

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: P676130

Luminaire Tested: **CCW-SA-1A-740-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676130
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-740-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T1 distribution lens
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

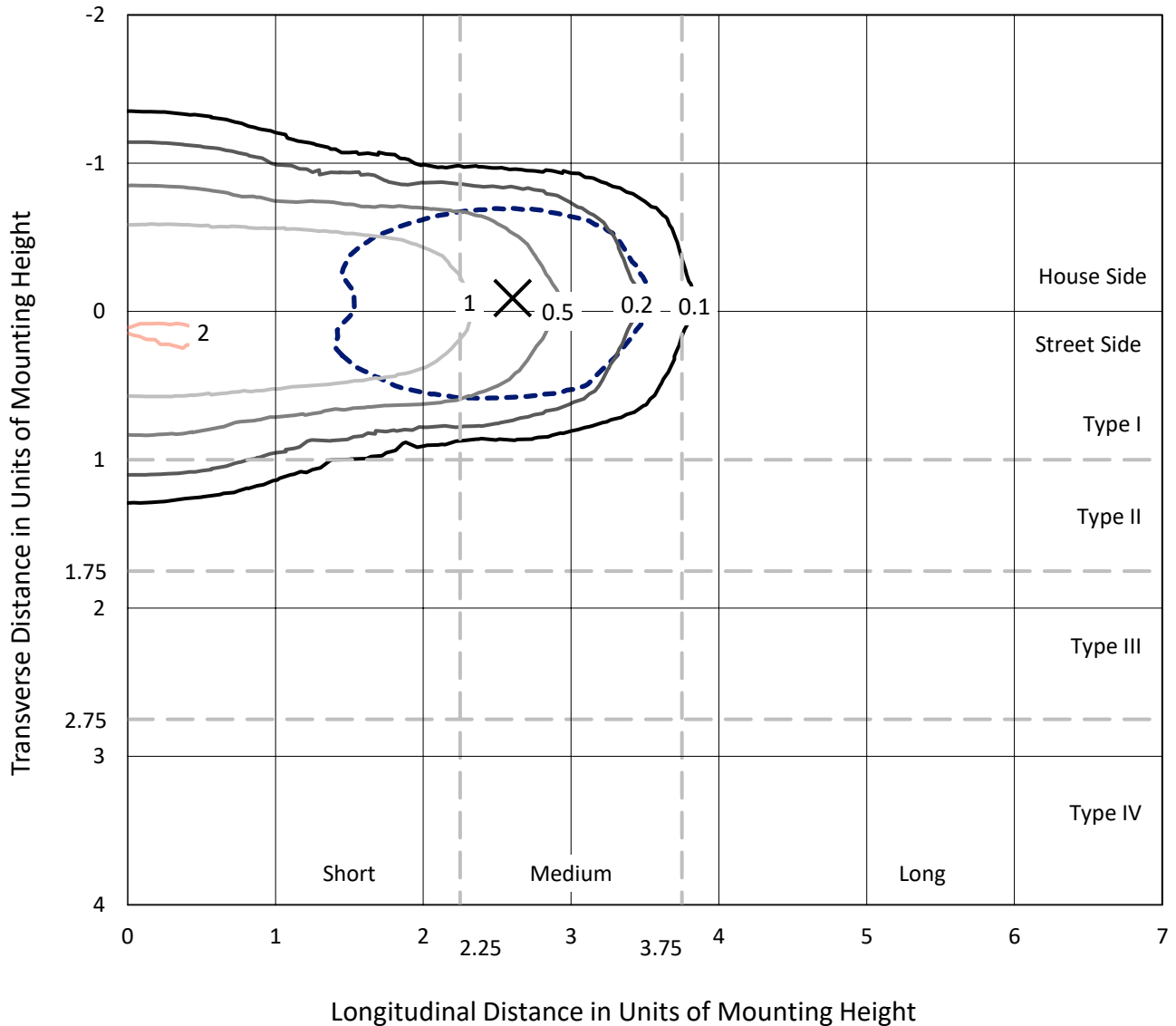
Lumens per Lamp: N/A
Luminaire Lumens: 2664 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 18
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: P676130
 CATALOG NUMBER: CCW-SA-1A-740-U-T1

Iso-Footcandle Lines of Horizontal Illumination

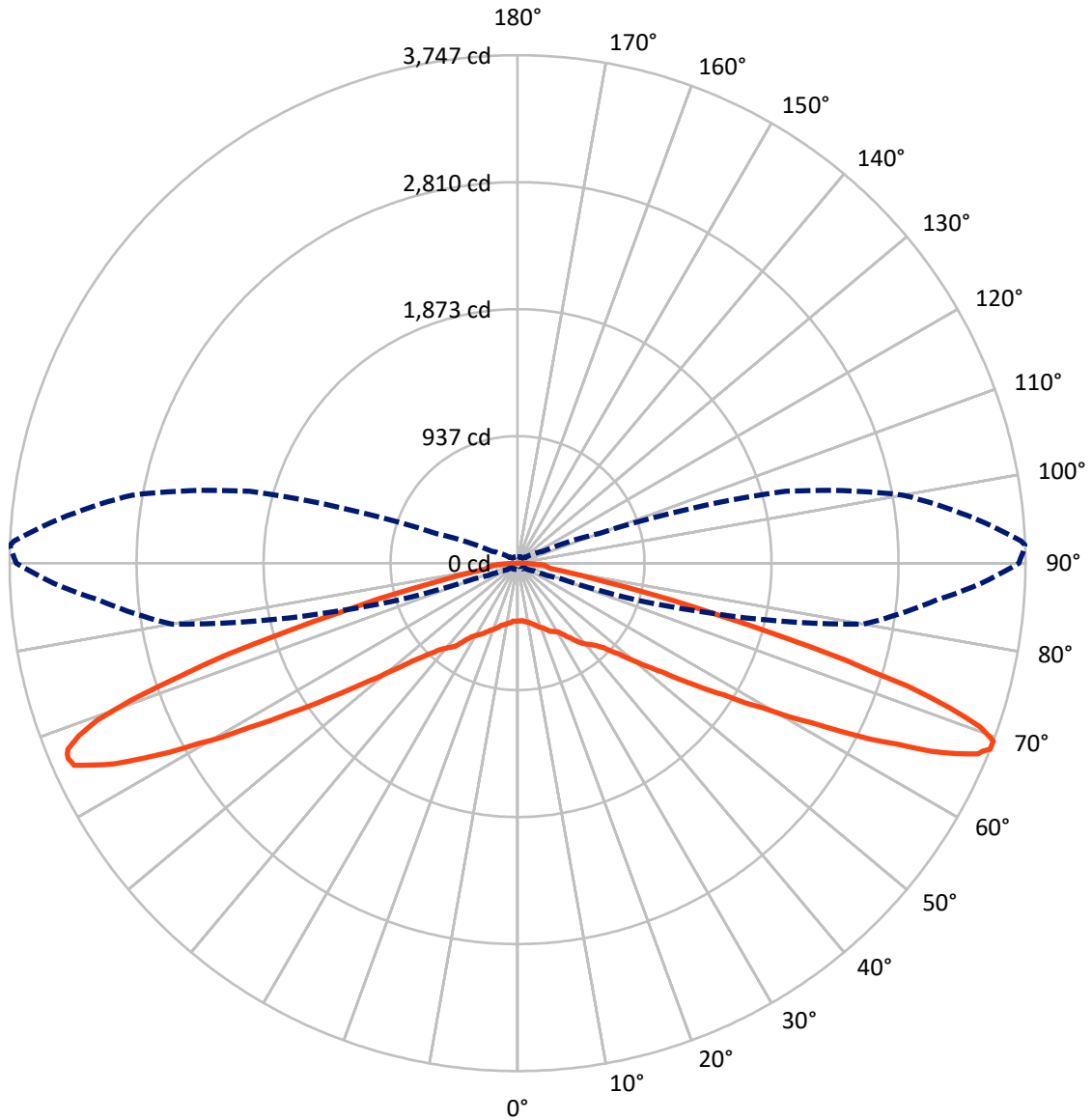
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
 Type I - Short - N/A

REPORT NUMBER: P676130
CATALOG NUMBER: CCW-SA-1A-740-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676130
 CATALOG NUMBER: CCW-SA-1A-740-U-T1

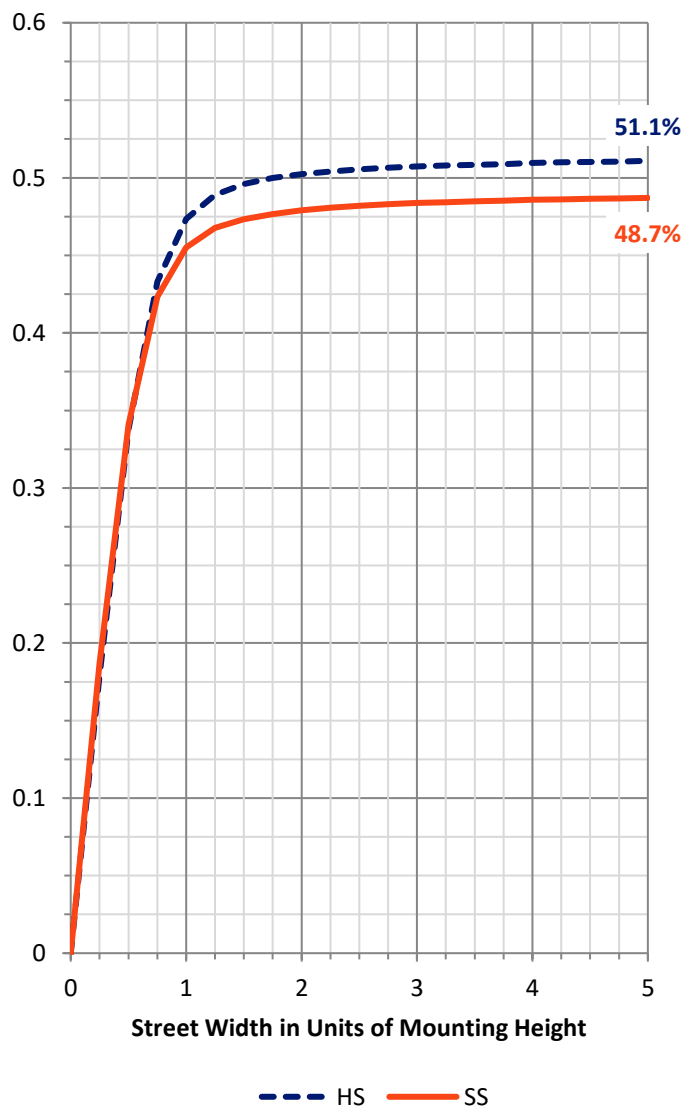
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1371.9	0.0	1371.9
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	1292.1	0.0	1292.1
	% Fixture	48.5	0.0	48.5
Total	Lumens	2664.0	0.0	2664.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	1.6
10°-20°	138.2	5.2
20°-30°	235.8	8.9
30°-40°	329.3	12.4
40°-50°	418.9	15.7
50°-60°	529.6	19.9
60°-70°	653.2	24.5
70°-80°	285.3	10.7
80°-90°	30.9	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°	2664.0	100.0
0°-180°	2664.0	100.0



