

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: P676110

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676110
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-730-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T1 distribution lens
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

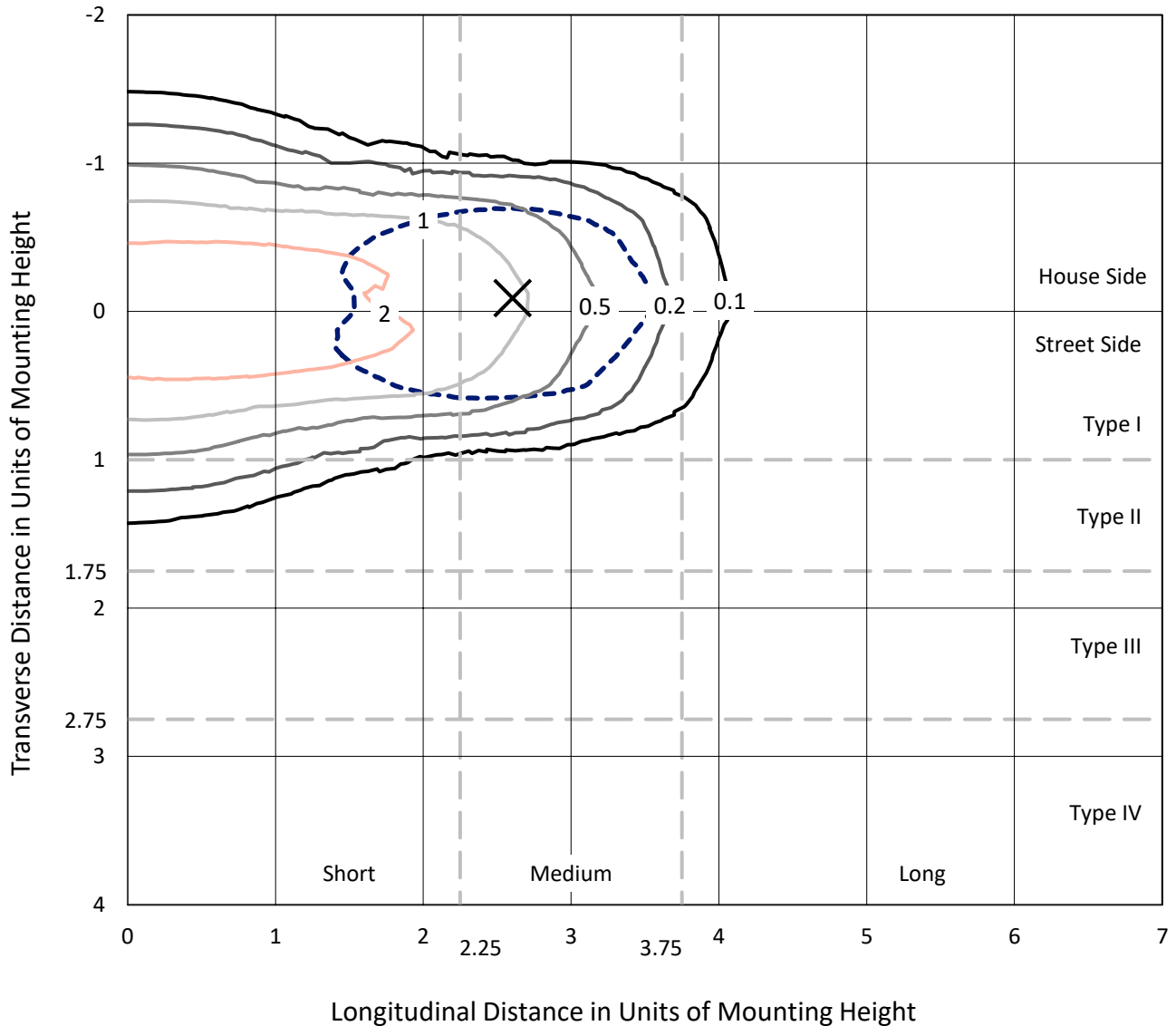
Lumens per Lamp: N/A
Luminaire Lumens: 4009.1 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

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: P676110
 CATALOG NUMBER: CCW-SA-1C-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination

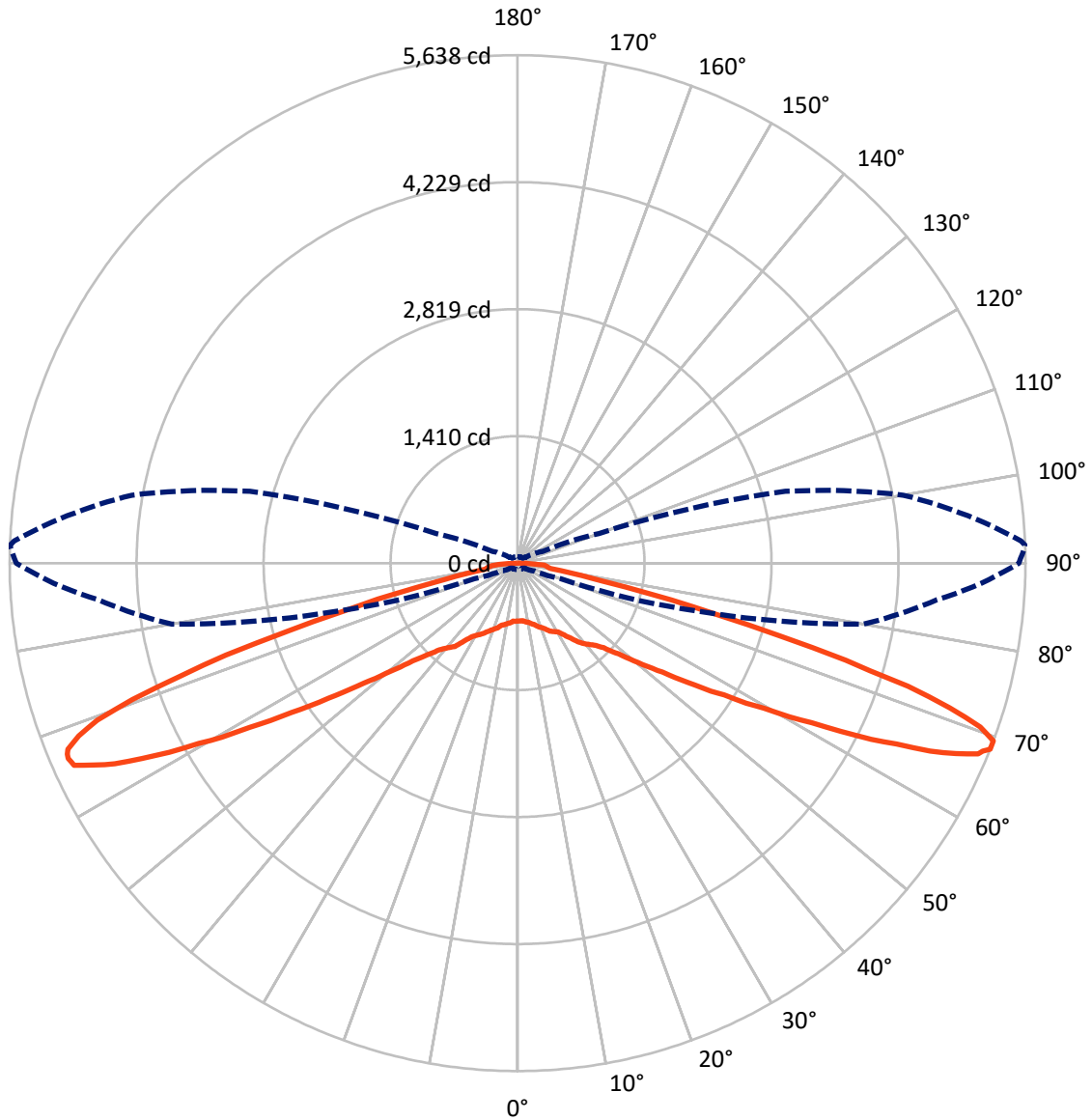
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
 Type I - Short - N/A

REPORT NUMBER: P676110
CATALOG NUMBER: CCW-SA-1C-730-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676110
 CATALOG NUMBER: CCW-SA-1C-730-U-T1

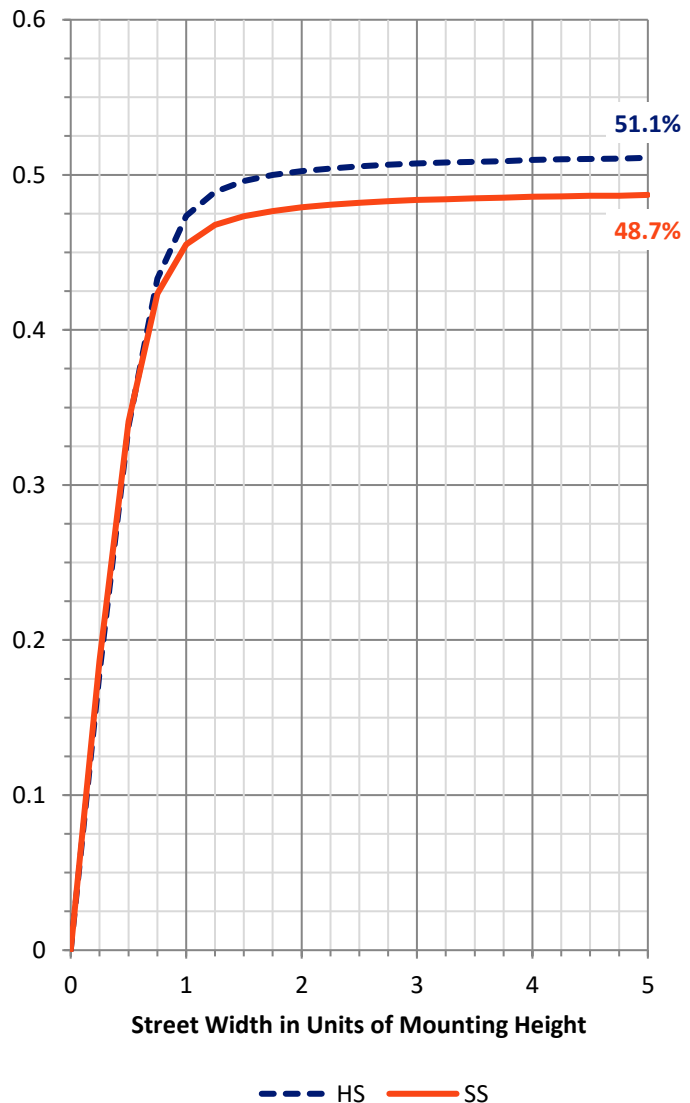
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2064.6	0.0	2064.6
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	1944.5	0.0	1944.5
	% Fixture	48.5	0.0	48.5
Total	Lumens	4009.1	0.0	4009.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	1.6
10°-20°	208.0	5.2
20°-30°	354.9	8.9
30°-40°	495.6	12.4
40°-50°	630.4	15.7
50°-60°	797.1	19.9
60°-70°	983.0	24.5
70°-80°	429.4	10.7
80°-90°	46.6	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°	4009.1	100.0
0°-180°	4009.1	100.0



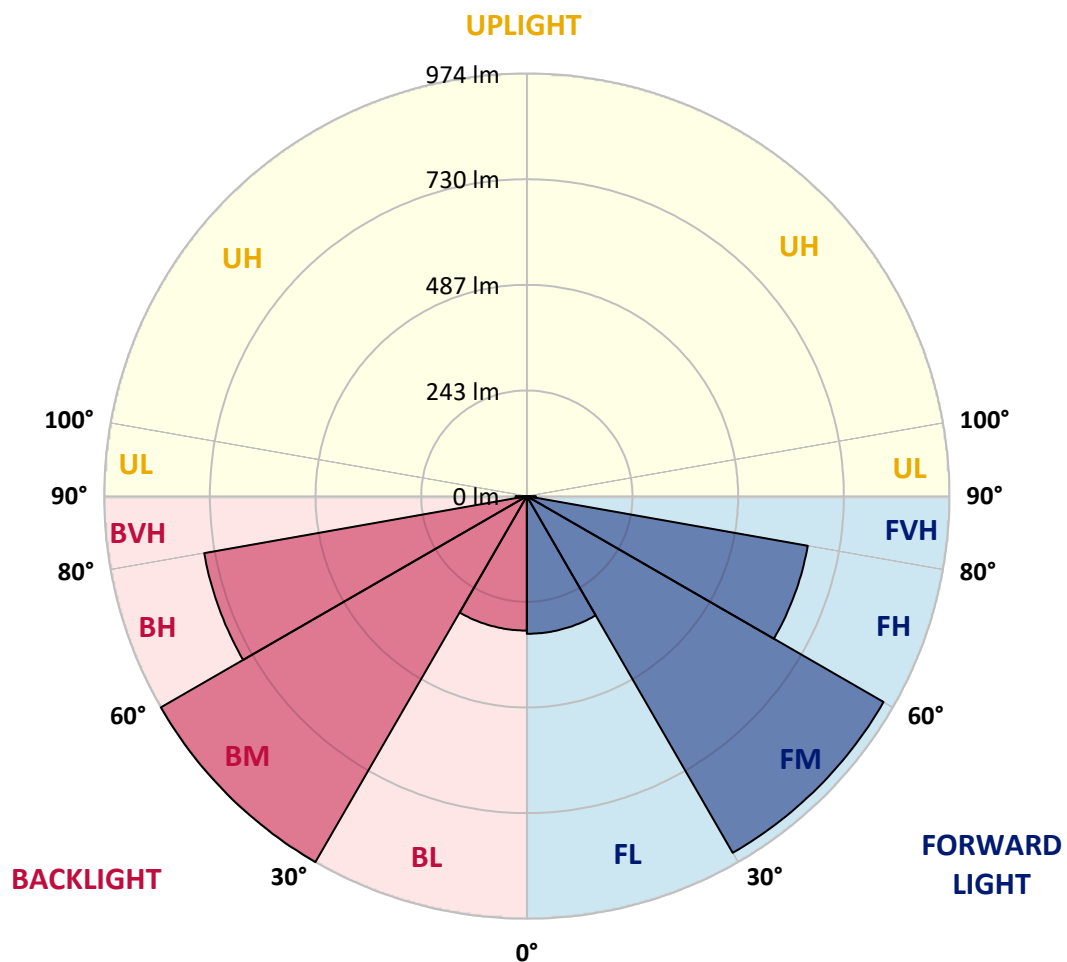
