

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: P676198

Luminaire Tested: **CCW-SA-1C-840-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676198
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-840-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T1 distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

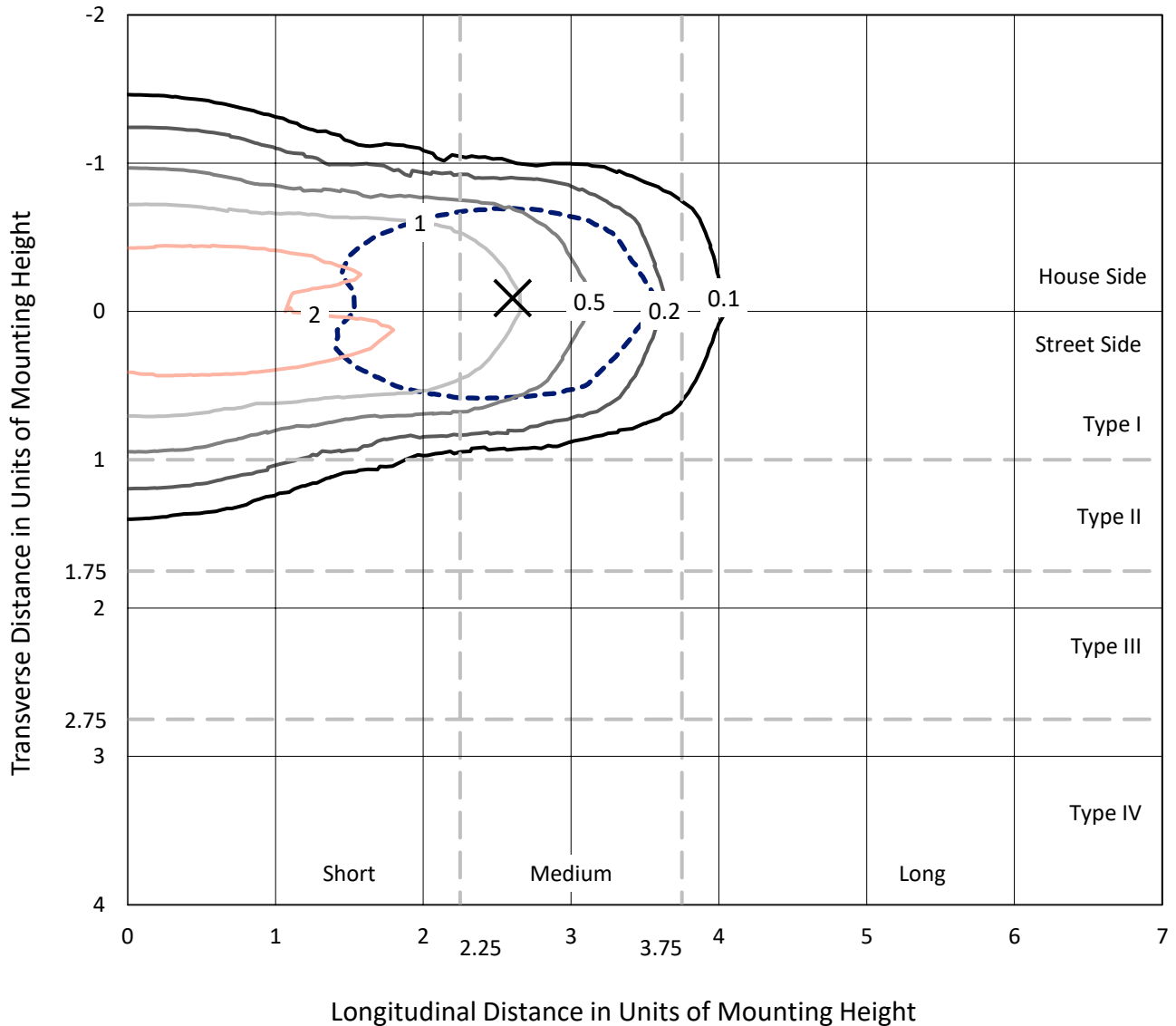
Lumens per Lamp: N/A
Luminaire Lumens: 3753.8 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 32
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: P676198
 CATALOG NUMBER: CCW-SA-1C-840-U-T1

Iso-Footcandle Lines of Horizontal Illumination

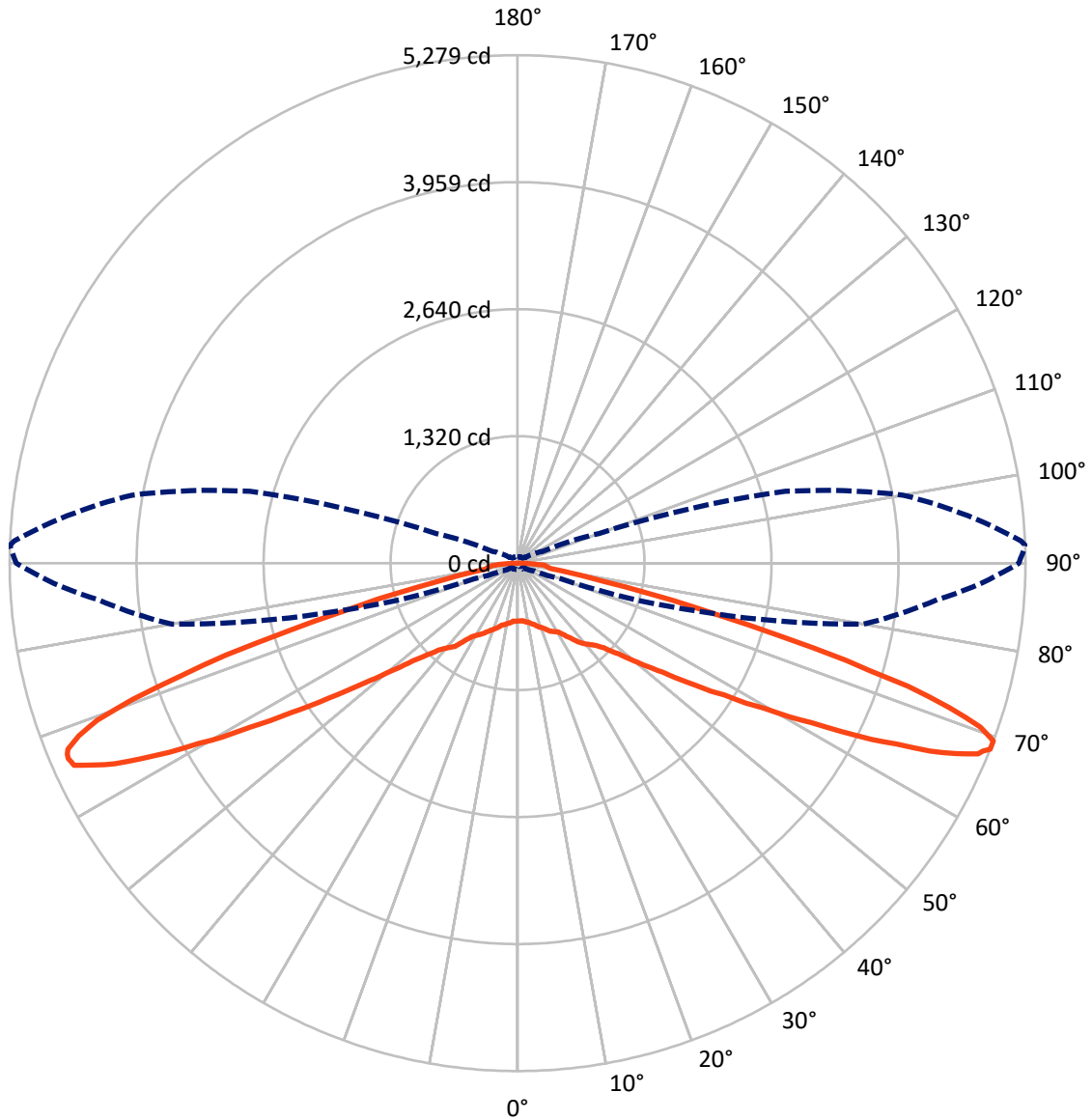
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type I - Short - N/A

REPORT NUMBER: P676198
CATALOG NUMBER: CCW-SA-1C-840-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676198
 CATALOG NUMBER: CCW-SA-1C-840-U-T1

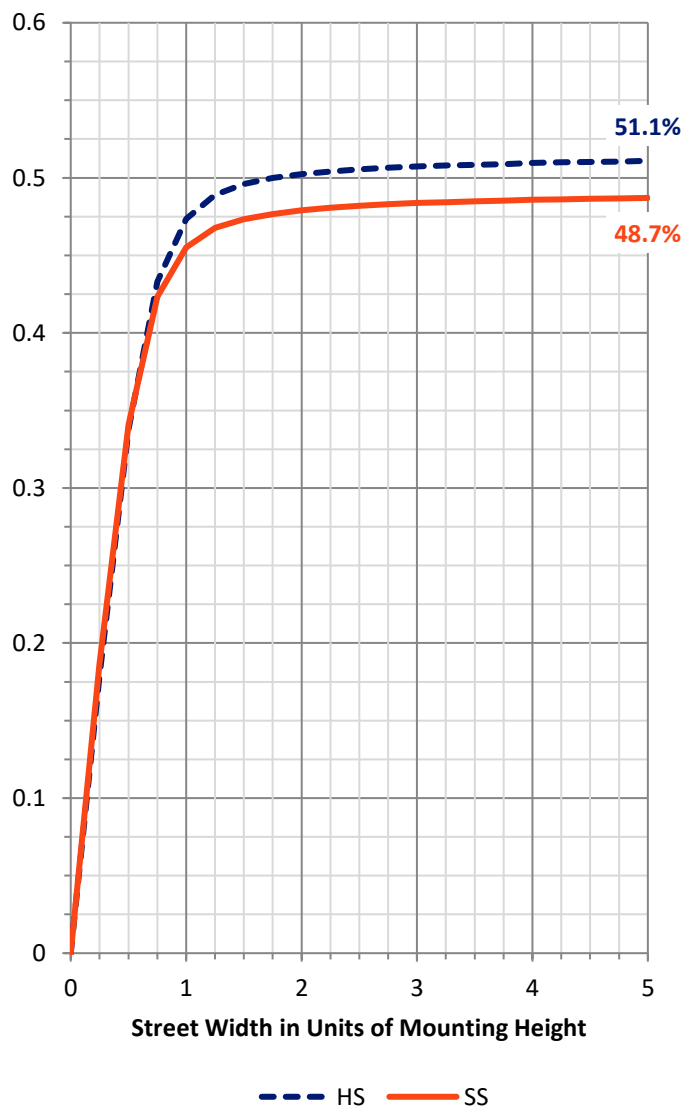
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1933.1	0.0	1933.1
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	1820.6	0.0	1820.6
	% Fixture	48.5	0.0	48.5
Total	Lumens	3753.8	0.0	3753.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	1.6
10°-20°	194.7	5.2
20°-30°	332.3	8.9
30°-40°	464.0	12.4
40°-50°	590.2	15.7
50°-60°	746.3	19.9
60°-70°	920.4	24.5
70°-80°	402.1	10.7
80°-90°	43.6	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°	3753.8	100.0
0°-180°	3753.8	100.0



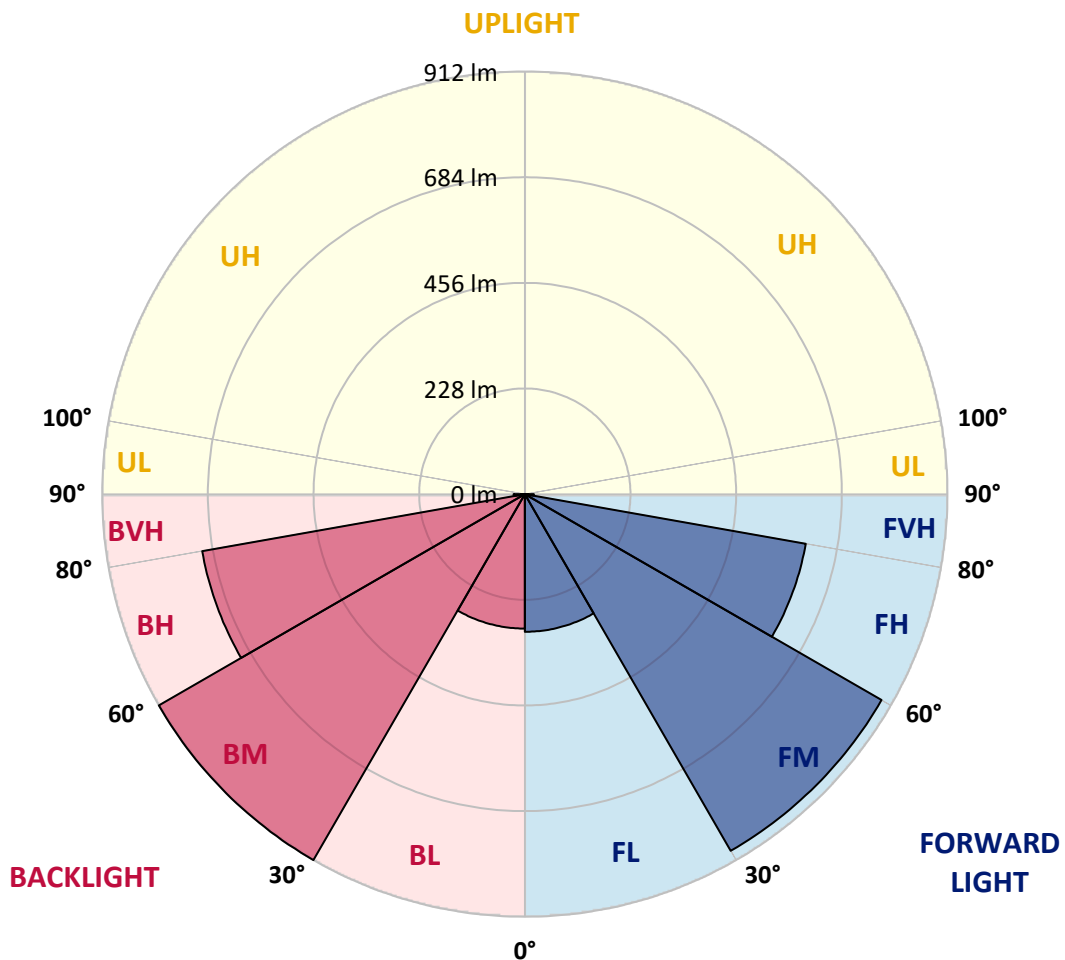
