

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: P676191

Luminaire Tested: **CCW-SA-2A-835-U-T1**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P676191
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-835-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T1 distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

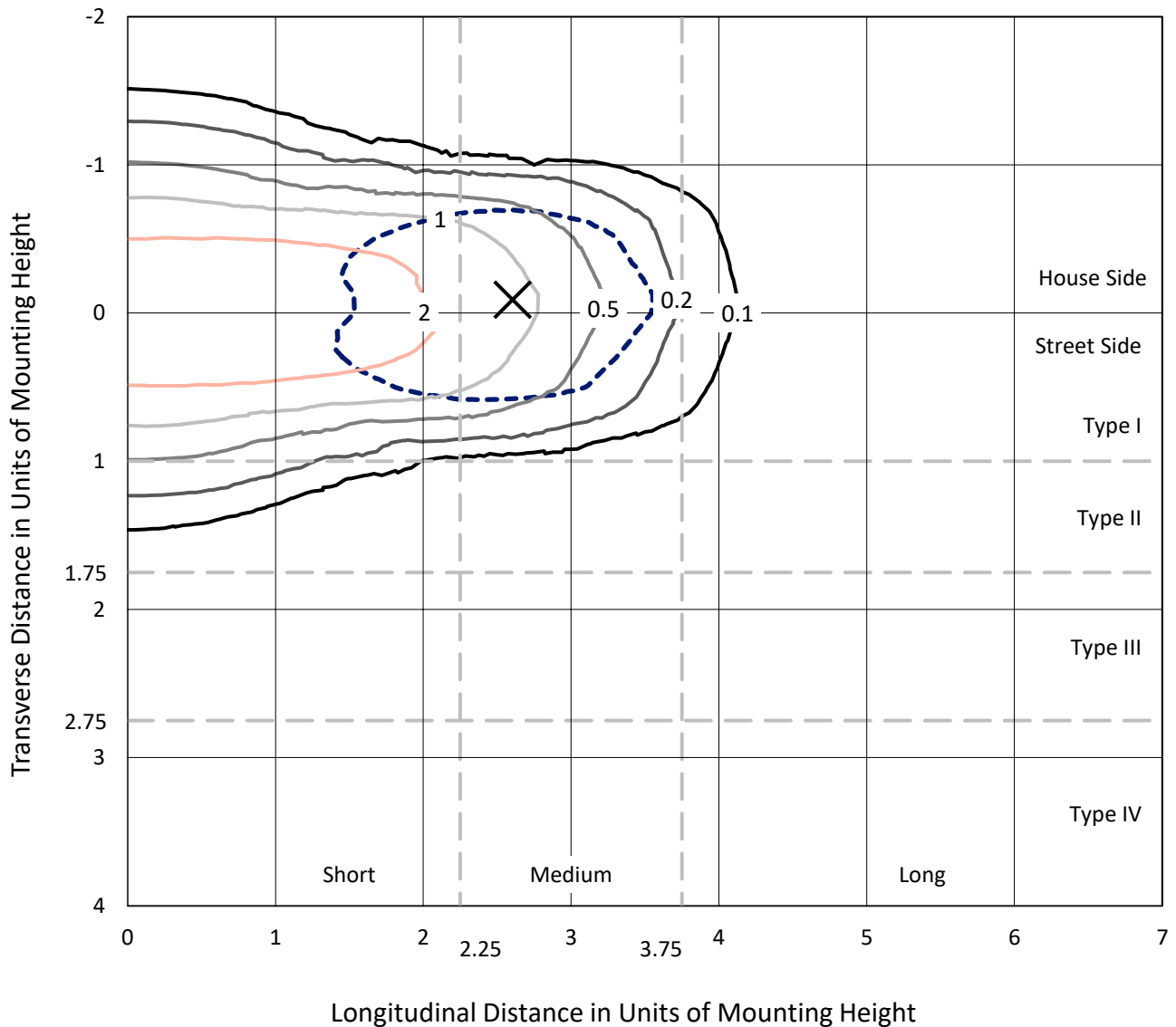
Lumens per Lamp: N/A
Luminaire Lumens: 4390.4 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 36.2
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: P676191
 CATALOG NUMBER: CCW-SA-2A-835-U-T1

Iso-Footcandle Lines of Horizontal Illumination

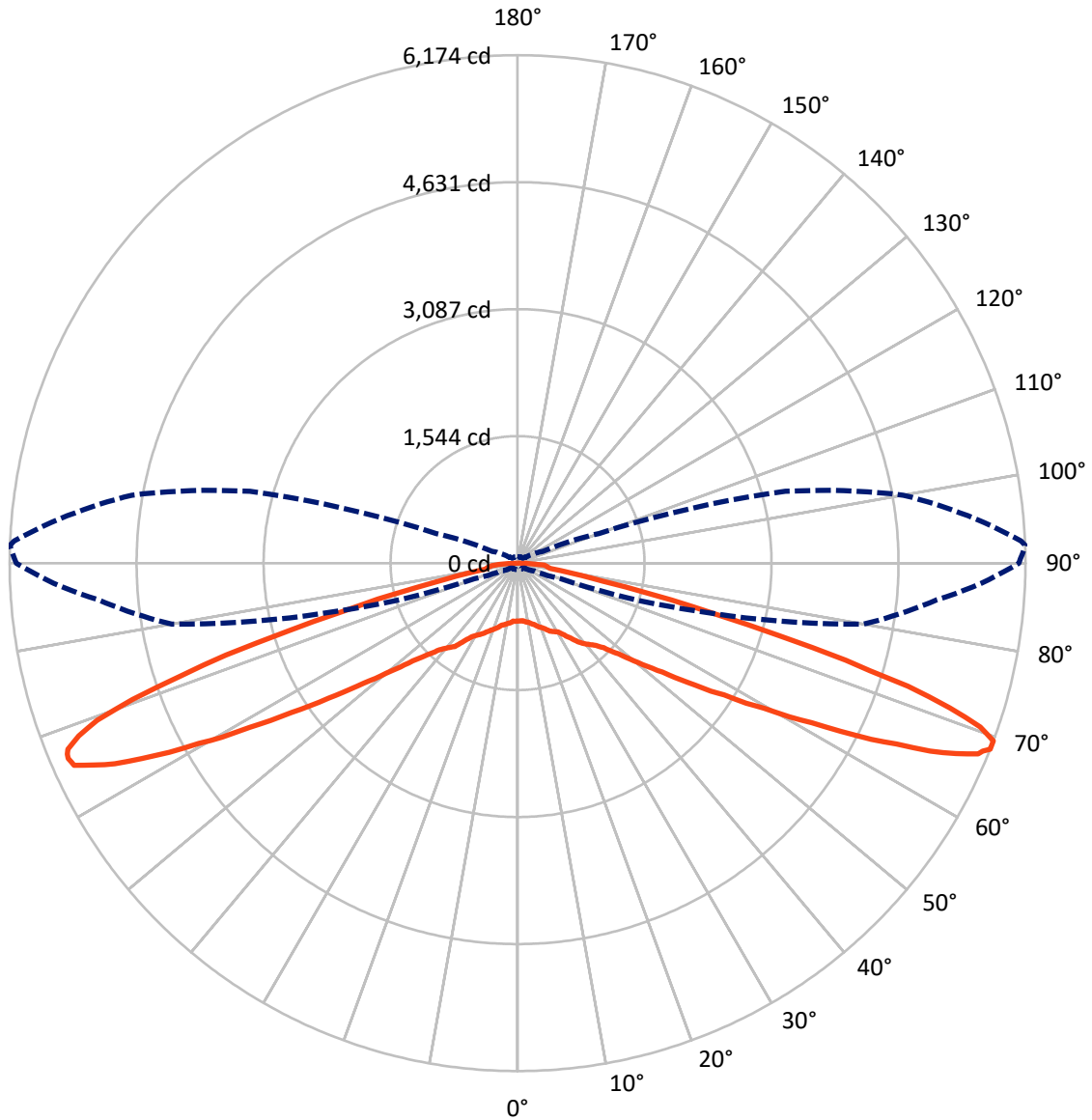
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P676191
CATALOG NUMBER: CCW-SA-2A-835-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676191
 CATALOG NUMBER: CCW-SA-2A-835-U-T1

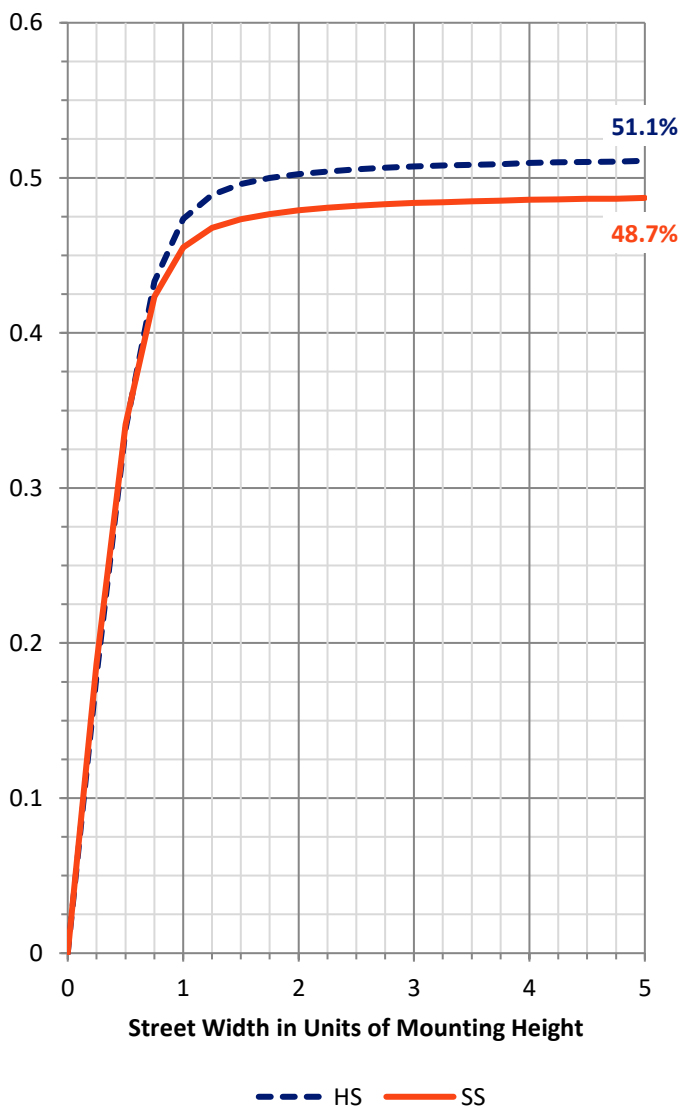
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2261.0	0.0	2261.0
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2129.4	0.0	2129.4
	% Fixture	48.5	0.0	48.5
Total	Lumens	4390.4	0.0	4390.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	1.6
10°-20°	227.8	5.2
20°-30°	388.7	8.9
30°-40°	542.7	12.4
40°-50°	690.3	15.7
50°-60°	872.9	19.9
60°-70°	1076.5	24.5
70°-80°	470.2	10.7
80°-90°	51.0	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°	4390.4	100.0
0°-180°	4390.4	100.0



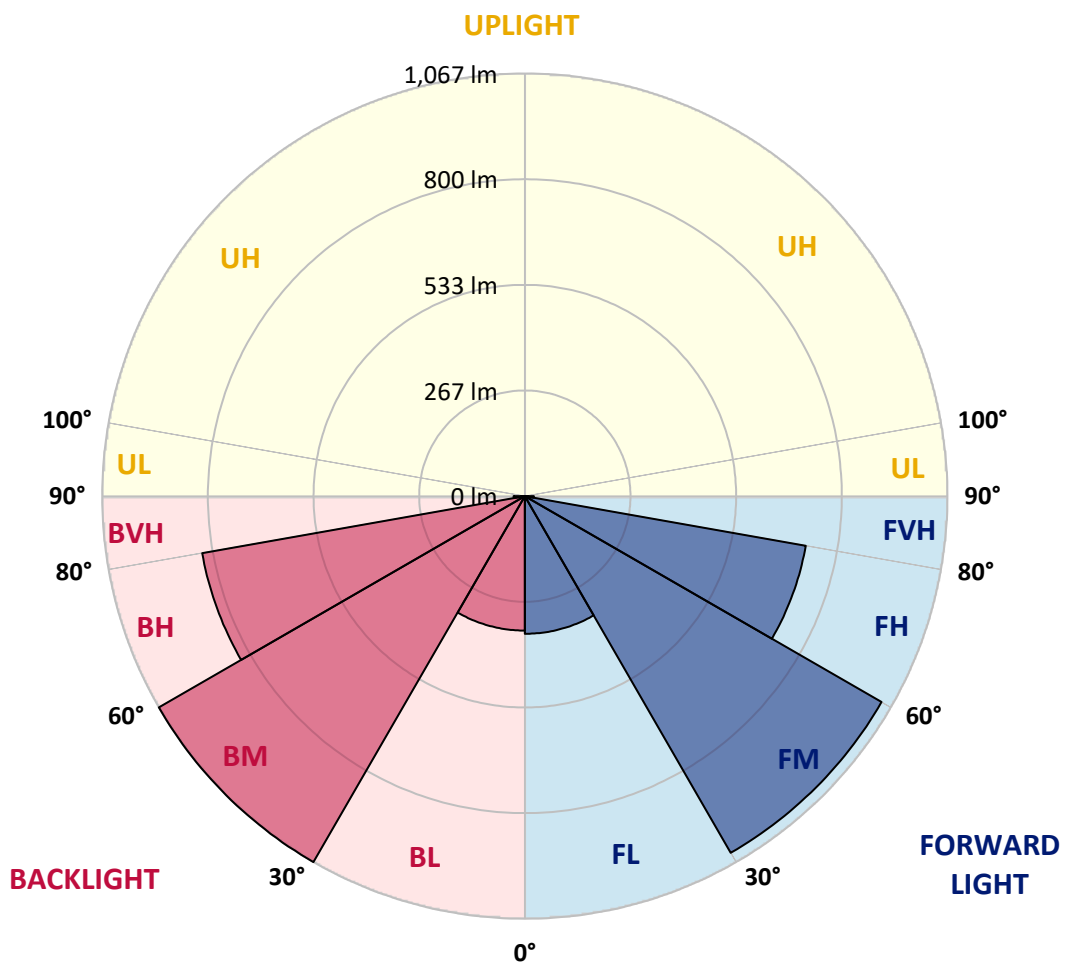
REPORT NUMBER: P676191
