

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: P676104

Luminaire Tested: **CCW-SA-2B-727-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676104
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-727-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T1 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

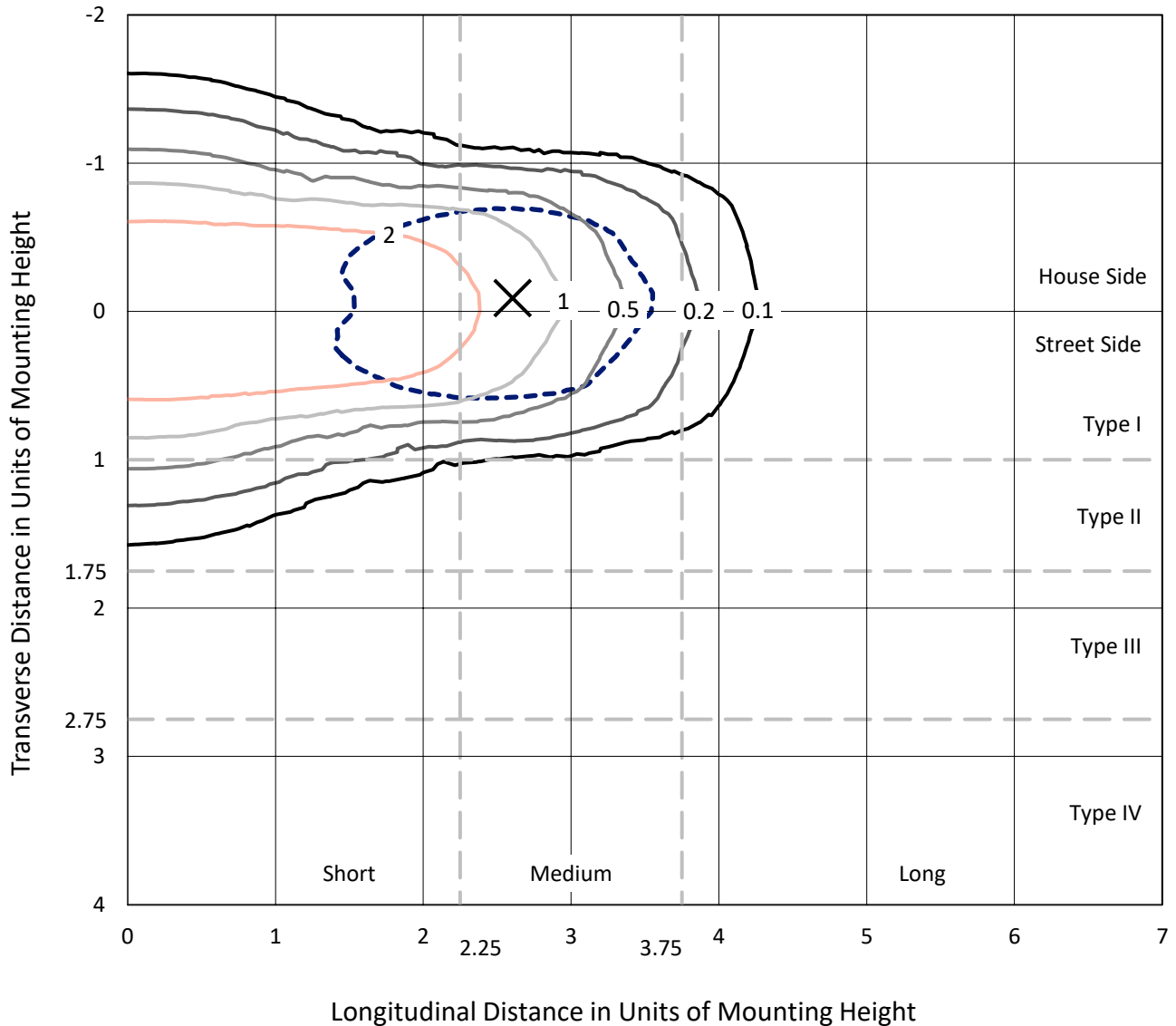
Lumens per Lamp: N/A
Luminaire Lumens: 5624.2 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 46
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

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Iso-Footcandle Lines of Horizontal Illumination

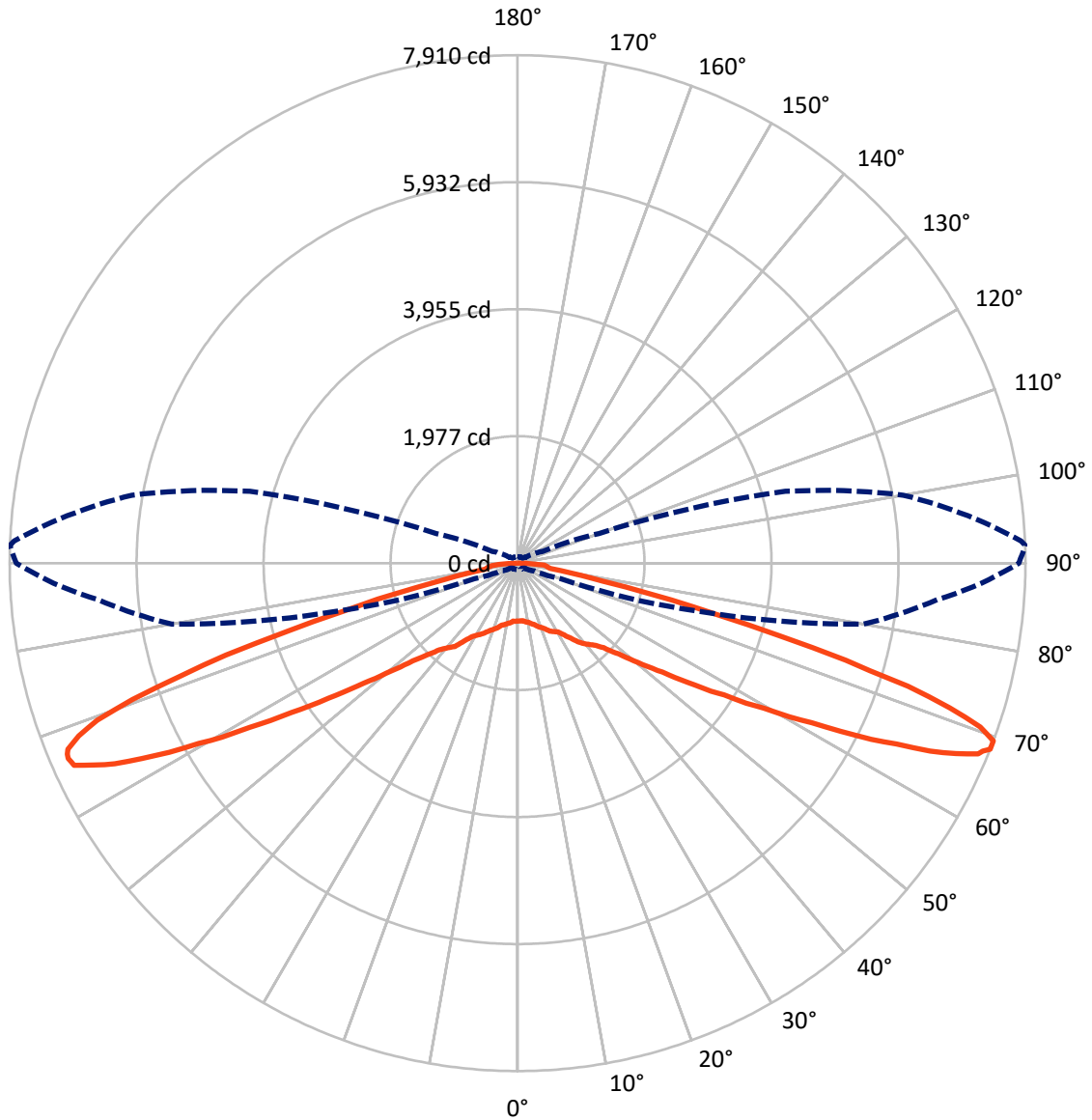
× Max cd
 - - - 1/2 Max cd



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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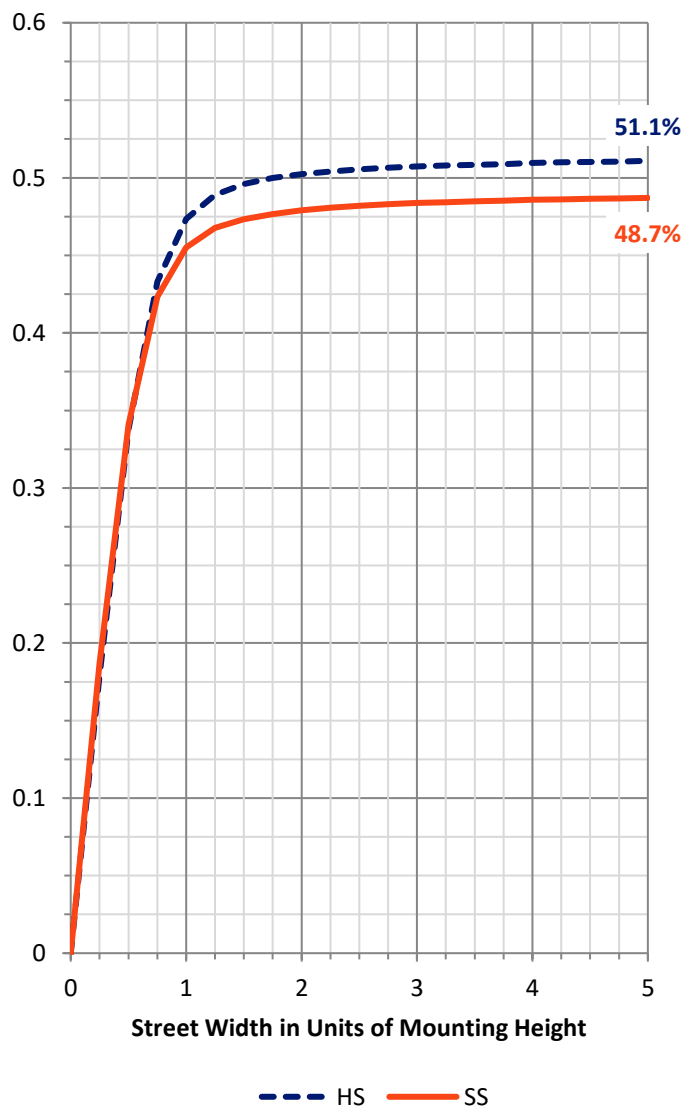
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2896.4	0.0	2896.4
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2727.8	0.0	2727.8
	% Fixture	48.5	0.0	48.5
Total	Lumens	5624.2	0.0	5624.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	1.6
10°-20°	291.8	5.2
20°-30°	497.9	8.9
30°-40°	695.2	12.4
40°-50°	884.3	15.7
50°-60°	1118.2	19.9
60°-70°	1379.0	24.5
70°-80°	602.4	10.7
80°-90°	65.3	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°	5624.2	100.0
0°-180°	5624.2	100.0



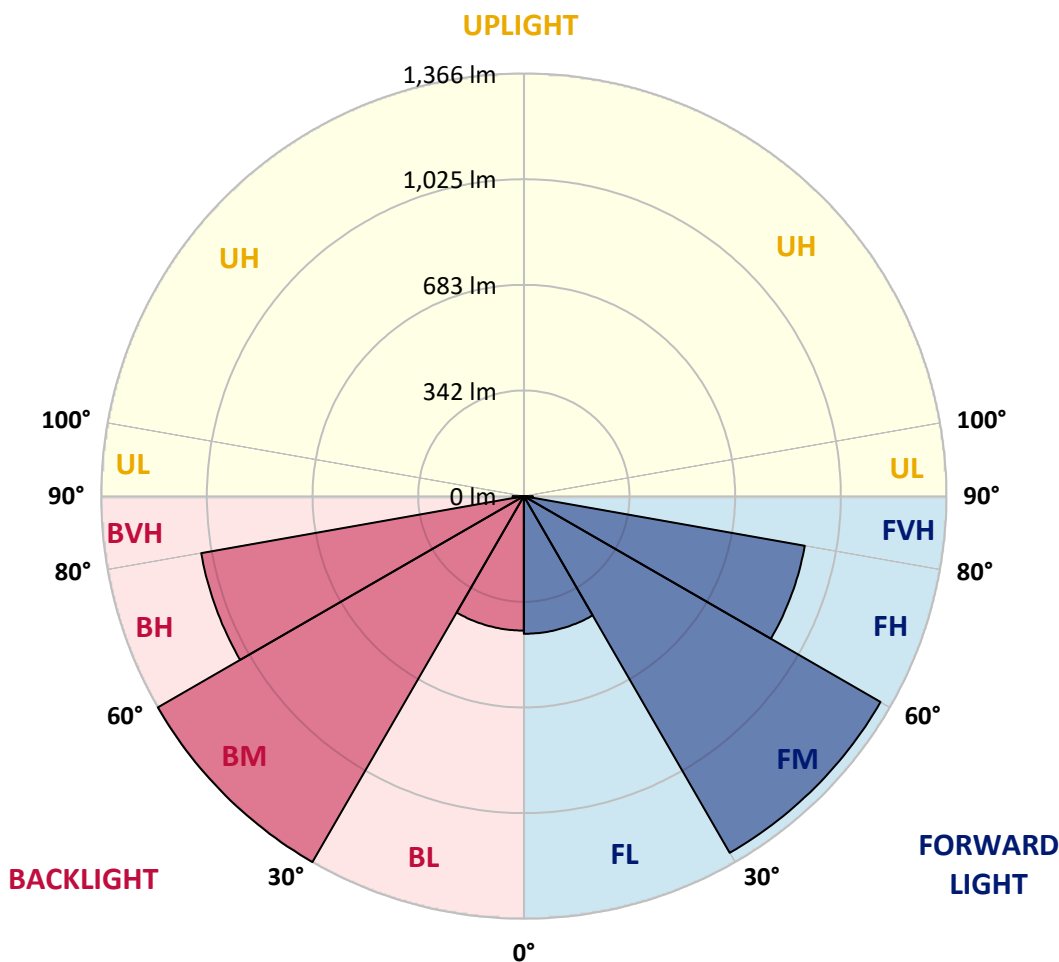
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.1	7.9			
