

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: P676133

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676133
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-740-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T1 distribution lens
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

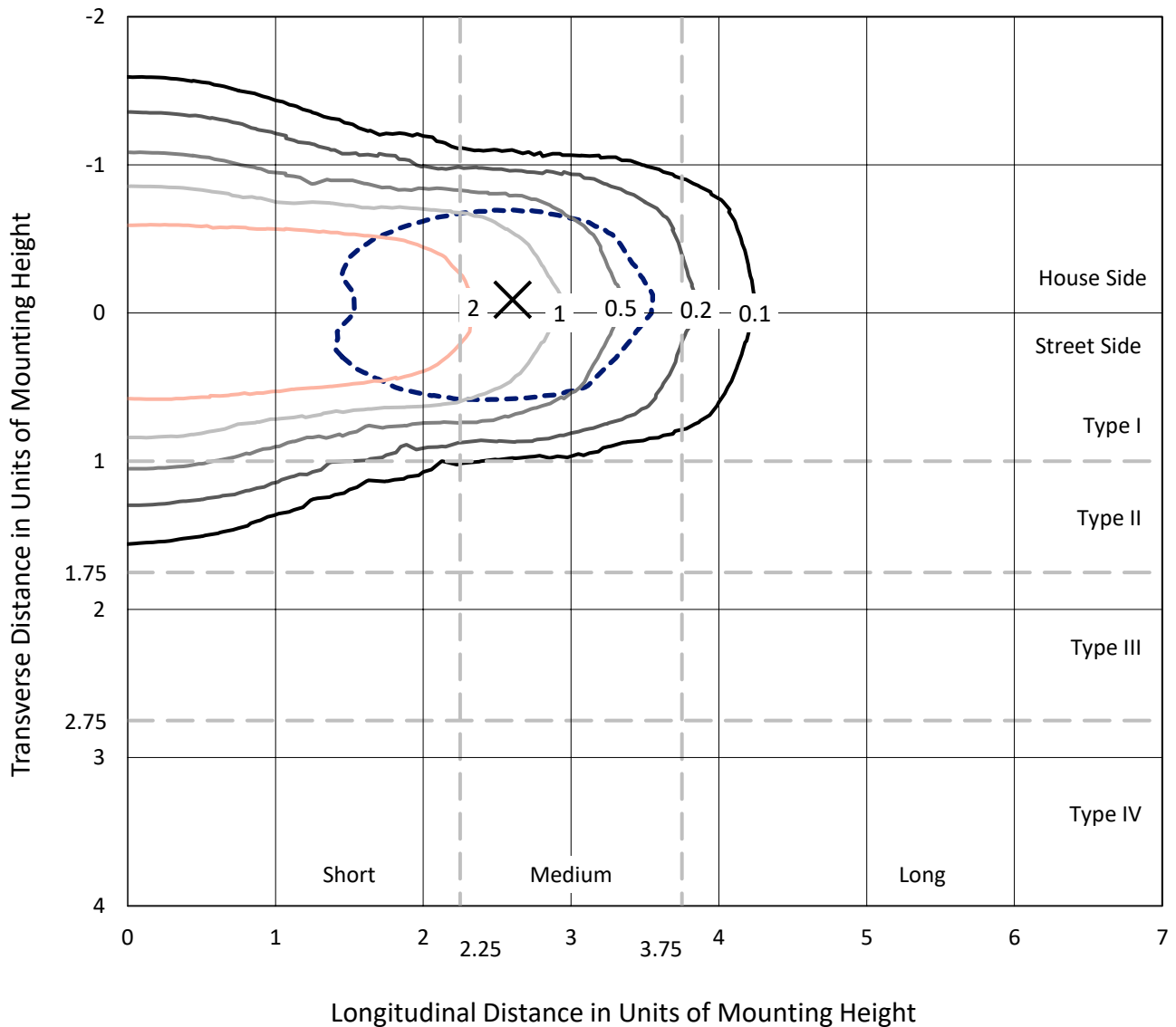
Lumens per Lamp: N/A
Luminaire Lumens: 5430.7 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 44
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

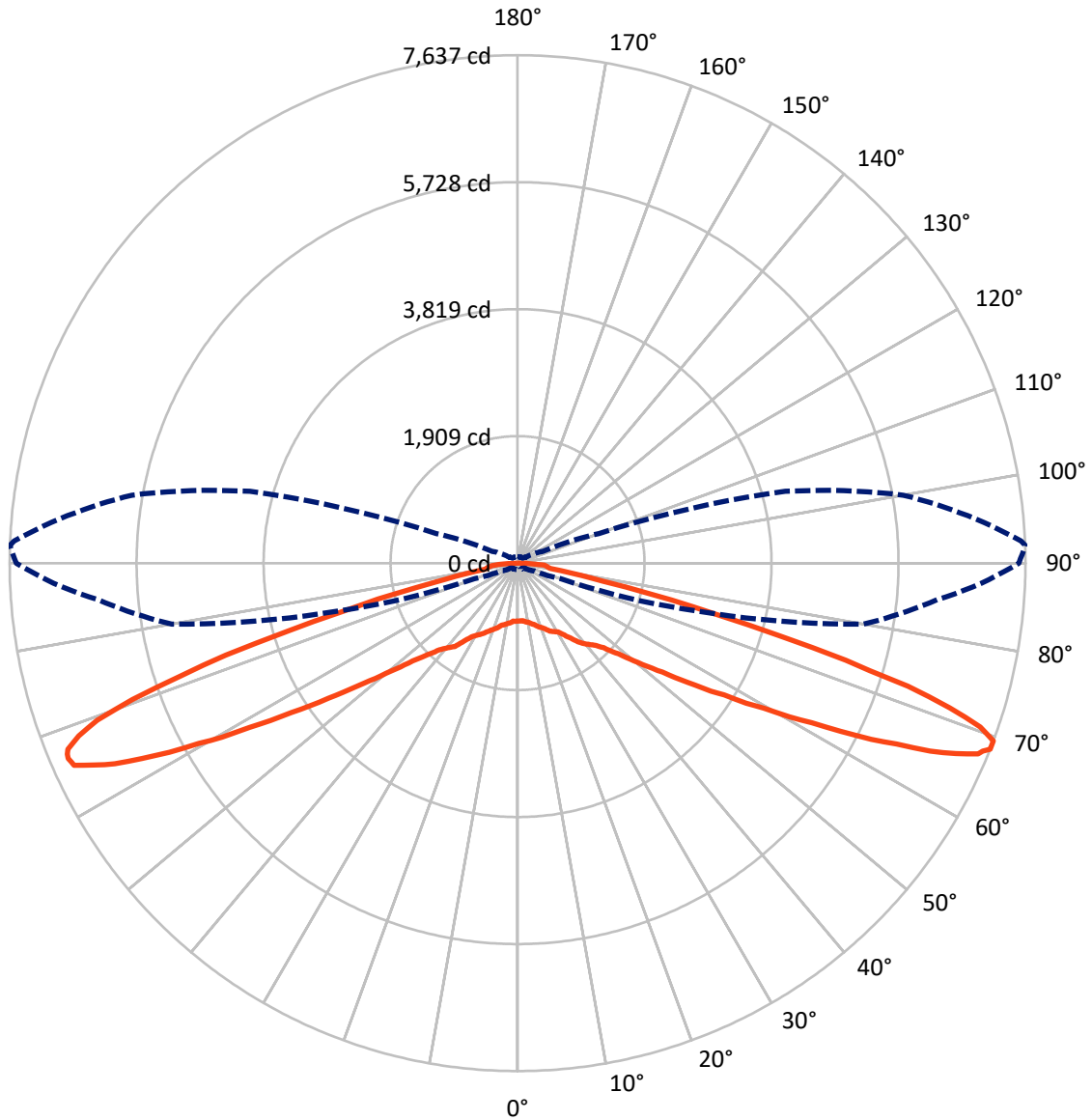
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 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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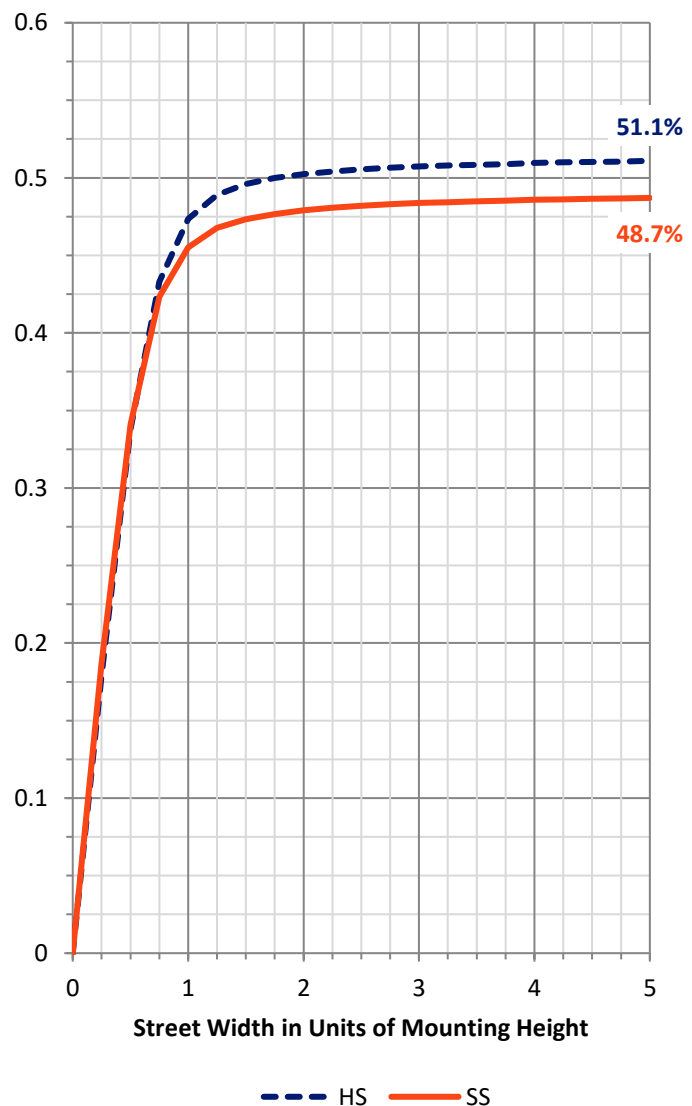
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2796.7	0.0	2796.7
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2634.0	0.0	2634.0
	% Fixture	48.5	0.0	48.5
Total	Lumens	5430.7	0.0	5430.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	1.6
10°-20°	281.7	5.2
20°-30°	480.8	8.9
30°-40°	671.3	12.4
40°-50°	853.9	15.7
50°-60°	1079.7	19.9
60°-70°	1331.5	24.5
70°-80°	581.7	10.7
80°-90°	63.1	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°	5430.7	100.0
0°-180°	5430.7	100.0



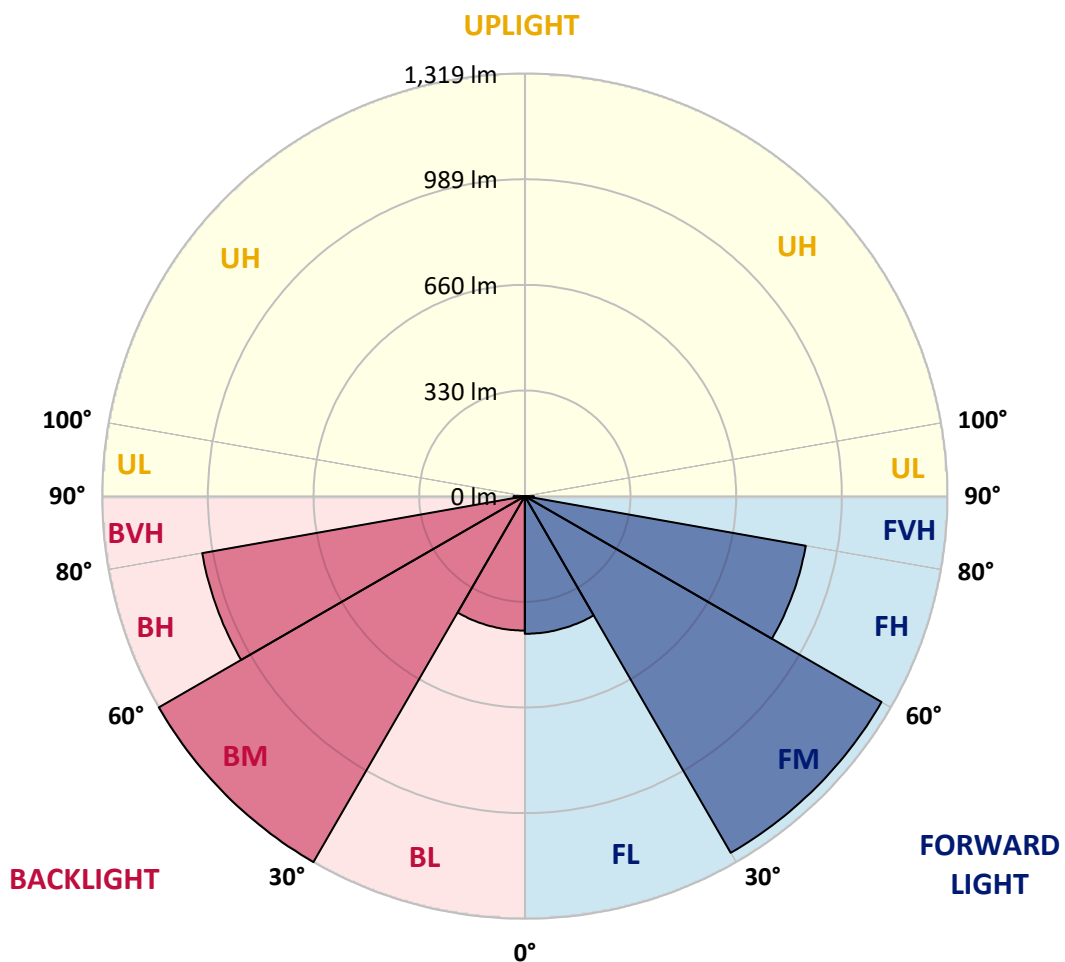
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.8	7.9			
FM (30°-60°)	1285.7	23.7			
FH (60°-80°)	890.5	16.4			G1/1800
FVH (80°-90°)	28.0	0.5			G1/100
