

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: P676188

Luminaire Tested: **CCW-SA-1D-835-U-T1**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676188  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-835-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
T1 distribution lens  
Light Source: (16) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

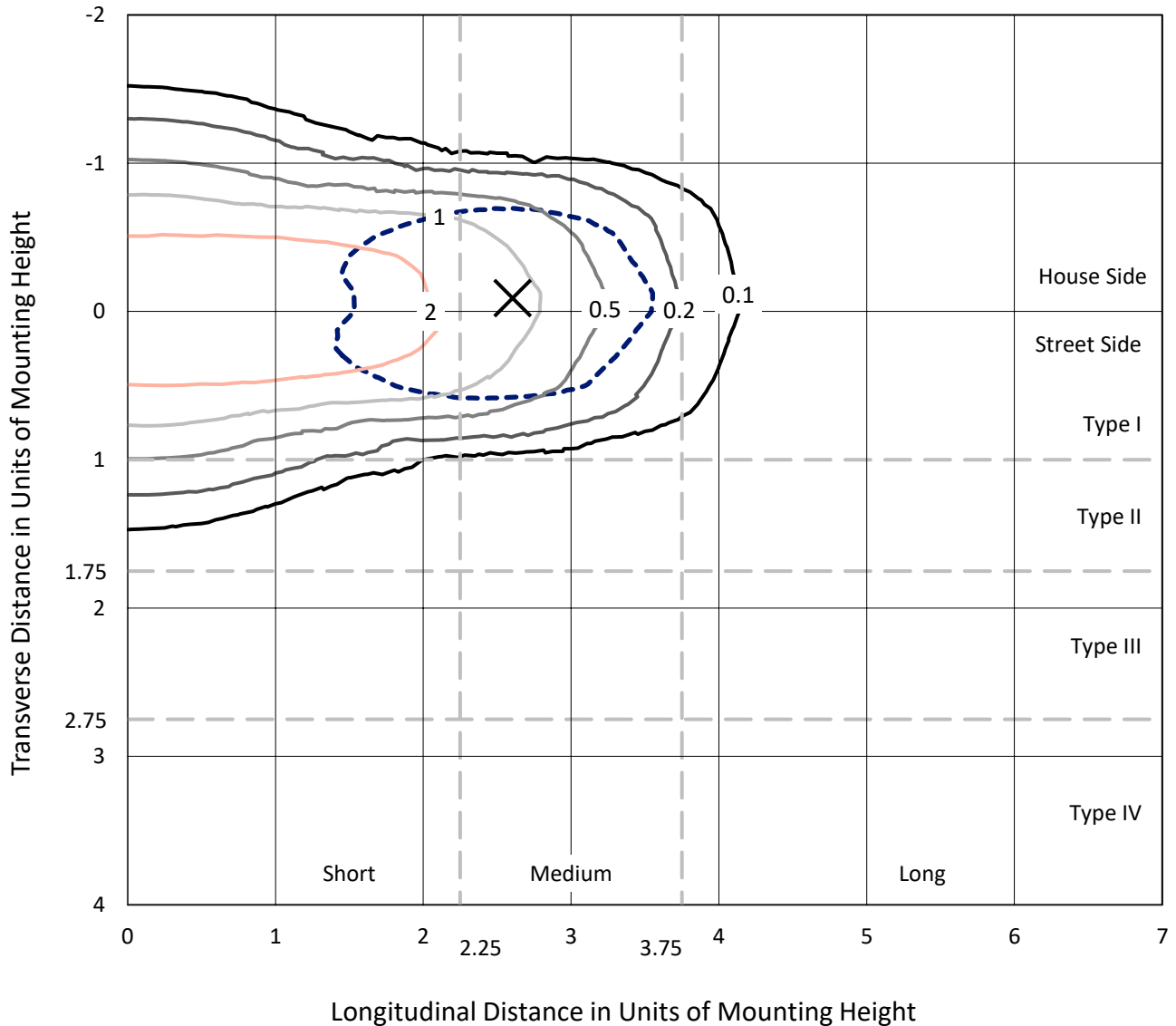
Lumens per Lamp: N/A  
Luminaire Lumens: 4474.9 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 44  
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: P676188  
 CATALOG NUMBER: CCW-SA-1D-835-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