 CATALOG NUMBER: CCW-SA-2A-835-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.5	7.9			
FM (30°-60°)	1039.4	23.7			
FH (60°-80°)	719.9	16.4			G1/1800
FVH (80°-90°)	22.6	0.5			G1/100
BL (0°-30°)	339.3	7.7	B1/500		
BM (30°-60°)	1066.5	24.3	B2/2500		
BH (60°-80°)	826.8	18.8	B2/1000		G2/1000
BVH (80°-90°)	28.4	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: P676191

CATALOG NUMBER: CCW-SA-2A-835-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1
2.5°	716.9	716.1	718.5	720.2	712.8	715.2	713.6	711.9	706.2	703.7	698.8
5°	736.7	739.1	747.4	740.0	743.3	739.1	726.0	730.1	722.7	721.0	716.1
7.5°	771.3	766.3	777.9	769.6	772.1	763.9	758.1	750.7	749.0	737.5	738.3
10°	778.7	788.6	793.5	791.9	793.5	797.6	786.9	775.4	759.7	756.4	744.9
12.5°	773.8	782.8	796.0	806.7	814.1	815.8	811.7	809.2	802.6	783.6	782.8
15°	768.8	762.2	770.5	807.5	832.3	848.7	854.5	840.5	842.1	817.4	807.5
17.5°	735.8	726.0	758.1	794.4	824.8	861.1	889.1	885.0	885.0	865.2	851.2
20°	692.2	708.7	725.1	771.3	827.3	881.7	935.3	932.8	922.9	917.1	886.6
22.5°	655.1	662.5	693.0	741.6	811.7	887.5	950.9	996.2	973.2	950.1	932.0
25°	629.5	623.0	661.7	711.9	796.8	877.6	980.6	1027.5	1039.9	1022.6	988.0
27.5°	593.3	593.3	623.8	671.6	749.0	872.6	1009.4	1081.1	1099.2	1073.7	1023.4
30°	552.1	557.0	583.4	637.8	713.6	836.4	1021.0	1142.9	1157.7	1135.5	1083.6
32.5°	520.0	520.0	549.6	607.3	688.9	819.9	1013.5	1203.9	1231.9	1215.4	1161.9
35°	485.3	482.9	504.3	567.7	649.3	787.8	1011.1	1252.5	1315.1	1316.0	1259.9