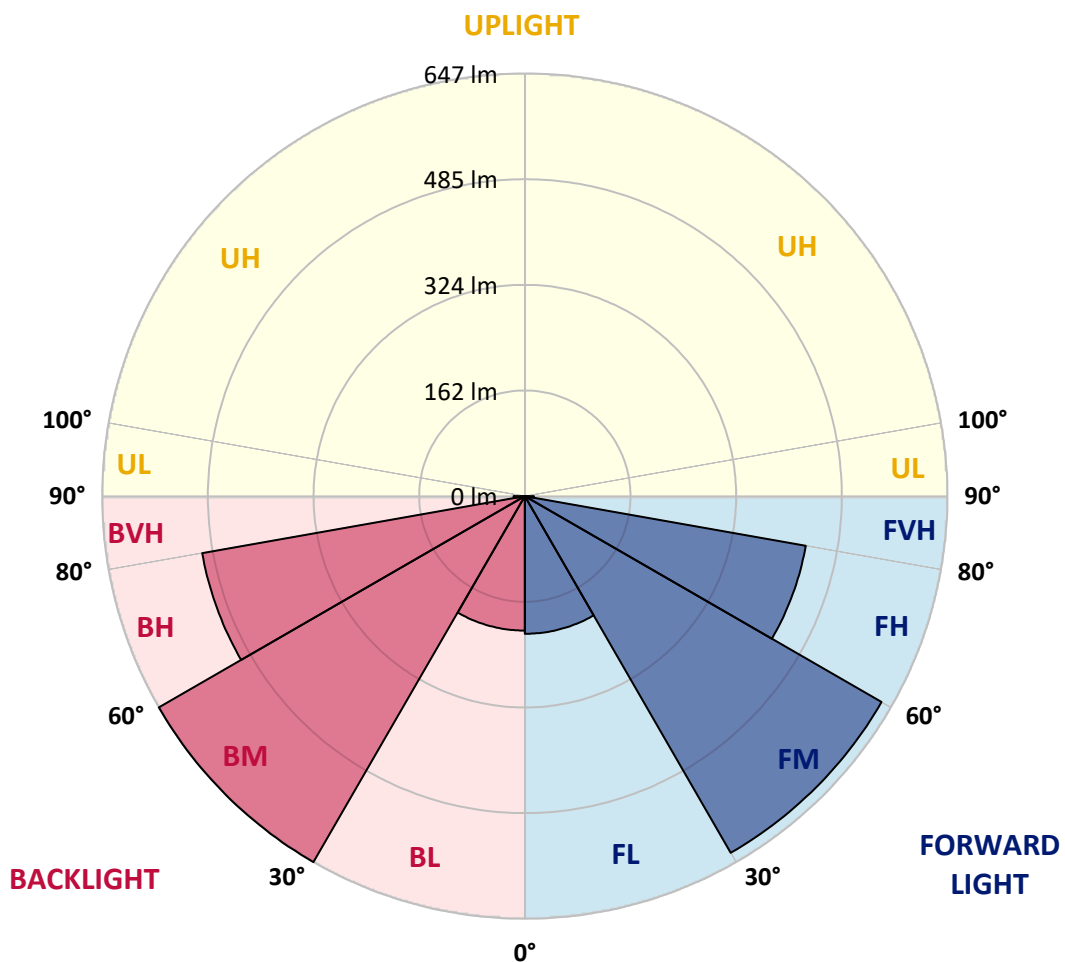
REPORT NUMBER: P676130
 CATALOG NUMBER: CCW-SA-1A-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	210.8	7.9			
FM (30°-60°)	630.7	23.7			
FH (60°-80°)	436.9	16.4			G0/660
FVH (80°-90°)	13.7	0.5			G1/100
BL (0°-30°)	205.9	7.7	B1/500		
BM (30°-60°)	647.1	24.3	B1/1000		
BH (60°-80°)	501.7	18.8	B2/1000		G2/1000
BVH (80°-90°)	17.2	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: P676130

CATALOG NUMBER: CCW-SA-1A-740-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0
2.5°	435.0	434.5	436.0	437.0	432.5	434.0	433.0	432.0	428.5	427.0	424.0
5°	447.0	448.5	453.5	449.0	451.0	448.5	440.5	443.0	438.5	437.5	434.5
7.5°	468.0	465.0	472.0	467.0	468.5	463.5	460.0	455.5	454.5	447.5	448.0
10°	472.5	478.5	481.5	480.5	481.5	484.0	477.5	470.5	461.0	459.0	452.0
12.5°	469.5	475.0	483.0	489.5	494.0	495.0	492.5	491.0	487.0	475.5	475.0
15°	466.5	462.5	467.5	490.0	505.0	515.0	518.5	510.0	511.0	496.0	490.0
17.5°	446.5	440.5	460.0	482.0	500.5	522.5	539.5	537.0	537.0	525.0	516.5
20°	420.0	430.0	440.0	468.0	502.0	535.0	567.5	566.0	560.0	556.5	538.0
22.5°	397.5	402.0	420.5	450.0	492.5	538.5	577.0	604.5	590.5	576.5	565.5
25°	382.0	378.0	401.5	432.0	483.5	532.5	595.0	623.5	631.0	620.5	599.5
27.5°	360.0	360.0	378.5	407.5	454.5	529.5	612.5	656.0	667.0	651.5	621.0
30°	335.0	338.0	354.0	387.0	433.0	507.5	619.5	693.5	702.5	689.0	657.5
32.5°	315.5	315.5	333.5	368.5	418.0	497.5	615.0	730.5	747.5	737.5	705.0