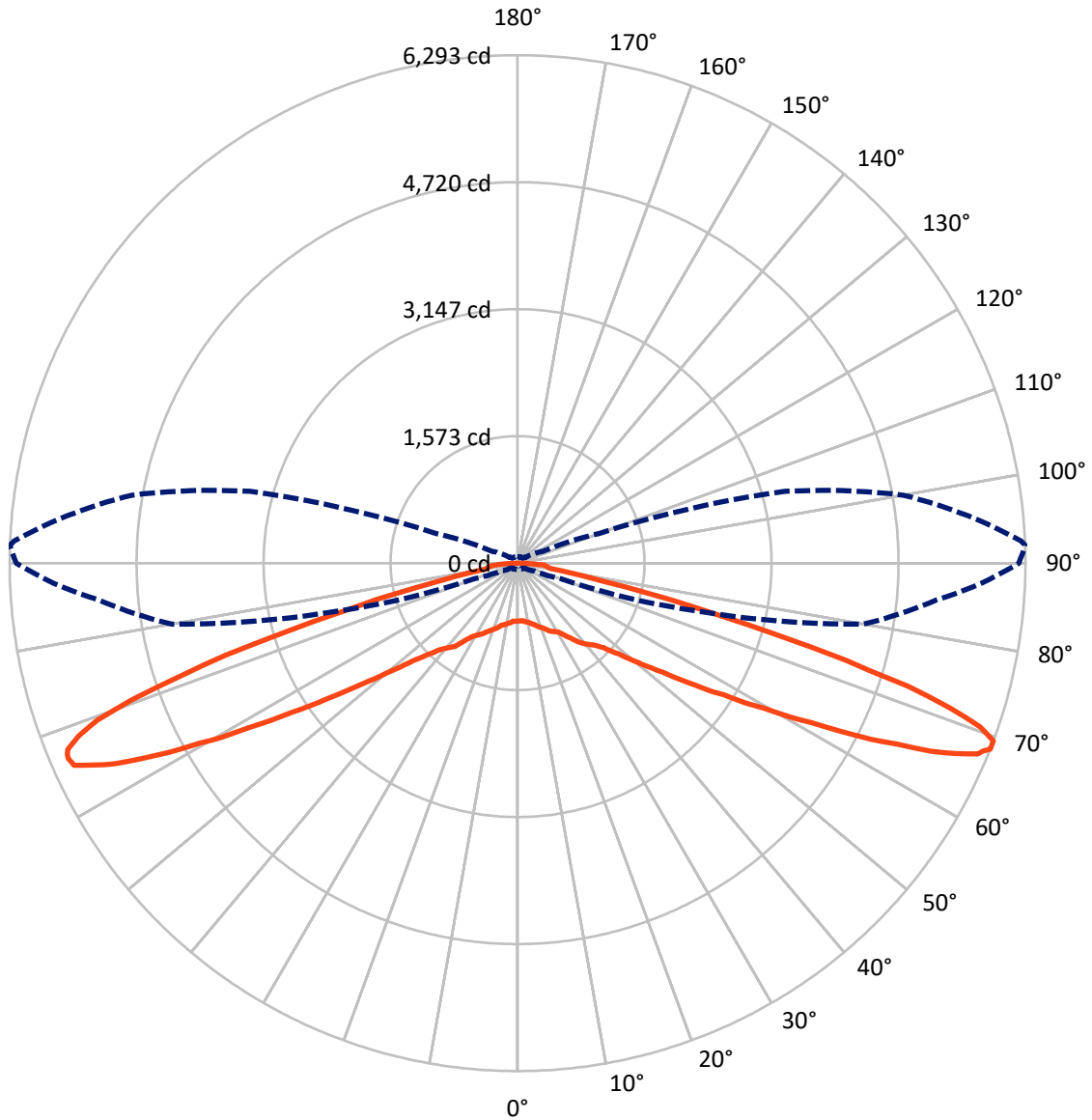
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc  
 Type I - Short - N/A

