

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: P676189

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676189
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-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T1 distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

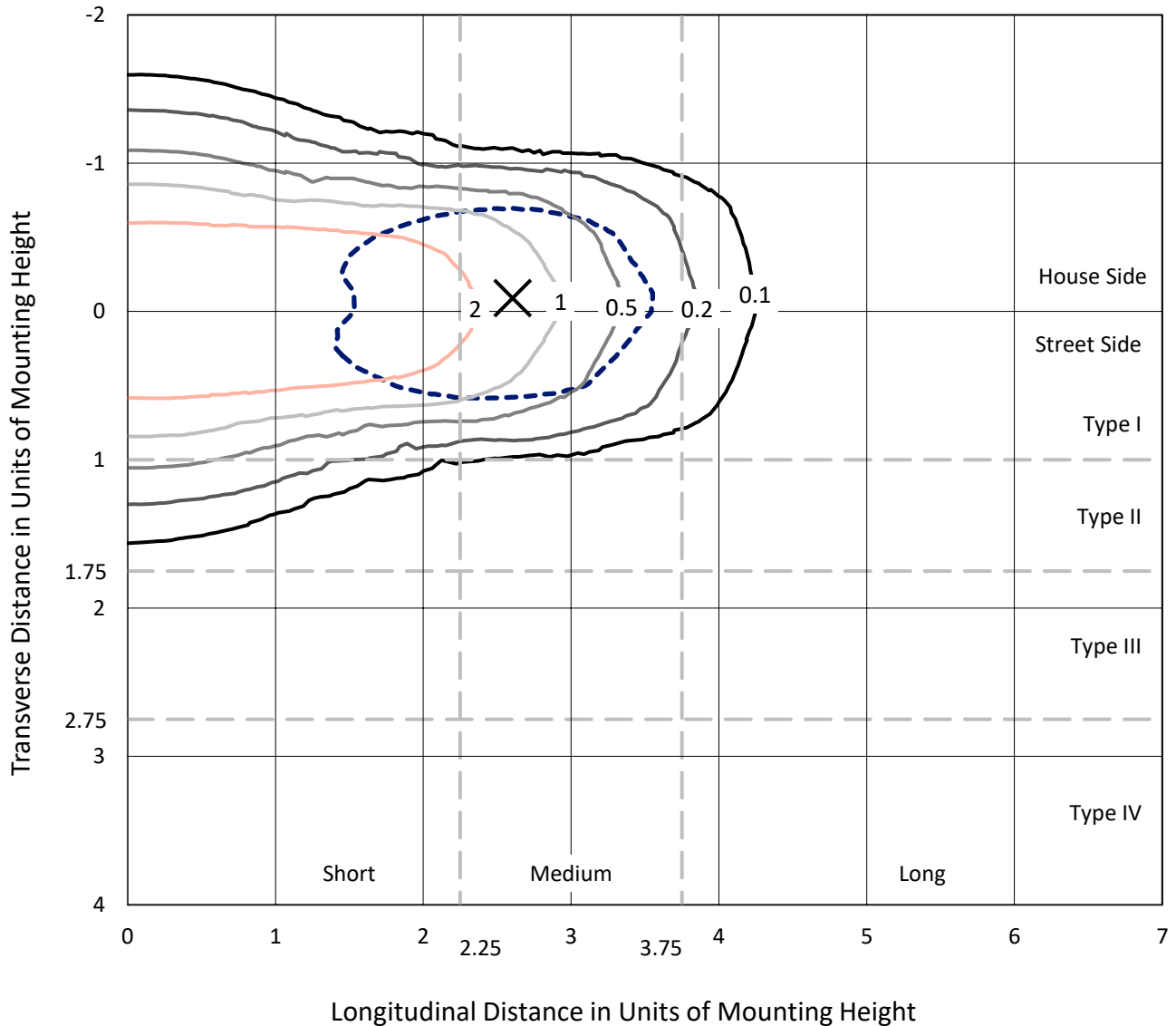
Lumens per Lamp: N/A
Luminaire Lumens: 5486 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (A_{in}): 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: P676189
 CATALOG NUMBER: CCW-SA-1E-835-U-T1