35°	294.5	293.0	306.0	344.5	394.0	478.0	613.5	760.0	798.0	798.5	764.5
37.5°	264.5	270.5	287.0	317.5	375.0	459.0	609.0	795.5	863.5	875.0	851.5
40°	244.5	247.0	262.0	295.5	345.5	436.5	602.5	824.5	907.0	946.5	914.0
42.5°	215.5	219.0	230.5	272.0	317.0	404.5	574.0	845.0	969.0	1014.0	986.5
45°	185.0	187.0	204.0	238.0	286.5	366.5	543.5	878.0	1029.0	1121.0	1105.0
47.5°	148.5	149.5	164.0	199.5	250.0	328.5	496.5	876.5	1077.5	1228.0	1273.0
50°	116.0	118.5	129.5	158.5	206.0	282.0	442.0	864.5	1138.5	1350.0	1438.5
52.5°	92.5	93.0	100.0	123.0	159.0	235.5	383.5	826.5	1196.0	1469.5	1641.5
55°	76.5	76.5	80.5	94.5	122.0	179.0	315.0	763.5	1203.0	1601.5	1863.0
56°	73.5	72.5	76.0	88.0	110.0	161.5	283.0	721.0	1213.0	1662.5	1974.0
57°	69.5	70.0	72.0	80.5	99.0	143.0	247.5	679.5	1206.0	1712.5	2056.0
58°	67.5	66.5	70.5	76.0	87.5	127.0	223.0	630.5	1195.0	1753.5	2175.5
59°	64.5	64.0	66.5	71.5	81.5	113.0	193.0	577.5	1173.5	1806.5	2264.5
60°	63.5	63.0	64.0	68.0	75.0	99.0	170.0	515.5	1116.0	1861.0	2375.0
61°	60.5	61.0	63.0	65.5	71.0	89.0	153.0	452.0	1078.5	1907.0	2497.0
62°	61.0	60.0	61.0	63.0	67.0	82.0	134.0	389.5	1011.5	1959.0	2588.5
63°	58.0	57.5	59.0	61.5	63.5	74.0	117.0	336.5	935.5	1971.0	2666.0
64°	57.0	56.5	57.0	60.5	61.0	69.5	103.5	287.5	825.5	1991.5	2765.6
65°	54.5	54.5	55.5	57.0	59.0	65.5	92.5	249.5	716.0	1937.5	2796.1
66°	52.5	53.0	53.0	55.5	57.0	61.0	85.0	212.0	611.0	1851.5	2825.6