BL (0°-30°)	419.7	7.7	B1/500		
BM (30°-60°)	1319.2	24.3	B2/2500		
BH (60°-80°)	1022.7	18.8	B3/2500		G3/2500
BVH (80°-90°)	35.1	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°	868.4	868.4	868.4	868.4	868.4	868.4	868.4	868.4	868.4	868.4	868.4
2.5°	886.8	885.7	888.8	890.8	881.7	884.7	882.7	880.6	873.5	870.4	864.3
5°	911.2	914.3	924.5	915.3	919.4	914.3	898.0	903.1	893.9	891.8	885.7
7.5°	954.0	947.9	962.2	952.0	955.0	944.9	937.7	928.5	926.5	912.2	913.3
10°	963.2	975.4	981.5	979.5	981.5	986.6	973.4	959.1	939.8	935.7	921.4
12.5°	957.1	968.3	984.6	997.9	1007.0	1009.1	1004.0	1000.9	992.8	969.3	968.3
15°	951.0	942.8	953.0	998.9	1029.4	1049.8	1057.0	1039.6	1041.7	1011.1	998.9
17.5°	910.2	898.0	937.7	982.6	1020.3	1065.1	1099.8	1094.7	1094.7	1070.2	1052.9
20°	856.2	876.6	896.9	954.0	1023.3	1090.6	1156.9	1153.8	1141.6	1134.4	1096.7
22.5°	810.3	819.5	857.2	917.3	1004.0	1097.7	1176.2	1232.3	1203.7	1175.2	1152.8
25°	778.7	770.6	818.5	880.6	985.6	1085.5	1212.9	1271.0	1286.3	1264.9	1222.1
27.5°	733.9	733.9	771.6	830.7	926.5	1079.4	1248.6	1337.3	1359.7	1328.1	1265.9
30°	682.9	689.0	721.6	788.9	882.7	1034.5	1262.9	1413.7	1432.1	1404.5	1340.3
32.5°	643.2	643.2	679.8	751.2	852.1	1014.2	1253.7	1489.1	1523.8	1503.4	1437.2
35°	600.3	597.3	623.8	702.3	803.2	974.4	1250.6	1549.3	1626.7	1627.8	1558.4
37.5°	539.2	551.4	585.1	647.2	764.4	935.7	1241.5	1621.6	1760.3	1783.7	1735.8
40°	498.4	503.5	534.1	602.4	704.3	889.8	1228.2	1680.8	1848.9	1929.5	1863.2