REPORT NUMBER: P676198
 CATALOG NUMBER: CCW-SA-1C-840-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.1	7.9			
FM (30°-60°)	888.7	23.7			
FH (60°-80°)	615.5	16.4			G0/660
FVH (80°-90°)	19.3	0.5			G1/100
BL (0°-30°)	290.1	7.7	B1/500		
BM (30°-60°)	911.9	24.3	B1/1000		
BH (60°-80°)	706.9	18.8	B2/1000		G2/1000
BVH (80°-90°)	24.3	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: P676198
 CATALOG NUMBER: CCW-SA-1C-840-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3
2.5°	612.9	612.2	614.3	615.8	609.4	611.5	610.1	608.7	603.8	601.7	597.4
5°	629.8	632.0	639.0	632.7	635.5	632.0	620.7	624.2	617.9	616.5	612.2
7.5°	659.4	655.2	665.1	658.0	660.1	653.1	648.2	641.8	640.4	630.5	631.3
10°	665.8	674.2	678.5	677.0	678.5	682.0	672.8	663.0	649.6	646.8	636.9
12.5°	661.5	669.3	680.6	689.7	696.1	697.5	694.0	691.8	686.2	670.0	669.3
15°	657.3	651.7	658.7	690.4	711.6	725.7	730.6	718.6	720.0	698.9	690.4
17.5°	629.1	620.7	648.2	679.2	705.2	736.2	760.2	756.7	756.7	739.8	727.8
20°	591.8	605.9	620.0	659.4	707.3	753.8	799.6	797.5	789.1	784.1	758.1
22.5°	560.1	566.4	592.5	634.1	694.0	758.8	813.0	851.8	832.0	812.3	796.8
25°	538.3	532.6	565.7	608.7	681.3	750.3	838.4	878.5	889.1	874.3	844.7
27.5°	507.3	507.3	533.3	574.2	640.4	746.1	863.0	924.3	939.8	918.0	875.0
30°	472.0	476.3	498.8	545.3	610.1	715.1	872.9	977.2	989.9	970.8	926.5
32.5°	444.6	444.6	469.9	519.2	589.0	701.0	866.6	1029.3	1053.3	1039.2	993.4