FM (30°-60°)	1331.5	23.7			
FH (60°-80°)	922.3	16.4			G1/1800
FVH (80°-90°)	29.0	0.5			G1/100
BL (0°-30°)	434.6	7.7	B1/500		
BM (30°-60°)	1366.2	24.3	B2/2500		
BH (60°-80°)	1059.1	18.8	B3/2500		G3/2500
BVH (80°-90°)	36.4	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°	899.4	899.4	899.4	899.4	899.4	899.4	899.4	899.4	899.4	899.4	899.4
2.5°	918.4	917.3	920.5	922.6	913.1	916.2	914.1	912.0	904.6	901.5	895.1
5°	943.7	946.9	957.4	947.9	952.1	946.9	930.0	935.2	925.7	923.6	917.3
7.5°	988.0	981.7	996.5	985.9	989.1	978.5	971.1	961.6	959.5	944.7	945.8
10°	997.5	1010.2	1016.5	1014.4	1016.5	1021.8	1008.1	993.3	973.2	969.0	954.2
12.5°	991.2	1002.8	1019.7	1033.4	1042.9	1045.0	1039.8	1036.6	1028.1	1003.9	1002.8
15°	984.9	976.4	987.0	1034.5	1066.1	1087.3	1094.6	1076.7	1078.8	1047.1	1034.5
17.5°	942.6	930.0	971.1	1017.6	1056.6	1103.1	1139.0	1133.7	1133.7	1108.4	1090.4
20°	886.7	907.8	928.9	988.0	1059.8	1129.5	1198.1	1194.9	1182.3	1174.9	1135.8
22.5°	839.2	848.7	887.7	950.0	1039.8	1136.9	1218.1	1276.2	1246.6	1217.1	1193.9
25°	806.5	798.0	847.6	912.0	1020.7	1124.2	1256.1	1316.3	1332.1	1310.0	1265.6
27.5°	760.0	760.0	799.1	860.3	959.5	1117.9	1293.1	1384.9	1408.1	1375.4	1311.0
30°	707.2	713.6	747.4	817.0	914.1	1071.4	1307.9	1464.1	1483.1	1454.6	1388.1
32.5°	666.1	666.1	704.1	778.0	882.5	1050.3	1298.4	1542.2	1578.1	1557.0	1488.4
35°	621.7	618.6	646.0	727.3	831.8	1009.1	1295.2	1604.5	1684.7	1685.8	1614.0