Iso-Footcandle Lines of Horizontal Illumination

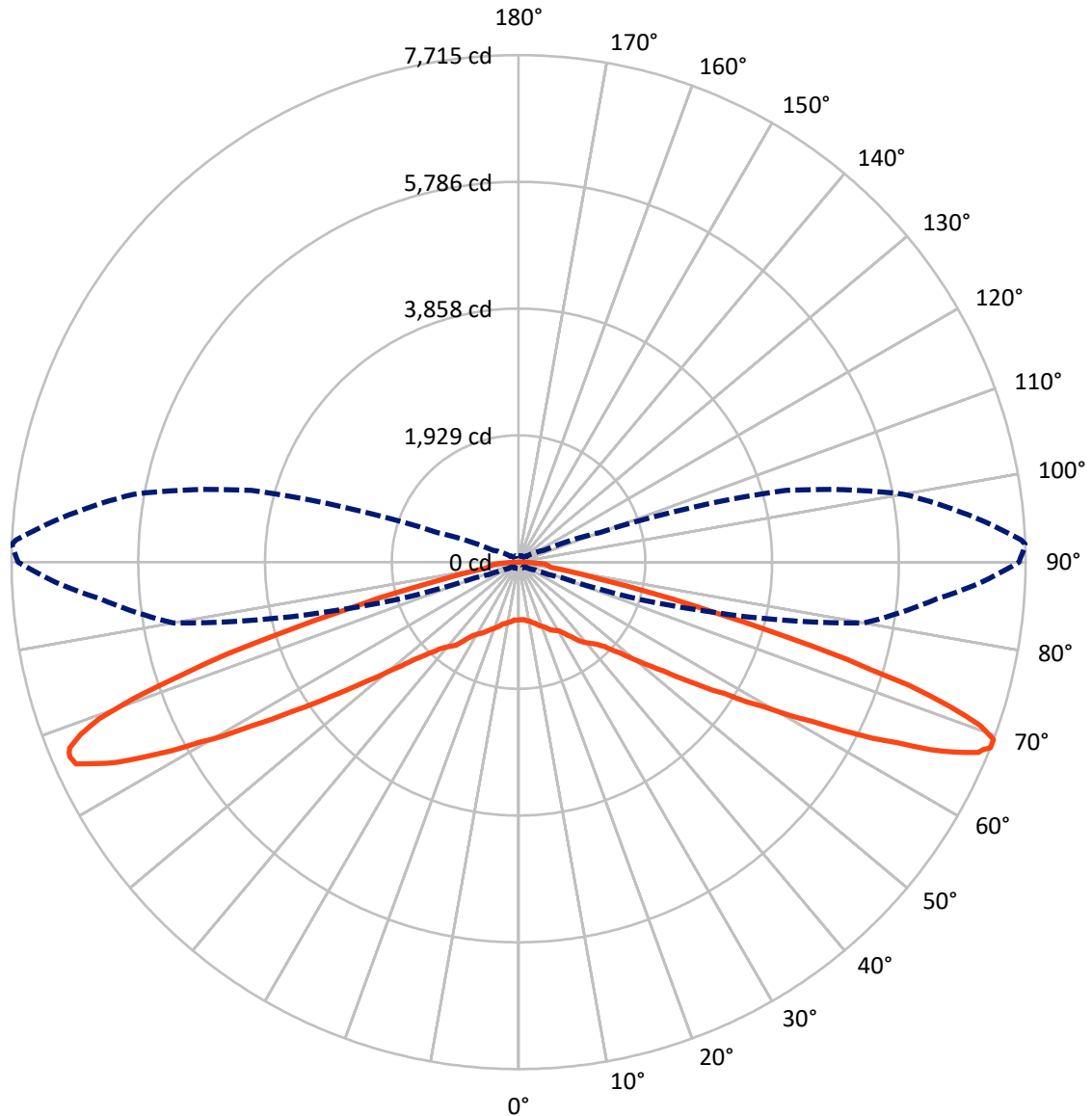
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
 Type I - Short - N/A