37.5°	435.9	445.8	473.0	523.2	618.0	756.4	1003.7	1311.0	1423.1	1442.0	1403.3
40°	402.9	407.1	431.8	487.0	569.4	719.4	992.9	1358.8	1494.8	1559.9	1506.3
42.5°	355.2	360.9	379.9	448.3	522.4	666.6	946.0	1392.6	1596.9	1671.1	1625.8
45°	304.9	308.2	336.2	392.2	472.2	604.0	895.7	1447.0	1695.8	1847.4	1821.1
47.5°	244.7	246.4	270.3	328.8	412.0	541.4	818.2	1444.5	1775.8	2023.8	2097.9
50°	191.2	195.3	213.4	261.2	339.5	464.7	728.4	1424.7	1876.3	2224.8	2370.7
52.5°	152.4	153.3	164.8	202.7	262.0	388.1	632.0	1362.1	1971.0	2421.8	2705.2
55°	126.1	126.1	132.7	155.7	201.1	295.0	519.1	1258.3	1982.6	2639.3	3070.3
56°	121.1	119.5	125.3	145.0	181.3	266.2	466.4	1188.2	1999.1	2739.9	3253.2
57°	114.5	115.4	118.7	132.7	163.2	235.7	407.9	1119.8	1987.5	2822.3	3388.4
58°	111.2	109.6	116.2	125.3	144.2	209.3	367.5	1039.1	1969.4	2889.8	3585.3
59°	106.3	105.5	109.6	117.8	134.3	186.2	318.1	951.7	1934.0	2977.2	3732.0
60°	104.6	103.8	105.5	112.1	123.6	163.2	280.2	849.6	1839.2	3067.0	3914.1
61°	99.7	100.5	103.8	107.9	117.0	146.7	252.1	744.9	1777.4	3142.8	4115.1
62°	100.5	98.9	100.5	103.8	110.4	135.1	220.8	641.9	1667.0	3228.5	4265.9
63°	95.6	94.8	97.2	101.4	104.6	122.0	192.8	554.6	1541.7	3248.3	4393.7
64°	93.9	93.1	93.9	99.7	100.5	114.5	170.6	473.8	1360.4	3282.1	4557.6
65°	89.8	89.8	91.5	93.9	97.2	107.9	152.4	411.2	1180.0	3193.1	4607.9
66°	86.5	87.3	87.3	91.5	93.9	100.5	140.1	349.4	1006.9	3051.3	4656.5
67°	84.0	84.0	84.9	88.2	90.6	94.8	126.1	302.4	849.6	2882.4	4581.5