42.5°	439.3	446.4	469.9	554.5	646.2	824.6	1170.1	1722.5	1975.3	2067.1	2011.0
45°	377.1	381.2	415.9	485.2	584.0	747.1	1107.9	1789.8	2097.6	2285.2	2252.6
47.5°	302.7	304.8	334.3	406.7	509.6	669.7	1012.1	1786.8	2196.5	2503.3	2595.0
50°	236.5	241.6	264.0	323.1	419.9	574.9	901.0	1762.3	2320.8	2752.0	2932.4
52.5°	188.6	189.6	203.9	250.7	324.1	480.1	781.8	1684.8	2438.1	2995.6	3346.2
55°	155.9	155.9	164.1	192.6	248.7	364.9	642.1	1556.4	2452.3	3264.7	3797.8
56°	149.8	147.8	154.9	179.4	224.2	329.2	576.9	1469.8	2472.7	3389.0	4024.0
57°	141.7	142.7	146.8	164.1	201.8	291.5	504.5	1385.2	2458.4	3491.0	4191.2
58°	137.6	135.6	143.7	154.9	178.4	258.9	454.6	1285.3	2436.0	3574.5	4434.8
59°	131.5	130.5	135.6	145.8	166.1	230.4	393.4	1177.2	2392.2	3682.6	4616.2
60°	129.4	128.4	130.5	138.6	152.9	201.8	346.5	1050.9	2275.0	3793.7	4841.5
61°	123.3	124.3	128.4	133.5	144.7	181.4	311.9	921.4	2198.5	3887.4	5090.2
62°	124.3	122.3	124.3	128.4	136.6	167.2	273.2	794.0	2062.0	3993.4	5276.7
63°	118.2	117.2	120.3	125.4	129.4	150.9	238.5	686.0	1907.0	4017.9	5434.7
64°	116.2	115.2	116.2	123.3	124.3	141.7	211.0	586.1	1682.8	4059.7	5637.5
65°	111.1	111.1	113.1	116.2	120.3	133.5	188.6	508.6	1459.6	3949.6	5699.7
66°	107.0	108.0	108.0	113.1	116.2	124.3	173.3	432.2	1245.5	3774.3	5759.8
67°	104.0	104.0	105.0	109.1	112.1	117.2	155.9	374.1	1050.9	3565.4	5667.1
67.5°	101.9	102.9	102.9	107.0	110.1	117.2	148.8	354.7	939.8	3336.0	5597.8
68°	98.9	99.9	99.9	104.0	107.0	113.1	143.7	324.1	866.4	3187.2	5469.3
