

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: P676101

Luminaire Tested: **CCW-SA-1E-727-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676101
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-727-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T1 distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

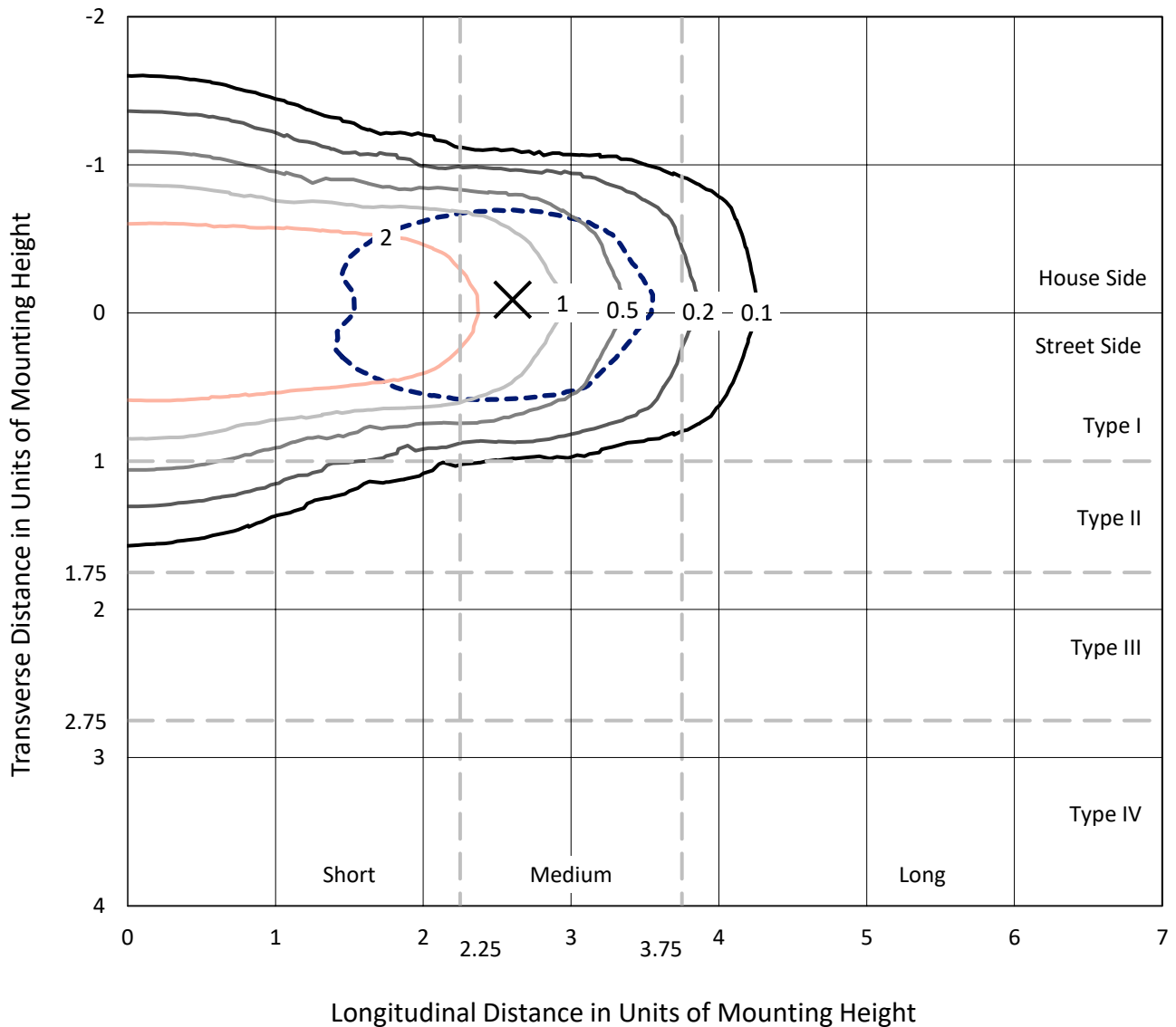
Lumens per Lamp: N/A
Luminaire Lumens: 5567.9 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 56.1
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

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Iso-Footcandle Lines of Horizontal Illumination

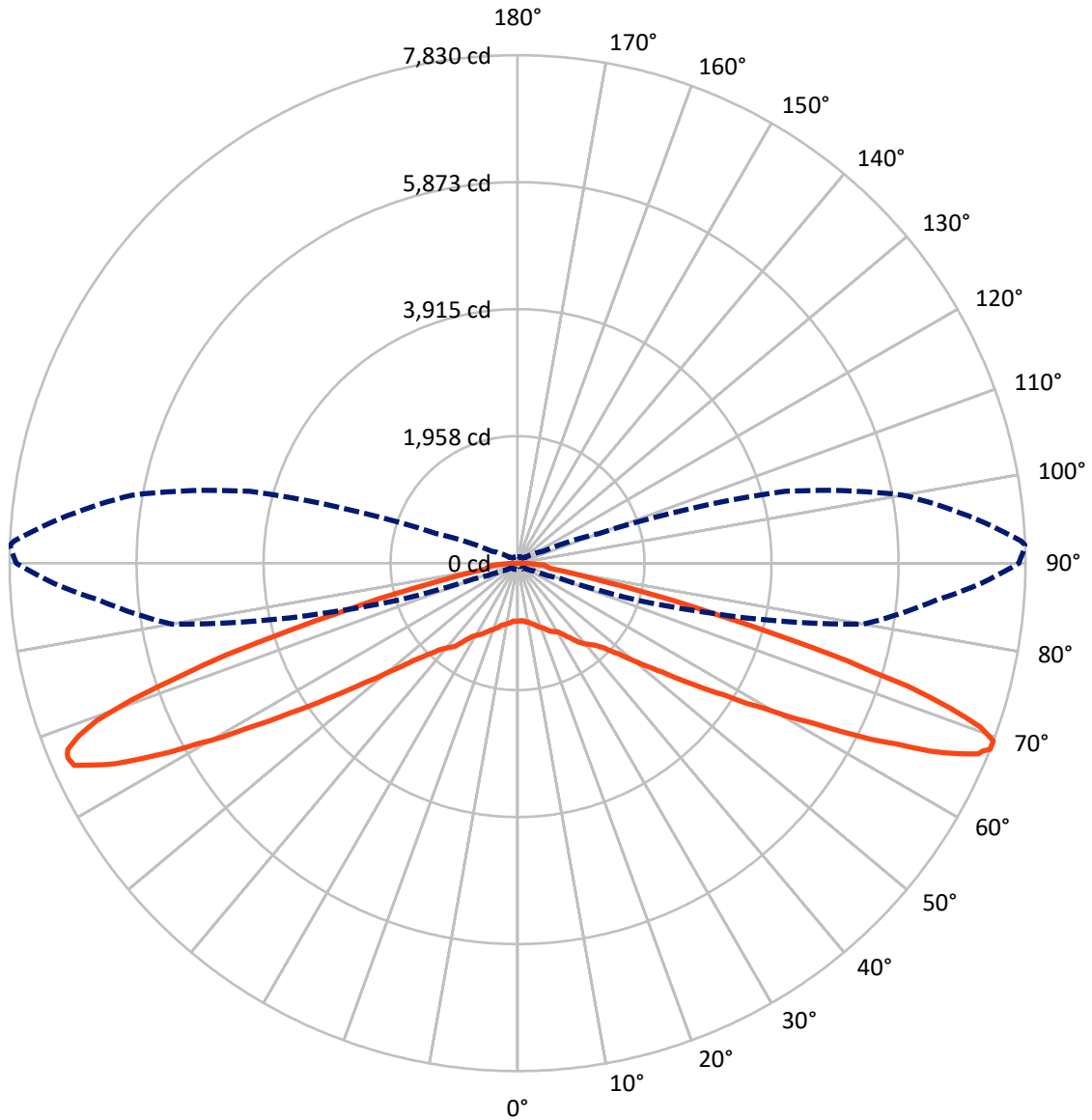
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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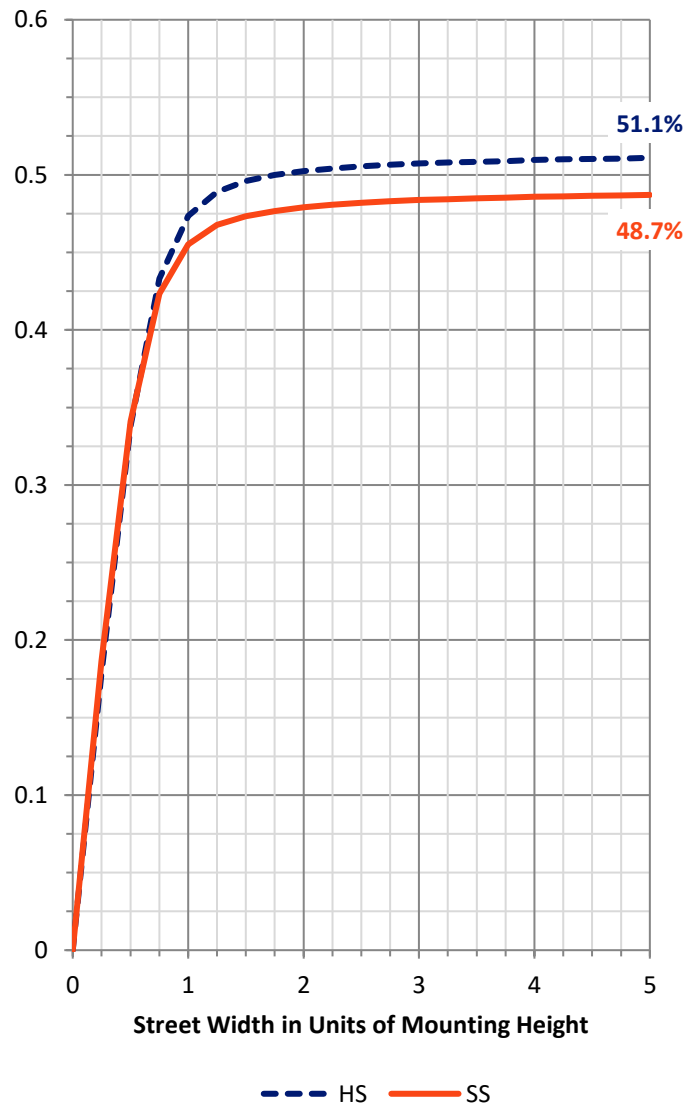
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2867.4	0.0	2867.4
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2700.5	0.0	2700.5
	% Fixture	48.5	0.0	48.5
Total	Lumens	5567.9	0.0	5567.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	1.6
10°-20°	288.8	5.2
20°-30°	492.9	8.9
30°-40°	688.3	12.4
40°-50°	875.5	15.7
50°-60°	1107.0	19.9
60°-70°	1365.2	24.5
70°-80°	596.4	10.7
80°-90°	64.7	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°	5567.9	100.0
0°-180°	5567.9	100.0



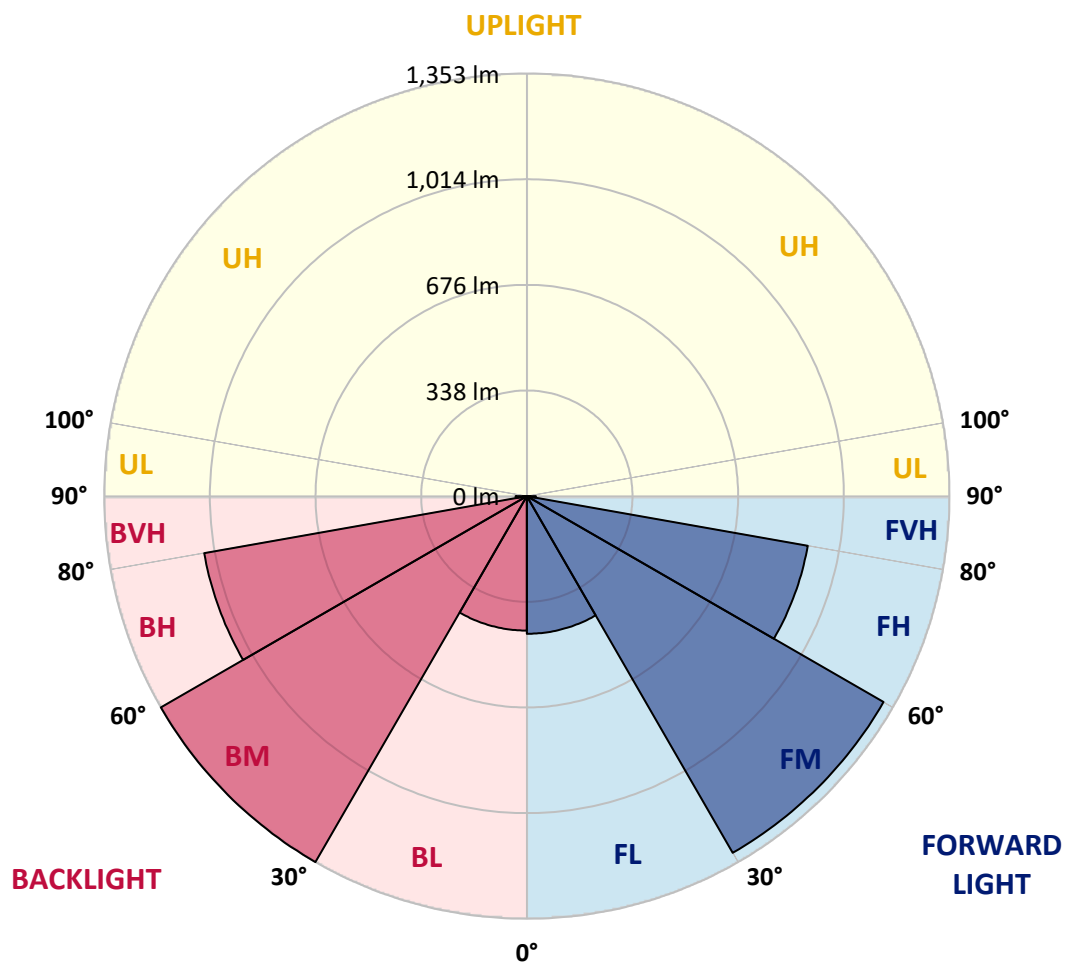
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.6	7.9			
FM (30°-60°)	1318.2	23.7			