37.5°	558.4	571.1	605.9	670.3	791.7	969.0	1285.7	1679.4	1823.0	1847.3	1797.7
40°	516.2	521.5	553.1	623.9	729.4	921.5	1272.0	1740.7	1914.8	1998.2	1929.6
42.5°	455.0	462.3	486.6	574.2	669.2	854.0	1211.8	1783.9	2045.7	2140.7	2082.7
45°	390.6	394.8	430.7	502.5	604.8	773.7	1147.4	1853.6	2172.4	2366.6	2332.8
47.5°	313.5	315.6	346.2	421.2	527.8	693.5	1048.2	1850.4	2274.8	2592.5	2687.5
50°	244.9	250.2	273.4	334.6	434.9	595.3	933.1	1825.1	2403.6	2850.1	3036.9
52.5°	195.3	196.3	211.1	259.7	335.7	497.2	809.6	1744.9	2525.0	3102.4	3465.5
55°	161.5	161.5	169.9	199.5	257.6	377.9	665.0	1611.9	2539.7	3381.0	3933.1
56°	155.2	153.1	160.4	185.8	232.2	341.0	597.5	1522.2	2560.8	3509.8	4167.4
57°	146.7	147.8	152.0	169.9	209.0	301.9	522.5	1434.5	2546.1	3615.4	4340.6
58°	142.5	140.4	148.8	160.4	184.7	268.1	470.8	1331.1	2522.8	3701.9	4592.8
59°	136.2	135.1	140.4	150.9	172.1	238.6	407.5	1219.2	2477.5	3813.8	4780.7
60°	134.1	133.0	135.1	143.6	158.3	209.0	358.9	1088.3	2356.1	3928.9	5014.0
61°	127.7	128.8	133.0	138.3	149.9	187.9	323.0	954.2	2276.9	4026.0	5271.6
62°	128.8	126.7	128.8	133.0	141.4	173.1	282.9	822.3	2135.4	4135.8	5464.8
63°	122.4	121.4	124.6	129.8	134.1	156.2	247.0	710.4	1975.0	4161.1	5628.4
64°	120.3	119.3	120.3	127.7	128.8	146.7	218.5	607.0	1742.8	4204.4	5838.4
65°	115.1	115.1	117.2	120.3	124.6	138.3	195.3	526.7	1511.6	4090.4	5902.8
66°	110.8	111.9	111.9	117.2	120.3	128.8	179.4	447.6	1289.9	3908.8	5965.1
67°	107.7	107.7	108.7	112.9	116.1	121.4	161.5	387.4	1088.3	3692.4	5869.0