69°	96.8	95.8	95.8	99.9	104.0	108.0	133.5	283.4	689.0	2771.4	5281.8
70°	90.7	90.7	92.8	95.8	98.9	102.9	123.3	249.7	583.0	2294.3	4798.7
71°	87.7	86.6	87.7	90.7	93.8	98.9	113.1	221.2	477.0	1905.0	4323.7
72°	81.5	83.6	83.6	86.6	89.7	92.8	106.0	192.6	400.6	1522.8	3800.8
72.5°	80.5	80.5	81.5	84.6	86.6	91.7	101.9	184.5	365.9	1342.4	3581.7
73°	77.5	77.5	78.5	81.5	83.6	88.7	98.9	166.1	333.3	1194.6	3171.9
74°	74.4	73.4	73.4	77.5	78.5	83.6	92.8	146.8	279.3	900.0	2546.1
75°	69.3	69.3	70.3	72.4	73.4	77.5	85.6	130.5	235.4	698.2	1991.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	57.1	58.1	59.1	61.2	61.2	64.2	70.3	90.7	143.7	353.7	914.3
80°	41.8	43.8	46.9	49.9	48.9	48.9	55.0	65.2	85.6	159.0	350.6
82.5°	33.6	35.7	32.6	36.7	36.7	34.7	39.8	47.9	58.1	78.5	125.4
85°	22.4	23.4	19.4	22.4	21.4	21.4	26.5	28.5	35.7	43.8	62.2
87.5°	10.2	10.2	8.2	9.2	9.2	9.2	13.3	10.2	15.3	21.4	36.7
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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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	868.4	868.4	868.4	868.4	868.4	868.4	868.4	868.4	868.4	868.4	868.4
2.5°	870.4	874.5	874.5	870.4	867.4	870.4	868.4	863.3	868.4	870.4	871.5
5°	882.7	874.5	878.6	869.4	875.5	874.5	872.5	877.6	878.6	878.6	885.7
7.5°	895.9	906.1	892.9	893.9	896.9	884.7	888.8	890.8	886.8	894.9	901.0
10°	919.4	923.4	919.4	904.1	914.3	906.1	903.1	912.2	910.2	912.2	921.4
12.5°	940.8	947.9	936.7	935.7	930.6	923.4	927.5	926.5	940.8	942.8	954.0