67.5°	82.4	83.2	83.2	86.5	89.0	94.8	120.3	286.8	759.7	2697.0	4525.5
68°	79.9	80.8	80.8	84.0	86.5	91.5	116.2	262.0	700.4	2576.7	4421.7
69°	78.3	77.5	77.5	80.8	84.0	87.3	107.9	229.1	557.0	2240.5	4270.0
70°	73.3	73.3	75.0	77.5	79.9	83.2	99.7	201.9	471.3	1854.9	3879.5
71°	70.9	70.0	70.9	73.3	75.8	79.9	91.5	178.8	385.6	1540.1	3495.5
72°	65.9	67.6	67.6	70.0	72.5	75.0	85.7	155.7	323.8	1231.1	3072.8
72.5°	65.1	65.1	65.9	68.4	70.0	74.2	82.4	149.1	295.8	1085.2	2895.6
73°	62.6	62.6	63.4	65.9	67.6	71.7	79.9	134.3	269.5	965.7	2564.3
74°	60.2	59.3	59.3	62.6	63.4	67.6	75.0	118.7	225.8	727.6	2058.4
75°	56.0	56.0	56.9	58.5	59.3	62.6	69.2	105.5	190.3	564.5	1610.1



REPORT NUMBER: P676191
 CATALOG NUMBER: CCW-SA-2A-835-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	46.1	47.0	47.8	49.4	49.4	51.9	56.9	73.3	116.2	285.9	739.1
80°	33.8	35.4	37.9	40.4	39.6	39.6	44.5	52.7	69.2	128.5	283.5
82.5°	27.2	28.8	26.4	29.7	29.7	28.0	32.1	38.7	47.0	63.4	101.4
85°	18.1	19.0	15.7	18.1	17.3	17.3	21.4	23.1	28.8	35.4	50.3
87.5°	8.2	8.2	6.6	7.4	7.4	7.4	10.7	8.2	12.4	17.3	29.7
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: P676191

CATALOG NUMBER: CCW-SA-2A-835-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1
2.5°	703.7	707.0	707.0	703.7	701.2	703.7	702.1	697.9	702.1	703.7	704.5
5°	713.6	707.0	710.3	702.9	707.8	707.0	705.4	709.5	710.3	710.3	716.1
7.5°	724.3	732.5	721.8	722.7	725.1	715.2	718.5	720.2	716.9	723.5	728.4