35°	415.0	412.9	431.2	485.4	555.2	673.5	864.5	1070.9	1124.4	1125.1	1077.2
37.5°	372.7	381.1	404.4	447.4	528.4	646.8	858.1	1120.9	1216.7	1232.9	1199.8
40°	344.5	348.0	369.2	416.4	486.8	615.1	849.0	1161.8	1278.0	1333.7	1287.9
42.5°	303.7	308.6	324.8	383.3	446.7	570.0	808.8	1190.6	1365.4	1428.8	1390.0
45°	260.7	263.5	287.4	335.4	403.7	516.4	765.8	1237.1	1449.9	1579.5	1557.0
47.5°	209.2	210.7	231.1	281.1	352.3	462.9	699.6	1235.0	1518.3	1730.3	1793.7
50°	163.4	167.0	182.5	223.3	290.3	397.4	622.8	1218.1	1604.2	1902.2	2026.9
52.5°	130.3	131.0	140.9	173.3	224.0	331.8	540.4	1164.6	1685.2	2070.6	2313.0
55°	107.8	107.8	113.4	133.2	171.9	252.2	443.9	1075.8	1695.1	2256.6	2625.1
56°	103.6	102.2	107.1	124.0	155.0	227.6	398.8	1015.9	1709.2	2342.5	2781.5
57°	97.9	98.6	101.5	113.4	139.5	201.5	348.7	957.4	1699.3	2413.0	2897.0
58°	95.1	93.7	99.3	107.1	123.3	178.9	314.2	888.4	1683.8	2470.8	3065.4
59°	90.9	90.2	93.7	100.7	114.8	159.2	271.9	813.7	1653.5	2545.4	3190.8
60°	89.5	88.8	90.2	95.8	105.7	139.5	239.5	726.4	1572.5	2622.2	3346.5
61°	85.2	86.0	88.8	92.3	100.0	125.4	215.6	636.9	1519.7	2687.1	3518.4
62°	86.0	84.5	86.0	88.8	94.4	115.5	188.8	548.8	1425.3	2760.3	3647.3
63°	81.7	81.0	83.1	86.7	89.5	104.3	164.9	474.1	1318.2	2777.2	3756.5
64°	80.3	79.6	80.3	85.2	86.0	97.9	145.8	405.1	1163.2	2806.1	3896.7
65°	76.8	76.8	78.2	80.3	83.1	92.3	130.3	351.6	1008.9	2730.0	3939.7
66°	74.0	74.7	74.7	78.2	80.3	86.0	119.8	298.7	860.9	2608.9	3981.3
67°	71.9	71.9	72.6	75.4	77.5	81.0	107.8	258.6	726.4	2464.4	3917.2
