

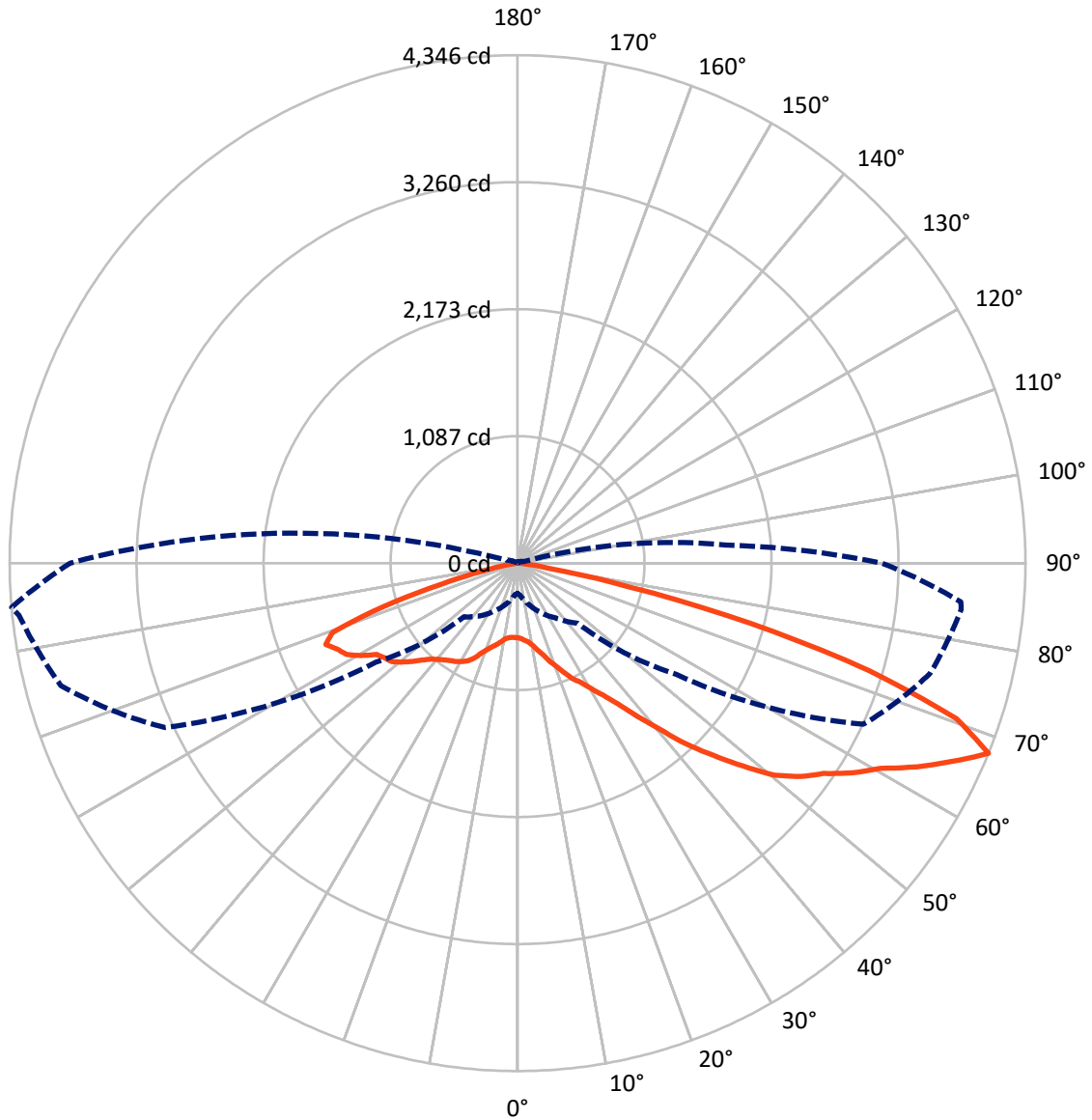
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P676336  
CATALOG NUMBER: CCW-SA-2B-835-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P676336  
 CATALOG NUMBER: CCW-SA-2B-835-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	624.2	0.0	624.2
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	3769.3	0.0	3769.3
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	4393.5	0.0	4393.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.2	1.3
10°-20°	156.7	3.6
20°-30°	260.2	5.9
30°-40°	447.6	10.2
40°-50°	804.3	18.3
50°-60°	1145.0	26.1
60°-70°	1043.9	23.8
70°-80°	444.5	10.1
80°-90°	33.1	0.8
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°	4393.5	100.0
0°-180°	4393.5	100.0



REPORT NUMBER: P676336

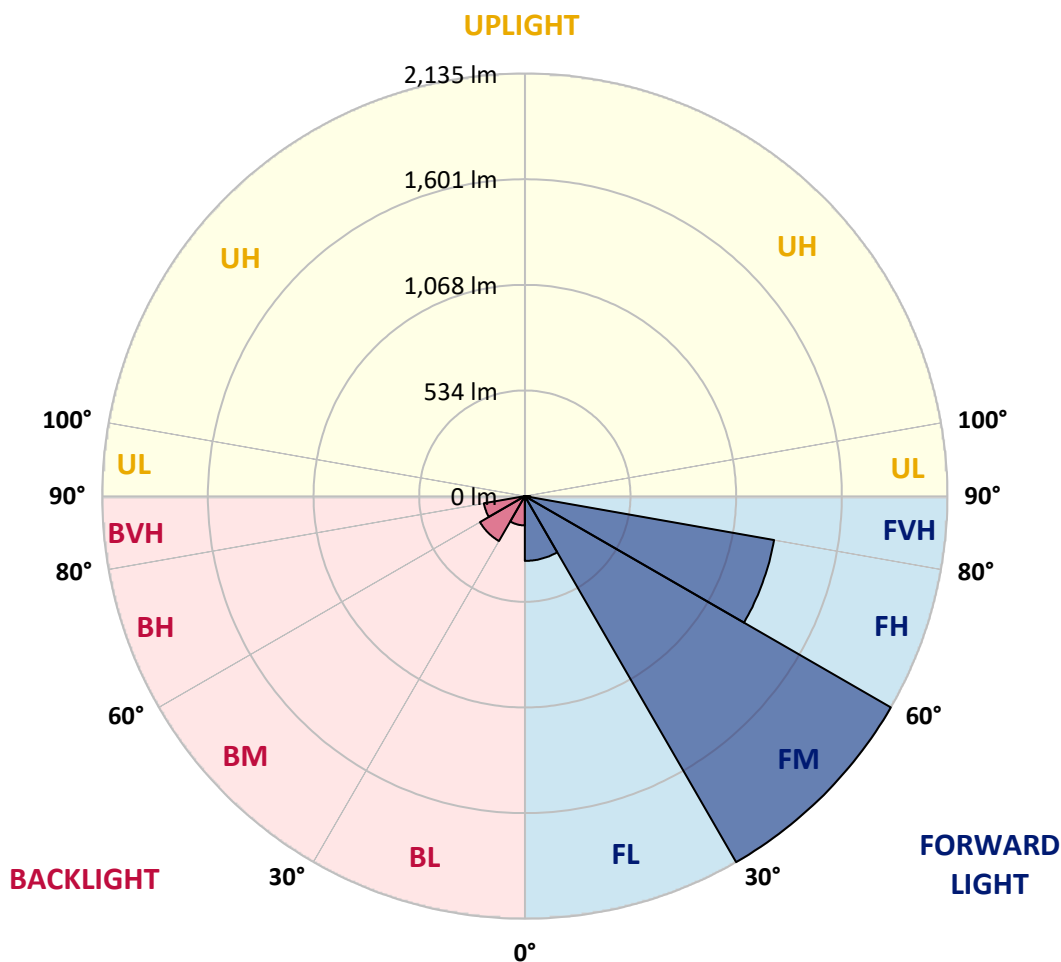
CATALOG NUMBER: CCW-SA-2B-835-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.3	7.4			
FM (30°-60°)	2135.2	48.6			
FH (60°-80°)	1278.7	29.1			G1/1800
FVH (80°-90°)	28.1	0.6			G1/100
BL (0°-30°)	147.8	3.4	B1/500		
BM (30°-60°)	261.7	6.0	B1/1000		
BH (60°-80°)	209.7	4.8	B1/500		G1/500
BVH (80°-90°)	5.0	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 II Short





REPORT NUMBER: P676336  
 CATALOG NUMBER: CCW-SA-2B-835-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9
2.5°	661.9	668.2	668.2	666.1	659.8	655.6	653.5	649.3	645.2	645.2	647.3
5°	668.2	661.9	670.3	659.8	659.8	659.8	668.2	664.0	661.9	651.4	651.4
7.5°	668.2	661.9	661.9	668.2	661.9	666.1	676.6	672.4	680.8	661.9	666.1
10°	649.3	647.3	651.4	659.8	661.9	670.3	680.8	701.7	703.8	691.2	689.1
12.5°	611.6	609.5	624.2	628.4	653.5	674.5	705.9	722.7	741.5	735.2	722.7
15°	584.4	588.6	599.1	615.8	638.9	676.6	712.2	749.9	783.4	775.0	770.8
17.5°	594.9	592.8	594.9	605.4	634.7	672.4	733.1	777.1	825.3	825.3	829.5
20°	626.3	632.6	630.5	624.2	638.9	670.3	733.1	810.6	890.2	883.9	883.9