67°	51.0	51.0	51.5	53.5	55.0	57.5	76.5	183.5	515.5	1749.0	2780.1
67.5°	50.0	50.5	50.5	52.5	54.0	57.5	73.0	174.0	461.0	1636.5	2746.1
68°	48.5	49.0	49.0	51.0	52.5	55.5	70.5	159.0	425.0	1563.5	2683.1
69°	47.5	47.0	47.0	49.0	51.0	53.0	65.5	139.0	338.0	1359.5	2591.0
70°	44.5	44.5	45.5	47.0	48.5	50.5	60.5	122.5	286.0	1125.5	2354.0
71°	43.0	42.5	43.0	44.5	46.0	48.5	55.5	108.5	234.0	934.5	2121.0
72°	40.0	41.0	41.0	42.5	44.0	45.5	52.0	94.5	196.5	747.0	1864.5
72.5°	39.5	39.5	40.0	41.5	42.5	45.0	50.0	90.5	179.5	658.5	1757.0
73°	38.0	38.0	38.5	40.0	41.0	43.5	48.5	81.5	163.5	586.0	1556.0
74°	36.5	36.0	36.0	38.0	38.5	41.0	45.5	72.0	137.0	441.5	1249.0
75°	34.0	34.0	34.5	35.5	36.0	38.0	42.0	64.0	115.5	342.5	977.0



REPORT NUMBER: P676130
 CATALOG NUMBER: CCW-SA-1A-740-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	28.0	28.5	29.0	30.0	30.0	31.5	34.5	44.5	70.5	173.5	448.5
80°	20.5	21.5	23.0	24.5	24.0	24.0	27.0	32.0	42.0	78.0	172.0
82.5°	16.5	17.5	16.0	18.0	18.0	17.0	19.5	23.5	28.5	38.5	61.5
85°	11.0	11.5	9.5	11.0	10.5	10.5	13.0	14.0	17.5	21.5	30.5
87.5°	5.0	5.0	4.0	4.5	4.5	4.5	6.5	5.0	7.5	10.5	18.0
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: P676130

CATALOG NUMBER: CCW-SA-1A-740-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0
2.5°	427.0	429.0	429.0	427.0	425.5	427.0	426.0	423.5	426.0	427.0	427.5
5°	433.0	429.0	431.0	426.5	429.5	429.0	428.0	430.5	431.0	431.0	434.5
7.5°	439.5	444.5	438.0	438.5	440.0	434.0	436.0	437.0	435.0	439.0	442.0