67.5°	70.5	71.2	71.2	74.0	76.1	81.0	102.9	245.2	649.6	2305.9	3869.3
68°	68.3	69.0	69.0	71.9	74.0	78.2	99.3	224.0	598.8	2203.0	3780.5
69°	66.9	66.2	66.2	69.0	71.9	74.7	92.3	195.9	476.3	1915.6	3650.8
70°	62.7	62.7	64.1	66.2	68.3	71.2	85.2	172.6	403.0	1585.9	3316.9
71°	60.6	59.9	60.6	62.7	64.8	68.3	78.2	152.9	329.7	1316.8	2988.6
72°	56.4	57.8	57.8	59.9	62.0	64.1	73.3	133.2	276.9	1052.6	2627.2
72.5°	55.7	55.7	56.4	58.5	59.9	63.4	70.5	127.5	252.9	927.9	2475.7
73°	53.5	53.5	54.2	56.4	57.8	61.3	68.3	114.8	230.4	825.7	2192.5
74°	51.4	50.7	50.7	53.5	54.2	57.8	64.1	101.5	193.0	622.1	1759.9
75°	47.9	47.9	48.6	50.0	50.7	53.5	59.2	90.2	162.7	482.6	1376.6



REPORT NUMBER: P676198
 CATALOG NUMBER: CCW-SA-1C-840-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	39.5	40.2	40.9	42.3	42.3	44.4	48.6	62.7	99.3	244.5	632.0
80°	28.9	30.3	32.4	34.5	33.8	33.8	38.0	45.1	59.2	109.9	242.4
82.5°	23.2	24.7	22.5	25.4	25.4	24.0	27.5	33.1	40.2	54.2	86.7
85°	15.5	16.2	13.4	15.5	14.8	14.8	18.3	19.7	24.7	30.3	43.0
87.5°	7.0	7.0	5.6	6.3	6.3	6.3	9.2	7.0	10.6	14.8	25.4
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: P676198

CATALOG NUMBER: CCW-SA-1C-840-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3
2.5°	601.7	604.5	604.5	601.7	599.6	601.7	600.3	596.7	600.3	601.7	602.4
5°	610.1	604.5	607.3	601.0	605.2	604.5	603.1	606.6	607.3	607.3	612.2
7.5°	619.3	626.3	617.2	617.9	620.0	611.5	614.3	615.8	612.9	618.6	622.8