REPORT NUMBER: P676110
 CATALOG NUMBER: CCW-SA-1C-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	317.3	7.9			
FM (30°-60°)	949.1	23.7			
FH (60°-80°)	657.4	16.4			G0/660
FVH (80°-90°)	20.7	0.5			G1/100
BL (0°-30°)	309.8	7.7	B1/500		
BM (30°-60°)	973.9	24.3	B1/1000		
BH (60°-80°)	755.0	18.8	B2/1000		G2/1000
BVH (80°-90°)	25.9	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: P676110
 CATALOG NUMBER: CCW-SA-1C-730-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1
2.5°	654.6	653.9	656.1	657.6	650.9	653.1	651.6	650.1	644.9	642.6	638.1
5°	672.7	674.9	682.5	675.7	678.7	674.9	662.9	666.7	659.9	658.4	653.9
7.5°	704.3	699.8	710.3	702.8	705.0	697.5	692.3	685.5	684.0	673.4	674.2
10°	711.1	720.1	724.6	723.1	724.6	728.4	718.6	708.1	693.8	690.8	680.2
12.5°	706.6	714.8	726.9	736.7	743.4	744.9	741.2	738.9	732.9	715.6	714.8
15°	702.0	696.0	703.5	737.4	760.0	775.0	780.3	767.5	769.0	746.4	737.4
17.5°	671.9	662.9	692.3	725.4	753.2	786.3	811.9	808.1	808.1	790.1	777.3
20°	632.1	647.1	662.2	704.3	755.5	805.1	854.0	851.8	842.7	837.5	809.6
22.5°	598.2	605.0	632.8	677.2	741.2	810.4	868.3	909.7	888.6	867.6	851.0
25°	574.9	568.9	604.2	650.1	727.6	801.4	895.4	938.3	949.6	933.8	902.2
27.5°	541.8	541.8	569.6	613.2	684.0	796.8	921.8	987.2	1003.8	980.4	934.5
30°	504.1	508.7	532.7	582.4	651.6	763.7	932.3	1043.7	1057.2	1036.9	989.5
32.5°	474.8	474.8	501.9	554.6	629.0	748.7	925.5	1099.3	1124.9	1109.9	1061.0
