

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: P676108

Luminaire Tested: **CCW-SA-1A-730-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676108
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-730-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T1 distribution lens
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

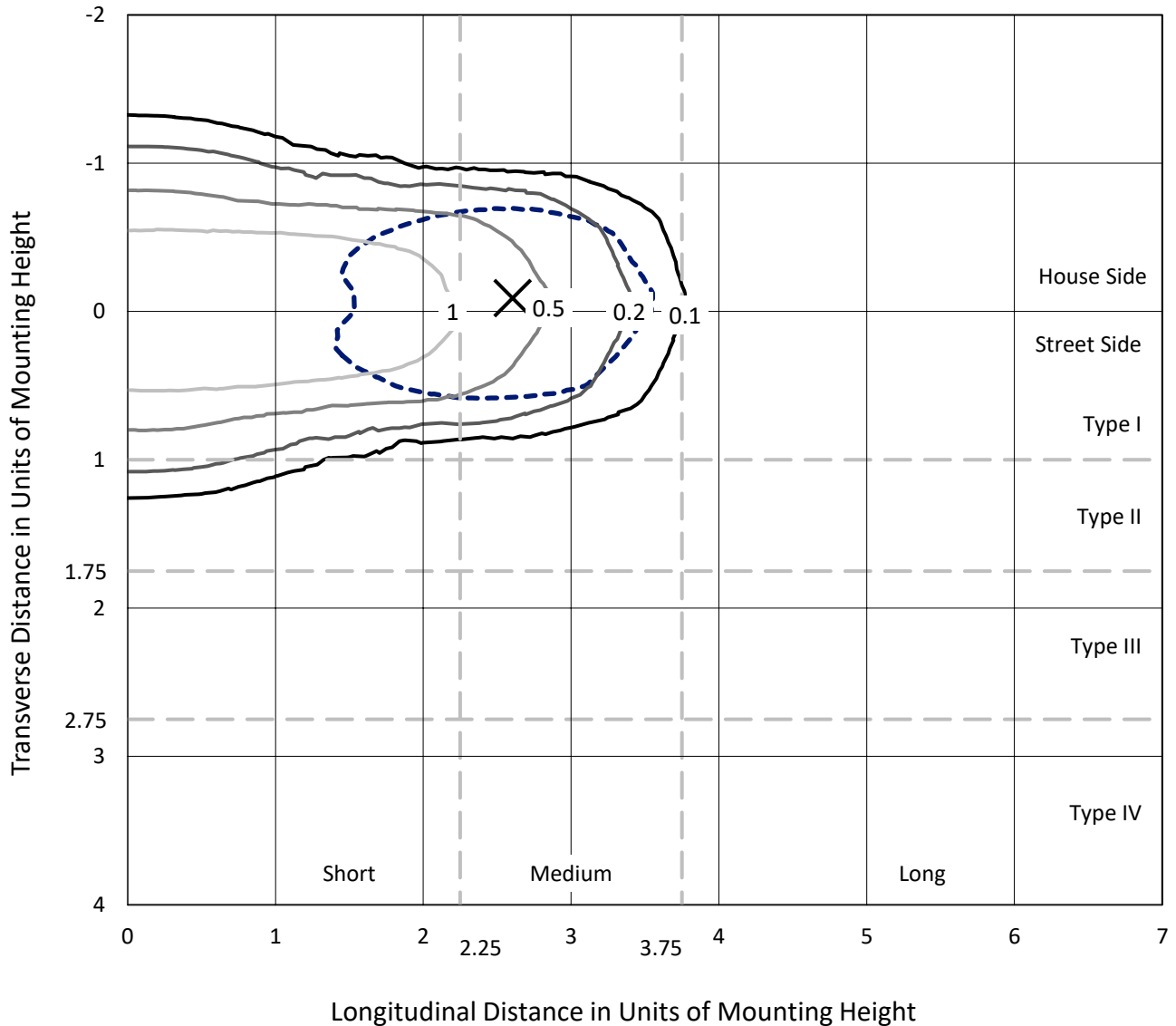
Lumens per Lamp: N/A
Luminaire Lumens: 2425.9 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 18
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: P676108
 CATALOG NUMBER: CCW-SA-1A-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination

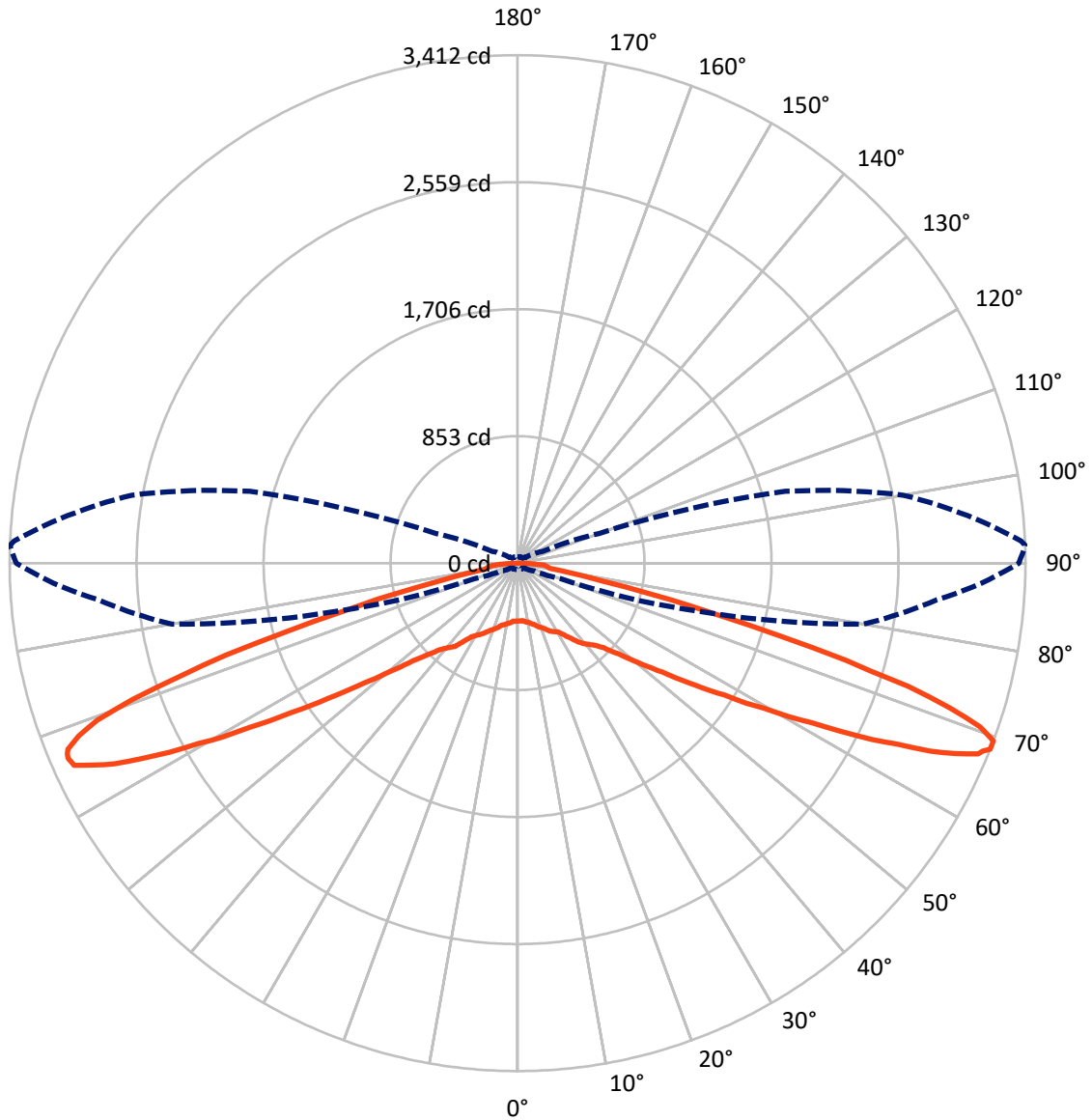
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
 Type I - Short - N/A

REPORT NUMBER: P676108
CATALOG NUMBER: CCW-SA-1A-730-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676108
 CATALOG NUMBER: CCW-SA-1A-730-U-T1

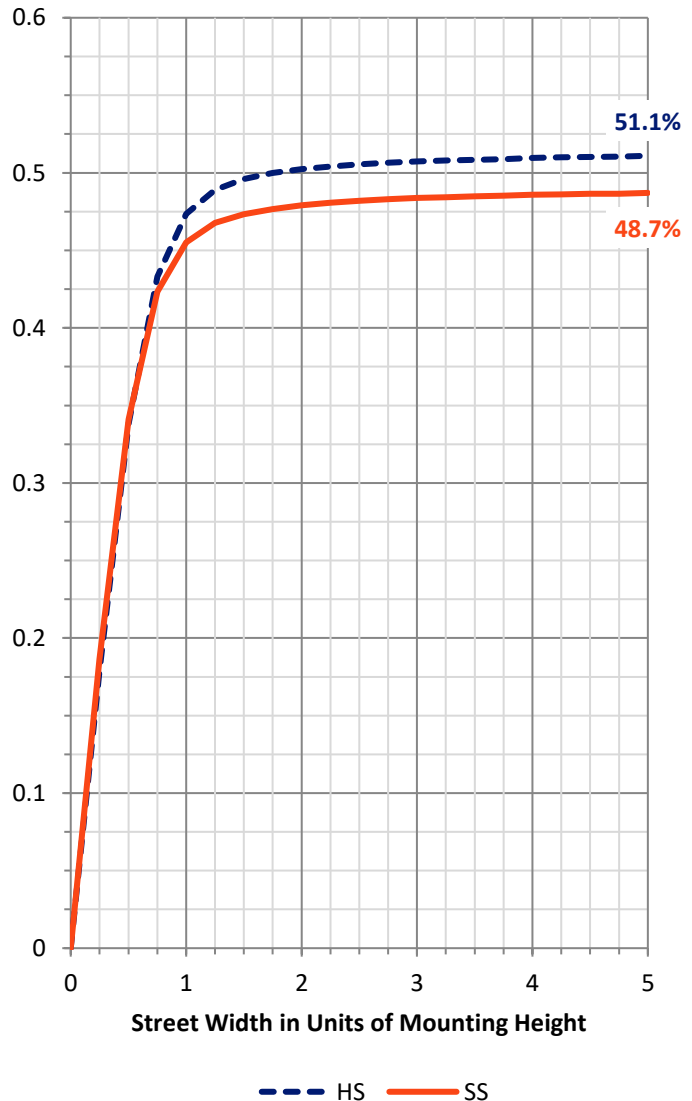
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1249.3	0.0	1249.3
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	1176.6	0.0	1176.6
	% Fixture	48.5	0.0	48.5
Total	Lumens	2425.9	0.0	2425.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	1.6
10°-20°	125.8	5.2
20°-30°	214.8	8.9
30°-40°	299.9	12.4
40°-50°	381.4	15.7
50°-60°	482.3	19.9
60°-70°	594.8	24.5
70°-80°	259.8	10.7
80°-90°	28.2	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°	2425.9	100.0
