

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: P676215

Luminaire Tested: **CCW-SA-2C-850-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676215
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-850-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T1 distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

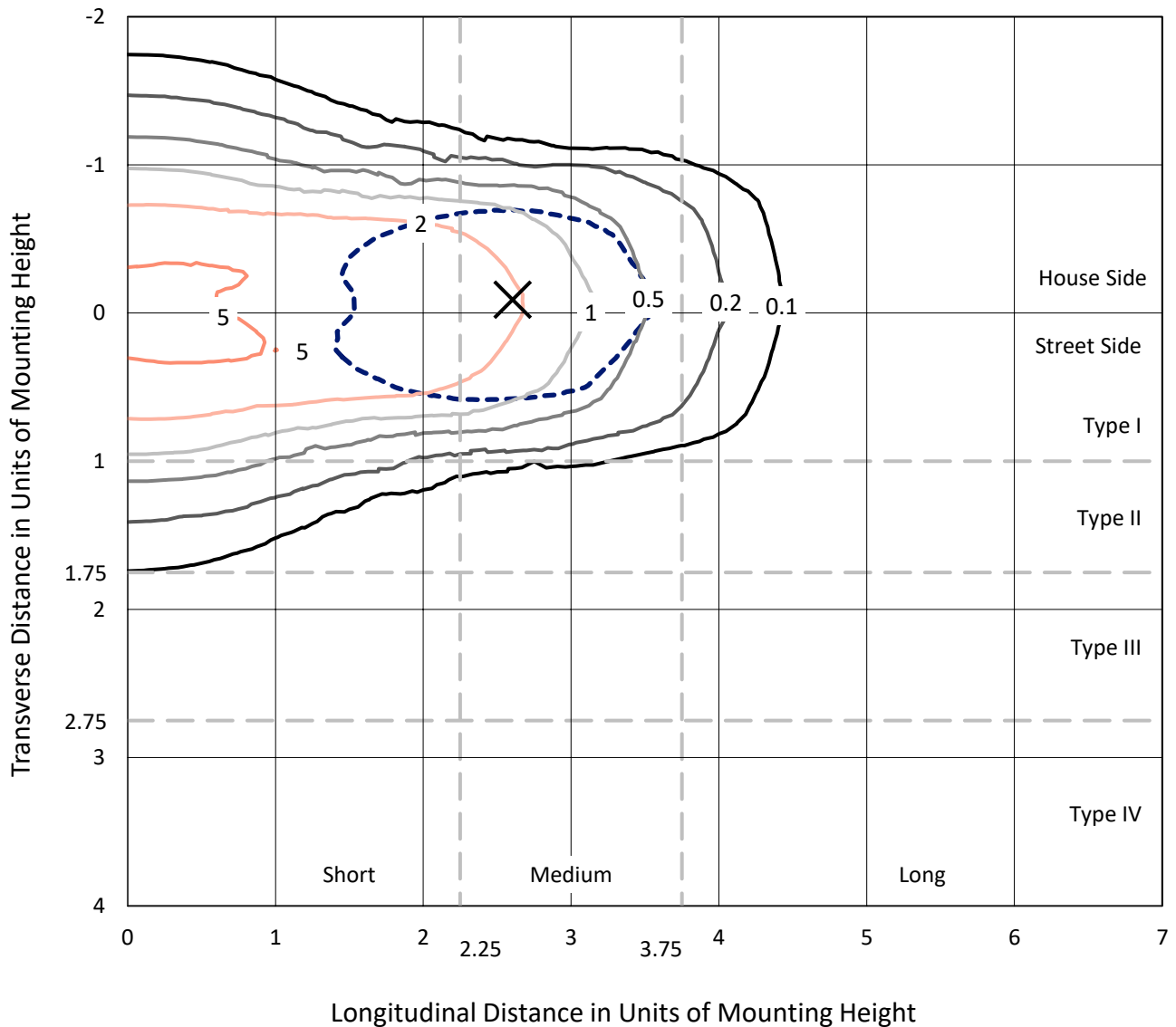
Lumens per Lamp: N/A
Luminaire Lumens: 7682.8 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 62.1
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

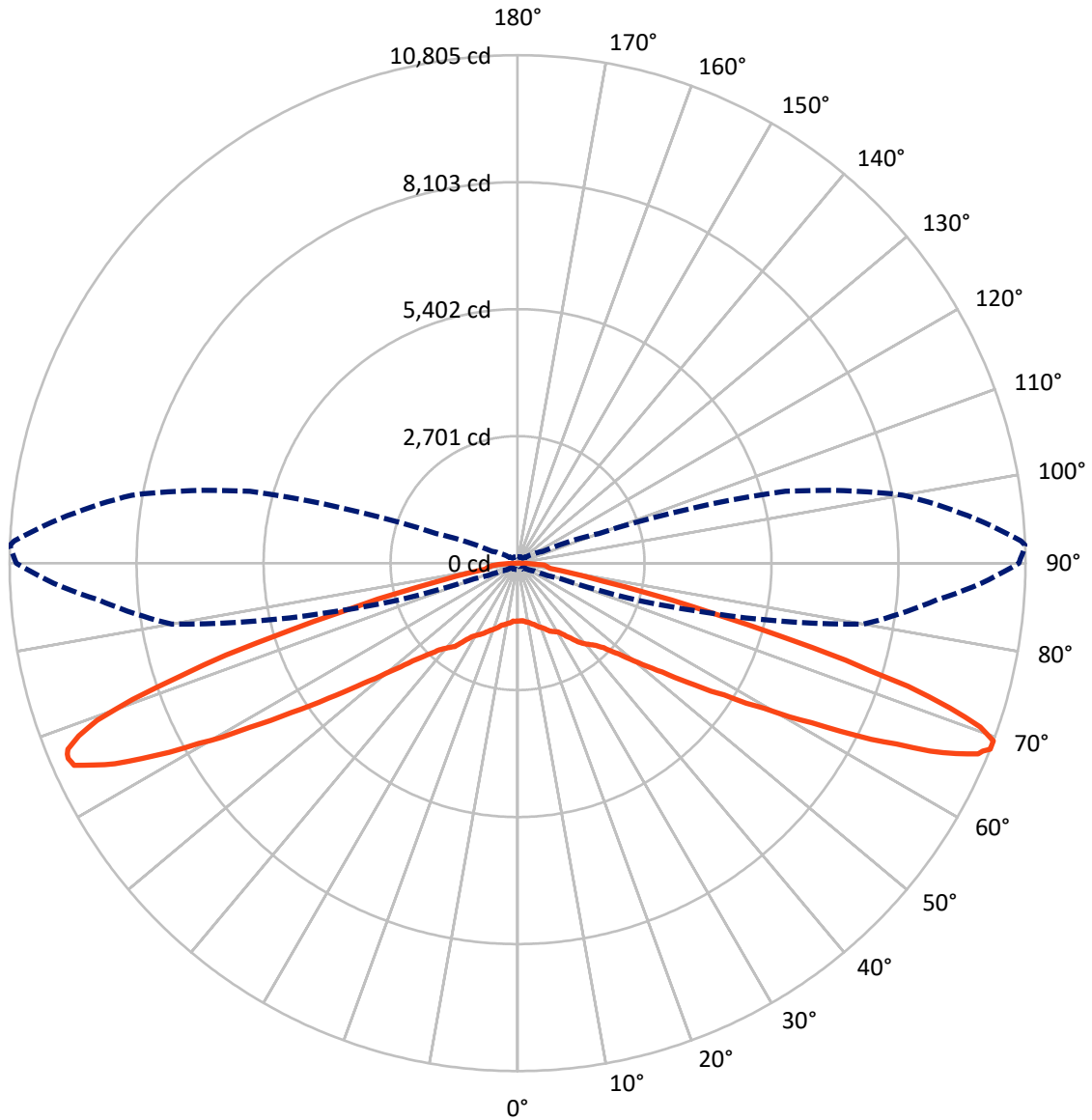
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 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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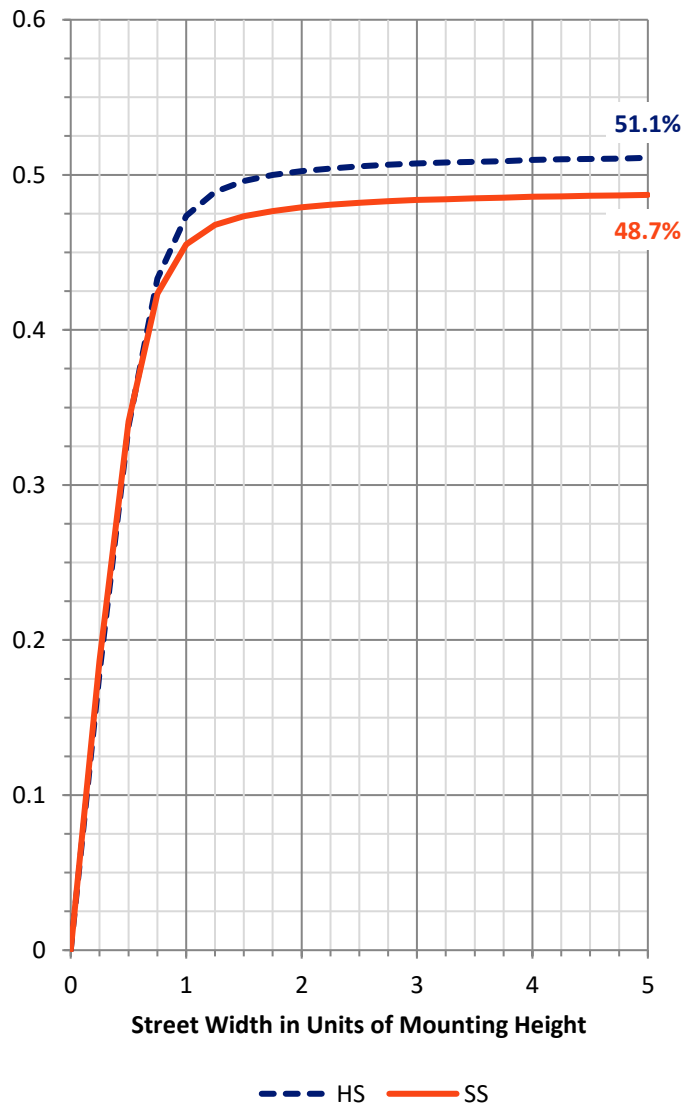
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3956.5	0.0	3956.5
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	3726.3	0.0	3726.3
	% Fixture	48.5	0.0	48.5
Total	Lumens	7682.8	0.0	7682.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	1.6
10°-20°	398.5	5.2
20°-30°	680.2	8.9
30°-40°	949.7	12.4
40°-50°	1208.0	15.7
50°-60°	1527.4	19.9
60°-70°	1883.7	24.5
70°-80°	822.9	10.7
80°-90°	89.2	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°	7682.8	100.0
0°-180°	7682.8	100.0



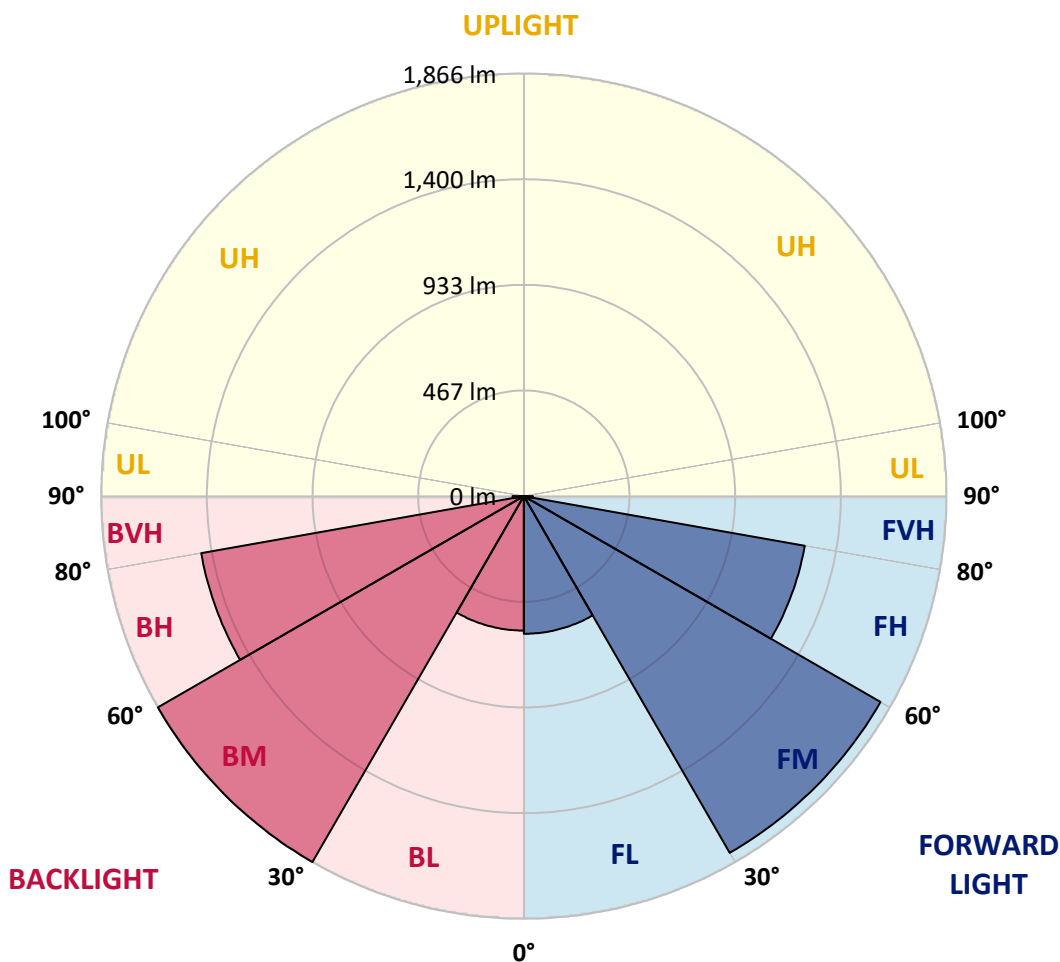
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	608.0	7.9			
FM (30°-60°)	1818.8	23.7			
FH (60°-80°)	1259.8	16.4			G1/1800
FVH (80°-90°)	39.6	0.5			G1/100