35°	443.2	440.9	460.5	518.4	592.9	719.3	923.3	1143.7	1200.9	1201.7	1150.5
37.5°	398.0	407.1	431.9	477.8	564.3	690.8	916.5	1197.2	1299.5	1316.8	1281.4
40°	367.9	371.7	394.3	444.7	519.9	656.9	906.7	1240.8	1364.9	1424.4	1375.5
42.5°	324.3	329.6	346.9	409.3	477.1	608.7	863.8	1271.6	1458.3	1526.0	1484.6
45°	278.4	281.4	307.0	358.2	431.2	551.5	817.9	1321.3	1548.5	1687.0	1662.9
47.5°	223.5	225.0	246.8	300.2	376.2	494.4	747.2	1319.0	1621.5	1848.0	1915.7
50°	174.6	178.3	194.9	238.5	310.0	424.4	665.2	1301.0	1713.3	2031.6	2164.8
52.5°	139.2	140.0	150.5	185.1	239.3	354.4	577.1	1243.8	1799.9	2211.5	2470.3
55°	115.1	115.1	121.1	142.2	183.6	269.4	474.0	1149.0	1810.4	2410.1	2803.6
56°	110.6	109.1	114.4	132.4	165.5	243.0	425.9	1085.0	1825.4	2501.9	2970.7
57°	104.6	105.3	108.4	121.1	149.0	215.2	372.5	1022.6	1814.9	2577.1	3094.1
58°	101.6	100.1	106.1	114.4	131.7	191.1	335.6	948.8	1798.4	2638.8	3273.9
59°	97.1	96.3	100.1	107.6	122.6	170.1	290.4	869.1	1766.0	2718.6	3407.9
60°	95.6	94.8	96.3	102.3	112.9	149.0	255.8	775.8	1679.5	2800.6	3574.1
61°	91.0	91.8	94.8	98.6	106.8	133.9	230.3	680.2	1623.0	2869.9	3757.7
62°	91.8	90.3	91.8	94.8	100.8	123.4	201.7	586.2	1522.2	2948.1	3895.4
63°	87.3	86.5	88.8	92.6	95.6	111.4	176.1	506.4	1407.8	2966.2	4012.1
64°	85.8	85.0	85.8	91.0	91.8	104.6	155.8	432.7	1242.3	2997.0	4161.8
65°	82.0	82.0	83.5	85.8	88.8	98.6	139.2	375.5	1077.5	2915.8	4207.7
66°	79.0	79.8	79.8	83.5	85.8	91.8	127.9	319.0	919.5	2786.3	4252.1