10°	635.5	638.3	635.5	624.9	632.0	626.3	624.2	630.5	629.1	630.5	636.9
12.5°	650.3	655.2	647.5	646.8	643.2	638.3	641.1	640.4	650.3	651.7	659.4
15°	680.6	667.9	665.1	664.4	663.0	660.8	662.3	663.0	675.6	677.8	696.1
17.5°	706.6	704.5	689.0	694.7	694.7	686.2	682.7	694.7	704.5	715.1	727.8
20°	733.4	731.3	714.4	715.1	708.8	716.5	712.3	723.5	740.5	744.0	755.3
22.5°	765.1	756.0	744.0	745.4	747.5	741.9	739.0	754.5	771.5	781.3	782.0
25°	815.1	791.9	782.0	783.4	780.6	776.4	778.5	798.2	806.7	827.8	823.6
27.5°	841.9	828.5	821.5	805.3	806.0	799.6	808.1	837.7	854.6	870.8	838.4
30°	874.3	865.9	834.9	829.2	828.5	825.7	841.2	879.2	904.6	913.8	867.3
32.5°	937.7	903.9	896.2	891.2	880.0	883.5	891.2	941.2	981.4	979.3	894.0
35°	1010.3	987.0	965.2	961.0	959.6	949.7	963.1	1021.6	1052.6	1043.4	903.9
37.5°	1126.5	1091.3	1061.7	1045.5	1042.7	1035.7	1067.4	1113.9	1154.0	1118.1	911.7
40°	1183.6	1144.1	1116.7	1106.8	1108.9	1118.8	1149.8	1220.9	1238.6	1172.3	918.0
42.5°	1265.3	1222.4	1168.1	1163.2	1156.8	1161.8	1221.6	1317.5	1332.3	1245.6	894.0
45°	1410.5	1345.6	1282.9	1254.8	1256.2	1269.6	1362.6	1467.5	1440.0	1296.3	856.0
47.5°	1593.6	1498.5	1447.8	1409.8	1428.1	1413.3	1561.2	1645.1	1551.4	1360.4	809.5
50°	1869.1	1735.9	1666.9	1621.1	1628.9	1641.5	1791.6	1862.8	1674.7	1391.4	738.3
52.5°	2216.4	2045.2	1943.8	1882.5	1888.1	1915.6	2109.3	2087.5	1815.6	1417.5	643.2
55°	2632.1	2456.0	2259.4	2234.0	2227.7	2293.2	2506.7	2322.8	1942.4	1375.9	544.6