67.5°	105.6	106.6	106.6	110.8	114.0	121.4	154.1	367.3	973.2	3454.9	5797.3
68°	102.4	103.4	103.4	107.7	110.8	117.2	148.8	335.7	897.2	3300.8	5664.3
69°	100.3	99.2	99.2	103.4	107.7	111.9	138.3	293.5	713.6	2870.1	5470.0
70°	93.9	93.9	96.1	99.2	102.4	106.6	127.7	258.6	603.8	2376.1	4969.7
71°	90.8	89.7	90.8	93.9	97.1	102.4	117.2	229.1	494.0	1972.9	4477.8
72°	84.4	86.6	86.6	89.7	92.9	96.1	109.8	199.5	414.8	1577.0	3936.3
72.5°	83.4	83.4	84.4	87.6	89.7	95.0	105.6	191.1	379.0	1390.2	3709.3
73°	80.2	80.2	81.3	84.4	86.6	91.8	102.4	172.1	345.2	1237.1	3285.0
74°	77.1	76.0	76.0	80.2	81.3	86.6	96.1	152.0	289.2	932.1	2636.8
75°	71.8	71.8	72.8	74.9	76.0	80.2	88.7	135.1	243.8	723.1	2062.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	59.1	60.2	61.2	63.3	63.3	66.5	72.8	93.9	148.8	366.3	946.9
80°	43.3	45.4	48.6	51.7	50.7	50.7	57.0	67.6	88.7	164.7	363.1
82.5°	34.8	36.9	33.8	38.0	38.0	35.9	41.2	49.6	60.2	81.3	129.8
85°	23.2	24.3	20.1	23.2	22.2	22.2	27.4	29.6	36.9	45.4	64.4
87.5°	10.6	10.6	8.4	9.5	9.5	9.5	13.7	10.6	15.8	22.2	38.0
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°	899.4	899.4	899.4	899.4	899.4	899.4	899.4	899.4	899.4	899.4	899.4
2.5°	901.5	905.7	905.7	901.5	898.3	901.5	899.4	894.1	899.4	901.5	902.5
5°	914.1	905.7	909.9	900.4	906.7	905.7	903.6	908.9	909.9	909.9	917.3
7.5°	927.9	938.4	924.7	925.7	928.9	916.2	920.5	922.6	918.4	926.8	933.1
10°	952.1	956.4	952.1	936.3	946.9	938.4	935.2	944.7	942.6	944.7	954.2