22.5°	680.8	682.9	670.3	666.1	664.0	682.9	745.7	852.5	944.7	957.3	953.1
25°	737.3	739.4	735.2	722.7	705.9	710.1	768.7	886.0	1020.1	1041.0	1036.9
27.5°	831.6	829.5	819.0	804.3	779.2	760.4	804.3	911.2	1078.8	1114.4	1103.9
30°	925.8	919.6	904.9	886.0	863.0	827.4	848.3	959.4	1152.1	1185.6	1162.5
32.5°	1041.0	1028.5	1032.7	1003.3	955.2	898.6	894.4	1003.3	1210.7	1258.9	1240.0
35°	1187.7	1173.0	1152.1	1124.8	1078.8	1003.3	980.3	1074.6	1309.2	1344.8	1344.8
37.5°	1380.4	1395.0	1369.9	1256.8	1206.5	1135.3	1087.1	1147.9	1395.0	1480.9	1460.0
40°	1577.3	1589.8	1543.8	1460.0	1351.1	1263.1	1233.8	1267.3	1524.9	1627.6	1587.8
42.5°	1736.5	1753.2	1736.5	1627.6	1541.7	1428.6	1376.2	1407.6	1692.5	1816.1	1763.7
45°	1904.0	1920.8	1902.0	1830.7	1746.9	1682.0	1550.0	1589.8	1868.4	2052.8	1994.1
47.5°	2029.7	2050.7	2017.2	2002.5	1935.5	1925.0	1700.9	1744.9	2052.8	2291.6	2218.2
50°	2059.1	2082.1	2111.4	2128.2	2105.1	2130.3	1904.0	1941.8	2245.5	2511.5	2440.3
52.5°	1989.9	2013.0	2077.9	2155.4	2262.2	2337.6	2109.3	2140.7	2446.6	2693.7	2656.0
55°	1786.7	1807.7	1939.7	2044.4	2299.9	2423.5	2306.2	2438.2	2591.1	2884.3	2792.2
57.5°	1445.3	1470.5	1644.3	1805.6	2174.3	2375.3	2423.5	2685.4	2829.9	3024.7	2917.9
60°	1026.4	1041.0	1191.9	1476.7	1826.5	2134.5	2400.5	2869.7	3018.4	3213.2	3156.7
62.5°	590.7	603.3	760.4	1028.5	1378.3	1782.6	2297.8	3043.5	3221.6	3420.6	3389.2
65°	391.7	395.9	502.7	649.3	896.5	1313.4	2038.1	3198.5	3422.7	3586.1	3550.4
67.5°	257.6	280.7	364.5	465.0	573.9	726.8	1661.1	3263.5	3653.1	3816.5	3808.1
70°	184.3	192.7	261.8	358.2	431.5	408.5	971.9	2804.8	3642.6	3879.3	3810.2
72.5°	108.9	117.3	173.9	268.1	339.3	259.7	454.5	1983.6	3018.4	3095.9	3077.1
75°	79.6	79.6	106.8	192.7	247.2	186.4	213.7	1254.7	2004.6	2176.4	2174.3
77.5°	56.6	58.7	73.3	115.2	190.6	136.2	117.3	697.5	1095.5	1198.1	1141.6
80°	33.5	35.6	50.3	69.1	138.2	98.4	77.5	318.4	421.0	425.2	404.3
82.5°	25.1	25.1	33.5	48.2	96.4	67.0	48.2	121.5	136.2	123.6	104.7