0°-180°	2425.9	100.0



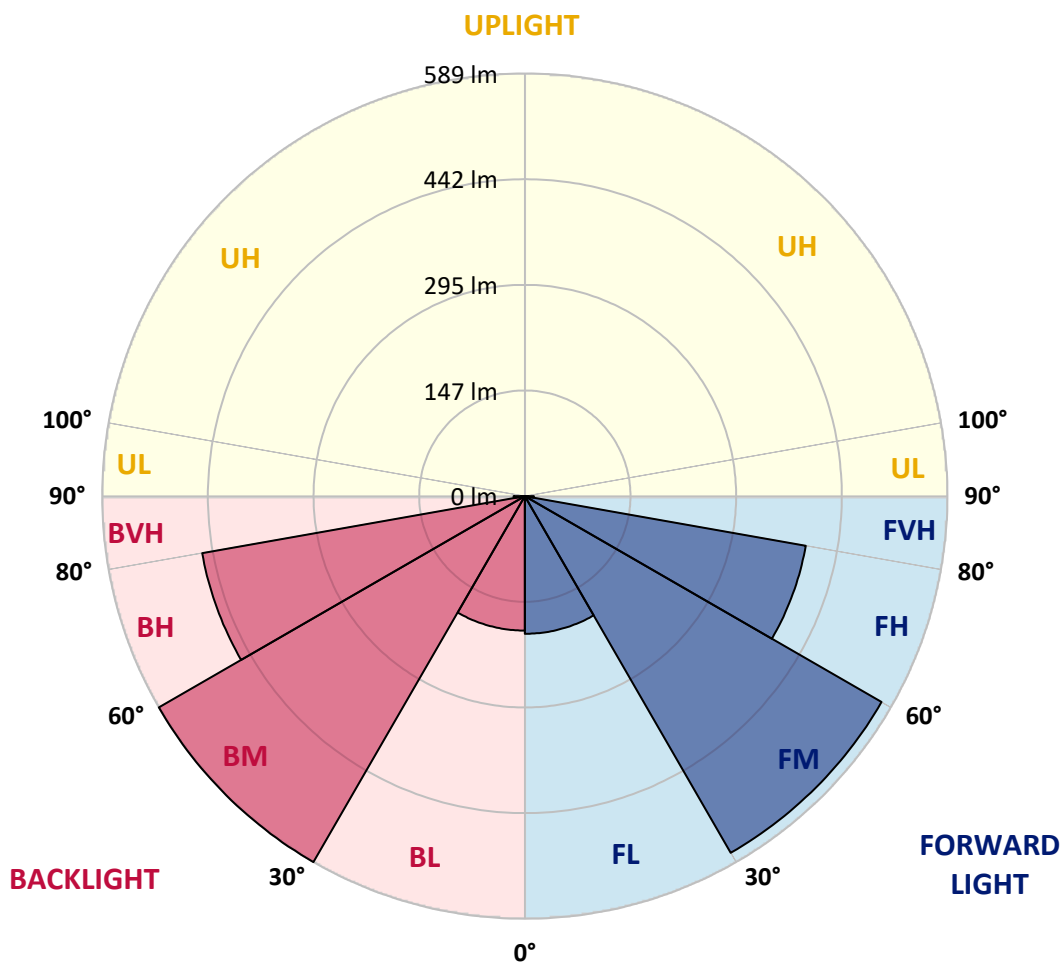
REPORT NUMBER: P676108
 CATALOG NUMBER: CCW-SA-1A-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	192.0	7.9			
FM (30°-60°)	574.3	23.7			
FH (60°-80°)	397.8	16.4			G0/660
FVH (80°-90°)	12.5	0.5			G1/100
BL (0°-30°)	187.5	7.7	B1/500		
BM (30°-60°)	589.3	24.3	B1/1000		
BH (60°-80°)	456.8	18.8	B1/500		G1/500
BVH (80°-90°)	15.7	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-G1

Type I Short





REPORT NUMBER: P676108
 CATALOG NUMBER: CCW-SA-1A-730-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9
2.5°	396.1	395.7	397.0	397.9	393.8	395.2	394.3	393.4	390.2	388.8	386.1
5°	407.0	408.4	413.0	408.9	410.7	408.4	401.1	403.4	399.3	398.4	395.7
7.5°	426.2	423.4	429.8	425.3	426.6	422.1	418.9	414.8	413.9	407.5	408.0
10°	430.3	435.7	438.5	437.6	438.5	440.7	434.8	428.4	419.8	418.0	411.6
12.5°	427.5	432.5	439.8	445.7	449.8	450.8	448.5	447.1	443.5	433.0	432.5
15°	424.8	421.2	425.7	446.2	459.9	469.0	472.2	464.4	465.3	451.7	446.2
17.5°	406.6	401.1	418.9	438.9	455.8	475.8	491.3	489.0	489.0	478.1	470.3
20°	382.5	391.6	400.7	426.2	457.1	487.2	516.8	515.4	509.9	506.8	489.9
22.5°	362.0	366.1	382.9	409.8	448.5	490.4	525.4	550.5	537.7	525.0	515.0
25°	347.9	344.2	365.6	393.4	440.3	484.9	541.8	567.8	574.6	565.0	545.9
27.5°	327.8	327.8	344.7	371.1	413.9	482.2	557.8	597.4	607.4	593.3	565.5
30°	305.1	307.8	322.4	352.4	394.3	462.1	564.1	631.5	639.7	627.4	598.7