12.5°	974.3	981.7	970.1	969.0	963.7	956.4	960.6	959.5	974.3	976.4	988.0
15°	1019.7	1000.7	996.5	995.4	993.3	990.1	992.2	993.3	1012.3	1015.5	1042.9
17.5°	1058.8	1055.6	1032.4	1040.8	1040.8	1028.1	1022.9	1040.8	1055.6	1071.4	1090.4
20°	1098.9	1095.7	1070.4	1071.4	1061.9	1073.5	1067.2	1084.1	1109.4	1114.7	1131.6
22.5°	1146.4	1132.6	1114.7	1116.8	1120.0	1111.5	1107.3	1130.5	1155.9	1170.6	1171.7
25°	1221.3	1186.5	1171.7	1173.8	1169.6	1163.3	1166.4	1196.0	1208.6	1240.3	1234.0
27.5°	1261.4	1241.4	1230.8	1206.5	1207.6	1198.1	1210.8	1255.1	1280.4	1304.7	1256.1
30°	1310.0	1297.3	1250.9	1242.4	1241.4	1237.1	1260.4	1317.4	1355.4	1369.1	1299.4
32.5°	1405.0	1354.3	1342.7	1335.3	1318.4	1323.7	1335.3	1410.3	1470.4	1467.3	1339.5
35°	1513.7	1478.9	1446.2	1439.8	1437.7	1422.9	1443.0	1530.6	1577.0	1563.3	1354.3
37.5°	1687.9	1635.1	1590.8	1566.5	1562.3	1551.7	1599.2	1668.9	1729.0	1675.2	1365.9
40°	1773.4	1714.3	1673.1	1658.3	1661.5	1676.3	1722.7	1829.3	1855.7	1756.5	1375.4
42.5°	1895.8	1831.4	1750.2	1742.8	1733.3	1740.7	1830.4	1973.9	1996.1	1866.3	1339.5
45°	2113.3	2016.2	1922.2	1880.0	1882.1	1902.2	2041.5	2198.8	2157.6	1942.3	1282.5
47.5°	2387.7	2245.2	2169.2	2112.2	2139.7	2117.5	2339.2	2464.8	2324.4	2038.3	1212.9
50°	2800.5	2601.0	2497.5	2428.9	2440.5	2459.5	2684.4	2791.0	2509.1	2084.8	1106.3
52.5°	3320.9	3064.4	2912.4	2820.5	2829.0	2870.1	3160.4	3127.7	2720.2	2123.8	963.7
55°	3943.7	3679.8	3385.3	3347.3	3337.8	3435.9	3755.8	3480.3	2910.2	2061.6	816.0