10°	451.0	453.0	451.0	443.5	448.5	444.5	443.0	447.5	446.5	447.5	452.0
12.5°	461.5	465.0	459.5	459.0	456.5	453.0	455.0	454.5	461.5	462.5	468.0
15°	483.0	474.0	472.0	471.5	470.5	469.0	470.0	470.5	479.5	481.0	494.0
17.5°	501.5	500.0	489.0	493.0	493.0	487.0	484.5	493.0	500.0	507.5	516.5
20°	520.5	519.0	507.0	507.5	503.0	508.5	505.5	513.5	525.5	528.0	536.0
22.5°	543.0	536.5	528.0	529.0	530.5	526.5	524.5	535.5	547.5	554.5	555.0
25°	578.5	562.0	555.0	556.0	554.0	551.0	552.5	566.5	572.5	587.5	584.5
27.5°	597.5	588.0	583.0	571.5	572.0	567.5	573.5	594.5	606.5	618.0	595.0
30°	620.5	614.5	592.5	588.5	588.0	586.0	597.0	624.0	642.0	648.5	615.5
32.5°	665.5	641.5	636.0	632.5	624.5	627.0	632.5	668.0	696.5	695.0	634.5
35°	717.0	700.5	685.0	682.0	681.0	674.0	683.5	725.0	747.0	740.5	641.5
37.5°	799.5	774.5	753.5	742.0	740.0	735.0	757.5	790.5	819.0	793.5	647.0
40°	840.0	812.0	792.5	785.5	787.0	794.0	816.0	866.5	879.0	832.0	651.5
42.5°	898.0	867.5	829.0	825.5	821.0	824.5	867.0	935.0	945.5	884.0	634.5
45°	1001.0	955.0	910.5	890.5	891.5	901.0	967.0	1041.5	1022.0	920.0	607.5
47.5°	1131.0	1063.5	1027.5	1000.5	1013.5	1003.0	1108.0	1167.5	1101.0	965.5	574.5
50°	1326.5	1232.0	1183.0	1150.5	1156.0	1165.0	1271.5	1322.0	1188.5	987.5	524.0
52.5°	1573.0	1451.5	1379.5	1336.0	1340.0	1359.5	1497.0	1481.5	1288.5	1006.0	456.5
55°	1868.0	1743.0	1603.5	1585.5	1581.0	1627.5	1779.0	1648.5	1378.5	976.5	386.5