REPORT NUMBER: P676189
CATALOG NUMBER: CCW-SA-1E-835-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676189
 CATALOG NUMBER: CCW-SA-1E-835-U-T1

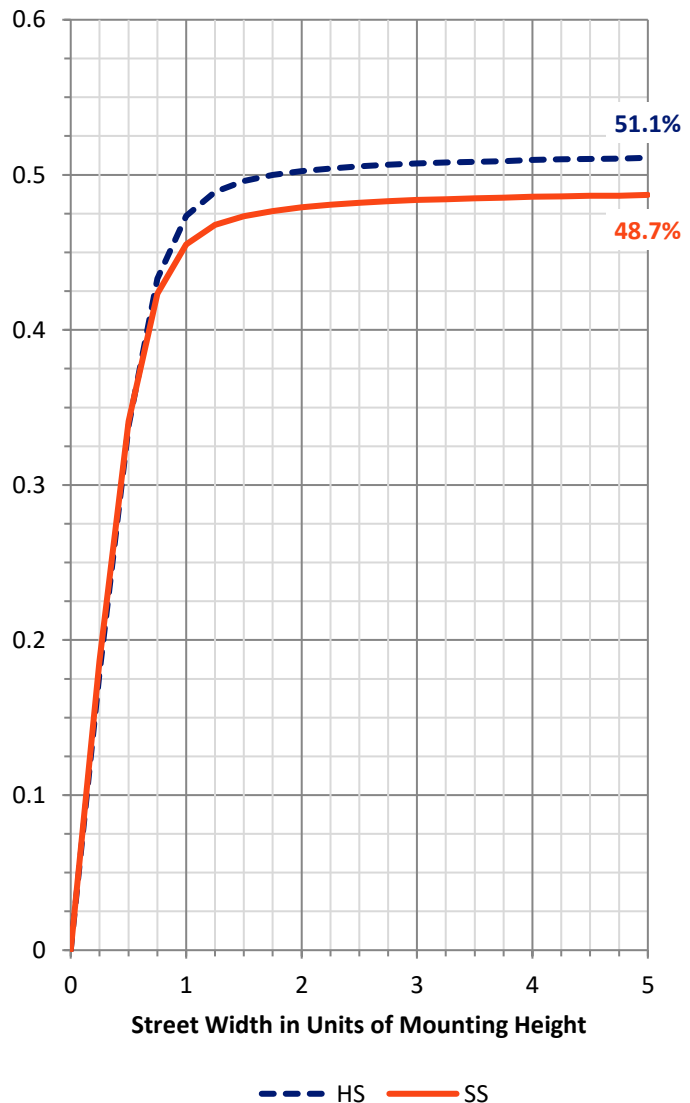
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2825.2	0.0	2825.2
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2660.8	0.0	2660.8
	% Fixture	48.5	0.0	48.5
Total	Lumens	5486.0	0.0	5486.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	1.6
10°-20°	284.6	5.2
20°-30°	485.7	8.9
30°-40°	678.1	12.4
40°-50°	862.6	15.7
50°-60°	1090.7	19.9
60°-70°	1345.1	24.5
70°-80°	587.6	10.7
80°-90°	63.7	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°	5486.0	100.0
0°-180°	5486.0	100.0