56°	4273.0	3992.2	3686.1	3608.0	3584.8	3653.4	4029.2	3656.5	2975.7	1991.9	745.2
57°	4552.7	4284.6	3948.9	3815.9	3845.5	3974.3	4300.4	3822.3	3035.9	1920.1	678.7
58°	4937.0	4630.8	4276.2	4174.8	4148.4	4250.8	4592.8	3989.1	3055.9	1846.2	617.5
59°	5320.1	4952.8	4633.0	4448.2	4455.6	4642.5	4881.0	4187.5	3086.5	1752.3	539.4
60°	5611.5	5426.8	4999.2	4861.0	4842.0	5112.2	5168.1	4320.5	3119.3	1625.6	484.5
61°	6024.2	5783.5	5385.6	5207.2	5258.9	5475.3	5478.5	4487.3	3070.7	1465.2	417.0
62°	6320.8	6257.5	5839.5	5669.5	5653.7	5940.8	5801.5	4634.0	3028.5	1313.1	368.4
63°	6668.1	6668.1	6287.1	6154.1	6161.4	6388.4	5941.9	4780.7	2979.9	1145.3	324.1
64°	6848.6	7075.6	6724.1	6537.2	6585.8	6782.1	6192.1	4876.8	2830.0	975.4	285.0
65°	7004.9	7345.8	7150.5	7064.0	6990.1	7106.2	6408.5	4966.5	2601.0	829.7	253.3
66°	7136.8	7600.2	7535.8	7442.9	7435.5	7409.1	6450.7	4963.4	2364.5	700.9	221.7
67°	7070.3	7605.5	7722.7	7761.7	7750.1	7471.4	6376.8	4850.4	2061.6	592.2	197.4
67.5°	7010.1	7562.2	7834.5	7812.4	7860.9	7524.2	6389.5	4712.1	1846.2	536.2	185.8
68°	6957.4	7504.1	7879.9	7908.4	7884.2	7530.5	6319.8	4602.3	1699.5	503.5	175.2
69°	6557.3	7228.6	7807.1	7909.5	7847.2	7288.8	6098.1	4316.3	1350.1	429.6	161.5
70°	6156.2	6871.9	7453.5	7641.4	7564.3	6821.2	5818.4	3861.3	1113.6	367.3	145.7
71°	5600.9	6208.9	6982.7	7095.6	7002.7	6289.2	5239.9	3381.0	866.6	311.4	129.8
72°	4847.2	5363.4	6102.3	6375.7	6238.5	5523.9	4655.1	2794.1	702.0	261.8	118.2