15°	984.6	966.3	962.2	961.2	959.1	956.1	958.1	959.1	977.5	980.5	1007.0
17.5°	1022.3	1019.3	996.8	1005.0	1005.0	992.8	987.7	1005.0	1019.3	1034.5	1052.9
20°	1061.0	1058.0	1033.5	1034.5	1025.4	1036.6	1030.5	1046.8	1071.2	1076.3	1092.6
22.5°	1106.9	1093.7	1076.3	1078.4	1081.4	1073.3	1069.2	1091.6	1116.1	1130.4	1131.4
25°	1179.3	1145.6	1131.4	1133.4	1129.3	1123.2	1126.3	1154.8	1167.0	1197.6	1191.5
27.5°	1218.0	1198.6	1188.5	1165.0	1166.0	1156.9	1169.1	1211.9	1236.4	1259.8	1212.9
30°	1264.9	1252.7	1207.8	1199.7	1198.6	1194.6	1217.0	1272.0	1308.7	1322.0	1254.7
32.5°	1356.6	1307.7	1296.5	1289.4	1273.1	1278.1	1289.4	1361.7	1419.8	1416.8	1293.4
35°	1461.6	1428.0	1396.4	1390.3	1388.2	1374.0	1393.3	1477.9	1522.8	1509.5	1307.7
37.5°	1629.8	1578.8	1536.0	1512.6	1508.5	1498.3	1544.2	1611.4	1669.5	1617.6	1318.9
40°	1712.4	1655.3	1615.5	1601.3	1604.3	1618.6	1663.4	1766.4	1791.9	1696.0	1328.1
42.5°	1830.6	1768.4	1689.9	1682.8	1673.6	1680.8	1767.4	1906.0	1927.4	1802.0	1293.4
45°	2040.6	1946.8	1856.1	1815.3	1817.3	1836.7	1971.2	2123.1	2083.4	1875.4	1238.4
47.5°	2305.6	2168.0	2094.6	2039.5	2066.0	2044.6	2258.7	2380.0	2244.4	1968.2	1171.1
50°	2704.1	2511.4	2411.6	2345.3	2356.5	2374.9	2592.0	2694.9	2422.8	2013.0	1068.2
52.5°	3206.6	2958.9	2812.1	2723.5	2731.6	2771.4	3051.7	3020.1	2626.6	2050.7	930.6
55°	3807.9	3553.1	3268.8	3232.1	3222.9	3317.7	3626.5	3360.5	2810.1	1990.6	787.9
56°	4126.0	3854.8	3559.2	3483.8	3461.4	3527.6	3890.5	3530.7	2873.3	1923.3	719.6