32.5°	287.3	287.3	303.7	335.6	380.6	453.0	560.0	665.2	680.7	671.6	642.0
35°	268.2	266.8	278.6	313.7	358.8	435.3	558.7	692.1	726.7	727.1	696.2
37.5°	240.9	246.3	261.3	289.1	341.5	418.0	554.6	724.4	786.3	796.8	775.4
40°	222.6	224.9	238.6	269.1	314.6	397.5	548.6	750.8	825.9	861.9	832.3
42.5°	196.2	199.4	209.9	247.7	288.7	368.3	522.7	769.5	882.4	923.4	898.3
45°	168.5	170.3	185.8	216.7	260.9	333.7	494.9	799.5	937.0	1020.8	1006.2
47.5°	135.2	136.1	149.3	181.7	227.7	299.1	452.1	798.2	981.2	1118.2	1159.2
50°	105.6	107.9	117.9	144.3	187.6	256.8	402.5	787.2	1036.7	1229.3	1309.9
52.5°	84.2	84.7	91.1	112.0	144.8	214.5	349.2	752.6	1089.1	1338.2	1494.8
55°	69.7	69.7	73.3	86.1	111.1	163.0	286.8	695.3	1095.5	1458.4	1696.5
56°	66.9	66.0	69.2	80.1	100.2	147.1	257.7	656.6	1104.6	1513.9	1797.6
57°	63.3	63.7	65.6	73.3	90.2	130.2	225.4	618.8	1098.2	1559.4	1872.2
58°	61.5	60.6	64.2	69.2	79.7	115.6	203.1	574.1	1088.2	1596.8	1981.0
59°	58.7	58.3	60.6	65.1	74.2	102.9	175.7	525.9	1068.6	1645.0	2062.1
60°	57.8	57.4	58.3	61.9	68.3	90.2	154.8	469.4	1016.2	1694.7	2162.7
61°	55.1	55.5	57.4	59.6	64.7	81.0	139.3	411.6	982.1	1736.5	2273.8
62°	55.5	54.6	55.5	57.4	61.0	74.7	122.0	354.7	921.1	1783.9	2357.1
63°	52.8	52.4	53.7	56.0	57.8	67.4	106.5	306.4	851.9	1794.8	2427.7
64°	51.9	51.4	51.9	55.1	55.5	63.3	94.2	261.8	751.7	1813.5	2518.3
65°	49.6	49.6	50.5	51.9	53.7	59.6	84.2	227.2	652.0	1764.3	2546.1
66°	47.8	48.3	48.3	50.5	51.9	55.5	77.4	193.1	556.4	1686.0	2572.9