BL (0°-30°)	593.7	7.7	B2/1000		
BM (30°-60°)	1866.3	24.3	B2/2500		
BH (60°-80°)	1446.8	18.8	B3/2500		G3/2500
BVH (80°-90°)	49.7	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°	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5
2.5°	1254.5	1253.0	1257.4	1260.3	1247.3	1251.6	1248.7	1245.8	1235.7	1231.4	1222.8
5°	1289.1	1293.4	1307.8	1294.9	1300.6	1293.4	1270.4	1277.6	1264.6	1261.7	1253.0
7.5°	1349.7	1341.0	1361.2	1346.8	1351.1	1336.7	1326.6	1313.6	1310.7	1290.5	1292.0
10°	1362.6	1379.9	1388.6	1385.7	1388.6	1395.8	1377.1	1356.9	1329.5	1323.7	1303.5
12.5°	1354.0	1369.8	1392.9	1411.7	1424.6	1427.5	1420.3	1416.0	1404.5	1371.3	1369.8
15°	1345.3	1333.8	1348.2	1413.1	1456.4	1485.2	1495.3	1470.8	1473.7	1430.4	1413.1
17.5°	1287.7	1270.4	1326.6	1390.0	1443.4	1506.8	1555.9	1548.6	1548.6	1514.0	1489.5
20°	1211.2	1240.1	1268.9	1349.7	1447.7	1542.9	1636.6	1632.3	1615.0	1604.9	1551.5
22.5°	1146.3	1159.3	1212.7	1297.7	1420.3	1553.0	1664.0	1743.3	1702.9	1662.6	1630.8
25°	1101.6	1090.1	1157.9	1245.8	1394.4	1535.7	1715.9	1798.1	1819.7	1789.5	1728.9
27.5°	1038.2	1038.2	1091.6	1175.2	1310.7	1527.0	1766.4	1891.8	1923.6	1878.9	1790.9
30°	966.1	974.8	1020.9	1116.1	1248.7	1463.6	1786.6	2000.0	2025.9	1987.0	1896.2
32.5°	909.9	909.9	961.8	1062.7	1205.5	1434.7	1773.6	2106.7	2155.7	2126.9	2033.1
35°	849.3	845.0	882.5	993.5	1136.3	1378.5	1769.3	2191.8	2301.3	2302.8	2204.7
37.5°	762.8	780.1	827.7	915.6	1081.5	1323.7	1756.3	2294.1	2490.2	2523.4	2455.6