72.5°	4473.6	5002.4	5714.9	5737.1	5763.5	5191.4	4407.1	2454.2	612.2	242.8	115.1
73°	4118.9	4637.2	5253.6	5331.8	5219.9	4630.8	4036.6	2194.6	559.5	221.7	110.8
74°	3337.8	3633.3	4144.2	4220.2	4122.1	3775.8	3298.7	1682.6	445.5	191.1	101.3
75°	2626.3	2788.9	3251.2	3204.8	3058.0	2936.6	2557.7	1285.7	361.0	167.8	93.9



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1180.1	1278.3	1355.4	1355.4	1363.8	1301.5	1179.1	590.1	222.7	121.4	77.1
80°	449.7	503.5	520.4	521.5	528.8	547.8	509.8	290.3	131.9	86.6	62.3
82.5°	326.2	456.0	490.8	465.5	467.6	422.2	195.3	128.8	83.4	60.2	45.4
85°	295.6	396.9	420.1	417.0	418.0	390.6	115.1	63.3	48.6	38.0	31.7
87.5°	143.6	140.4	148.8	167.8	163.6	212.2	97.1	31.7	21.1	15.8	15.8
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-2B-727-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	899.4	899.4	899.4	899.4	899.4	899.4
2.5°	894.1	893.0	907.8	893.0	901.5	895.1
5°	904.6	908.9	912.0	918.4	903.6	918.4
7.5°	936.3	940.5	941.6	946.9	940.5	939.5
10°	960.6	971.1	977.5	956.4	969.0	968.0
12.5°	1008.1	997.5	996.5	992.2	980.6	976.4
15°	1041.9	1026.0	1016.5	999.6	985.9	980.6
17.5°	1089.4	1058.8	1019.7	984.9	960.6	941.6
20°	1118.9	1064.0	985.9	944.7	907.8	916.2
22.5°	1137.9	1058.8	955.3	902.5	865.6	876.1
25°	1144.3	1032.4	934.2	868.7	832.9	825.5
27.5°	1126.3	1001.7	893.0	819.1	787.5	793.8
30°	1117.9	957.4	855.0	782.2	740.0	746.3
32.5°	1095.7	912.0	804.4	730.5	699.9	689.3
35°	1064.0	874.0	755.8	686.1	649.2	640.7