67°	46.4	46.4	46.9	48.7	50.1	52.4	69.7	167.1	469.4	1592.7	2531.5
67.5°	45.5	46.0	46.0	47.8	49.2	52.4	66.5	158.4	419.8	1490.2	2500.6
68°	44.2	44.6	44.6	46.4	47.8	50.5	64.2	144.8	387.0	1423.7	2443.2
69°	43.3	42.8	42.8	44.6	46.4	48.3	59.6	126.6	307.8	1238.0	2359.4
70°	40.5	40.5	41.4	42.8	44.2	46.0	55.1	111.6	260.4	1024.9	2143.6
71°	39.2	38.7	39.2	40.5	41.9	44.2	50.5	98.8	213.1	851.0	1931.4
72°	36.4	37.3	37.3	38.7	40.1	41.4	47.4	86.1	178.9	680.2	1697.8
72.5°	36.0	36.0	36.4	37.8	38.7	41.0	45.5	82.4	163.5	599.6	1600.0
73°	34.6	34.6	35.1	36.4	37.3	39.6	44.2	74.2	148.9	533.6	1416.9
74°	33.2	32.8	32.8	34.6	35.1	37.3	41.4	65.6	124.8	402.0	1137.4
75°	31.0	31.0	31.4	32.3	32.8	34.6	38.2	58.3	105.2	311.9	889.7



REPORT NUMBER: P676108
 CATALOG NUMBER: CCW-SA-1A-730-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	25.5	26.0	26.4	27.3	27.3	28.7	31.4	40.5	64.2	158.0	408.4
80°	18.7	19.6	20.9	22.3	21.9	21.9	24.6	29.1	38.2	71.0	156.6
82.5°	15.0	15.9	14.6	16.4	16.4	15.5	17.8	21.4	26.0	35.1	56.0
85°	10.0	10.5	8.7	10.0	9.6	9.6	11.8	12.7	15.9	19.6	27.8
87.5°	4.6	4.6	3.6	4.1	4.1	4.1	5.9	4.6	6.8	9.6	16.4
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: P676108

CATALOG NUMBER: CCW-SA-1A-730-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9
2.5°	388.8	390.7	390.7	388.8	387.5	388.8	387.9	385.6	387.9	388.8	389.3
5°	394.3	390.7	392.5	388.4	391.1	390.7	389.7	392.0	392.5	392.5	395.7