FH (60°-80°)	913.0	16.4			G1/1800
FVH (80°-90°)	28.7	0.5			G1/100
BL (0°-30°)	430.3	7.7	B1/500		
BM (30°-60°)	1352.6	24.3	B2/2500		
BH (60°-80°)	1048.5	18.8	B3/2500		G3/2500
BVH (80°-90°)	36.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	890.3	890.3	890.3	890.3	890.3	890.3	890.3	890.3	890.3	890.3	890.3
2.5°	909.2	908.1	911.3	913.3	903.9	907.1	905.0	902.9	895.6	892.4	886.2
5°	934.2	937.4	947.8	938.4	942.6	937.4	920.7	925.9	916.5	914.4	908.1
7.5°	978.1	971.9	986.5	976.0	979.2	968.7	961.4	952.0	949.9	935.3	936.3
10°	987.5	1000.1	1006.3	1004.3	1006.3	1011.6	998.0	983.4	963.5	959.3	944.7
12.5°	981.3	992.8	1009.5	1023.1	1032.5	1034.6	1029.3	1026.2	1017.8	993.8	992.8
15°	975.0	966.6	977.1	1024.1	1055.5	1076.4	1083.7	1065.9	1068.0	1036.7	1024.1
17.5°	933.2	920.7	961.4	1007.4	1046.1	1092.0	1127.6	1122.3	1122.3	1097.3	1079.5
20°	877.8	898.7	919.6	978.1	1049.2	1118.2	1186.1	1183.0	1170.4	1163.1	1124.4
22.5°	830.8	840.2	878.9	940.5	1029.3	1125.5	1205.9	1263.4	1234.2	1204.9	1181.9
25°	798.4	790.0	839.1	902.9	1010.5	1112.9	1243.6	1303.1	1318.8	1296.9	1253.0
27.5°	752.4	752.4	791.1	851.7	949.9	1106.7	1280.1	1371.1	1394.0	1361.6	1297.9
30°	700.2	706.4	739.9	808.8	905.0	1060.7	1294.8	1449.4	1468.2	1440.0	1374.2
32.5°	659.4	659.4	697.0	770.2	873.6	1039.8	1285.4	1526.8	1562.3	1541.4	1473.5
35°	615.5	612.4	639.5	720.0	823.5	999.0	1282.2	1588.4	1667.8	1668.9	1597.8
37.5°	552.8	565.4	599.8	663.6	783.8	959.3	1272.8	1662.6	1804.7	1828.8	1779.7
