

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: P675922

Luminaire Tested: **CCW-SA-1D-850-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675922
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-850-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SLL distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

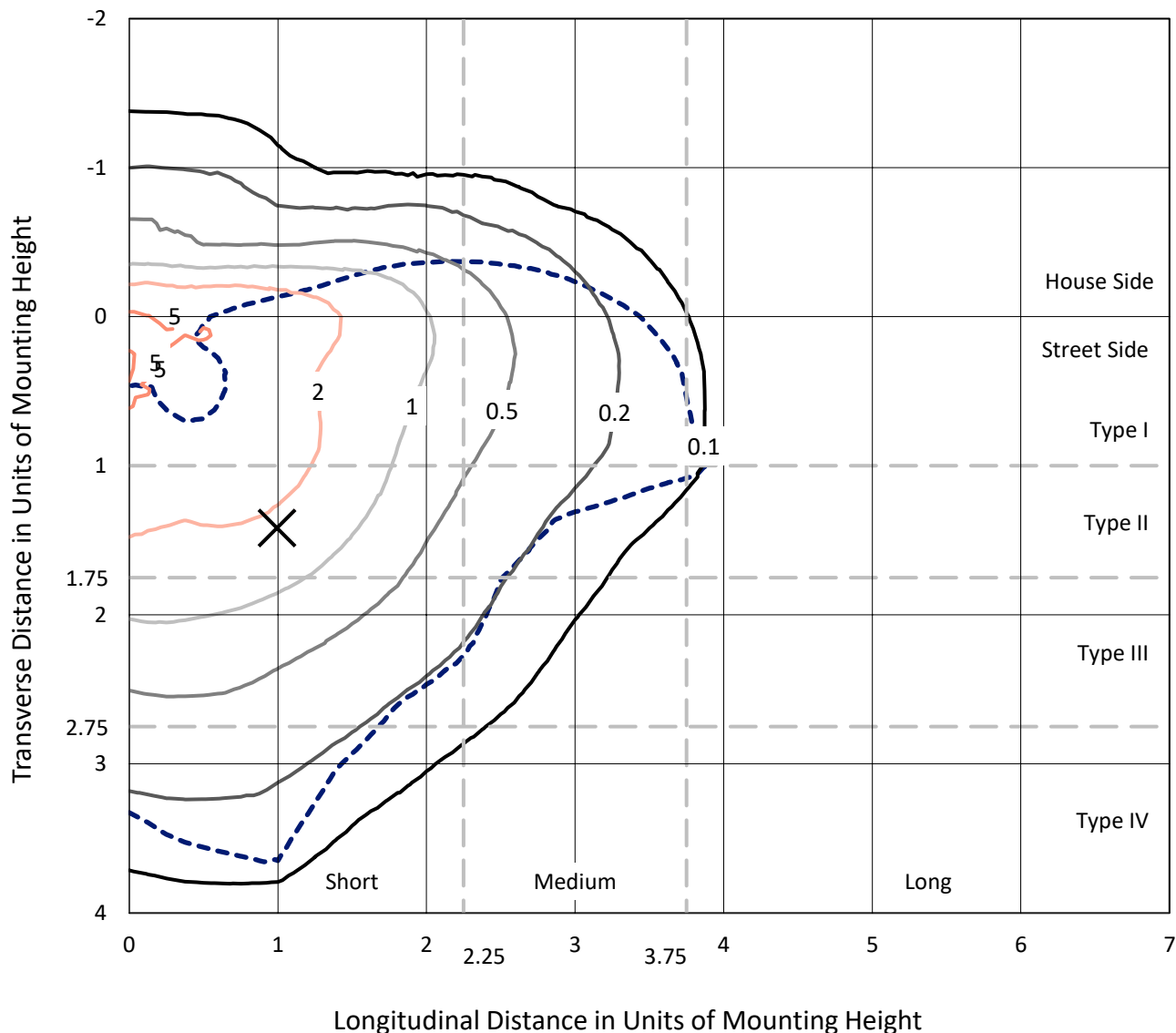
Lumens per Lamp: N/A
Luminaire Lumens: 4037.8 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P675922
 CATALOG NUMBER: CCW-SA-1D-850-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

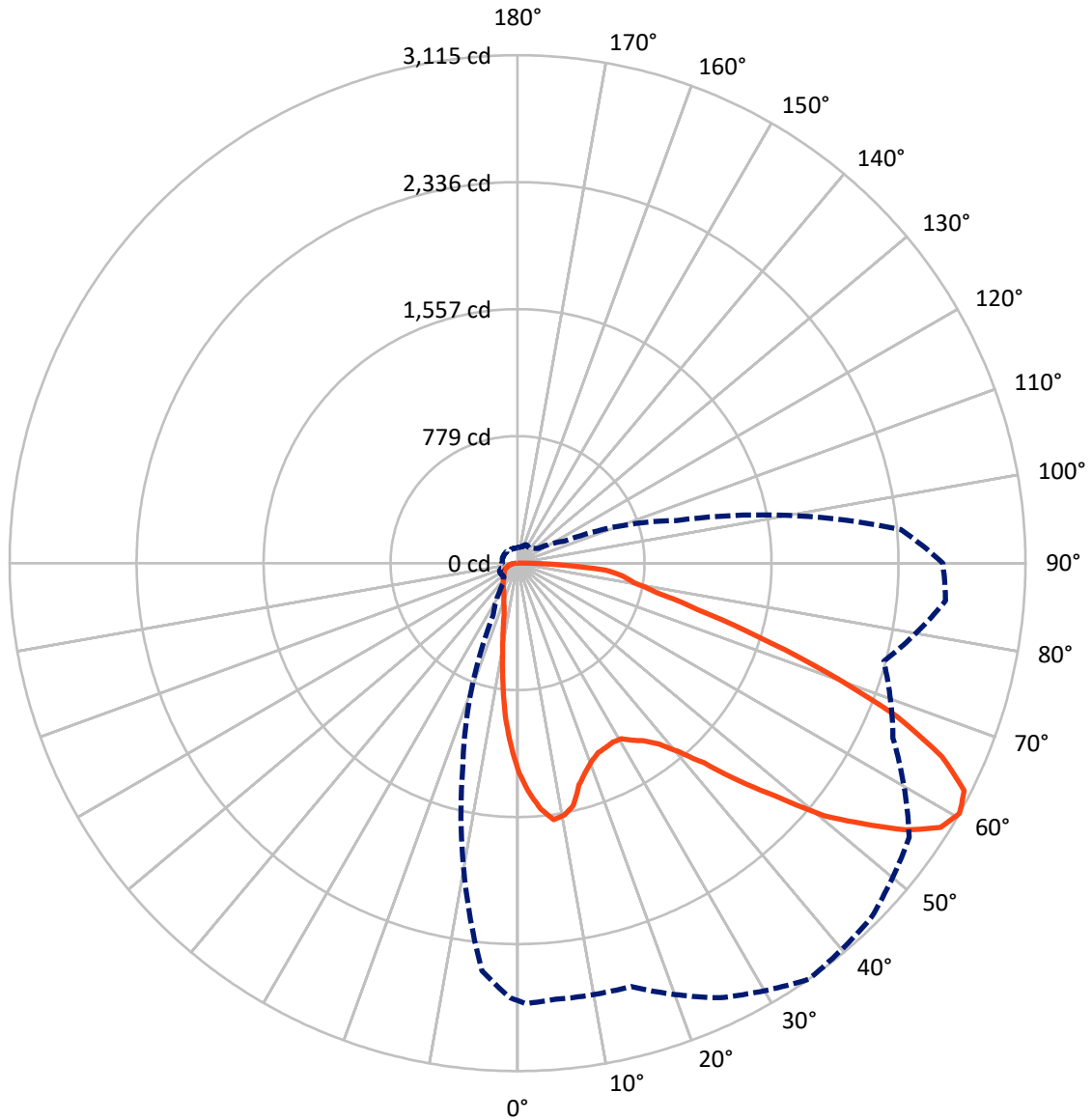
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P675922
CATALOG NUMBER: CCW-SA-1D-850-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P675922
 CATALOG NUMBER: CCW-SA-1D-850-U-SLL

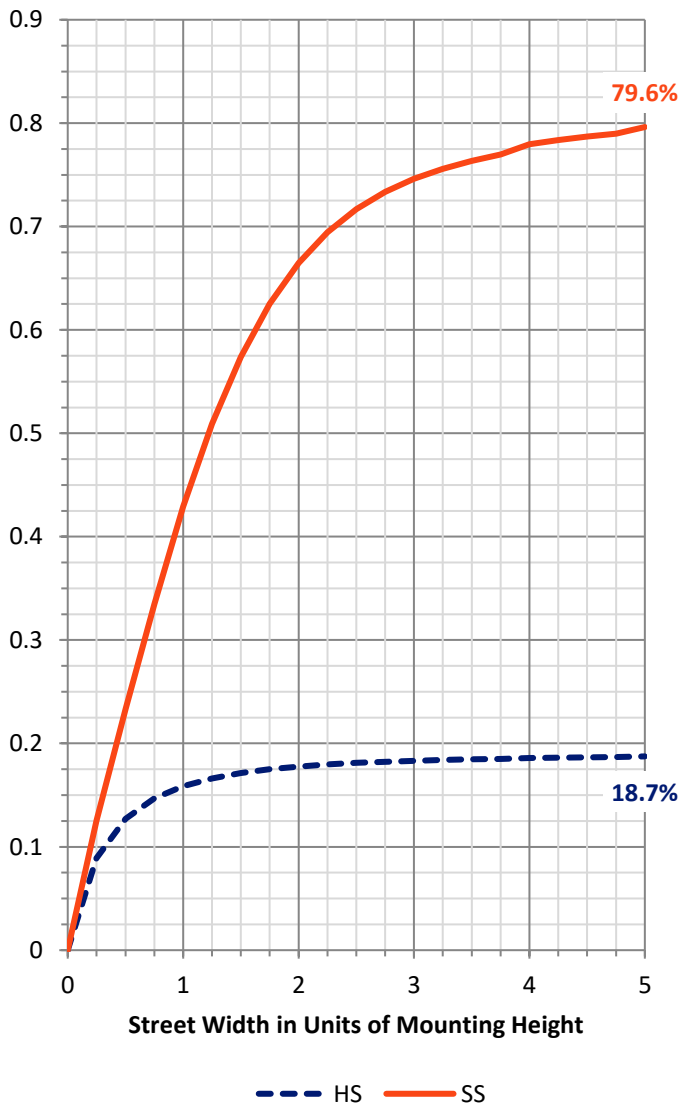
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	768.4	0.0	768.4
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3269.3	0.0	3269.3
	% Fixture	81.0	0.0	81.0
Total	Lumens	4037.8	0.0	4037.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	2.5
10°-20°	211.5	5.2
20°-30°	309.5	7.7
30°-40°	436.1	10.8
40°-50°	599.3	14.8
50°-60°	816.7	20.2
60°-70°	893.9	22.1
70°-80°	516.1	12.8
80°-90°	154.5	3.8
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°	4037.8	100.0
0°-180°	4037.8	100.0



REPORT NUMBER: P675922

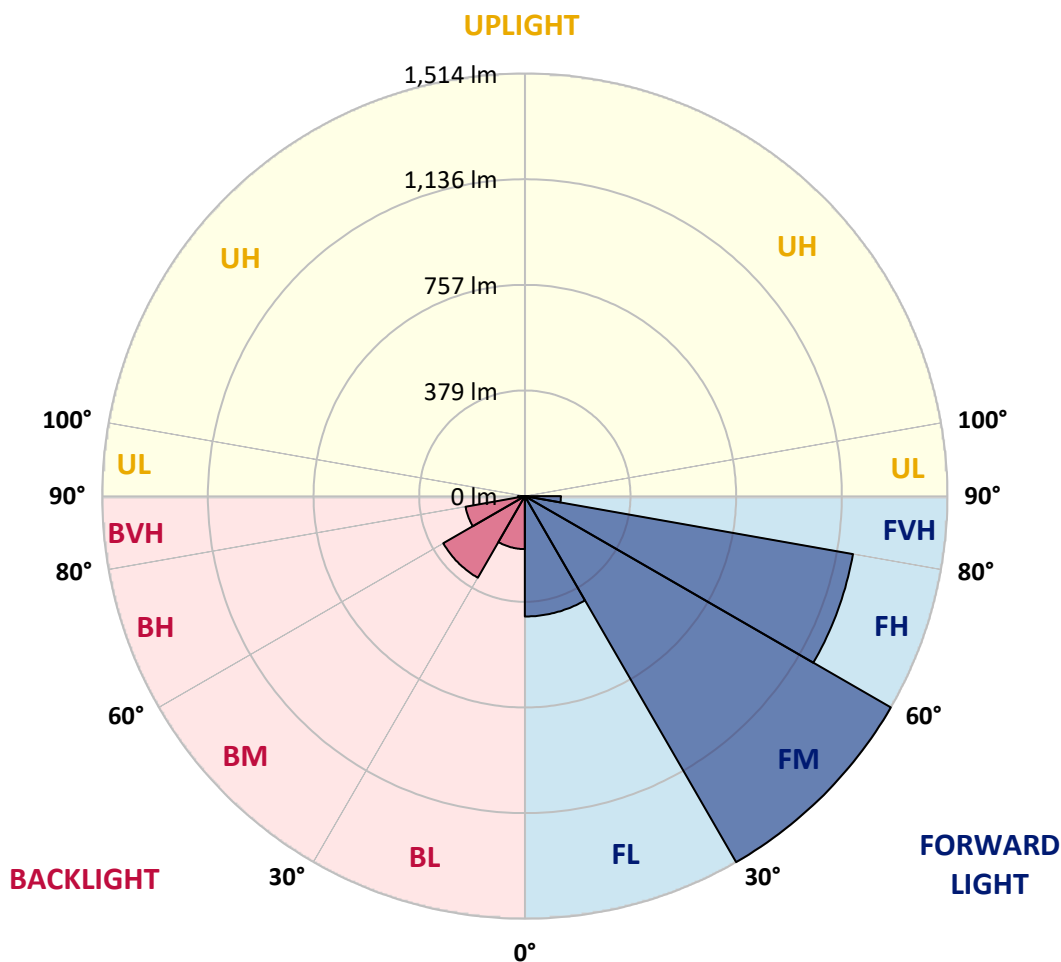
CATALOG NUMBER: CCW-SA-1D-850-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.4	10.7			
FM (30°-60°)	1514.5	37.5			
FH (60°-80°)	1194.1	29.6			G1/1800