67°	76.8	76.8	77.5	80.5	82.8	86.5	115.1	276.1	775.8	2632.1	4183.6
67.5°	75.2	76.0	76.0	79.0	81.3	86.5	109.9	261.9	693.8	2462.8	4132.5
68°	73.0	73.7	73.7	76.8	79.0	83.5	106.1	239.3	639.6	2352.9	4037.7
69°	71.5	70.7	70.7	73.7	76.8	79.8	98.6	209.2	508.7	2045.9	3899.2
70°	67.0	67.0	68.5	70.7	73.0	76.0	91.0	184.4	430.4	1693.8	3542.5
71°	64.7	64.0	64.7	67.0	69.2	73.0	83.5	163.3	352.1	1406.3	3191.9
72°	60.2	61.7	61.7	64.0	66.2	68.5	78.3	142.2	295.7	1124.2	2805.9
72.5°	59.4	59.4	60.2	62.5	64.0	67.7	75.2	136.2	270.1	991.0	2644.1
73°	57.2	57.2	57.9	60.2	61.7	65.5	73.0	122.6	246.1	881.9	2341.6
74°	54.9	54.2	54.2	57.2	57.9	61.7	68.5	108.4	206.2	664.4	1879.6
75°	51.2	51.2	51.9	53.4	54.2	57.2	63.2	96.3	173.8	515.4	1470.3



REPORT NUMBER: P676110
 CATALOG NUMBER: CCW-SA-1C-730-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	42.1	42.9	43.6	45.1	45.1	47.4	51.9	67.0	106.1	261.1	674.9
80°	30.9	32.4	34.6	36.9	36.1	36.1	40.6	48.2	63.2	117.4	258.8
82.5°	24.8	26.3	24.1	27.1	27.1	25.6	29.3	35.4	42.9	57.9	92.6
85°	16.6	17.3	14.3	16.6	15.8	15.8	19.6	21.1	26.3	32.4	45.9
87.5°	7.5	7.5	6.0	6.8	6.8	6.8	9.8	7.5	11.3	15.8	27.1
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: P676110

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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1
2.5°	642.6	645.6	645.6	642.6	640.3	642.6	641.1	637.3	641.1	642.6	643.3
5°	651.6	645.6	648.6	641.8	646.4	645.6	644.1	647.9	648.6	648.6	653.9