40°	511.0	516.2	547.6	617.6	722.1	912.3	1259.2	1723.2	1895.7	1978.2	1910.3
42.5°	450.4	457.7	481.8	568.5	662.5	845.4	1199.7	1766.1	2025.2	2119.3	2061.8
45°	386.7	390.8	426.4	497.4	598.8	766.0	1135.9	1835.0	2150.6	2342.9	2309.5
47.5°	310.4	312.5	342.8	417.0	522.5	686.6	1037.7	1831.9	2252.0	2566.5	2660.6
50°	242.4	247.7	270.7	331.3	430.5	589.4	923.8	1806.8	2379.5	2821.5	3006.5
52.5°	193.3	194.4	209.0	257.1	332.3	492.2	801.5	1727.4	2499.7	3071.3	3430.8
55°	159.9	159.9	168.2	197.5	255.0	374.1	658.4	1595.7	2514.3	3347.2	3893.7
56°	153.6	151.5	158.8	183.9	229.9	337.5	591.5	1506.9	2535.2	3474.7	4125.7
57°	145.3	146.3	150.5	168.2	206.9	298.9	517.3	1420.2	2520.6	3579.2	4297.1
58°	141.1	139.0	147.3	158.8	182.9	265.4	466.1	1317.8	2497.6	3664.9	4546.8
59°	134.8	133.8	139.0	149.4	170.3	236.2	403.4	1207.0	2452.6	3775.6	4732.9
60°	132.7	131.7	133.8	142.1	156.8	206.9	355.3	1077.4	2332.5	3889.5	4963.8
61°	126.4	127.5	131.7	136.9	148.4	186.0	319.8	944.7	2254.1	3985.7	5218.8
62°	127.5	125.4	127.5	131.7	140.0	171.4	280.1	814.1	2114.1	4094.4	5410.0
63°	121.2	120.2	123.3	128.5	132.7	154.7	244.5	703.3	1955.2	4119.4	5572.0
64°	119.1	118.1	119.1	126.4	127.5	145.3	216.3	600.9	1725.3	4162.3	5780.0
65°	113.9	113.9	116.0	119.1	123.3	136.9	193.3	521.5	1496.5	4049.4	5843.7
66°	109.7	110.8	110.8	116.0	119.1	127.5	177.7	443.1	1277.0	3869.7	5905.4
67°	106.6	106.6	107.6	111.8	115.0	120.2	159.9	383.5	1077.4	3655.5	5810.3
67.5°	104.5	105.5	105.5	109.7	112.9	120.2	152.6	363.7	963.5	3420.3	5739.2