FVH (80°-90°)	129.4	3.2			G2/225
BL (0°-30°)	189.9	4.7	B1/500		
BM (30°-60°)	337.6	8.4	B1/1000		
BH (60°-80°)	215.8	5.3	B1/500		G1/500
BVH (80°-90°)	25.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P675922

CATALOG NUMBER: CCW-SA-1D-850-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6
2.5°	1381.0	1375.6	1381.0	1400.7	1406.1	1415.0	1415.0	1402.5	1379.2	1368.5	1350.5
5°	1411.4	1402.5	1447.3	1488.5	1520.7	1517.1	1486.7	1461.6	1415.0	1345.2	1278.9
7.5°	1350.5	1359.5	1391.7	1499.2	1574.4	1588.8	1540.4	1490.3	1389.9	1293.2	1203.7
10°	1235.9	1248.4	1318.3	1429.4	1547.6	1570.9	1540.4	1479.5	1359.5	1239.5	1135.6
12.5°	1180.4	1209.0	1250.2	1384.6	1468.8	1524.3	1510.0	1470.6	1336.2	1194.7	1094.4
15°	1180.4	1187.5	1248.4	1361.3	1409.7	1411.4	1416.8	1424.0	1343.4	1214.4	1080.1
17.5°	1218.0	1237.7	1289.6	1359.5	1368.5	1347.0	1347.0	1377.4	1357.7	1269.9	1132.0
20°	1309.3	1302.2	1370.2	1398.9	1350.5	1296.8	1291.4	1343.4	1373.8	1329.0	1227.0
22.5°	1400.7	1432.9	1488.5	1424.0	1334.4	1262.8	1255.6	1320.1	1422.2	1431.1	1336.2
25°	1538.6	1570.9	1599.5	1520.7	1332.6	1253.8	1259.2	1309.3	1481.3	1576.2	1518.9
27.5°	1687.3	1707.0	1748.2	1626.4	1375.6	1243.1	1248.4	1323.7	1536.8	1671.2	1662.2
30°	1771.5	1793.0	1784.0	1646.1	1404.3	1250.2	1235.9	1343.4	1506.4	1671.2	1755.3
32.5°	1853.9	1841.3	1836.0	1678.3	1440.1	1295.0	1259.2	1384.6	1524.3	1698.0	1875.4
35°	1954.2	1936.3	1921.9	1741.0	1499.2	1338.0	1321.9	1438.3	1563.7	1753.6	1972.1
37.5°	2065.2	2065.2	1995.4	1787.6	1569.1	1407.9	1389.9	1515.3	1626.4	1787.6	2104.6