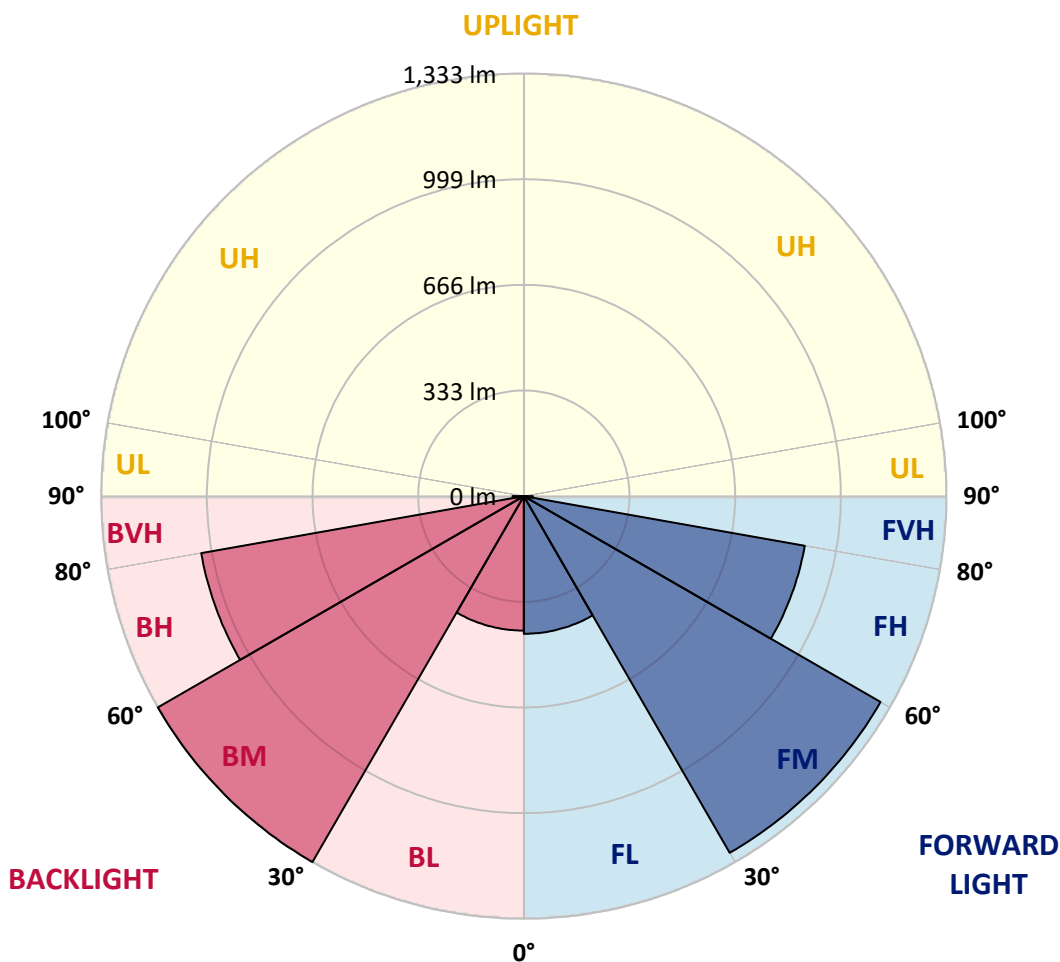
REPORT NUMBER: P676189
 CATALOG NUMBER: CCW-SA-1E-835-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.2	7.9			
FM (30°-60°)	1298.8	23.7			
FH (60°-80°)	899.6	16.4			G1/1800
FVH (80°-90°)	28.3	0.5			G1/100
BL (0°-30°)	424.0	7.7	B1/500		
BM (30°-60°)	1332.7	24.3	B2/2500		
BH (60°-80°)	1033.1	18.8	B3/2500		G3/2500
BVH (80°-90°)	35.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