REPORT NUMBER: P676188  
CATALOG NUMBER: CCW-SA-1D-835-U-T1

### Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P676188  
 CATALOG NUMBER: CCW-SA-1D-835-U-T1

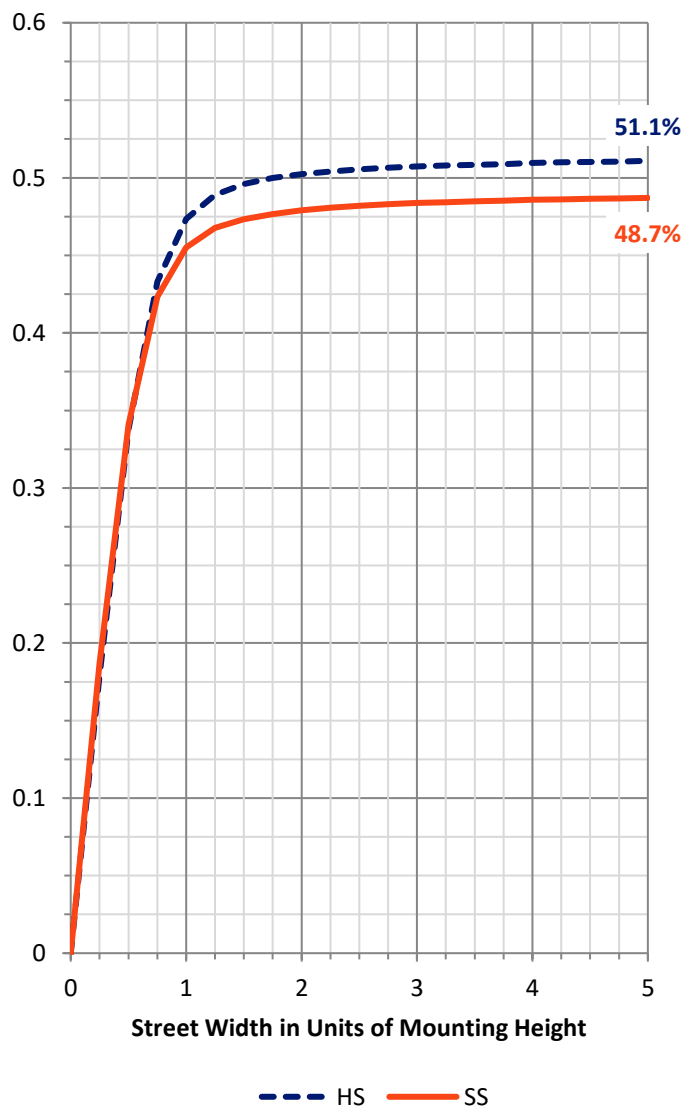
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2304.5	0.0	2304.5
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	2170.4	0.0	2170.4
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	4474.9	0.0	4474.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.7	1.6
10°-20°	232.1	5.2
20°-30°	396.2	8.9
30°-40°	553.1	12.4
40°-50°	703.6	15.7
50°-60°	889.7	19.9
60°-70°	1097.2	24.5
70°-80°	479.3	10.7
80°-90°	52.0	1.2
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°	4474.9	100.0
0°-180°	4474.9	100.0