40°	705.1	712.3	755.6	852.2	996.4	1258.8	1737.5	2377.8	2615.7	2729.6	2635.9
42.5°	621.5	631.6	664.7	784.4	914.2	1166.5	1655.4	2436.9	2794.5	2924.3	2845.0
45°	533.5	539.3	588.3	686.4	826.2	1056.9	1567.4	2532.1	2967.5	3232.8	3186.7
47.5°	428.3	431.1	473.0	575.3	721.0	947.4	1431.8	2527.7	3107.4	3541.4	3671.2
50°	334.5	341.7	373.5	457.1	594.1	813.3	1274.7	2493.1	3283.3	3893.2	4148.5
52.5°	266.8	268.2	288.4	354.7	458.5	679.2	1106.0	2383.5	3449.1	4237.9	4733.9
55°	220.6	220.6	232.2	272.5	351.8	516.2	908.4	2201.8	3469.3	4618.5	5372.7
56°	212.0	209.1	219.2	253.8	317.2	465.7	816.1	2079.3	3498.2	4794.5	5692.8
57°	200.4	201.9	207.6	232.2	285.5	412.4	713.8	1959.6	3478.0	4938.7	5929.3
58°	194.7	191.8	203.3	219.2	252.3	366.3	643.1	1818.3	3446.2	5056.9	6273.9
59°	186.0	184.6	191.8	206.2	235.0	325.9	556.6	1665.4	3384.2	5209.7	6530.6
60°	183.1	181.7	184.6	196.1	216.3	285.5	490.3	1486.6	3218.4	5366.9	6849.2
61°	174.5	175.9	181.7	188.9	204.8	256.7	441.2	1303.5	3110.3	5499.6	7201.1
62°	175.9	173.0	175.9	181.7	193.2	236.5	386.4	1123.3	2917.1	5649.5	7464.9
63°	167.3	165.8	170.1	177.4	183.1	213.4	337.4	970.4	2697.9	5684.1	7688.4
64°	164.4	162.9	164.4	174.5	175.9	200.4	298.5	829.1	2380.6	5743.3	7975.4
65°	157.2	157.2	160.1	164.4	170.1	188.9	266.8	719.5	2064.9	5587.5	8063.3
66°	151.4	152.8	152.8	160.1	164.4	175.9	245.1	611.4	1762.1	5339.5	8148.4
67°	147.1	147.1	148.5	154.3	158.6	165.8	220.6	529.2	1486.6	5043.9	8017.2
67.5°	144.2	145.6	145.6	151.4	155.7	165.8	210.5	501.8	1329.5	4719.5	7919.2