68°	101.4	102.4	102.4	106.6	109.7	116.0	147.3	332.3	888.3	3267.8	5607.5
69°	99.3	98.2	98.2	102.4	106.6	110.8	136.9	290.5	706.4	2841.4	5415.2
70°	93.0	93.0	95.1	98.2	101.4	105.5	126.4	256.0	597.7	2352.3	4919.9
71°	89.9	88.8	89.9	93.0	96.1	101.4	116.0	226.8	489.1	1953.1	4432.9
72°	83.6	85.7	85.7	88.8	92.0	95.1	108.7	197.5	410.7	1561.2	3896.8
72.5°	82.6	82.6	83.6	86.7	88.8	94.1	104.5	189.1	375.2	1376.3	3672.2
73°	79.4	79.4	80.5	83.6	85.7	90.9	101.4	170.3	341.7	1224.8	3252.1
74°	76.3	75.2	75.2	79.4	80.5	85.7	95.1	150.5	286.3	922.7	2610.4
75°	71.1	71.1	72.1	74.2	75.2	79.4	87.8	133.8	241.4	715.8	2042.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	58.5	59.6	60.6	62.7	62.7	65.8	72.1	93.0	147.3	362.6	937.4
80°	42.8	44.9	48.1	51.2	50.2	50.2	56.4	66.9	87.8	163.0	359.5
82.5°	34.5	36.6	33.4	37.6	37.6	35.5	40.8	49.1	59.6	80.5	128.5
85°	23.0	24.0	19.9	23.0	21.9	21.9	27.2	29.3	36.6	44.9	63.7
87.5°	10.5	10.5	8.4	9.4	9.4	9.4	13.6	10.5	15.7	21.9	37.6
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):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	890.3	890.3	890.3	890.3	890.3	890.3	890.3	890.3	890.3	890.3	890.3
2.5°	892.4	896.6	896.6	892.4	889.3	892.4	890.3	885.1	890.3	892.4	893.5
5°	905.0	896.6	900.8	891.4	897.7	896.6	894.5	899.8	900.8	900.8	908.1
7.5°	918.6	929.0	915.4	916.5	919.6	907.1	911.3	913.3	909.2	917.5	923.8
10°	942.6	946.8	942.6	926.9	937.4	929.0	925.9	935.3	933.2	935.3	944.7