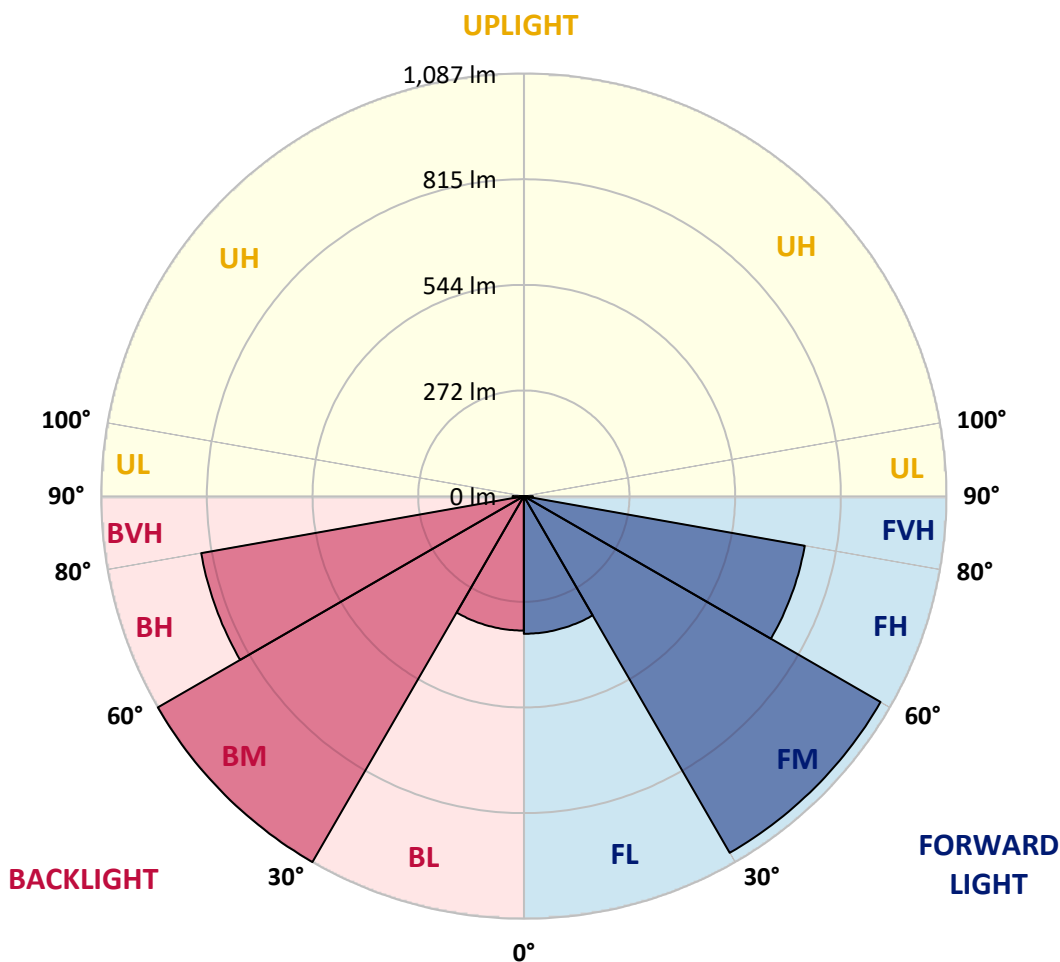
REPORT NUMBER: P676188  
 CATALOG NUMBER: CCW-SA-1D-835-U-T1

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	354.1	7.9			
FM (30°-60°)	1059.4	23.7			
FH (60°-80°)	733.8	16.4			G1/1800
FVH (80°-90°)	23.1	0.5			G1/100
BL (0°-30°)	345.8	7.7	B1/500		
BM (30°-60°)	1087.0	24.3	B2/2500		
BH (60°-80°)	842.7	18.8	B2/1000		G2/1000
BVH (80°-90°)	28.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type I Short