7.5°	661.4	668.9	659.1	659.9	662.2	653.1	656.1	657.6	654.6	660.7	665.2
10°	678.7	681.7	678.7	667.4	674.9	668.9	666.7	673.4	671.9	673.4	680.2
12.5°	694.5	699.8	691.5	690.8	687.0	681.7	684.7	684.0	694.5	696.0	704.3
15°	726.9	713.3	710.3	709.6	708.1	705.8	707.3	708.1	721.6	723.9	743.4
17.5°	754.7	752.5	735.9	741.9	741.9	732.9	729.1	741.9	752.5	763.7	777.3
20°	783.3	781.0	763.0	763.7	757.0	765.2	760.7	772.8	790.8	794.6	806.6
22.5°	817.2	807.4	794.6	796.1	798.4	792.3	789.3	805.9	823.9	834.5	835.2
25°	870.6	845.8	835.2	836.7	833.7	829.2	831.5	852.5	861.6	884.1	879.6
27.5°	899.2	884.9	877.4	860.1	860.8	854.0	863.1	894.7	912.7	930.0	895.4
30°	933.8	924.8	891.7	885.6	884.9	881.9	898.4	939.1	966.1	975.9	926.3
32.5°	1001.5	965.4	957.1	951.9	939.8	943.6	951.9	1005.3	1048.2	1045.9	954.9
35°	1079.0	1054.2	1030.9	1026.3	1024.8	1014.3	1028.6	1091.1	1124.2	1114.4	965.4
37.5°	1203.2	1165.5	1133.9	1116.6	1113.6	1106.1	1140.0	1189.6	1232.5	1194.1	973.7
40°	1264.1	1222.0	1192.6	1182.1	1184.4	1194.9	1228.0	1304.0	1322.8	1252.1	980.4
42.5°	1351.4	1305.5	1247.6	1242.3	1235.5	1240.8	1304.8	1407.1	1422.9	1330.3	954.9
45°	1506.4	1437.2	1370.2	1340.1	1341.6	1355.9	1455.2	1567.4	1538.0	1384.5	914.2
47.5°	1702.0	1600.5	1546.3	1505.7	1525.2	1509.4	1667.4	1757.0	1656.9	1453.0	864.6
50°	1996.3	1854.0	1780.3	1731.4	1739.7	1753.2	1913.5	1989.5	1788.6	1486.1	788.6
52.5°	2367.2	2184.4	2076.0	2010.6	2016.6	2045.9	2252.8	2229.5	1939.1	1513.9	687.0
55°	2811.2	2623.0	2413.1	2386.0	2379.3	2449.2	2677.2	2480.8	2074.5	1469.5	581.6