40°	2196.0	2201.3	2077.8	1850.3	1647.9	1518.9	1513.5	1615.6	1687.3	1837.7	2231.8
42.5°	2292.7	2296.3	2149.4	1873.6	1739.2	1673.0	1696.2	1776.8	1757.1	1882.5	2240.8
45°	2359.0	2341.1	2199.6	1939.8	1839.5	1904.0	1911.2	1934.5	1848.5	1909.4	2276.6
47.5°	2391.2	2387.6	2221.1	2016.9	2050.9	2138.7	2179.9	2147.6	1932.7	1880.7	2276.6
50°	2423.5	2393.0	2240.8	2122.5	2256.9	2434.2	2425.2	2366.1	2049.1	1916.6	2242.5
52.5°	2444.9	2418.1	2280.2	2217.5	2453.9	2654.5	2690.3	2581.1	2185.2	1982.8	2258.7
55°	2522.0	2500.5	2398.4	2346.4	2681.4	2887.4	2892.7	2740.5	2328.5	2092.1	2364.3
57.5°	2615.1	2627.6	2561.4	2529.1	2855.1	3057.5	3037.8	2858.7	2450.3	2224.6	2486.1
60°	2681.4	2701.1	2685.0	2688.5	2941.1	3114.8	3070.1	2932.1	2539.9	2324.9	2634.8
62.5°	2645.6	2685.0	2751.2	2736.9	2944.7	3073.6	3011.0	2835.4	2550.6	2455.7	2747.7
65°	2547.0	2550.6	2679.6	2758.4	2783.5	2860.5	2778.1	2633.0	2439.6	2536.3	2731.5
67.5°	2294.5	2323.1	2439.6	2593.6	2487.9	2505.8	2498.7	2289.1	2271.2	2480.8	2607.9
70°	2025.8	2045.5	2172.7	2353.6	2101.0	2016.9	2033.0	1877.1	1950.6	2308.8	2359.0
72.5°	1674.7	1687.3	1832.4	1991.8	1685.5	1535.0	1572.6	1445.5	1549.4	2020.4	1990.0
75°	1264.6	1287.9	1400.7	1588.8	1241.3	1144.6	1182.2	1130.2	1227.0	1664.0	1544.0
77.5°	899.2	881.3	1021.0	1243.1	933.2	875.9	879.5	888.4	992.3	1402.5	1108.7
80°	612.6	618.0	743.3	911.7	732.6	723.6	714.7	786.3	832.9	1110.5	806.0
82.5°	363.6	363.6	501.5	648.4	578.5	652.0	610.8	675.3	652.0	816.8	528.4
85°	170.2	170.2	257.9	467.5	447.8	537.4	456.7	510.5	481.8	569.6	238.2