REPORT NUMBER: P676188

CATALOG NUMBER: CCW-SA-1D-835-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6
2.5°	730.7	729.8	732.4	734.0	726.5	729.0	727.3	725.6	719.8	717.2	712.2
5°	750.8	753.4	761.8	754.2	757.6	753.4	739.9	744.1	736.6	734.9	729.8
7.5°	786.1	781.1	792.8	784.4	787.0	778.6	772.7	765.1	763.4	751.7	752.5
10°	793.7	803.8	808.8	807.1	808.8	813.0	802.1	790.3	774.4	771.0	759.2
12.5°	788.6	797.9	811.3	822.2	829.8	831.5	827.3	824.8	818.0	798.7	797.9
15°	783.6	776.9	785.3	823.1	848.3	865.1	870.9	856.7	858.3	833.1	823.1
17.5°	750.0	739.9	772.7	809.6	840.7	877.7	906.2	902.0	902.0	881.9	867.6
20°	705.5	722.3	739.1	786.1	843.2	898.7	953.2	950.7	940.7	934.8	903.7
22.5°	667.7	675.3	706.3	755.9	827.3	904.5	969.2	1015.4	991.9	968.4	949.9
25°	641.7	634.9	674.4	725.6	812.2	894.5	999.4	1047.3	1059.9	1042.3	1007.0
27.5°	604.7	604.7	635.8	684.5	763.4	889.4	1028.8	1101.9	1120.4	1094.3	1043.1
30°	562.7	567.8	594.6	650.1	727.3	852.5	1040.6	1164.9	1180.0	1157.3	1104.4
32.5°	530.0	530.0	560.2	619.0	702.1	835.7	1033.0	1227.0	1255.6	1238.8	1184.2
35°	494.7	492.2	514.0	578.7	661.8	802.9	1030.5	1276.6	1340.4	1341.3	1284.2
37.5°	444.3	454.4	482.1	533.3	629.9	771.0	1023.0	1336.2	1450.5	1469.8	1430.3
40°	410.7	414.9	440.1	496.4	580.3	733.2	1012.0	1384.9	1523.5	1589.9	1535.3
42.5°	362.0	367.9	387.2	456.9	532.5	679.5	964.2	1419.4	1627.7	1703.3	1657.1
45°	310.8	314.1	342.7	399.8	481.2	615.6	912.9	1474.8	1728.4	1883.0	1856.1
47.5°	249.4	251.1	275.5	335.1	419.9	551.8	834.0	1472.3	1809.9	2062.7	2138.3
50°	194.8	199.0	217.5	266.2	346.0	473.7	742.4	1452.1	1912.4	2267.6	2416.3
52.5°	155.4	156.2	168.0	206.6	267.1	395.6	644.2	1388.3	2009.0	2468.4	2757.3
55°	128.5	128.5	135.2	158.7	204.9	300.7	529.1	1282.5	2020.7	2690.1	3129.3
56°	123.5	121.8	127.7	147.8	184.8	271.3	475.4	1211.1	2037.5	2792.6	3315.8
57°	116.7	117.6	120.9	135.2	166.3	240.2	415.7	1141.4	2025.8	2876.5	3453.5
58°	113.4	111.7	118.4	127.7	147.0	213.3	374.6	1059.1	2007.3	2945.4	3654.3
59°	108.3	107.5	111.7	120.1	136.9	189.8	324.2	970.0	1971.2	3034.4	3803.8
60°	106.7	105.8	107.5	114.2	126.0	166.3	285.6	865.9	1874.6	3126.0	3989.4
61°	101.6	102.5	105.8	110.0	119.3	149.5	257.0	759.2	1811.6	3203.3	4194.3
62°	102.5	100.8	102.5	105.8	112.5	137.7	225.1	654.3	1699.1	3290.6	4348.0
63°	97.4	96.6	99.1	103.3	106.7	124.3	196.5	565.2	1571.4	3310.8	4478.2
64°	95.7	94.9	95.7	101.6	102.5	116.7	173.9	482.9	1386.6	3345.2	4645.3
65°	91.5	91.5	93.2	95.7	99.1	110.0	155.4	419.1	1202.7	3254.5	4696.5
66°	88.2	89.0	89.0	93.2	95.7	102.5	142.8	356.1	1026.3	3110.0	4746.1
67°	85.7	85.7	86.5	89.9	92.4	96.6	128.5	308.2	865.9	2937.9	4669.7
67.5°	84.0	84.8	84.8	88.2	90.7	96.6	122.6	292.3	774.4	2748.9	4612.6
68°	81.5	82.3	82.3	85.7	88.2	93.2	118.4	267.1	713.9	2626.3	4506.7
69°	79.8	78.9	78.9	82.3	85.7	89.0	110.0	233.5	567.8	2283.6	4352.2
70°	74.7	74.7	76.4	78.9	81.5	84.8	101.6	205.8	480.4	1890.5	3954.1
71°	72.2	71.4	72.2	74.7	77.3	81.5	93.2	182.3	393.1	1569.7	3562.7
72°	67.2	68.9	68.9	71.4	73.9	76.4	87.3	158.7	330.1	1254.8	3131.9
72.5°	66.3	66.3	67.2	69.7	71.4	75.6	84.0	152.0	301.5	1106.1	2951.3
73°	63.8	63.8	64.7	67.2	68.9	73.1	81.5	136.9	274.6	984.3	2613.7
74°	61.3	60.5	60.5	63.8	64.7	68.9	76.4	120.9	230.1	741.6	2098.0
75°	57.1	57.1	58.0	59.6	60.5	63.8	70.5	107.5	194.0	575.3	1641.1