85°	14.7	12.6	25.1	35.6	56.6	37.7	33.5	56.6	62.8	46.1	41.9
87.5°	4.2	4.2	10.5	12.6	25.1	20.9	14.7	20.9	29.3	16.8	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P676336  
 CATALOG NUMBER: CCW-SA-2B-835-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9
2.5°	643.1	636.8	626.3	622.1	607.5	601.2	597.0	586.5	588.6	582.3	582.3
5°	636.8	636.8	615.8	592.8	569.7	555.1	538.3	517.4	517.4	509.0	511.1
7.5°	659.8	643.1	615.8	573.9	536.2	502.7	488.1	467.1	454.5	448.3	448.3
10°	674.5	657.7	611.6	561.4	513.2	471.3	439.9	410.6	393.8	393.8	391.7
12.5°	714.3	689.1	628.4	559.3	488.1	425.2	377.0	343.5	320.5	303.7	307.9
15°	747.8	720.6	636.8	542.5	444.1	356.1	297.4	234.6	203.2	186.4	180.1
17.5°	800.2	749.9	655.6	513.2	377.0	278.6	192.7	140.3	127.8	125.7	125.7
20°	844.1	785.5	657.7	456.6	310.0	178.0	123.6	115.2	108.9	106.8	104.7
22.5°	904.9	831.6	649.3	391.7	222.0	119.4	104.7	96.4	92.2	85.9	85.9
25°	967.7	892.3	632.6	331.0	136.2	102.6	92.2	83.8	75.4	71.2	73.3
27.5°	1034.8	938.4	584.4	257.6	104.7	90.1	75.4	69.1	64.9	62.8	62.8
30°	1089.2	967.7	513.2	171.8	94.3	79.6	67.0	60.7	56.6	54.5	54.5
32.5°	1129.0	992.9	433.6	115.2	85.9	71.2	60.7	54.5	50.3	48.2	48.2
35°	1196.1	1011.7	360.3	98.4	77.5	62.8	52.4	48.2	44.0	44.0	44.0
37.5°	1298.7	1036.9	287.0	90.1	71.2	56.6	50.3	44.0	41.9	39.8	39.8
40°	1388.8	1068.3	205.3	81.7	64.9	52.4	44.0	39.8	37.7	35.6	35.6
42.5°	1518.6	1103.9	134.1	73.3	58.7	48.2	39.8	35.6	33.5	31.4	31.4
45°	1684.1	1162.5	104.7	64.9	52.4	44.0	37.7	33.5	29.3	29.3	27.2
47.5°	1860.1	1233.8	94.3	60.7	48.2	39.8	33.5	29.3	27.2	25.1	25.1
50°	2023.4	1302.9	88.0	56.6	44.0	37.7	31.4	27.2	23.0	20.9	20.9
52.5°	2170.1	1367.8	83.8	52.4	41.9	33.5	27.2	23.0	20.9	18.9	18.9
55°	2247.6	1397.1	81.7	50.3	37.7	31.4	25.1	20.9	18.9	16.8	16.8
57.5°	2369.1	1434.8	79.6	48.2	35.6	27.2	23.0	18.9	16.8	14.7	14.7
60°	2566.0	1558.4	77.5	46.1	33.5	27.2	20.9	16.8	12.6	10.5	10.5