87.5°	28.7	25.1	51.9	229.3	184.5	209.6	82.4	272.3	302.7	397.6	59.1
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: P675922
 CATALOG NUMBER: CCW-SA-1D-850-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6
2.5°	1330.8	1318.3	1293.2	1261.0	1234.1	1200.1	1189.3	1166.1	1133.8	1130.2	1115.9
5°	1253.8	1210.8	1157.1	1090.8	1046.0	999.5	960.1	936.8	909.9	906.3	899.2
7.5°	1169.6	1115.9	1026.3	947.5	870.5	797.1	761.2	716.5	686.0	662.7	652.0
10°	1090.8	1040.7	929.6	822.1	754.1	705.7	662.7	616.2	578.5	549.9	539.1
12.5°	1038.9	979.8	859.8	757.7	707.5	652.0	603.6	553.5	505.1	467.5	447.8
15°	1015.6	960.1	838.3	725.4	652.0	575.0	519.4	469.3	410.2	383.3	374.4
17.5°	1071.1	988.7	831.1	687.8	583.9	496.2	428.1	374.4	331.4	304.5	293.8
20°	1142.8	1040.7	843.6	643.0	519.4	420.9	345.7	288.4	259.7	240.0	238.2
22.5°	1234.1	1117.7	863.3	610.8	447.8	338.5	270.5	236.4	216.7	214.9	211.4
25°	1397.1	1257.4	895.6	567.8	390.5	279.4	231.1	211.4	202.4	197.0	200.6
27.5°	1536.8	1348.8	918.9	540.9	367.2	263.3	223.9	202.4	193.4	191.7	193.4
30°	1619.2	1432.9	911.7	490.8	320.6	250.8	238.2	231.1	213.1	198.8	198.8
32.5°	1694.4	1486.7	909.9	446.0	274.0	209.6	198.8	193.4	204.2	211.4	206.0
35°	1798.3	1570.9	904.5	420.9	254.3	193.4	175.5	161.2	154.0	150.5	155.8
37.5°	1909.4	1628.2	890.2	417.3	243.6	184.5	170.2	155.8	148.7	145.1	143.3
40°	2031.2	1689.1	874.1	399.4	238.2	179.1	164.8	152.2	143.3	137.9	136.1
42.5°	2110.0	1737.4	858.0	390.5	227.5	175.5	159.4	148.7	139.7	132.5	132.5
45°	2154.8	1794.8	841.9	381.5	214.9	177.3	159.4	145.1	134.3	130.8	127.2