56°	3045.9	2845.8	2627.6	2571.9	2555.3	2604.2	2872.1	2606.5	2121.2	1419.9	531.2
57°	3245.3	3054.2	2814.9	2720.1	2741.2	2833.0	3065.5	2724.6	2164.1	1368.7	483.8
58°	3519.2	3301.0	3048.2	2975.9	2957.1	3030.1	3273.9	2843.5	2178.3	1316.0	440.2
59°	3792.4	3530.5	3302.5	3170.8	3176.1	3309.3	3479.3	2985.0	2200.2	1249.1	384.5
60°	4000.0	3868.4	3563.6	3465.0	3451.5	3644.1	3684.0	3079.8	2223.5	1158.8	345.4
61°	4294.2	4122.7	3839.0	3711.8	3748.7	3903.0	3905.2	3198.7	2188.9	1044.4	297.2
62°	4505.7	4460.5	4162.6	4041.4	4030.1	4234.8	4135.5	3303.3	2158.8	936.1	262.6
63°	4753.2	4753.2	4481.6	4386.8	4392.1	4553.8	4235.6	3407.9	2124.2	816.4	231.0
64°	4881.9	5043.7	4793.1	4659.9	4694.5	4834.5	4413.9	3476.3	2017.3	695.3	203.2
65°	4993.3	5236.3	5097.1	5035.4	4982.7	5065.5	4568.1	3540.3	1854.0	591.4	180.6
66°	5087.3	5417.7	5371.8	5305.5	5300.3	5281.5	4598.2	3538.0	1685.5	499.6	158.0
67°	5039.9	5421.4	5504.9	5532.8	5524.5	5325.9	4545.6	3457.5	1469.5	422.1	140.7
67.5°	4997.0	5390.6	5584.7	5568.9	5603.5	5363.5	4554.6	3358.9	1316.0	382.2	132.4
68°	4959.4	5349.2	5617.1	5637.4	5620.1	5368.0	4504.9	3280.7	1211.4	358.9	124.9
69°	4674.2	5152.8	5565.1	5638.1	5593.7	5195.7	4346.9	3076.8	962.4	306.2	115.1
70°	4388.3	4898.5	5313.1	5447.0	5392.1	4862.3	4147.5	2752.5	793.8	261.9	103.8
71°	3992.5	4425.9	4977.5	5058.0	4991.8	4483.1	3735.2	2410.1	617.8	222.0	92.6
72°	3455.3	3823.2	4349.9	4544.8	4447.0	3937.6	3318.3	1991.7	500.4	186.6	84.3