57°	4396.1	4137.2	3813.0	3684.6	3713.2	3837.5	4152.5	3690.7	2931.4	1854.0	655.4
58°	4767.1	4471.5	4129.0	4031.2	4005.7	4104.5	4434.8	3851.8	2950.7	1782.7	596.3
59°	5137.1	4782.4	4473.5	4295.1	4302.3	4482.7	4713.0	4043.4	2980.3	1692.0	520.8
60°	5418.4	5240.0	4827.2	4693.7	4675.3	4936.3	4990.3	4171.8	3011.9	1569.7	467.8
61°	5816.9	5584.5	5200.2	5028.0	5077.9	5286.9	5289.9	4332.9	2965.0	1414.7	402.6
62°	6103.3	6042.2	5638.5	5474.4	5459.1	5736.4	5601.8	4474.5	2924.2	1268.0	355.7
63°	6438.6	6438.6	6070.7	5942.3	5949.4	6168.5	5737.4	4616.2	2877.4	1105.9	312.9
64°	6612.9	6832.1	6492.7	6312.3	6359.1	6548.7	5979.0	4709.0	2732.6	941.8	275.2
65°	6763.8	7093.0	6904.4	6820.9	6749.5	6861.6	6187.9	4795.6	2511.4	801.1	244.6
66°	6891.2	7338.6	7276.5	7186.8	7179.6	7154.2	6228.7	4792.5	2283.1	676.8	214.0
67°	6827.0	7343.7	7456.9	7494.6	7483.4	7214.3	6157.3	4683.5	1990.6	571.8	190.6
67.5°	6768.9	7302.0	7564.9	7543.5	7590.4	7265.3	6169.6	4550.0	1782.7	517.8	179.4
68°	6717.9	7245.9	7608.8	7636.3	7612.8	7271.4	6102.3	4444.0	1641.0	486.2	169.2
69°	6331.6	6979.9	7538.4	7637.3	7577.2	7038.0	5888.2	4167.7	1303.6	414.8	155.9
70°	5944.3	6635.4	7197.0	7378.4	7304.0	6586.4	5618.1	3728.4	1075.3	354.7	140.7
71°	5408.2	5995.3	6742.4	6851.4	6761.8	6072.7	5059.6	3264.7	836.8	300.7	125.4
72°	4680.4	5178.8	5892.3	6156.3	6023.8	5333.8	4494.9	2698.0	677.8	252.8	114.2
72.5°	4319.6	4830.3	5518.3	5539.7	5565.1	5012.7	4255.4	2369.8	591.2	234.4	111.1