56°	2851.9	2664.5	2460.2	2408.1	2392.6	2438.4	2689.2	2440.5	1986.1	1329.4	497.4
57°	3038.6	2859.7	2635.6	2546.9	2566.6	2652.5	2870.2	2551.1	2026.2	1281.5	453.0
58°	3295.1	3090.8	2854.0	2786.4	2768.8	2837.1	3065.4	2662.4	2039.6	1232.2	412.1
59°	3550.8	3305.6	3092.2	2968.9	2973.8	3098.5	3257.7	2794.9	2060.0	1169.5	360.0
60°	3745.3	3622.0	3336.6	3244.3	3231.7	3412.0	3449.4	2883.6	2081.9	1085.0	323.4
61°	4020.7	3860.1	3594.5	3475.4	3509.9	3654.4	3656.5	2994.9	2049.5	977.9	278.3
62°	4218.7	4176.4	3897.4	3784.0	3773.4	3965.1	3872.1	3092.9	2021.3	876.4	245.9
63°	4450.5	4450.5	4196.2	4107.4	4112.3	4263.8	3965.8	3190.8	1988.9	764.4	216.3
64°	4571.0	4722.4	4487.8	4363.1	4395.5	4526.6	4132.7	3254.9	1888.8	651.0	190.2
65°	4675.2	4902.8	4772.5	4714.7	4665.4	4742.9	4277.2	3314.8	1735.9	553.8	169.1
66°	4763.3	5072.6	5029.6	4967.6	4962.7	4945.1	4305.4	3312.7	1578.1	467.8	148.0
67°	4718.9	5076.1	5154.3	5180.4	5172.6	4986.6	4256.0	3237.3	1375.9	395.2	131.7
67.5°	4678.8	5047.2	5229.0	5214.2	5246.6	5021.9	4264.5	3145.0	1232.2	357.9	124.0
68°	4643.5	5008.5	5259.3	5278.3	5262.1	5026.1	4218.0	3071.7	1134.3	336.1	117.0
69°	4376.5	4824.6	5210.7	5279.0	5237.4	4864.7	4070.0	2880.8	901.1	286.7	107.8
70°	4108.8	4586.5	4974.7	5100.1	5048.6	4552.6	3883.3	2577.2	743.3	245.2	97.2
71°	3738.2	4144.0	4660.4	4735.8	4673.8	4197.6	3497.3	2256.6	578.4	207.8	86.7
72°	3235.2	3579.7	4072.9	4255.3	4163.7	3686.8	3107.0	1864.9	468.5	174.7	78.9
72.5°	2985.8	3338.7	3814.3	3829.1	3846.7	3464.9	2941.4	1638.0	408.6	162.0	76.8