47.5°	2174.5	1837.7	836.5	367.2	204.2	170.2	155.8	141.5	130.8	123.6	121.8
50°	2226.4	1929.1	856.2	356.4	191.7	163.0	164.8	139.7	129.0	120.0	118.2
52.5°	2256.9	2002.5	899.2	340.3	182.7	154.0	161.2	136.1	123.6	114.6	114.6
55°	2367.9	2124.3	945.7	327.8	172.0	141.5	148.7	129.0	114.6	109.3	109.3
57.5°	2509.4	2253.3	985.1	322.4	164.8	132.5	132.5	125.4	109.3	102.1	100.3
60°	2607.9	2359.0	1008.4	318.8	157.6	123.6	118.2	125.4	103.9	96.7	94.9
62.5°	2618.7	2298.1	985.1	317.0	155.8	114.6	107.5	120.0	98.5	91.3	87.8
65°	2550.6	2174.5	920.7	309.9	154.0	105.7	100.3	103.9	91.3	86.0	82.4
67.5°	2414.5	1973.9	827.5	306.3	152.2	98.5	91.3	89.6	84.2	78.8	75.2
70°	2097.5	1712.4	718.3	290.2	148.7	93.1	82.4	80.6	75.2	71.6	69.9
72.5°	1760.7	1400.7	592.9	268.7	141.5	84.2	75.2	71.6	69.9	64.5	62.7
75°	1348.8	1078.3	474.7	238.2	123.6	75.2	66.3	62.7	60.9	57.3	55.5
77.5°	947.5	802.4	351.1	193.4	103.9	68.1	59.1	55.5	53.7	48.4	48.4
80°	643.0	562.4	238.2	134.3	80.6	55.5	51.9	48.4	44.8	41.2	41.2
82.5°	399.4	394.1	172.0	87.8	59.1	44.8	41.2	41.2	35.8	32.2	32.2
85°	182.7	241.8	120.0	60.9	44.8	34.0	34.0	32.2	28.7	23.3	23.3
87.5°	57.3	80.6	62.7	26.9	25.1	19.7	19.7	17.9	17.9	14.3	14.3
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: P675922
 CATALOG NUMBER: CCW-SA-1D-850-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6
2.5°	1130.2	1128.4	1128.4	1121.3	1139.2	1139.2	1149.9	1141.0	1146.3	1148.1	1162.5
5°	897.4	911.7	922.5	943.9	956.5	961.9	961.9	976.2	970.8	981.6	1003.1
7.5°	657.4	675.3	707.5	734.4	755.9	763.0	761.2	764.8	770.2	757.7	761.2
10°	532.0	519.4	530.2	555.3	575.0	598.3	580.3	578.5	583.9	578.5	589.3