10°	743.3	746.6	743.3	730.9	739.1	732.5	730.1	737.5	735.8	737.5	744.9
12.5°	760.6	766.3	757.3	756.4	752.3	746.6	749.9	749.0	760.6	762.2	771.3
15°	796.0	781.2	777.9	777.0	775.4	772.9	774.6	775.4	790.2	792.7	814.1
17.5°	826.5	824.0	805.9	812.5	812.5	802.6	798.5	812.5	824.0	836.4	851.2
20°	857.8	855.3	835.6	836.4	829.0	838.0	833.1	846.3	866.0	870.2	883.3
22.5°	894.9	884.2	870.2	871.8	874.3	867.7	864.4	882.5	902.3	913.8	914.7
25°	953.4	926.2	914.7	916.3	913.0	908.1	910.5	933.6	943.5	968.2	963.3
27.5°	984.7	969.0	960.8	941.8	942.7	935.3	945.1	979.8	999.5	1018.5	980.6
30°	1022.6	1012.7	976.5	969.9	969.0	965.7	983.9	1028.4	1058.0	1068.7	1014.4
32.5°	1096.8	1057.2	1048.1	1042.4	1029.2	1033.3	1042.4	1100.9	1147.9	1145.4	1045.7
35°	1181.6	1154.4	1128.9	1124.0	1122.3	1110.8	1126.4	1194.8	1231.1	1220.4	1057.2
37.5°	1317.6	1276.4	1241.8	1222.8	1219.5	1211.3	1248.4	1302.8	1349.7	1307.7	1066.3
40°	1384.3	1338.2	1306.1	1294.5	1297.0	1308.5	1344.8	1428.0	1448.6	1371.2	1073.7
42.5°	1479.9	1429.7	1366.2	1360.4	1353.0	1358.8	1428.8	1540.9	1558.2	1456.9	1045.7
45°	1649.7	1573.9	1500.5	1467.6	1469.2	1484.9	1593.6	1716.4	1684.3	1516.2	1001.2
47.5°	1863.9	1752.7	1693.4	1648.9	1670.3	1653.0	1826.0	1924.1	1814.5	1591.2	946.8
50°	2186.1	2030.4	1949.6	1896.1	1905.1	1920.0	2095.5	2178.7	1958.7	1627.4	863.6
52.5°	2592.4	2392.1	2273.5	2201.8	2208.4	2240.5	2467.1	2441.6	2123.5	1657.9	752.3
55°	3078.5	2872.5	2642.6	2613.0	2605.5	2682.2	2931.8	2716.8	2271.8	1609.3	637.0