REPORT NUMBER: P676189

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3
2.5°	895.8	894.8	897.8	899.9	890.6	893.7	891.7	889.6	882.4	879.3	873.1
5°	920.5	923.6	933.9	924.6	928.7	923.6	907.1	912.3	903.0	900.9	894.8
7.5°	963.7	957.6	972.0	961.7	964.8	954.5	947.3	938.0	935.9	921.5	922.6
10°	973.0	985.4	991.5	989.5	991.5	996.7	983.3	968.9	949.3	945.2	930.8
12.5°	966.8	978.2	994.6	1008.0	1017.3	1019.3	1014.2	1011.1	1002.9	979.2	978.2
15°	960.7	952.4	962.7	1009.0	1039.9	1060.5	1067.7	1050.2	1052.3	1021.4	1009.0
17.5°	919.5	907.1	947.3	992.6	1030.7	1076.0	1111.0	1105.8	1105.8	1081.1	1063.6
20°	864.9	885.5	906.1	963.7	1033.8	1101.7	1168.6	1165.6	1153.2	1146.0	1107.9
22.5°	818.6	827.8	865.9	926.7	1014.2	1108.9	1188.2	1244.8	1216.0	1187.2	1164.5
25°	786.6	778.4	826.8	889.6	995.7	1096.6	1225.3	1284.0	1299.4	1277.8	1234.5
27.5°	741.3	741.3	779.4	839.2	935.9	1090.4	1261.3	1350.9	1373.5	1341.6	1278.8
30°	689.9	696.0	729.0	796.9	891.7	1045.1	1275.7	1428.1	1446.6	1418.8	1354.0
32.5°	649.7	649.7	686.8	758.8	860.8	1024.5	1266.5	1504.3	1539.3	1518.7	1451.8
35°	606.5	603.4	630.1	709.4	811.4	984.3	1263.4	1565.1	1643.3	1644.3	1574.3
37.5°	544.7	557.0	591.0	653.8	772.2	945.2	1254.1	1638.2	1778.2	1801.9	1753.5
40°	503.5	508.6	539.5	608.5	711.5	898.9	1240.7	1697.9	1867.8	1949.1	1882.2
42.5°	443.8	451.0	474.7	560.1	652.8	833.0	1182.0	1740.1	1995.4	2088.1	2031.5
45°	381.0	385.1	420.1	490.1	590.0	754.7	1119.2	1808.1	2119.0	2308.5	2275.5
47.5°	305.8	307.9	337.7	410.8	514.8	676.5	1022.4	1805.0	2218.9	2528.8	2621.5
50°	238.9	244.0	266.7	326.4	424.2	580.7	910.2	1780.3	2344.5	2780.0	2962.3
52.5°	190.5	191.5	205.9	253.3	327.4	485.0	789.7	1702.0	2462.9	3026.1	3380.3
55°	157.5	157.5	165.8	194.6	251.2	368.6	648.7	1572.3	2477.3	3297.9	3836.4
56°	151.4	149.3	156.5	181.2	226.5	332.6	582.8	1484.7	2497.9	3423.6	4065.0
57°	143.1	144.1	148.3	165.8	203.9	294.5	509.7	1399.3	2483.5	3526.5	4233.9
58°	139.0	136.9	145.2	156.5	180.2	261.5	459.2	1298.4	2460.8	3611.0	4480.0
59°	132.8	131.8	136.9	147.2	167.8	232.7	397.4	1189.2	2416.6	3720.1	4663.2
60°	130.8	129.7	131.8	140.0	154.4	203.9	350.1	1061.6	2298.2	3832.3	4890.8
61°	124.6	125.6	129.7	134.9	146.2	183.3	315.1	930.8	2220.9	3927.1	5142.0
62°	125.6	123.6	125.6	129.7	138.0	168.9	275.9	802.1	2083.0	4034.1	5330.5
63°	119.4	118.4	121.5	126.6	130.8	152.4	240.9	692.9	1926.5	4058.8	5490.1
64°	117.4	116.3	117.4	124.6	125.6	143.1	213.1	592.0	1699.9	4101.1	5694.9
65°	112.2	112.2	114.3	117.4	121.5	134.9	190.5	513.8	1474.4	3989.9	5757.8
66°	108.1	109.1	109.1	114.3	117.4	125.6	175.0	436.6	1258.2	3812.8	5818.5
67°	105.0	105.0	106.1	110.2	113.3	118.4	157.5	377.9	1061.6	3601.7	5724.8
67.5°	103.0	104.0	104.0	108.1	111.2	118.4	150.3	358.3	949.3	3370.0	5654.8
68°	99.9	100.9	100.9	105.0	108.1	114.3	145.2	327.4	875.2	3219.7	5525.1
69°	97.8	96.8	96.8	100.9	105.0	109.1	134.9	286.2	696.0	2799.6	5335.6
70°	91.6	91.6	93.7	96.8	99.9	104.0	124.6	252.3	589.0	2317.7	4847.6
71°	88.5	87.5	88.5	91.6	94.7	99.9	114.3	223.4	481.9	1924.4	4367.7
72°	82.4	84.4	84.4	87.5	90.6	93.7	107.1	194.6	404.6	1538.3	3839.5
72.5°	81.3	81.3	82.4	85.5	87.5	92.7	103.0	186.4	369.6	1356.0	3618.2
73°	78.3	78.3	79.3	82.4	84.4	89.6	99.9	167.8	336.7	1206.7	3204.2
74°	75.2	74.1	74.1	78.3	79.3	84.4	93.7	148.3	282.1	909.2	2572.0
75°	70.0	70.0	71.0	73.1	74.1	78.3	86.5	131.8	237.8	705.3	2011.9