REPORT NUMBER: P676188  
 CATALOG NUMBER: CCW-SA-1D-835-U-T1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	47.0	47.9	48.7	50.4	50.4	52.9	58.0	74.7	118.4	291.4	753.4
80°	34.4	36.1	38.6	41.2	40.3	40.3	45.4	53.8	70.5	131.0	288.9
82.5°	27.7	29.4	26.9	30.2	30.2	28.6	32.8	39.5	47.9	64.7	103.3
85°	18.5	19.3	16.0	18.5	17.6	17.6	21.8	23.5	29.4	36.1	51.2
87.5°	8.4	8.4	6.7	7.6	7.6	7.6	10.9	8.4	12.6	17.6	30.2
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: P676188

CATALOG NUMBER: CCW-SA-1D-835-U-T1

**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6
2.5°	717.2	720.6	720.6	717.2	714.7	717.2	715.6	711.4	715.6	717.2	718.1
5°	727.3	720.6	724.0	716.4	721.4	720.6	718.9	723.1	724.0	724.0	729.8
7.5°	738.2	746.6	735.7	736.6	739.1	729.0	732.4	734.0	730.7	737.4	742.4
10°	757.6	760.9	757.6	745.0	753.4	746.6	744.1	751.7	750.0	751.7	759.2
12.5°	775.2	781.1	771.8	771.0	766.8	760.9	764.3	763.4	775.2	776.9	786.1
15°	811.3	796.2	792.8	792.0	790.3	787.8	789.5	790.3	805.4	808.0	829.8
17.5°	842.4	839.9	821.4	828.1	828.1	818.0	813.8	828.1	839.9	852.5	867.6
20°	874.3	871.8	851.6	852.5	844.9	854.1	849.1	862.5	882.7	886.9	900.3
22.5°	912.1	901.2	886.9	888.6	891.1	884.4	881.0	899.5	919.7	931.4	932.3
25°	971.7	944.0	932.3	933.9	930.6	925.5	928.1	951.6	961.6	986.8	981.8
27.5°	1003.6	987.7	979.3	960.0	960.8	953.2	963.3	998.6	1018.8	1038.1	999.4
30°	1042.3	1032.2	995.2	988.5	987.7	984.3	1002.8	1048.2	1078.4	1089.3	1033.9
32.5°	1117.9	1077.6	1068.3	1062.4	1049.0	1053.2	1062.4	1122.1	1169.9	1167.4	1065.8
35°	1204.4	1176.7	1150.6	1145.6	1143.9	1132.1	1148.1	1217.8	1254.8	1243.8	1077.6
37.5°	1342.9	1301.0	1265.7	1246.4	1243.0	1234.6	1272.4	1327.8	1375.7	1332.9	1086.8
40°	1411.0	1363.9	1331.2	1319.4	1322.0	1333.7	1370.7	1455.5	1476.5	1397.5	1094.3
42.5°	1508.4	1457.2	1392.5	1386.6	1379.1	1384.9	1456.3	1570.6	1588.2	1484.9	1065.8
45°	1681.4	1604.1	1529.4	1495.8	1497.5	1513.4	1624.3	1749.4	1716.7	1545.4	1020.4
47.5°	1899.8	1786.4	1725.9	1680.6	1702.4	1684.8	1861.1	1961.1	1849.4	1621.8	965.0