72.5°	3188.9	3565.9	4073.8	4089.6	4108.4	3700.6	3141.5	1749.5	436.4	173.1	82.0
73°	2936.1	3305.5	3745.0	3800.6	3720.9	3301.0	2877.4	1564.3	398.8	158.0	79.0
74°	2379.3	2589.9	2954.1	3008.3	2938.3	2691.5	2351.4	1199.4	317.5	136.2	72.2
75°	1872.1	1988.0	2317.6	2284.4	2179.9	2093.3	1823.2	916.5	257.3	119.6	67.0



REPORT NUMBER: P676110
 CATALOG NUMBER: CCW-SA-1C-730-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	841.2	911.2	966.1	966.1	972.2	927.8	840.5	420.6	158.8	86.5	54.9
80°	320.5	358.9	371.0	371.7	377.0	390.5	363.4	206.9	94.1	61.7	44.4
82.5°	232.5	325.1	349.9	331.8	333.3	301.0	139.2	91.8	59.4	42.9	32.4
85°	210.7	282.9	299.5	297.2	298.0	278.4	82.0	45.1	34.6	27.1	22.6
87.5°	102.3	100.1	106.1	119.6	116.6	151.2	69.2	22.6	15.0	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	641.1	641.1	641.1	641.1	641.1	641.1
2.5°	637.3	636.6	647.1	636.6	642.6	638.1
5°	644.9	647.9	650.1	654.6	644.1	654.6
7.5°	667.4	670.4	671.2	674.9	670.4	669.7
10°	684.7	692.3	696.8	681.7	690.8	690.0
12.5°	718.6	711.1	710.3	707.3	699.0	696.0
15°	742.7	731.4	724.6	712.6	702.8	699.0
17.5°	776.5	754.7	726.9	702.0	684.7	671.2
20°	797.6	758.5	702.8	673.4	647.1	653.1
22.5°	811.1	754.7	681.0	643.3	617.0	624.5
25°	815.7	735.9	665.9	619.3	593.7	588.4
27.5°	802.9	714.1	636.6	583.9	561.3	565.8
30°	796.8	682.5	609.5	557.6	527.5	532.0
32.5°	781.0	650.1	573.4	520.7	498.9	491.4
35°	758.5	623.0	538.8	489.1	462.8	456.7