68°	139.9	141.3	141.3	147.1	151.4	160.1	203.3	458.5	1225.7	4509.0	7737.5
69°	137.0	135.5	135.5	141.3	147.1	152.8	188.9	400.9	974.8	3920.6	7472.2
70°	128.3	128.3	131.2	135.5	139.9	145.6	174.5	353.3	824.8	3245.8	6788.7
71°	124.0	122.6	124.0	128.3	132.7	139.9	160.1	312.9	674.8	2695.0	6116.7
72°	115.4	118.2	118.2	122.6	126.9	131.2	150.0	272.5	566.7	2154.3	5377.0
72.5°	113.9	113.9	115.4	119.7	122.6	129.8	144.2	261.0	517.7	1899.0	5067.0
73°	109.6	109.6	111.0	115.4	118.2	125.4	139.9	235.0	471.5	1690.0	4487.3
74°	105.3	103.8	103.8	109.6	111.0	118.2	131.2	207.6	395.1	1273.2	3602.0
75°	98.1	98.1	99.5	102.4	103.8	109.6	121.1	184.6	333.1	987.7	2817.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	80.7	82.2	83.6	86.5	86.5	90.8	99.5	128.3	203.3	500.4	1293.4
80°	59.1	62.0	66.3	70.7	69.2	69.2	77.9	92.3	121.1	224.9	496.0
82.5°	47.6	50.5	46.1	51.9	51.9	49.0	56.2	67.8	82.2	111.0	177.4
85°	31.7	33.2	27.4	31.7	30.3	30.3	37.5	40.4	50.5	62.0	88.0
87.5°	14.4	14.4	11.5	13.0	13.0	13.0	18.7	14.4	21.6	30.3	51.9
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°	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5
2.5°	1231.4	1237.2	1237.2	1231.4	1227.1	1231.4	1228.5	1221.3	1228.5	1231.4	1232.9
5°	1248.7	1237.2	1243.0	1230.0	1238.6	1237.2	1234.3	1241.5	1243.0	1243.0	1253.0
7.5°	1267.5	1281.9	1263.1	1264.6	1268.9	1251.6	1257.4	1260.3	1254.5	1266.0	1274.7
10°	1300.6	1306.4	1300.6	1279.0	1293.4	1281.9	1277.6	1290.5	1287.7	1290.5	1303.5
12.5°	1330.9	1341.0	1325.1	1323.7	1316.5	1306.4	1312.2	1310.7	1330.9	1333.8	1349.7