56°	3335.6	3116.4	2877.5	2816.5	2798.4	2851.9	3145.3	2854.4	2322.9	1554.9	581.8
57°	3554.0	3344.7	3082.6	2978.8	3001.9	3102.4	3357.0	2983.8	2369.9	1498.9	529.8
58°	3853.9	3615.0	3338.1	3259.0	3238.4	3318.3	3585.3	3114.0	2385.5	1441.2	482.0
59°	4153.0	3866.3	3616.6	3472.4	3478.2	3624.0	3810.2	3268.9	2409.4	1367.9	421.1
60°	4380.5	4236.3	3902.5	3794.6	3779.8	3990.7	4034.4	3372.7	2435.0	1269.0	378.2
61°	4702.7	4514.8	4204.1	4064.9	4105.2	4274.2	4276.6	3502.9	2397.1	1143.7	325.5
62°	4934.2	4884.8	4558.5	4425.8	4413.4	4637.6	4528.8	3617.4	2364.1	1025.1	287.6
63°	5205.3	5205.3	4907.8	4804.0	4809.8	4986.9	4638.4	3732.0	2326.2	894.1	253.0
64°	5346.2	5523.4	5249.0	5103.1	5141.0	5294.3	4833.7	3807.0	2209.2	761.4	222.5
65°	5468.2	5734.3	5581.9	5514.3	5456.6	5547.3	5002.6	3877.0	2030.4	647.7	197.8
66°	5571.2	5932.9	5882.6	5810.1	5804.4	5783.8	5035.6	3874.5	1845.8	547.1	173.0
67°	5519.3	5937.0	6028.5	6059.0	6049.9	5832.4	4977.9	3786.4	1609.3	462.3	154.1
67.5°	5472.3	5903.2	6115.8	6098.5	6136.4	5873.6	4987.8	3678.4	1441.2	418.6	145.0
68°	5431.1	5857.9	6151.3	6173.5	6154.6	5878.5	4933.4	3592.7	1326.7	393.1	136.8
69°	5118.8	5642.9	6094.4	6174.3	6125.7	5689.8	4760.3	3369.4	1053.9	335.4	126.1
70°	4805.7	5364.3	5818.4	5965.0	5904.9	5324.8	4542.0	3014.2	869.3	286.8	113.7
71°	4372.2	4846.9	5450.9	5539.0	5466.5	4909.5	4090.4	2639.3	676.5	243.1	101.4
72°	3783.9	4186.8	4763.6	4977.1	4869.9	4312.1	3633.9	2181.2	548.0	204.4	92.3
72.5°	3492.2	3905.0	4461.2	4478.5	4499.1	4052.5	3440.3	1915.8	477.9	189.5	89.8