37.5°	730.6	589.2	508.7	448.5	425.1	420.6
40°	689.2	548.5	465.0	413.1	386.0	385.3
42.5°	653.1	509.4	424.4	371.0	343.9	345.4
45°	607.2	456.7	377.7	331.8	304.7	306.2
47.5°	548.5	407.8	333.3	282.2	259.6	258.1
50°	479.3	352.1	279.2	235.5	216.7	212.9
52.5°	413.1	295.7	228.7	189.6	173.8	172.3
55°	329.6	230.3	178.3	149.0	136.9	137.7
56°	299.5	212.2	162.5	136.2	127.2	127.2
57°	270.9	188.1	147.5	125.7	117.4	117.4
58°	239.3	165.5	133.9	113.6	109.9	106.8
59°	217.5	150.5	121.1	107.6	101.6	100.8
60°	191.9	135.4	112.9	100.8	96.3	95.6
61°	170.1	121.9	103.8	94.1	92.6	92.6
62°	152.0	112.9	96.3	91.0	90.3	88.0
63°	136.2	103.8	92.6	86.5	84.3	86.5
64°	121.9	95.6	89.5	85.0	82.0	83.5
65°	110.6	91.8	85.8	82.8	79.8	80.5
66°	103.1	85.8	82.8	79.0	77.5	78.3
67°	93.3	82.8	79.8	76.0	75.2	76.0
67.5°	90.3	80.5	78.3	74.5	73.7	74.5
68°	88.0	79.0	77.5	73.7	73.0	72.2
69°	82.0	76.0	73.7	72.2	70.7	70.0
70°	76.8	73.0	71.5	69.2	67.7	67.0
71°	73.7	69.2	68.5	66.2	64.7	64.0
72°	70.0	67.0	65.5	62.5	61.7	62.5
72.5°	69.2	65.5	64.7	61.7	60.9	60.9
73°	67.0	62.5	63.2	60.2	58.7	60.2
74°	62.5	60.9	59.4	57.2	56.4	56.4
75°	58.7	57.2	55.7	54.2	54.2	54.2



REPORT NUMBER: P676110
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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	49.7	48.9	49.7	46.7	45.9	45.1
80°	39.9	39.9	40.6	38.4	36.9	36.1
82.5°	30.1	30.9	32.4	30.1	28.6	27.1
85°	19.6	20.3	20.3	18.1	21.1	19.6
87.5°	9.8	10.5	9.8	9.0	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)