12.5°	964.5	971.9	960.4	959.3	954.1	946.8	951.0	949.9	964.5	966.6	978.1
15°	1009.5	990.7	986.5	985.4	983.4	980.2	982.3	983.4	1002.2	1005.3	1032.5
17.5°	1048.1	1045.0	1022.0	1030.4	1030.4	1017.8	1012.6	1030.4	1045.0	1060.7	1079.5
20°	1087.9	1084.7	1059.6	1060.7	1051.3	1062.8	1056.5	1073.2	1098.3	1103.5	1120.3
22.5°	1134.9	1121.3	1103.5	1105.6	1108.8	1100.4	1096.2	1119.2	1144.3	1158.9	1160.0
25°	1209.1	1174.6	1160.0	1162.1	1157.9	1151.6	1154.7	1184.0	1196.5	1227.9	1221.6
27.5°	1248.8	1228.9	1218.5	1194.4	1195.5	1186.1	1198.6	1242.5	1267.6	1291.6	1243.6
30°	1296.9	1284.3	1238.3	1230.0	1228.9	1224.8	1247.7	1304.2	1341.8	1355.4	1286.4
32.5°	1390.9	1340.7	1329.3	1321.9	1305.2	1310.4	1321.9	1396.1	1455.7	1452.6	1326.1
35°	1498.5	1464.1	1431.7	1425.4	1423.3	1408.7	1428.5	1515.3	1561.2	1547.7	1340.7
37.5°	1671.0	1618.7	1574.8	1550.8	1546.6	1536.2	1583.2	1652.2	1711.7	1658.4	1352.2
40°	1755.6	1697.1	1656.3	1641.7	1644.8	1659.5	1705.5	1811.0	1837.1	1738.9	1361.6
42.5°	1876.8	1813.1	1732.6	1725.3	1715.9	1723.2	1812.0	1954.2	1976.1	1847.6	1326.1
45°	2092.1	1996.0	1903.0	1861.2	1863.3	1883.1	2021.1	2176.8	2136.0	1922.8	1269.7
47.5°	2363.8	2222.7	2147.5	2091.1	2118.2	2096.3	2315.7	2440.1	2301.1	2017.9	1200.7
50°	2772.4	2574.9	2472.5	2404.6	2416.1	2434.9	2657.5	2763.0	2484.0	2063.9	1095.2
52.5°	3287.6	3033.7	2883.2	2792.3	2800.6	2841.4	3128.8	3096.4	2693.0	2102.6	954.1
55°	3904.2	3642.9	3351.4	3313.7	3304.3	3401.5	3718.2	3445.4	2881.1	2040.9	807.8