7.5°	400.2	404.8	398.9	399.3	400.7	395.2	397.0	397.9	396.1	399.8	402.5
10°	410.7	412.5	410.7	403.9	408.4	404.8	403.4	407.5	406.6	407.5	411.6
12.5°	420.2	423.4	418.4	418.0	415.7	412.5	414.3	413.9	420.2	421.2	426.2
15°	439.8	431.6	429.8	429.4	428.4	427.1	428.0	428.4	436.6	438.0	449.8
17.5°	456.7	455.3	445.3	448.9	448.9	443.5	441.2	448.9	455.3	462.1	470.3
20°	474.0	472.6	461.7	462.1	458.0	463.0	460.3	467.6	478.5	480.8	488.1
22.5°	494.5	488.5	480.8	481.7	483.1	479.4	477.6	487.6	498.6	504.9	505.4
25°	526.8	511.8	505.4	506.3	504.5	501.7	503.1	515.9	521.3	535.0	532.3
27.5°	544.1	535.4	530.9	520.4	520.9	516.8	522.2	541.4	552.3	562.8	541.8
30°	565.0	559.6	539.5	535.9	535.4	533.6	543.6	568.2	584.6	590.5	560.5
32.5°	606.0	584.2	579.2	576.0	568.7	571.0	576.0	608.3	634.2	632.9	577.8
35°	652.9	637.9	623.8	621.0	620.1	613.8	622.4	660.2	680.2	674.3	584.2
37.5°	728.0	705.3	686.1	675.7	673.9	669.3	689.8	719.8	745.8	722.6	589.2
40°	764.9	739.4	721.7	715.3	716.7	723.0	743.1	789.0	800.4	757.6	593.3
42.5°	817.7	790.0	754.9	751.7	747.6	750.8	789.5	851.4	861.0	805.0	577.8
45°	911.5	869.6	829.1	810.9	811.8	820.5	880.6	948.4	930.7	837.8	553.2
47.5°	1029.9	968.4	935.7	911.1	922.9	913.3	1009.0	1063.1	1002.6	879.2	523.1
50°	1207.9	1121.9	1077.3	1047.7	1052.7	1060.9	1157.8	1203.8	1082.3	899.2	477.2
52.5°	1432.4	1321.8	1256.2	1216.6	1220.2	1238.0	1363.2	1349.1	1173.3	916.1	415.7
55°	1701.0	1587.2	1460.2	1443.8	1439.7	1482.0	1620.0	1501.2	1255.3	889.2	352.0