73°	3215.3	3619.9	4101.1	4162.1	4074.8	3615.0	3151.0	1713.1	436.7	173.0	86.5
74°	2605.5	2836.3	3235.1	3294.4	3217.8	2947.5	2575.0	1313.5	347.7	149.1	79.1
75°	2050.2	2177.0	2538.0	2501.7	2387.2	2292.4	1996.6	1003.7	281.8	131.0	73.3



REPORT NUMBER: P676191
 CATALOG NUMBER: CCW-SA-2A-835-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	921.2	997.9	1058.0	1058.0	1064.6	1016.0	920.4	460.6	173.9	94.8	60.2
80°	351.0	393.1	406.2	407.1	412.8	427.7	398.0	226.6	103.0	67.6	48.6
82.5°	254.6	356.0	383.2	363.4	365.0	329.6	152.4	100.5	65.1	47.0	35.4
85°	230.7	309.8	328.0	325.5	326.3	304.9	89.8	49.4	37.9	29.7	24.7
87.5°	112.1	109.6	116.2	131.0	127.7	165.6	75.8	24.7	16.5	12.4	12.4
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: P676191

CATALOG NUMBER: CCW-SA-2A-835-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	702.1	702.1	702.1	702.1	702.1	702.1
2.5°	697.9	697.1	708.7	697.1	703.7	698.8
5°	706.2	709.5	711.9	716.9	705.4	716.9
7.5°	730.9	734.2	735.0	739.1	734.2	733.4
10°	749.9	758.1	763.0	746.6	756.4	755.6
12.5°	786.9	778.7	777.9	774.6	765.5	762.2
15°	813.3	800.9	793.5	780.3	769.6	765.5
17.5°	850.4	826.5	796.0	768.8	749.9	735.0
20°	873.5	830.6	769.6	737.5	708.7	715.2
22.5°	888.3	826.5	745.7	704.5	675.7	683.9
25°	893.2	805.9	729.3	678.2	650.1	644.4
27.5°	879.2	782.0	697.1	639.4	614.7	619.7
30°	872.6	747.4	667.5	610.6	577.6	582.6
32.5°	855.3	711.9	627.9	570.2	546.3	538.1
35°	830.6	682.3	590.0	535.6	506.8	500.2