56°	4230.2	3952.2	3649.2	3571.8	3548.9	3616.8	3988.8	3619.9	2945.9	1971.9	737.8
57°	4507.1	4241.7	3909.4	3777.7	3807.0	3934.5	4257.4	3784.0	3005.5	1900.9	671.9
58°	4887.5	4584.5	4233.3	4133.0	4106.9	4208.3	4546.8	3949.1	3025.3	1827.7	611.3
59°	5266.9	4903.2	4586.6	4403.7	4411.0	4596.0	4832.1	4145.6	3055.6	1734.7	534.0
60°	5555.3	5372.4	4949.2	4812.3	4793.5	5061.0	5116.4	4277.2	3088.0	1609.3	479.7
61°	5963.9	5725.6	5331.6	5155.0	5206.2	5420.5	5423.6	4442.3	3039.9	1450.5	412.8
62°	6257.5	6194.8	5781.0	5612.8	5597.1	5881.3	5743.4	4587.6	2998.1	1300.0	364.7
63°	6601.3	6601.3	6224.1	6092.4	6099.7	6324.4	5882.4	4732.9	2950.1	1133.8	320.8
64°	6780.0	7004.7	6656.7	6471.8	6519.8	6714.2	6130.0	4828.0	2801.7	965.6	282.2
65°	6934.7	7272.2	7078.9	6993.2	6920.1	7035.0	6344.3	4916.8	2574.9	821.4	250.8
66°	7065.3	7524.1	7460.3	7368.4	7361.1	7334.9	6386.1	4913.6	2340.8	693.9	219.5
67°	6999.5	7529.3	7645.3	7684.0	7672.5	7396.6	6312.9	4801.8	2040.9	586.3	195.4
67.5°	6939.9	7486.5	7756.1	7734.1	7782.2	7448.8	6325.5	4664.9	1827.7	530.9	183.9
68°	6887.7	7429.0	7801.0	7829.2	7805.2	7455.1	6256.5	4556.3	1682.5	498.5	173.5
69°	6491.6	7156.2	7728.9	7830.3	7768.6	7215.8	6037.0	4273.1	1336.6	425.3	159.9
70°	6094.5	6803.0	7378.8	7564.8	7488.6	6752.9	5760.1	3822.7	1102.5	363.7	144.2
71°	5544.8	6146.8	6912.8	7024.6	6932.6	6226.2	5187.4	3347.2	858.0	308.3	128.5
72°	4798.7	5309.7	6041.2	6311.9	6176.0	5468.5	4608.5	2766.1	694.9	259.2	117.0
72.5°	4428.8	4952.3	5657.7	5679.6	5705.8	5139.4	4362.9	2429.7	606.1	240.4	113.9