56°	1843.1	1722.0	1589.9	1556.2	1546.2	1575.8	1737.9	1577.2	1283.5	859.2	321.4
57°	1963.7	1848.1	1703.3	1645.9	1658.7	1714.2	1854.9	1648.7	1309.5	828.2	292.8
58°	2129.5	1997.4	1844.5	1800.7	1789.4	1833.5	1981.0	1720.6	1318.1	796.3	266.4
59°	2294.8	2136.3	1998.3	1918.7	1921.9	2002.4	2105.3	1806.2	1331.3	755.8	232.7
60°	2420.4	2340.7	2156.3	2096.7	2088.5	2205.1	2229.2	1863.6	1345.4	701.2	209.0
61°	2598.4	2494.6	2323.0	2246.0	2268.3	2361.7	2363.1	1935.5	1324.5	632.0	179.8
62°	2726.4	2699.1	2518.8	2445.5	2438.6	2562.5	2502.4	1998.8	1306.3	566.4	158.9
63°	2876.2	2876.2	2711.8	2654.4	2657.6	2755.5	2562.9	2062.1	1285.3	494.0	139.8
64°	2954.0	3051.9	2900.3	2819.7	2840.7	2925.4	2670.8	2103.5	1220.7	420.7	122.9
65°	3021.4	3168.5	3084.3	3046.9	3015.1	3065.1	2764.2	2142.2	1121.9	357.9	109.3
66°	3078.3	3278.2	3250.4	3210.4	3207.2	3195.8	2782.4	2140.9	1019.9	302.3	95.6
67°	3049.7	3280.5	3331.0	3347.9	3342.9	3222.7	2750.5	2092.1	889.2	255.4	85.1
67.5°	3023.7	3261.8	3379.3	3369.7	3390.7	3245.4	2756.0	2032.5	796.3	231.3	80.1
68°	3000.9	3236.8	3398.9	3411.2	3400.7	3248.2	2725.9	1985.1	733.0	217.2	75.6
69°	2828.4	3118.0	3367.5	3411.6	3384.8	3143.9	2630.3	1861.8	582.3	185.3	69.7
70°	2655.4	2964.1	3214.9	3296.0	3262.7	2942.2	2509.7	1665.5	480.4	158.4	62.8
71°	2415.9	2678.1	3011.9	3060.6	3020.5	2712.7	2260.2	1458.4	373.8	134.3	56.0
72°	2090.8	2313.4	2632.1	2750.1	2690.9	2382.6	2007.9	1205.2	302.8	112.9	51.0