15°	1392.9	1367.0	1361.2	1359.8	1356.9	1352.5	1355.4	1356.9	1382.8	1387.1	1424.6
17.5°	1446.3	1441.9	1410.2	1421.8	1421.8	1404.5	1397.2	1421.8	1441.9	1463.6	1489.5
20°	1501.1	1496.7	1462.1	1463.6	1450.6	1466.5	1457.8	1480.9	1515.5	1522.7	1545.8
22.5°	1566.0	1547.2	1522.7	1525.6	1529.9	1518.4	1512.6	1544.3	1578.9	1599.1	1600.6
25°	1668.3	1620.7	1600.6	1603.4	1597.7	1589.0	1593.3	1633.7	1651.0	1694.3	1685.6
27.5°	1723.1	1695.7	1681.3	1648.1	1649.6	1636.6	1653.9	1714.5	1749.1	1782.2	1715.9
30°	1789.5	1772.1	1708.7	1697.2	1695.7	1690.0	1721.7	1799.5	1851.5	1870.2	1775.0
32.5°	1919.2	1850.0	1834.2	1824.1	1801.0	1808.2	1824.1	1926.4	2008.6	2004.3	1829.8
35°	2067.7	2020.2	1975.5	1966.8	1963.9	1943.7	1971.1	2090.8	2154.3	2135.5	1850.0
37.5°	2305.7	2233.6	2173.0	2139.8	2134.1	2119.7	2184.5	2279.7	2361.9	2288.4	1865.9
40°	2422.5	2341.7	2285.5	2265.3	2269.6	2289.8	2353.3	2498.9	2534.9	2399.4	1878.9
42.5°	2589.7	2501.8	2390.7	2380.6	2367.7	2377.8	2500.3	2696.4	2726.7	2549.4	1829.8
45°	2886.8	2754.1	2625.8	2568.1	2571.0	2598.4	2788.7	3003.6	2947.3	2653.2	1752.0
47.5°	3261.7	3067.0	2963.2	2885.3	2922.8	2892.5	3195.3	3366.9	3175.2	2784.4	1656.8
50°	3825.5	3552.9	3411.6	3317.9	3333.8	3359.7	3666.9	3812.5	3427.5	2847.8	1511.2
52.5°	4536.4	4186.0	3978.3	3852.9	3864.4	3920.6	4317.2	4272.5	3715.9	2901.2	1316.5
55°	5387.1	5026.6	4624.3	4572.4	4559.4	4693.5	5130.4	4754.1	3975.4	2816.1	1114.6
56°	5837.0	5453.4	5035.3	4928.6	4896.8	4990.6	5503.9	4994.9	4064.8	2720.9	1018.0