73°	4077.6	4590.7	5201.0	5278.4	5167.6	4584.5	3996.1	2172.6	553.9	219.5	109.7
74°	3304.3	3596.9	4102.7	4178.0	4080.8	3738.0	3265.7	1665.7	441.0	189.1	100.3
75°	2600.0	2760.9	3218.6	3172.7	3027.4	2907.2	2532.1	1272.8	357.4	166.2	93.0



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1168.3	1265.5	1341.8	1341.8	1350.2	1288.5	1167.3	584.2	220.5	120.2	76.3
80°	445.2	498.5	515.2	516.2	523.6	542.4	504.7	287.4	130.6	85.7	61.7
82.5°	322.9	451.4	485.9	460.9	462.9	418.0	193.3	127.5	82.6	59.6	44.9
85°	292.6	392.9	415.9	412.8	413.8	386.7	113.9	62.7	48.1	37.6	31.4
87.5°	142.1	139.0	147.3	166.2	162.0	210.0	96.1	31.4	20.9	15.7	15.7
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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CATALOG NUMBER: CCW-SA-1E-727-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	890.3	890.3	890.3	890.3	890.3	890.3
2.5°	885.1	884.1	898.7	884.1	892.4	886.2
5°	895.6	899.8	902.9	909.2	894.5	909.2
7.5°	926.9	931.1	932.2	937.4	931.1	930.1
10°	951.0	961.4	967.7	946.8	959.3	958.3
12.5°	998.0	987.5	986.5	982.3	970.8	966.6
15°	1031.4	1015.8	1006.3	989.6	976.0	970.8
17.5°	1078.5	1048.1	1009.5	975.0	951.0	932.2
20°	1107.7	1053.4	976.0	935.3	898.7	907.1
22.5°	1126.5	1048.1	945.7	893.5	856.9	867.4
25°	1132.8	1022.0	924.8	860.0	824.5	817.2
27.5°	1115.0	991.7	884.1	810.9	779.6	785.8
30°	1106.7	947.8	846.5	774.4	732.6	738.8
32.5°	1084.7	902.9	796.3	723.1	692.8	682.4
35°	1053.4	865.3	748.2	679.3	642.7	634.3