REPORT NUMBER: P676189
CATALOG NUMBER: CCW-SA-1E-835-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	57.7	58.7	59.7	61.8	61.8	64.9	71.0	91.6	145.2	357.3	923.6
80°	42.2	44.3	47.4	50.5	49.4	49.4	55.6	65.9	86.5	160.6	354.2
82.5°	34.0	36.0	32.9	37.1	37.1	35.0	40.2	48.4	58.7	79.3	126.6
85°	22.7	23.7	19.6	22.7	21.6	21.6	26.8	28.8	36.0	44.3	62.8
87.5°	10.3	10.3	8.2	9.3	9.3	9.3	13.4	10.3	15.4	21.6	37.1
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: P676189

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

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3
2.5°	879.3	883.4	883.4	879.3	876.2	879.3	877.3	872.1	877.3	879.3	880.3
5°	891.7	883.4	887.6	878.3	884.5	883.4	881.4	886.5	887.6	887.6	894.8
7.5°	905.1	915.4	902.0	903.0	906.1	893.7	897.8	899.9	895.8	904.0	910.2
10°	928.7	932.9	928.7	913.3	923.6	915.4	912.3	921.5	919.5	921.5	930.8
12.5°	950.4	957.6	946.2	945.2	940.1	932.9	937.0	935.9	950.4	952.4	963.7
15°	994.6	976.1	972.0	971.0	968.9	965.8	967.9	968.9	987.4	990.5	1017.3
17.5°	1032.7	1029.6	1007.0	1015.2	1015.2	1002.9	997.7	1015.2	1029.6	1045.1	1063.6
20°	1071.9	1068.8	1044.1	1045.1	1035.8	1047.1	1041.0	1057.4	1082.2	1087.3	1103.8
22.5°	1118.2	1104.8	1087.3	1089.4	1092.4	1084.2	1080.1	1102.7	1127.5	1141.9	1142.9
25°	1191.3	1157.3	1142.9	1145.0	1140.8	1134.7	1137.8	1166.6	1178.9	1209.8	1203.7
27.5°	1230.4	1210.9	1200.6	1176.9	1177.9	1168.6	1181.0	1224.2	1249.0	1272.6	1225.3
30°	1277.8	1265.4	1220.1	1211.9	1210.9	1206.7	1229.4	1285.0	1322.1	1335.4	1267.5
32.5°	1370.5	1321.0	1309.7	1302.5	1286.0	1291.2	1302.5	1375.6	1434.3	1431.2	1306.6
35°	1476.5	1442.5	1410.6	1404.4	1402.4	1388.0	1407.5	1493.0	1538.3	1524.9	1321.0
37.5°	1646.4	1594.9	1551.7	1528.0	1523.9	1513.6	1559.9	1627.9	1686.6	1634.0	1332.4
40°	1729.8	1672.1	1632.0	1617.6	1620.7	1635.1	1680.4	1784.4	1810.1	1713.3	1341.6
42.5°	1849.2	1786.4	1707.1	1699.9	1690.7	1697.9	1785.4	1925.4	1947.1	1820.4	1306.6
45°	2061.3	1966.6	1875.0	1833.8	1835.9	1855.4	1991.3	2144.7	2104.6	1894.5	1251.0
47.5°	2329.0	2190.0	2115.9	2060.3	2087.1	2065.5	2281.7	2404.2	2267.3	1988.2	1183.1