12.5°	444.2	429.9	420.9	420.9	435.3	446.0	440.6	449.6	469.3	474.7	487.2
15°	360.0	347.5	340.3	331.4	345.7	349.3	354.7	367.2	381.5	388.7	403.0
17.5°	288.4	288.4	288.4	281.2	286.6	292.0	293.8	309.9	311.7	318.8	324.2
20°	236.4	241.8	250.8	254.3	259.7	259.7	256.1	265.1	257.9	263.3	266.9
22.5°	213.1	220.3	223.9	225.7	232.9	234.6	225.7	227.5	229.3	223.9	225.7
25°	200.6	204.2	200.6	202.4	204.2	200.6	202.4	206.0	204.2	207.8	206.0
27.5°	195.2	191.7	189.9	188.1	188.1	184.5	186.3	186.3	189.9	191.7	191.7
30°	195.2	189.9	182.7	177.3	177.3	172.0	175.5	179.1	180.9	184.5	184.5
32.5°	200.6	189.9	177.3	172.0	166.6	163.0	166.6	172.0	179.1	180.9	182.7
35°	159.4	164.8	163.0	155.8	154.0	154.0	152.2	152.2	146.9	146.9	145.1
37.5°	143.3	141.5	145.1	146.9	148.7	143.3	143.3	136.1	134.3	136.1	136.1
40°	134.3	134.3	134.3	139.7	141.5	137.9	132.5	129.0	129.0	129.0	130.8
42.5°	130.8	127.2	125.4	129.0	134.3	130.8	125.4	123.6	123.6	125.4	125.4
45°	125.4	123.6	121.8	120.0	127.2	121.8	120.0	118.2	118.2	118.2	120.0
47.5°	120.0	118.2	114.6	114.6	116.4	114.6	112.8	112.8	112.8	116.4	116.4
50°	116.4	114.6	111.1	111.1	111.1	111.1	109.3	109.3	109.3	111.1	112.8
52.5°	111.1	109.3	107.5	105.7	105.7	105.7	105.7	105.7	105.7	107.5	109.3
55°	105.7	103.9	102.1	102.1	103.9	103.9	102.1	103.9	102.1	103.9	105.7
57.5°	100.3	98.5	96.7	98.5	100.3	98.5	98.5	98.5	98.5	98.5	100.3
60°	93.1	93.1	93.1	93.1	96.7	96.7	96.7	96.7	93.1	94.9	96.7
62.5°	89.6	87.8	87.8	89.6	91.3	91.3	93.1	91.3	89.6	91.3	91.3
65°	82.4	82.4	82.4	84.2	84.2	86.0	86.0	86.0	84.2	86.0	86.0