37.5°	1025.0	826.5	713.6	629.1	596.4	590.1
40°	966.9	769.5	652.4	579.5	541.5	540.5
42.5°	916.2	714.6	595.3	520.4	482.4	484.5
45°	851.9	640.7	529.9	465.5	427.5	429.6
47.5°	769.5	572.1	467.6	395.8	364.2	362.1
50°	672.4	494.0	391.6	330.4	304.0	298.7
52.5°	579.5	414.8	320.9	266.0	243.8	241.7
55°	462.3	323.0	250.2	209.0	192.1	193.2
56°	420.1	297.7	228.0	191.1	178.4	178.4
57°	380.0	263.9	206.9	176.3	164.7	164.7
58°	335.7	232.2	187.9	159.4	154.1	149.9
59°	305.1	211.1	169.9	150.9	142.5	141.4
60°	269.2	190.0	158.3	141.4	135.1	134.1
61°	238.6	171.0	145.7	131.9	129.8	129.8
62°	213.2	158.3	135.1	127.7	126.7	123.5
63°	191.1	145.7	129.8	121.4	118.2	121.4
64°	171.0	134.1	125.6	119.3	115.1	117.2
65°	155.2	128.8	120.3	116.1	111.9	112.9
66°	144.6	120.3	116.1	110.8	108.7	109.8
67°	130.9	116.1	111.9	106.6	105.6	106.6
67.5°	126.7	112.9	109.8	104.5	103.4	104.5
68°	123.5	110.8	108.7	103.4	102.4	101.3
69°	115.1	106.6	103.4	101.3	99.2	98.2
70°	107.7	102.4	100.3	97.1	95.0	93.9
71°	103.4	97.1	96.1	92.9	90.8	89.7
72°	98.2	93.9	91.8	87.6	86.6	87.6
72.5°	97.1	91.8	90.8	86.6	85.5	85.5
73°	93.9	87.6	88.7	84.4	82.3	84.4
74°	87.6	85.5	83.4	80.2	79.2	79.2
75°	82.3	80.2	78.1	76.0	76.0	76.0



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	69.7	68.6	69.7	65.4	64.4	63.3
80°	55.9	55.9	57.0	53.8	51.7	50.7
82.5°	42.2	43.3	45.4	42.2	40.1	38.0
85°	27.4	28.5	28.5	25.3	29.6	27.4
87.5°	13.7	14.8	13.7	12.7	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)