56°	2024.0	1891.0	1746.0	1709.0	1698.0	1730.5	1908.5	1732.0	1409.5	943.5	353.0
57°	2156.5	2029.5	1870.5	1807.5	1821.5	1882.5	2037.0	1810.5	1438.0	909.5	321.5
58°	2338.5	2193.5	2025.5	1977.5	1965.0	2013.5	2175.5	1889.5	1447.5	874.5	292.5
59°	2520.0	2346.0	2194.5	2107.0	2110.5	2199.0	2312.0	1983.5	1462.0	830.0	255.5
60°	2658.0	2570.5	2368.0	2302.5	2293.5	2421.5	2448.0	2046.5	1477.5	770.0	229.5
61°	2853.6	2739.6	2551.0	2466.5	2491.0	2593.5	2595.0	2125.5	1454.5	694.0	197.5
62°	2994.1	2964.1	2766.1	2685.6	2678.1	2814.1	2748.1	2195.0	1434.5	622.0	174.5
63°	3158.6	3158.6	2978.1	2915.1	2918.6	3026.1	2814.6	2264.5	1411.5	542.5	153.5
64°	3244.1	3351.6	3185.1	3096.6	3119.6	3212.6	2933.1	2310.0	1340.5	462.0	135.0
65°	3318.1	3479.6	3387.1	3346.1	3311.1	3366.1	3035.6	2352.5	1232.0	393.0	120.0
66°	3380.6	3600.1	3569.6	3525.6	3522.1	3509.6	3055.6	2351.0	1120.0	332.0	105.0
67°	3349.1	3602.6	3658.1	3676.6	3671.1	3539.1	3020.6	2297.5	976.5	280.5	93.5
67.5°	3320.6	3582.1	3711.1	3700.6	3723.6	3564.1	3026.6	2232.0	874.5	254.0	88.0
68°	3295.6	3554.6	3732.6	3746.1	3734.6	3567.1	2993.6	2180.0	805.0	238.5	83.0
69°	3106.1	3424.1	3698.1	3746.6	3717.1	3452.6	2888.6	2044.5	639.5	203.5	76.5
70°	2916.1	3255.1	3530.6	3619.6	3583.1	3231.1	2756.1	1829.0	527.5	174.0	69.0
71°	2653.0	2941.1	3307.6	3361.1	3317.1	2979.1	2482.0	1601.5	410.5	147.5	61.5
72°	2296.0	2540.5	2890.6	3020.1	2955.1	2616.5	2205.0	1323.5	332.5	124.0	56.0
72.5°	2119.0	2369.5	2707.1	2717.6	2730.1	2459.0	2087.5	1162.5	290.0	115.0	54.5