50°	2731.6	2537.0	2436.1	2369.2	2380.5	2399.1	2618.4	2722.4	2447.5	2033.5	1079.1
52.5°	3239.3	2989.1	2840.8	2751.2	2759.4	2799.6	3082.7	3050.8	2653.4	2071.6	940.1
55°	3846.7	3589.3	3302.1	3265.0	3255.7	3351.5	3663.5	3394.7	2838.7	2010.9	795.9
56°	4168.0	3894.1	3595.5	3519.3	3496.7	3563.6	3930.1	3566.7	2902.6	1942.9	726.9
57°	4440.8	4179.3	3851.9	3722.2	3751.0	3876.6	4194.8	3728.3	2961.2	1872.9	662.1
58°	4815.6	4517.0	4171.1	4072.2	4046.5	4146.4	4480.0	3891.0	2980.8	1800.8	602.3
59°	5189.4	4831.1	4519.1	4338.9	4346.1	4528.4	4761.1	4084.6	3010.7	1709.2	526.1
60°	5473.6	5293.4	4876.4	4741.5	4723.0	4986.6	5041.1	4214.3	3042.6	1585.6	472.6
61°	5876.2	5641.4	5253.2	5079.2	5129.7	5340.8	5343.8	4377.0	2995.2	1429.1	406.7
62°	6165.5	6103.7	5696.0	5530.2	5514.8	5794.8	5658.9	4520.1	2954.0	1280.9	359.3
63°	6504.2	6504.2	6132.5	6002.8	6010.0	6231.4	5795.9	4663.2	2906.7	1117.2	316.1
64°	6680.3	6901.7	6558.8	6376.6	6423.9	6615.4	6039.9	4756.9	2760.5	951.4	278.0
65°	6832.7	7165.3	6974.8	6890.4	6818.3	6931.5	6251.0	4844.5	2537.0	809.3	247.1
66°	6961.4	7413.4	7350.6	7260.0	7252.8	7227.1	6292.1	4841.4	2306.4	683.7	216.2
67°	6896.5	7418.6	7532.9	7571.0	7559.6	7287.8	6220.1	4731.2	2010.9	577.6	192.5
67.5°	6837.9	7376.4	7642.0	7620.4	7667.7	7339.3	6232.4	4596.3	1800.8	523.1	181.2
68°	6786.4	7319.7	7686.3	7714.1	7690.4	7345.5	6164.5	4489.2	1657.7	491.1	170.9
69°	6396.1	7051.0	7615.2	7715.1	7654.4	7109.7	5948.2	4210.2	1316.9	419.1	157.5
70°	6004.9	6703.0	7270.3	7453.6	7378.4	6653.5	5675.4	3766.4	1086.3	358.3	142.1
71°	5463.3	6056.4	6811.1	6921.3	6830.6	6134.6	5111.1	3297.9	845.3	303.7	126.6
72°	4728.1	5231.6	5952.4	6219.0	6085.2	5388.1	4540.7	2725.5	684.7	255.4	115.3
72.5°	4363.6	4879.5	5574.5	5596.1	5621.8	5063.8	4298.8	2393.9	597.2	236.8	112.2
73°	4017.7	4523.2	5124.5	5200.7	5091.6	4517.0	3937.4	2140.6	545.7	216.2	108.1
74°	3255.7	3544.0	4042.4	4116.5	4020.8	3683.0	3217.6	1641.2	434.5	186.4	98.8
75°	2561.7	2720.3	3171.3	3126.0	2982.9	2864.5	2494.8	1254.1	352.1	163.7	91.6