67.5°	77.0	77.0	77.0	77.0	80.6	80.6	80.6	80.6	78.8	78.8	80.6
70°	68.1	69.9	68.1	71.6	75.2	73.4	75.2	75.2	73.4	71.6	75.2
72.5°	62.7	62.7	62.7	62.7	68.1	68.1	68.1	69.9	68.1	66.3	68.1
75°	55.5	55.5	55.5	57.3	60.9	60.9	60.9	60.9	60.9	59.1	59.1
77.5°	48.4	50.2	48.4	50.2	53.7	51.9	53.7	55.5	53.7	51.9	51.9
80°	41.2	41.2	41.2	43.0	44.8	44.8	44.8	46.6	44.8	43.0	43.0
82.5°	32.2	32.2	34.0	34.0	35.8	35.8	35.8	37.6	35.8	34.0	34.0
85°	25.1	25.1	25.1	26.9	26.9	28.7	28.7	30.4	30.4	28.7	28.7
87.5°	16.1	14.3	16.1	16.1	17.9	17.9	16.1	14.3	16.1	14.3	12.5
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: P675922
 CATALOG NUMBER: CCW-SA-1D-850-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6
2.5°	1176.8	1209.0	1232.3	1248.4	1271.7	1316.5	1334.4	1366.7	1375.6	1381.0
5°	1012.0	1046.0	1096.2	1132.0	1173.2	1257.4	1321.9	1370.2	1391.7	1411.4
7.5°	793.5	838.3	890.2	936.8	1004.8	1108.7	1192.9	1293.2	1330.8	1350.5
10°	619.7	660.9	718.3	775.6	870.5	958.3	1078.3	1169.6	1221.6	1235.9
12.5°	523.0	571.4	639.4	709.3	768.4	868.7	990.5	1123.1	1171.4	1180.4
15°	444.2	510.5	580.3	652.0	720.1	807.8	938.6	1099.8	1171.4	1180.4
17.5°	367.2	426.3	508.7	585.7	664.5	784.5	947.5	1119.5	1191.1	1218.0
20°	292.0	349.3	413.8	510.5	618.0	745.1	967.2	1185.8	1280.7	1309.3
22.5°	241.8	266.9	329.6	422.7	549.9	718.3	986.9	1289.6	1389.9	1400.7
25°	211.4	229.3	268.7	356.4	496.2	700.3	1033.5	1409.7	1538.6	1538.6
27.5°	197.0	204.2	231.1	309.9	458.5	684.2	1080.1	1542.2	1662.2	1687.3
30°	193.4	211.4	225.7	275.8	417.3	639.4	1123.1	1646.1	1769.7	1771.5