73°	1951.0	2196.5	2488.5	2525.5	2472.5	2193.5	1912.0	1039.5	265.0	105.0	52.5
74°	1581.0	1721.0	1963.0	1999.0	1952.5	1788.5	1562.5	797.0	211.0	90.5	48.0
75°	1244.0	1321.0	1540.0	1518.0	1448.5	1391.0	1211.5	609.0	171.0	79.5	44.5



REPORT NUMBER: P676130
 CATALOG NUMBER: CCW-SA-1A-740-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	559.0	605.5	642.0	642.0	646.0	616.5	558.5	279.5	105.5	57.5	36.5
80°	213.0	238.5	246.5	247.0	250.5	259.5	241.5	137.5	62.5	41.0	29.5
82.5°	154.5	216.0	232.5	220.5	221.5	200.0	92.5	61.0	39.5	28.5	21.5
85°	140.0	188.0	199.0	197.5	198.0	185.0	54.5	30.0	23.0	18.0	15.0
87.5°	68.0	66.5	70.5	79.5	77.5	100.5	46.0	15.0	10.0	7.5	7.5
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: P676130

CATALOG NUMBER: CCW-SA-1A-740-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	426.0	426.0	426.0	426.0	426.0	426.0
2.5°	423.5	423.0	430.0	423.0	427.0	424.0
5°	428.5	430.5	432.0	435.0	428.0	435.0
7.5°	443.5	445.5	446.0	448.5	445.5	445.0
10°	455.0	460.0	463.0	453.0	459.0	458.5
12.5°	477.5	472.5	472.0	470.0	464.5	462.5
15°	493.5	486.0	481.5	473.5	467.0	464.5
17.5°	516.0	501.5	483.0	466.5	455.0	446.0
20°	530.0	504.0	467.0	447.5	430.0	434.0
22.5°	539.0	501.5	452.5	427.5	410.0	415.0
25°	542.0	489.0	442.5	411.5	394.5	391.0
27.5°	533.5	474.5	423.0	388.0	373.0	376.0
30°	529.5	453.5	405.0	370.5	350.5	353.5
32.5°	519.0	432.0	381.0	346.0	331.5	326.5