50°	2228.2	2069.4	1987.1	1932.5	1941.8	1956.9	2135.8	2220.6	1996.4	1658.7	880.2
52.5°	2642.2	2438.1	2317.2	2244.1	2250.8	2283.6	2514.6	2488.5	2164.3	1689.8	766.8
55°	3137.7	2927.8	2693.5	2663.2	2655.7	2733.8	2988.2	2769.0	2315.5	1640.3	649.2
56°	3399.8	3176.4	2932.8	2870.7	2852.2	2906.8	3205.8	2909.3	2367.6	1584.8	592.9
57°	3622.3	3409.0	3141.9	3036.1	3059.6	3162.1	3421.6	3041.2	2415.5	1527.7	540.0
58°	3928.1	3684.5	3402.3	3321.7	3300.7	3382.1	3654.3	3173.9	2431.4	1468.9	491.3
59°	4232.9	3940.7	3686.2	3539.2	3545.1	3693.7	3883.5	3331.8	2455.8	1394.2	429.2
60°	4464.7	4317.8	3977.6	3867.6	3852.5	4067.5	4112.0	3437.6	2481.8	1293.4	385.5
61°	4793.1	4601.6	4285.0	4143.1	4184.2	4356.4	4358.9	3570.3	2443.2	1165.7	331.7
62°	5029.1	4978.7	4646.1	4510.9	4498.3	4726.8	4615.9	3687.0	2409.6	1044.8	293.1
63°	5305.4	5305.4	5002.3	4896.4	4902.3	5082.9	4727.6	3803.8	2370.9	911.3	257.8
64°	5449.1	5629.6	5350.0	5201.3	5239.9	5396.1	4926.7	3880.2	2251.7	776.0	226.8
65°	5573.4	5844.6	5689.3	5620.4	5561.6	5654.0	5098.8	3951.6	2069.4	660.1	201.6
66°	5678.3	6047.0	5995.8	5921.9	5916.0	5895.0	5132.4	3949.1	1881.3	557.7	176.4
67°	5625.4	6051.2	6144.5	6175.5	6166.3	5944.6	5073.6	3859.2	1640.3	471.2	157.1
67.5°	5577.6	6016.8	6233.5	6215.9	6254.5	5986.6	5083.7	3749.2	1468.9	426.7	147.8
68°	5535.6	5970.6	6269.6	6292.3	6273.0	5991.6	5028.3	3661.8	1352.2	400.6	139.4
69°	5217.3	5751.4	6211.7	6293.1	6243.6	5799.3	4851.9	3434.2	1074.2	341.8	128.5
70°	4898.1	5467.5	5930.3	6079.8	6018.5	5427.2	4629.4	3072.2	886.1	292.3	115.9
71°	4456.3	4940.1	5555.7	5645.6	5571.7	5003.9	4169.1	2690.1	689.5	247.8	103.3
72°	3856.7	4267.4	4855.3	5072.8	4963.6	4395.0	3703.8	2223.1	558.5	208.3	94.1
72.5°	3559.4	3980.1	4547.0	4564.7	4585.7	4130.5	3506.4	1952.7	487.1	193.2	91.5
73°	3277.2	3689.5	4180.0	4242.2	4153.1	3684.5	3211.7	1746.1	445.1	176.4	88.2
74°	2655.7	2890.8	3297.3	3357.8	3279.7	3004.2	2624.6	1338.7	354.4	152.0	80.6
75°	2089.6	2218.9	2586.8	2549.8	2433.1	2336.5	2035.0	1023.0	287.2	133.5	74.7