72.5°	1929.6	2157.7	2465.0	2474.6	2486.0	2239.2	1900.9	1058.6	264.1	104.7	49.6
73°	1776.6	2000.2	2266.1	2299.8	2251.5	1997.4	1741.1	946.6	241.3	95.6	47.8
74°	1439.7	1567.2	1787.5	1820.3	1778.0	1628.6	1422.8	725.8	192.1	82.4	43.7
75°	1132.8	1202.9	1402.4	1382.3	1319.0	1266.7	1103.2	554.6	155.7	72.4	40.5



REPORT NUMBER: P676108
 CATALOG NUMBER: CCW-SA-1A-730-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	509.0	551.4	584.6	584.6	588.3	561.4	508.6	254.5	96.1	52.4	33.2
80°	194.0	217.2	224.5	224.9	228.1	236.3	219.9	125.2	56.9	37.3	26.9
82.5°	140.7	196.7	211.7	200.8	201.7	182.1	84.2	55.5	36.0	26.0	19.6
85°	127.5	171.2	181.2	179.8	180.3	168.5	49.6	27.3	20.9	16.4	13.7
87.5°	61.9	60.6	64.2	72.4	70.6	91.5	41.9	13.7	9.1	6.8	6.8
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: P676108

CATALOG NUMBER: CCW-SA-1A-730-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	387.9	387.9	387.9	387.9	387.9	387.9
2.5°	385.6	385.2	391.6	385.2	388.8	386.1
5°	390.2	392.0	393.4	396.1	389.7	396.1
7.5°	403.9	405.7	406.1	408.4	405.7	405.2
10°	414.3	418.9	421.6	412.5	418.0	417.5
12.5°	434.8	430.3	429.8	428.0	423.0	421.2
15°	449.4	442.6	438.5	431.2	425.3	423.0
17.5°	469.9	456.7	439.8	424.8	414.3	406.1
20°	482.6	459.0	425.3	407.5	391.6	395.2
22.5°	490.8	456.7	412.1	389.3	373.4	377.9
25°	493.6	445.3	402.9	374.7	359.2	356.1
27.5°	485.8	432.1	385.2	353.3	339.7	342.4
30°	482.2	413.0	368.8	337.4	319.2	321.9
32.5°	472.6	393.4	346.9	315.1	301.9	297.3