35°	504.0	414.0	358.0	325.0	307.5	303.5
37.5°	485.5	391.5	338.0	298.0	282.5	279.5
40°	458.0	364.5	309.0	274.5	256.5	256.0
42.5°	434.0	338.5	282.0	246.5	228.5	229.5
45°	403.5	303.5	251.0	220.5	202.5	203.5
47.5°	364.5	271.0	221.5	187.5	172.5	171.5
50°	318.5	234.0	185.5	156.5	144.0	141.5
52.5°	274.5	196.5	152.0	126.0	115.5	114.5
55°	219.0	153.0	118.5	99.0	91.0	91.5
56°	199.0	141.0	108.0	90.5	84.5	84.5
57°	180.0	125.0	98.0	83.5	78.0	78.0
58°	159.0	110.0	89.0	75.5	73.0	71.0
59°	144.5	100.0	80.5	71.5	67.5	67.0
60°	127.5	90.0	75.0	67.0	64.0	63.5
61°	113.0	81.0	69.0	62.5	61.5	61.5
62°	101.0	75.0	64.0	60.5	60.0	58.5
63°	90.5	69.0	61.5	57.5	56.0	57.5
64°	81.0	63.5	59.5	56.5	54.5	55.5
65°	73.5	61.0	57.0	55.0	53.0	53.5
66°	68.5	57.0	55.0	52.5	51.5	52.0
67°	62.0	55.0	53.0	50.5	50.0	50.5
67.5°	60.0	53.5	52.0	49.5	49.0	49.5
68°	58.5	52.5	51.5	49.0	48.5	48.0
69°	54.5	50.5	49.0	48.0	47.0	46.5
70°	51.0	48.5	47.5	46.0	45.0	44.5
71°	49.0	46.0	45.5	44.0	43.0	42.5
72°	46.5	44.5	43.5	41.5	41.0	41.5
72.5°	46.0	43.5	43.0	41.0	40.5	40.5
73°	44.5	41.5	42.0	40.0	39.0	40.0
74°	41.5	40.5	39.5	38.0	37.5	37.5
75°	39.0	38.0	37.0	36.0	36.0	36.0



REPORT NUMBER: P676130
CATALOG NUMBER: CCW-SA-1A-740-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	33.0	32.5	33.0	31.0	30.5	30.0
80°	26.5	26.5	27.0	25.5	24.5	24.0
82.5°	20.0	20.5	21.5	20.0	19.0	18.0
85°	13.0	13.5	13.5	12.0	14.0	13.0
87.5°	6.5	7.0	6.5	6.0	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)