62.5°	2729.3	1661.1	69.1	39.8	29.3	23.0	16.8	12.6	8.4	6.3	6.3
65°	2915.8	1709.2	60.7	35.6	25.1	18.9	12.6	8.4	6.3	2.1	2.1
67.5°	3118.9	1782.6	50.3	31.4	23.0	14.7	10.5	6.3	2.1	0.0	0.0
70°	3012.1	1690.4	41.9	27.2	20.9	12.6	8.4	4.2	0.0	0.0	0.0
72.5°	2360.7	1210.7	33.5	25.1	18.9	12.6	8.4	2.1	0.0	0.0	0.0
75°	1577.3	685.0	29.3	20.9	14.7	10.5	6.3	2.1	0.0	0.0	0.0
77.5°	856.7	307.9	25.1	18.9	12.6	8.4	6.3	2.1	0.0	0.0	0.0
80°	278.6	121.5	20.9	16.8	12.6	8.4	6.3	2.1	0.0	0.0	0.0
82.5°	75.4	37.7	20.9	16.8	12.6	8.4	6.3	2.1	0.0	0.0	0.0
85°	31.4	25.1	20.9	16.8	12.6	8.4	6.3	2.1	0.0	0.0	0.0
87.5°	12.6	8.4	8.4	10.5	8.4	6.3	4.2	2.1	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





REPORT NUMBER: P676336  
 CATALOG NUMBER: CCW-SA-2B-835-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9
2.5°	584.4	588.6	590.7	590.7	601.2	611.6	624.2	634.7	634.7	641.0	647.3
5°	513.2	517.4	523.7	542.5	563.5	586.5	609.5	626.3	649.3	659.8	666.1
7.5°	454.5	458.7	475.5	494.3	523.7	563.5	603.3	641.0	664.0	674.5	682.9
10°	393.8	400.1	418.9	452.4	490.2	538.3	584.4	649.3	687.0	708.0	716.4
12.5°	305.8	322.6	347.7	383.3	431.5	504.8	590.7	657.7	722.7	747.8	764.6
15°	192.7	207.4	247.2	303.7	368.7	454.5	573.9	670.3	760.4	785.5	812.7
17.5°	123.6	125.7	138.2	199.0	282.8	391.7	548.8	689.1	802.3	837.9	879.8
20°	104.7	108.9	111.0	119.4	188.5	322.6	496.4	712.2	852.5	900.7	940.5
22.5°	88.0	90.1	94.3	100.5	113.1	234.6	425.2	712.2	896.5	967.7	1013.8
25°	71.2	75.4	79.6	85.9	98.4	146.6	351.9	699.6	948.9	1036.9	1095.5
27.5°	62.8	62.8	67.0	73.3	83.8	102.6	278.6	661.9	988.7	1078.8	1156.3
30°	54.5	56.6	58.7	64.9	75.4	90.1	192.7	601.2	1030.6	1160.4	1248.4
32.5°	48.2	48.2	52.4	56.6	67.0	81.7	123.6	509.0	1085.0	1223.3	1346.9
35°	44.0	44.0	46.1	50.3	60.7	73.3	96.4	431.5	1150.0	1342.7	1478.8
37.5°	39.8	39.8	41.9	46.1	54.5	64.9	88.0	370.8	1217.0	1462.1	1661.1
40°	35.6	35.6	37.7	41.9	48.2	58.7	79.6	299.5	1300.8	1638.0	1860.1