35°	459.0	377.0	326.0	296.0	280.0	276.4
37.5°	442.1	356.5	307.8	271.4	257.2	254.5
40°	417.1	331.9	281.4	250.0	233.6	233.1
42.5°	395.2	308.2	256.8	224.5	208.1	209.0
45°	367.4	276.4	228.6	200.8	184.4	185.3
47.5°	331.9	246.8	201.7	170.7	157.1	156.2
50°	290.0	213.1	168.9	142.5	131.1	128.9
52.5°	250.0	178.9	138.4	114.7	105.2	104.3
55°	199.4	139.3	107.9	90.2	82.9	83.3
56°	181.2	128.4	98.3	82.4	76.9	76.9
57°	163.9	113.8	89.2	76.0	71.0	71.0
58°	144.8	100.2	81.0	68.8	66.5	64.7
59°	131.6	91.1	73.3	65.1	61.5	61.0
60°	116.1	82.0	68.3	61.0	58.3	57.8
61°	102.9	73.8	62.8	56.9	56.0	56.0
62°	92.0	68.3	58.3	55.1	54.6	53.3
63°	82.4	62.8	56.0	52.4	51.0	52.4
64°	73.8	57.8	54.2	51.4	49.6	50.5
65°	66.9	55.5	51.9	50.1	48.3	48.7
66°	62.4	51.9	50.1	47.8	46.9	47.4
67°	56.5	50.1	48.3	46.0	45.5	46.0
67.5°	54.6	48.7	47.4	45.1	44.6	45.1
68°	53.3	47.8	46.9	44.6	44.2	43.7
69°	49.6	46.0	44.6	43.7	42.8	42.3
70°	46.4	44.2	43.3	41.9	41.0	40.5
71°	44.6	41.9	41.4	40.1	39.2	38.7
72°	42.3	40.5	39.6	37.8	37.3	37.8
72.5°	41.9	39.6	39.2	37.3	36.9	36.9
73°	40.5	37.8	38.2	36.4	35.5	36.4
74°	37.8	36.9	36.0	34.6	34.1	34.1
75°	35.5	34.6	33.7	32.8	32.8	32.8



REPORT NUMBER: P676108
CATALOG NUMBER: CCW-SA-1A-730-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	30.1	29.6	30.1	28.2	27.8	27.3
80°	24.1	24.1	24.6	23.2	22.3	21.9
82.5°	18.2	18.7	19.6	18.2	17.3	16.4
85°	11.8	12.3	12.3	10.9	12.7	11.8
87.5°	5.9	6.4	5.9	5.5	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)