REPORT NUMBER: P676188  
 CATALOG NUMBER: CCW-SA-1D-835-U-T1

**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	939.0	1017.1	1078.4	1078.4	1085.1	1035.6	938.1	469.5	177.2	96.6	61.3
80°	357.8	400.6	414.1	414.9	420.8	435.9	405.7	231.0	105.0	68.9	49.6
82.5°	259.5	362.8	390.5	370.4	372.1	335.9	155.4	102.5	66.3	47.9	36.1
85°	235.2	315.8	334.3	331.7	332.6	310.8	91.5	50.4	38.6	30.2	25.2
87.5°	114.2	111.7	118.4	133.5	130.2	168.8	77.3	25.2	16.8	12.6	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



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**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	715.6	715.6	715.6	715.6	715.6	715.6
2.5°	711.4	710.5	722.3	710.5	717.2	712.2
5°	719.8	723.1	725.6	730.7	718.9	730.7
7.5°	745.0	748.3	749.2	753.4	748.3	747.5
10°	764.3	772.7	777.7	760.9	771.0	770.2
12.5°	802.1	793.7	792.8	789.5	780.2	776.9
15°	828.9	816.4	808.8	795.4	784.4	780.2
17.5°	866.7	842.4	811.3	783.6	764.3	749.2
20°	890.3	846.6	784.4	751.7	722.3	729.0
22.5°	905.4	842.4	760.1	718.1	688.7	697.1
25°	910.4	821.4	743.3	691.2	662.7	656.8
27.5°	896.1	797.0	710.5	651.7	626.5	631.6
30°	889.4	761.8	680.3	622.3	588.7	593.8
32.5°	871.8	725.6	640.0	581.2	556.8	548.4
35°	846.6	695.4	601.3	545.9	516.5	509.8
37.5°	815.5	657.6	567.8	500.6	474.5	469.5
40°	769.3	612.3	519.0	461.1	430.9	430.0
42.5°	729.0	568.6	473.7	414.1	383.8	385.5
45°	677.8	509.8	421.6	370.4	340.1	341.8
47.5°	612.3	455.2	372.1	315.0	289.8	288.1
50°	535.0	393.1	311.6	262.9	241.9	237.7
52.5°	461.1	330.1	255.3	211.6	194.0	192.3
55°	367.9	257.0	199.0	166.3	152.9	153.7
56°	334.3	236.8	181.4	152.0	141.9	141.9
57°	302.4	210.0	164.6	140.3	131.0	131.0
58°	267.1	184.8	149.5	126.8	122.6	119.3
59°	242.7	168.0	135.2	120.1	113.4	112.5
60°	214.2	151.2	126.0	112.5	107.5	106.7
61°	189.8	136.1	115.9	105.0	103.3	103.3
62°	169.7	126.0	107.5	101.6	100.8	98.3
63°	152.0	115.9	103.3	96.6	94.1	96.6
64°	136.1	106.7	99.9	94.9	91.5	93.2
65°	123.5	102.5	95.7	92.4	89.0	89.9
66°	115.1	95.7	92.4	88.2	86.5	87.3
67°	104.1	92.4	89.0	84.8	84.0	84.8
67.5°	100.8	89.9	87.3	83.1	82.3	83.1
68°	98.3	88.2	86.5	82.3	81.5	80.6
69°	91.5	84.8	82.3	80.6	78.9	78.1
70°	85.7	81.5	79.8	77.3	75.6	74.7
71°	82.3	77.3	76.4	73.9	72.2	71.4
72°	78.1	74.7	73.1	69.7	68.9	69.7
72.5°	77.3	73.1	72.2	68.9	68.0	68.0
73°	74.7	69.7	70.5	67.2	65.5	67.2
74°	69.7	68.0	66.3	63.8	63.0	63.0
75°	65.5	63.8	62.2	60.5	60.5	60.5



REPORT NUMBER: P676188  
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**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
77.5°	55.4	54.6	55.4	52.1	51.2	50.4
80°	44.5	44.5	45.4	42.8	41.2	40.3
82.5°	33.6	34.4	36.1	33.6	31.9	30.2
85°	21.8	22.7	22.7	20.2	23.5	21.8
87.5°	10.9	11.8	10.9	10.1	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)