73°	3977.1	4477.6	5072.8	5148.3	5040.2	4471.5	3897.6	2119.0	540.2	214.0	107.0
74°	3222.9	3508.3	4001.6	4075.0	3980.2	3645.9	3185.2	1624.7	430.1	184.5	97.8
75°	2535.9	2692.9	3139.3	3094.5	2952.8	2835.6	2469.7	1241.5	348.6	162.1	90.7



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1139.5	1234.3	1308.7	1308.7	1316.9	1256.7	1138.5	569.8	215.1	117.2	74.4
80°	434.2	486.2	502.5	503.5	510.6	529.0	492.3	280.3	127.4	83.6	60.1
82.5°	315.0	440.3	474.0	449.5	451.5	407.7	188.6	124.3	80.5	58.1	43.8
85°	285.4	383.2	405.7	402.6	403.6	377.1	111.1	61.2	46.9	36.7	30.6
87.5°	138.6	135.6	143.7	162.1	158.0	204.9	93.8	30.6	20.4	15.3	15.3
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: P676133

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

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	868.4	868.4	868.4	868.4	868.4	868.4
2.5°	863.3	862.3	876.6	862.3	870.4	864.3
5°	873.5	877.6	880.6	886.8	872.5	886.8
7.5°	904.1	908.2	909.2	914.3	908.2	907.1
10°	927.5	937.7	943.8	923.4	935.7	934.7
12.5°	973.4	963.2	962.2	958.1	946.9	942.8
15°	1006.0	990.7	981.5	965.2	952.0	946.9
17.5°	1051.9	1022.3	984.6	951.0	927.5	909.2
20°	1080.4	1027.4	952.0	912.2	876.6	884.7
22.5°	1098.8	1022.3	922.4	871.5	835.8	846.0
25°	1104.9	996.8	902.0	838.8	804.2	797.1
27.5°	1087.5	967.3	862.3	790.9	760.4	766.5
30°	1079.4	924.5	825.6	755.3	714.5	720.6
32.5°	1058.0	880.6	776.7	705.3	675.8	665.6
35°	1027.4	843.9	729.8	662.5	626.8	618.7
37.5°	989.7	798.1	689.0	607.5	575.9	569.8