32.5°	189.9	186.3	197.0	240.0	367.2	592.9	1158.9	1751.8	1848.5	1853.9
35°	148.7	155.8	173.7	211.4	329.6	558.8	1176.8	1809.1	1948.8	1954.2
37.5°	139.7	148.7	163.0	195.2	304.5	530.2	1182.2	1920.1	2054.5	2065.2
40°	136.1	143.3	154.0	180.9	284.8	494.4	1192.9	2034.8	2210.3	2196.0
42.5°	129.0	137.9	148.7	173.7	268.7	467.5	1194.7	2097.5	2292.7	2292.7
45°	127.2	132.5	145.1	173.7	250.8	444.2	1166.1	2160.2	2387.6	2359.0
47.5°	120.0	130.8	141.5	168.4	229.3	420.9	1132.0	2192.4	2400.2	2391.2
50°	118.2	129.0	146.9	159.4	216.7	410.2	1124.9	2273.0	2425.2	2423.5
52.5°	114.6	125.4	152.2	152.2	200.6	395.8	1158.9	2308.8	2430.6	2444.9
55°	109.3	125.4	141.5	139.7	186.3	377.9	1196.5	2402.0	2525.6	2522.0
57.5°	105.7	121.8	134.3	127.2	170.2	365.4	1252.0	2491.5	2640.2	2615.1
60°	100.3	121.8	120.0	118.2	157.6	354.7	1298.6	2509.4	2665.3	2681.4
62.5°	96.7	127.2	105.7	109.3	146.9	349.3	1278.9	2375.1	2631.2	2645.6
65°	93.1	109.3	96.7	100.3	143.3	338.5	1201.9	2213.9	2484.4	2547.0
67.5°	86.0	89.6	89.6	93.1	139.7	313.5	1044.3	1923.7	2260.5	2294.5
70°	78.8	80.6	80.6	86.0	136.1	284.8	861.6	1664.0	1961.3	2025.8
72.5°	71.6	71.6	71.6	78.8	125.4	261.5	709.3	1278.9	1630.0	1674.7
75°	62.7	62.7	62.7	69.9	112.8	238.2	558.8	951.1	1200.1	1264.6
77.5°	55.5	55.5	53.7	62.7	98.5	193.4	403.0	671.7	845.4	899.2
80°	46.6	44.8	44.8	50.2	77.0	139.7	259.7	474.7	589.3	612.6
82.5°	37.6	35.8	34.0	37.6	55.5	87.8	161.2	331.4	377.9	363.6
85°	35.8	37.6	30.4	28.7	39.4	57.3	102.1	204.2	170.2	170.2
87.5°	14.3	12.5	12.5	10.7	19.7	21.5	44.8	37.6	28.7	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)