37.5°	800.1	645.2	557.0	491.1	465.6	460.6
40°	754.8	600.7	509.2	452.4	422.7	421.9
42.5°	715.2	557.9	464.7	406.2	376.6	378.2
45°	665.0	500.2	413.7	363.4	333.7	335.4
47.5°	600.7	446.6	365.0	309.0	284.3	282.6
50°	524.9	385.6	305.7	257.9	237.3	233.2
52.5°	452.4	323.8	250.5	207.7	190.3	188.7
55°	360.9	252.1	195.3	163.2	150.0	150.8
56°	328.0	232.4	178.0	149.1	139.3	139.3
57°	296.6	206.0	161.5	137.6	128.5	128.5
58°	262.0	181.3	146.7	124.4	120.3	117.0
59°	238.1	164.8	132.7	117.8	111.2	110.4
60°	210.1	148.3	123.6	110.4	105.5	104.6
61°	186.2	133.5	113.7	103.0	101.4	101.4
62°	166.5	123.6	105.5	99.7	98.9	96.4
63°	149.1	113.7	101.4	94.8	92.3	94.8
64°	133.5	104.6	98.1	93.1	89.8	91.5
65°	121.1	100.5	93.9	90.6	87.3	88.2
66°	112.9	93.9	90.6	86.5	84.9	85.7
67°	102.2	90.6	87.3	83.2	82.4	83.2
67.5°	98.9	88.2	85.7	81.6	80.8	81.6
68°	96.4	86.5	84.9	80.8	79.9	79.1
69°	89.8	83.2	80.8	79.1	77.5	76.6
70°	84.0	79.9	78.3	75.8	74.2	73.3
71°	80.8	75.8	75.0	72.5	70.9	70.0
72°	76.6	73.3	71.7	68.4	67.6	68.4
72.5°	75.8	71.7	70.9	67.6	66.7	66.7
73°	73.3	68.4	69.2	65.9	64.3	65.9
74°	68.4	66.7	65.1	62.6	61.8	61.8
75°	64.3	62.6	61.0	59.3	59.3	59.3



REPORT NUMBER: P676191
CATALOG NUMBER: CCW-SA-2A-835-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	54.4	53.6	54.4	51.1	50.3	49.4
80°	43.7	43.7	44.5	42.0	40.4	39.6
82.5°	33.0	33.8	35.4	33.0	31.3	29.7
85°	21.4	22.2	22.2	19.8	23.1	21.4
87.5°	10.7	11.5	10.7	9.9	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)