57°	6219.1	5852.8	5394.3	5212.6	5253.0	5428.9	5874.5	5221.3	4147.0	2622.9	927.2
58°	6744.0	6325.8	5841.3	5702.9	5666.8	5806.7	6273.9	5449.1	4174.4	2522.0	843.5
59°	7267.4	6765.6	6328.7	6076.3	6086.4	6341.7	6667.5	5720.2	4216.2	2393.6	736.8
60°	7665.4	7413.0	6829.0	6640.1	6614.2	6983.3	7059.8	5901.9	4260.9	2220.6	661.9
61°	8229.2	7900.4	7356.8	7113.1	7183.8	7479.4	7483.7	6129.7	4194.6	2001.4	569.6
62°	8634.4	8547.8	7976.8	7744.7	7723.0	8115.3	7924.9	6330.1	4136.9	1793.8	503.2
63°	9108.8	9108.8	8588.2	8406.5	8416.6	8726.6	8116.7	6530.6	4070.6	1564.5	442.7
64°	9355.3	9665.3	9185.2	8930.0	8996.3	9264.5	8458.4	6661.8	3865.8	1332.4	389.3
65°	9568.7	10034.5	9767.7	9649.5	9548.5	9707.2	8754.0	6784.3	3552.9	1133.4	346.1
66°	9749.0	10382.0	10294.0	10167.1	10157.0	10121.0	8811.7	6780.0	3230.0	957.5	302.8
67°	9658.1	10389.2	10549.3	10602.6	10586.7	10206.1	8710.8	6625.7	2816.1	808.9	269.6
67.5°	9575.9	10330.1	10702.1	10671.8	10738.2	10278.2	8728.1	6436.8	2522.0	732.5	253.8
68°	9503.8	10250.8	10764.1	10803.0	10769.9	10286.8	8632.9	6286.9	2321.5	687.8	239.4
69°	8957.4	9874.4	10664.6	10804.5	10719.4	9956.6	8330.1	5896.1	1844.2	586.9	220.6
70°	8409.4	9387.1	10181.6	10438.2	10333.0	9317.8	7948.0	5274.6	1521.3	501.8	199.0
71°	7651.0	8481.5	9538.5	9692.7	9565.9	8591.1	7157.8	4618.5	1183.8	425.4	177.4
72°	6621.4	7326.5	8335.9	8709.3	8521.9	7545.7	6359.0	3816.8	958.9	357.6	161.5
72.5°	6111.0	6833.4	7806.7	7837.0	7873.0	7091.5	6020.1	3352.5	836.3	331.6	157.2