40°	933.6	743.0	629.9	559.6	522.9	521.9
42.5°	884.7	690.0	574.9	502.5	465.8	467.8
45°	822.5	618.7	511.7	449.5	412.8	414.8
47.5°	743.0	552.4	451.5	382.2	351.6	349.6
50°	649.3	477.0	378.1	319.0	293.5	288.4
52.5°	559.6	400.6	309.9	256.9	235.4	233.4
55°	446.4	311.9	241.6	201.8	185.5	186.5
56°	405.7	287.4	220.2	184.5	172.3	172.3
57°	366.9	254.8	199.8	170.2	159.0	159.0
58°	324.1	224.2	181.4	153.9	148.8	144.7
59°	294.6	203.9	164.1	145.8	137.6	136.6
60°	259.9	183.5	152.9	136.6	130.5	129.4
61°	230.4	165.1	140.7	127.4	125.4	125.4
62°	205.9	152.9	130.5	123.3	122.3	119.3
63°	184.5	140.7	125.4	117.2	114.2	117.2
64°	165.1	129.4	121.3	115.2	111.1	113.1
65°	149.8	124.3	116.2	112.1	108.0	109.1
66°	139.6	116.2	112.1	107.0	105.0	106.0
67°	126.4	112.1	108.0	102.9	101.9	102.9
67.5°	122.3	109.1	106.0	100.9	99.9	100.9
68°	119.3	107.0	105.0	99.9	98.9	97.8
69°	111.1	102.9	99.9	97.8	95.8	94.8
70°	104.0	98.9	96.8	93.8	91.7	90.7
71°	99.9	93.8	92.8	89.7	87.7	86.6
72°	94.8	90.7	88.7	84.6	83.6	84.6
72.5°	93.8	88.7	87.7	83.6	82.6	82.6
73°	90.7	84.6	85.6	81.5	79.5	81.5
74°	84.6	82.6	80.5	77.5	76.4	76.4
75°	79.5	77.5	75.4	73.4	73.4	73.4



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

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	67.3	66.3	67.3	63.2	62.2	61.2
80°	54.0	54.0	55.0	52.0	49.9	48.9
82.5°	40.8	41.8	43.8	40.8	38.7	36.7
85°	26.5	27.5	27.5	24.5	28.5	26.5
87.5°	13.3	14.3	13.3	12.2	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)