73°	2749.1	3095.0	3506.4	3558.6	3483.9	3090.8	2694.1	1464.7	373.4	148.0	74.0
74°	2227.7	2425.0	2766.0	2816.7	2751.2	2520.1	2201.6	1123.0	297.3	127.5	67.6
75°	1752.9	1861.4	2169.9	2138.9	2041.0	1960.0	1707.1	858.1	240.9	112.0	62.7



REPORT NUMBER: P676198
 CATALOG NUMBER: CCW-SA-1C-840-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	787.7	853.2	904.6	904.6	910.2	868.7	787.0	393.8	148.7	81.0	51.4
80°	300.1	336.1	347.3	348.0	353.0	365.6	340.3	193.7	88.1	57.8	41.6
82.5°	217.7	304.4	327.6	310.7	312.1	281.8	130.3	86.0	55.7	40.2	30.3
85°	197.3	264.9	280.4	278.3	279.0	260.7	76.8	42.3	32.4	25.4	21.1
87.5°	95.8	93.7	99.3	112.0	109.2	141.6	64.8	21.1	14.1	10.6	10.6
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: P676198

CATALOG NUMBER: CCW-SA-1C-840-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	600.3	600.3	600.3	600.3	600.3	600.3
2.5°	596.7	596.0	605.9	596.0	601.7	597.4
5°	603.8	606.6	608.7	612.9	603.1	612.9
7.5°	624.9	627.7	628.4	632.0	627.7	627.0
10°	641.1	648.2	652.4	638.3	646.8	646.0
12.5°	672.8	665.8	665.1	662.3	654.5	651.7
15°	695.4	684.8	678.5	667.2	658.0	654.5
17.5°	727.1	706.6	680.6	657.3	641.1	628.4
20°	746.8	710.2	658.0	630.5	605.9	611.5
22.5°	759.5	706.6	637.6	602.4	577.7	584.8
25°	763.7	689.0	623.5	579.8	555.9	550.9
27.5°	751.7	668.6	596.0	546.7	525.6	529.8
30°	746.1	639.0	570.7	522.1	493.9	498.1
32.5°	731.3	608.7	536.8	487.5	467.1	460.1
35°	710.2	583.3	504.4	457.9	433.3	427.6