42.5°	31.4	31.4	33.5	37.7	44.0	52.4	69.1	224.1	1411.8	1828.6	2117.7
45°	27.2	27.2	29.3	33.5	37.7	48.2	62.8	171.8	1533.3	2040.2	2343.9
47.5°	23.0	25.1	27.2	31.4	35.6	44.0	56.6	150.8	1652.7	2264.3	2595.3
50°	20.9	20.9	23.0	27.2	33.5	39.8	52.4	148.7	1774.2	2436.1	2852.9
52.5°	18.9	18.9	20.9	25.1	31.4	37.7	50.3	152.9	1874.7	2595.3	3033.1
55°	16.8	16.8	18.9	20.9	27.2	35.6	46.1	157.1	1945.9	2756.6	3177.6
57.5°	14.7	14.7	16.8	20.9	25.1	31.4	41.9	161.3	2061.1	2915.8	3387.1
60°	10.5	10.5	14.7	18.9	23.0	27.2	39.8	165.5	2245.5	3135.7	3565.1
62.5°	6.3	6.3	8.4	14.7	18.9	25.1	35.6	157.1	2417.2	3418.5	3837.4
65°	2.1	4.2	6.3	8.4	14.7	20.9	29.3	142.4	2561.8	3701.3	4088.8
67.5°	0.0	0.0	2.1	6.3	12.6	16.8	25.1	104.7	2584.8	3829.0	4346.4
70°	0.0	0.0	2.1	6.3	10.5	16.8	23.0	58.7	2201.5	3420.6	3984.0
72.5°	0.0	0.0	0.0	4.2	10.5	14.7	20.9	44.0	1623.4	2578.5	3148.3
75°	0.0	0.0	0.0	2.1	8.4	12.6	18.9	33.5	986.6	1719.7	2054.9
77.5°	0.0	0.0	0.0	2.1	6.3	12.6	18.9	29.3	347.7	819.0	965.6
80°	0.0	0.0	0.0	4.2	8.4	12.6	16.8	25.1	83.8	205.3	276.5
82.5°	0.0	0.0	0.0	2.1	6.3	10.5	14.7	20.9	33.5	60.7	96.4
85°	0.0	0.0	0.0	2.1	4.2	10.5	14.7	18.9	23.0	29.3	41.9
87.5°	0.0	0.0	0.0	0.0	2.1	4.2	6.3	8.4	8.4	8.4	14.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P676336  
 CATALOG NUMBER: CCW-SA-2B-835-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9
2.5°	645.2	653.5	657.7	666.1	670.3	668.2	666.1	672.4	668.2	661.9
5°	668.2	668.2	674.5	676.6	676.6	670.3	674.5	672.4	668.2	668.2
7.5°	693.3	703.8	703.8	691.2	689.1	685.0	685.0	668.2	661.9	668.2
10°	718.5	726.8	728.9	714.3	695.4	687.0	676.6	655.6	645.2	649.3
12.5°	770.8	770.8	747.8	731.0	705.9	676.6	651.4	622.1	607.5	611.6
15°	808.5	816.9	785.5	747.8	703.8	649.3	622.1	599.1	590.7	584.4
17.5°	881.9	865.1	814.8	760.4	697.5	641.0	622.1	601.2	594.9	594.9
20°	944.7	936.3	860.9	762.5	695.4	657.7	645.2	634.7	632.6	626.3
22.5°	1030.6	992.9	896.5	785.5	718.5	685.0	680.8	691.2	685.0	680.8