73°	5626.5	6334.5	7176.6	7283.3	7130.4	6325.8	5514.0	2997.8	764.2	302.8	151.4
74°	4559.4	4963.2	5661.1	5764.9	5630.8	5157.8	4506.1	2298.5	608.5	261.0	138.4
75°	3587.6	3809.6	4441.2	4377.7	4177.3	4011.5	3493.8	1756.3	493.1	229.3	128.3



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1612.1	1746.2	1851.5	1851.5	1863.0	1777.9	1610.7	806.0	304.3	165.8	105.3
80°	614.3	687.8	710.9	712.3	722.4	748.4	696.5	396.5	180.2	118.2	85.1
82.5°	445.6	622.9	670.5	635.9	638.8	576.8	266.8	175.9	113.9	82.2	62.0
85°	403.7	542.2	573.9	569.6	571.0	533.5	157.2	86.5	66.3	51.9	43.3
87.5°	196.1	191.8	203.3	229.3	223.5	289.8	132.7	43.3	28.8	21.6	21.6
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: P676215

CATALOG NUMBER: CCW-SA-2C-850-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5
2.5°	1221.3	1219.9	1240.1	1219.9	1231.4	1222.8
5°	1235.7	1241.5	1245.8	1254.5	1234.3	1254.5
7.5°	1279.0	1284.8	1286.2	1293.4	1284.8	1283.3
10°	1312.2	1326.6	1335.2	1306.4	1323.7	1322.3
12.5°	1377.1	1362.6	1361.2	1355.4	1339.6	1333.8
15°	1423.2	1401.6	1388.6	1365.5	1346.8	1339.6
17.5°	1488.1	1446.3	1392.9	1345.3	1312.2	1286.2
20°	1528.5	1453.5	1346.8	1290.5	1240.1	1251.6
22.5°	1554.4	1446.3	1305.0	1232.9	1182.4	1196.8
25°	1563.1	1410.2	1276.1	1186.7	1137.7	1127.6
27.5°	1538.6	1368.4	1219.9	1118.9	1075.7	1084.3
30°	1527.0	1307.8	1168.0	1068.5	1010.8	1019.5
32.5°	1496.7	1245.8	1098.8	997.8	956.0	941.6
35°	1453.5	1193.9	1032.4	937.3	886.8	875.3
37.5°	1400.1	1129.0	974.8	859.4	814.7	806.0