REPORT NUMBER: P676189
 CATALOG NUMBER: CCW-SA-1E-835-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1151.1	1246.9	1322.1	1322.1	1330.3	1269.5	1150.1	575.6	217.3	118.4	75.2
80°	438.6	491.1	507.6	508.6	515.9	534.4	497.3	283.2	128.7	84.4	60.7
82.5°	318.2	444.8	478.8	454.1	456.1	411.9	190.5	125.6	81.3	58.7	44.3
85°	288.3	387.1	409.8	406.7	407.7	381.0	112.2	61.8	47.4	37.1	30.9
87.5°	140.0	136.9	145.2	163.7	159.6	207.0	94.7	30.9	20.6	15.4	15.4
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: P676189

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

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	877.3	877.3	877.3	877.3	877.3	877.3
2.5°	872.1	871.1	885.5	871.1	879.3	873.1
5°	882.4	886.5	889.6	895.8	881.4	895.8
7.5°	913.3	917.4	918.4	923.6	917.4	916.4
10°	937.0	947.3	953.4	932.9	945.2	944.2
12.5°	983.3	973.0	972.0	967.9	956.5	952.4
15°	1016.3	1000.8	991.5	975.1	961.7	956.5
17.5°	1062.6	1032.7	994.6	960.7	937.0	918.4
20°	1091.4	1037.9	961.7	921.5	885.5	893.7
22.5°	1110.0	1032.7	931.8	880.3	844.3	854.6
25°	1116.1	1007.0	911.2	847.4	812.4	805.2
27.5°	1098.6	977.1	871.1	799.0	768.1	774.3
30°	1090.4	933.9	834.0	763.0	721.8	728.0
32.5°	1068.8	889.6	784.6	712.5	682.7	672.4
35°	1037.9	852.5	737.2	669.3	633.2	625.0
37.5°	999.8	806.2	696.0	613.7	581.7	575.6
40°	943.2	750.6	636.3	565.3	528.2	527.2
42.5°	893.7	697.1	580.7	507.6	470.5	472.6
45°	830.9	625.0	516.9	454.1	417.0	419.1
47.5°	750.6	558.1	456.1	386.1	355.2	353.2
50°	655.9	481.9	382.0	322.3	296.5	291.4
52.5°	565.3	404.6	313.0	259.5	237.8	235.8
55°	451.0	315.1	244.0	203.9	187.4	188.4
56°	409.8	290.4	222.4	186.4	174.0	174.0
57°	370.7	257.4	201.8	172.0	160.6	160.6
58°	327.4	226.5	183.3	155.5	150.3	146.2
59°	297.6	205.9	165.8	147.2	139.0	138.0
60°	262.6	185.3	154.4	138.0	131.8	130.8
61°	232.7	166.8	142.1	128.7	126.6	126.6
62°	208.0	154.4	131.8	124.6	123.6	120.5
63°	186.4	142.1	126.6	118.4	115.3	118.4
64°	166.8	130.8	122.5	116.3	112.2	114.3
65°	151.4	125.6	117.4	113.3	109.1	110.2
66°	141.1	117.4	113.3	108.1	106.1	107.1
67°	127.7	113.3	109.1	104.0	103.0	104.0
67.5°	123.6	110.2	107.1	101.9	100.9	101.9
68°	120.5	108.1	106.1	100.9	99.9	98.8
69°	112.2	104.0	100.9	98.8	96.8	95.8
70°	105.0	99.9	97.8	94.7	92.7	91.6
71°	100.9	94.7	93.7	90.6	88.5	87.5
72°	95.8	91.6	89.6	85.5	84.4	85.5
72.5°	94.7	89.6	88.5	84.4	83.4	83.4
73°	91.6	85.5	86.5	82.4	80.3	82.4
74°	85.5	83.4	81.3	78.3	77.2	77.2
75°	80.3	78.3	76.2	74.1	74.1	74.1



REPORT NUMBER: P676189
CATALOG NUMBER: CCW-SA-1E-835-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	68.0	66.9	68.0	63.8	62.8	61.8
80°	54.6	54.6	55.6	52.5	50.5	49.4
82.5°	41.2	42.2	44.3	41.2	39.1	37.1
85°	26.8	27.8	27.8	24.7	28.8	26.8
87.5°	13.4	14.4	13.4	12.4	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)