37.5°	1014.7	818.2	706.4	622.8	590.4	584.2
40°	957.2	761.8	645.8	573.7	536.1	535.0
42.5°	907.1	707.5	589.4	515.2	477.6	479.7
45°	843.3	634.3	524.6	460.9	423.2	425.3
47.5°	761.8	566.4	462.9	391.9	360.5	358.4
50°	665.7	489.1	387.7	327.1	301.0	295.7
52.5°	573.7	410.7	317.7	263.3	241.4	239.3
55°	457.7	319.8	247.7	206.9	190.2	191.2
56°	415.9	294.7	225.7	189.1	176.6	176.6
57°	376.2	261.3	204.8	174.5	163.0	163.0
58°	332.3	229.9	186.0	157.8	152.6	148.4
59°	302.0	209.0	168.2	149.4	141.1	140.0
60°	266.5	188.1	156.8	140.0	133.8	132.7
61°	236.2	169.3	144.2	130.6	128.5	128.5
62°	211.1	156.8	133.8	126.4	125.4	122.3
63°	189.1	144.2	128.5	120.2	117.0	120.2
64°	169.3	132.7	124.4	118.1	113.9	116.0
65°	153.6	127.5	119.1	115.0	110.8	111.8
66°	143.2	119.1	115.0	109.7	107.6	108.7
67°	129.6	115.0	110.8	105.5	104.5	105.5
67.5°	125.4	111.8	108.7	103.5	102.4	103.5
68°	122.3	109.7	107.6	102.4	101.4	100.3
69°	113.9	105.5	102.4	100.3	98.2	97.2
70°	106.6	101.4	99.3	96.1	94.1	93.0
71°	102.4	96.1	95.1	92.0	89.9	88.8
72°	97.2	93.0	90.9	86.7	85.7	86.7
72.5°	96.1	90.9	89.9	85.7	84.6	84.6
73°	93.0	86.7	87.8	83.6	81.5	83.6
74°	86.7	84.6	82.6	79.4	78.4	78.4
75°	81.5	79.4	77.3	75.2	75.2	75.2



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	69.0	67.9	69.0	64.8	63.7	62.7
80°	55.4	55.4	56.4	53.3	51.2	50.2
82.5°	41.8	42.8	44.9	41.8	39.7	37.6
85°	27.2	28.2	28.2	25.1	29.3	27.2
87.5°	13.6	14.6	13.6	12.5	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)