40°	1320.8	1051.2	891.1	791.6	739.7	738.3
42.5°	1251.6	976.2	813.3	710.9	659.0	661.9
45°	1163.6	875.3	723.9	635.9	584.0	586.9
47.5°	1051.2	781.5	638.8	540.7	497.5	494.6
50°	918.5	674.8	535.0	451.3	415.3	408.1
52.5°	791.6	566.7	438.4	363.4	333.1	330.2
55°	631.6	441.2	341.7	285.5	262.4	263.9
56°	573.9	406.6	311.5	261.0	243.7	243.7
57°	519.1	360.5	282.6	240.8	224.9	224.9
58°	458.5	317.2	256.7	217.7	210.5	204.8
59°	416.7	288.4	232.2	206.2	194.7	193.2
60°	367.7	259.5	216.3	193.2	184.6	183.1
61°	325.9	233.6	199.0	180.2	177.4	177.4
62°	291.3	216.3	184.6	174.5	173.0	168.7
63°	261.0	199.0	177.4	165.8	161.5	165.8
64°	233.6	183.1	171.6	162.9	157.2	160.1
65°	212.0	175.9	164.4	158.6	152.8	154.3
66°	197.5	164.4	158.6	151.4	148.5	150.0
67°	178.8	158.6	152.8	145.6	144.2	145.6
67.5°	173.0	154.3	150.0	142.8	141.3	142.8
68°	168.7	151.4	148.5	141.3	139.9	138.4
69°	157.2	145.6	141.3	138.4	135.5	134.1
70°	147.1	139.9	137.0	132.7	129.8	128.3
71°	141.3	132.7	131.2	126.9	124.0	122.6
72°	134.1	128.3	125.4	119.7	118.2	119.7
72.5°	132.7	125.4	124.0	118.2	116.8	116.8
73°	128.3	119.7	121.1	115.4	112.5	115.4
74°	119.7	116.8	113.9	109.6	108.1	108.1
75°	112.5	109.6	106.7	103.8	103.8	103.8



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	135°	145°	155°	165°	175°	180°
77.5°	95.2	93.7	95.2	89.4	88.0	86.5
80°	76.4	76.4	77.9	73.5	70.7	69.2
82.5°	57.7	59.1	62.0	57.7	54.8	51.9
85°	37.5	38.9	38.9	34.6	40.4	37.5
87.5°	18.7	20.2	18.7	17.3	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)