25°	1095.5	1064.1	923.7	819.0	754.1	743.6	749.9	760.4	743.6	737.3
27.5°	1183.5	1124.8	976.1	863.0	802.3	812.7	833.7	835.8	825.3	831.6
30°	1265.2	1202.3	1015.9	913.3	883.9	894.4	925.8	948.9	934.2	925.8
32.5°	1382.5	1286.1	1095.5	997.1	986.6	1013.8	1049.4	1064.1	1045.2	1041.0
35°	1506.1	1382.5	1177.2	1091.3	1110.2	1147.9	1179.3	1204.4	1175.1	1187.7
37.5°	1698.8	1537.5	1315.4	1240.0	1248.4	1263.1	1321.7	1390.9	1405.5	1380.4
40°	1899.9	1705.1	1443.2	1384.6	1403.4	1443.2	1512.3	1577.3	1610.8	1577.3
42.5°	2132.4	1866.3	1640.1	1571.0	1589.8	1646.4	1738.6	1790.9	1786.7	1736.5
45°	2419.3	2090.5	1824.4	1738.6	1807.7	1858.0	1950.1	1956.4	1916.6	1904.0
47.5°	2639.3	2279.0	2023.4	1969.0	2063.2	2065.3	2086.3	2088.4	2044.4	2029.7
50°	2882.3	2496.8	2245.5	2165.9	2325.1	2251.8	2195.2	2157.5	2090.5	2059.1
52.5°	3121.0	2651.8	2450.8	2369.1	2534.5	2339.7	2237.1	2121.9	2023.4	1989.9
55°	3248.8	2907.4	2750.3	2559.7	2580.6	2364.9	2107.2	1962.7	1795.1	1786.7
57.5°	3399.6	3079.2	3003.7	2689.5	2503.1	2188.9	1837.0	1646.4	1466.3	1445.3
60°	3577.7	3351.5	3271.9	2668.6	2228.7	1839.1	1455.8	1210.7	1041.0	1026.4
62.5°	3776.7	3674.0	3437.3	2463.3	1770.0	1294.5	961.4	756.2	599.1	590.7
65°	4090.9	3944.2	3525.3	2073.7	1170.9	829.5	638.9	490.2	395.9	391.7
67.5°	4287.8	4046.9	3328.4	1478.8	649.3	548.8	448.3	356.1	274.4	257.6
70°	4009.2	3713.8	2633.0	846.2	377.0	416.8	345.6	238.8	188.5	184.3
72.5°	3202.7	2756.6	1772.1	398.0	234.6	326.8	251.4	161.3	113.1	108.9
75°	2184.7	1734.4	1112.3	184.3	165.5	238.8	184.3	94.3	79.6	79.6
77.5°	976.1	883.9	569.7	113.1	123.6	182.2	106.8	64.9	58.7	56.6
80°	297.4	312.1	232.5	77.5	92.2	138.2	64.9	44.0	35.6	33.5
82.5°	100.5	117.3	104.7	46.1	62.8	98.4	44.0	29.3	25.1	25.1
85°	48.2	58.7	52.4	29.3	33.5	48.2	35.6	23.0	14.7	14.7
87.5°	18.9	27.2	18.9	12.6	18.9	25.1	14.7	10.5	4.2	4.2
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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