37.5°	684.1	551.6	476.3	419.9	398.1	393.8
40°	645.3	513.6	435.4	386.8	361.4	360.7
42.5°	611.5	477.0	397.4	347.3	322.0	323.4
45°	568.6	427.6	353.7	310.7	285.3	286.7
47.5°	513.6	381.9	312.1	264.2	243.1	241.7
50°	448.8	329.7	261.4	220.5	202.9	199.4
52.5°	386.8	276.9	214.2	177.5	162.7	161.3
55°	308.6	215.6	167.0	139.5	128.2	128.9
56°	280.4	198.7	152.2	127.5	119.1	119.1
57°	253.6	176.1	138.1	117.7	109.9	109.9
58°	224.0	155.0	125.4	106.4	102.9	100.0
59°	203.6	140.9	113.4	100.7	95.1	94.4
60°	179.7	126.8	105.7	94.4	90.2	89.5
61°	159.2	114.1	97.2	88.1	86.7	86.7
62°	142.3	105.7	90.2	85.2	84.5	82.4
63°	127.5	97.2	86.7	81.0	78.9	81.0
64°	114.1	89.5	83.8	79.6	76.8	78.2
65°	103.6	86.0	80.3	77.5	74.7	75.4
66°	96.5	80.3	77.5	74.0	72.6	73.3
67°	87.4	77.5	74.7	71.2	70.5	71.2
67.5°	84.5	75.4	73.3	69.7	69.0	69.7
68°	82.4	74.0	72.6	69.0	68.3	67.6
69°	76.8	71.2	69.0	67.6	66.2	65.5
70°	71.9	68.3	66.9	64.8	63.4	62.7
71°	69.0	64.8	64.1	62.0	60.6	59.9
72°	65.5	62.7	61.3	58.5	57.8	58.5
72.5°	64.8	61.3	60.6	57.8	57.1	57.1
73°	62.7	58.5	59.2	56.4	55.0	56.4
74°	58.5	57.1	55.7	53.5	52.8	52.8
75°	55.0	53.5	52.1	50.7	50.7	50.7



REPORT NUMBER: P676198
CATALOG NUMBER: CCW-SA-1C-840-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	46.5	45.8	46.5	43.7	43.0	42.3
80°	37.3	37.3	38.0	35.9	34.5	33.8
82.5°	28.2	28.9	30.3	28.2	26.8	25.4
85°	18.3	19.0	19.0	16.9	19.7	18.3
87.5°	9.2	9.9	9.2	8.5	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)