

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: P677361

Luminaire Tested: **CCW-SA-1C-850-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677361  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-850-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

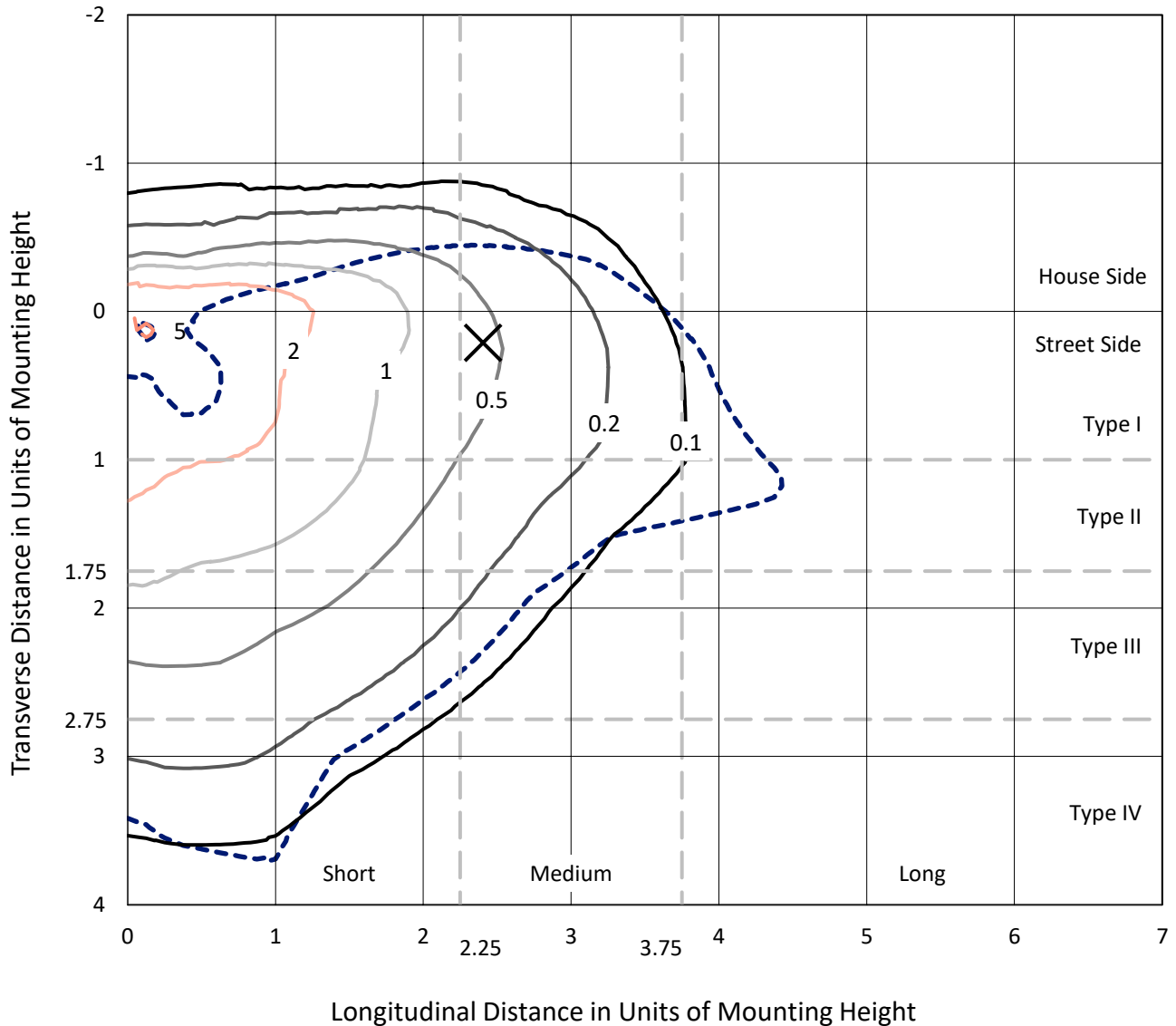
Lumens per Lamp: N/A  
Luminaire Lumens: 2862.4 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
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: P677361  
 CATALOG NUMBER: CCW-SA-1C-850-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

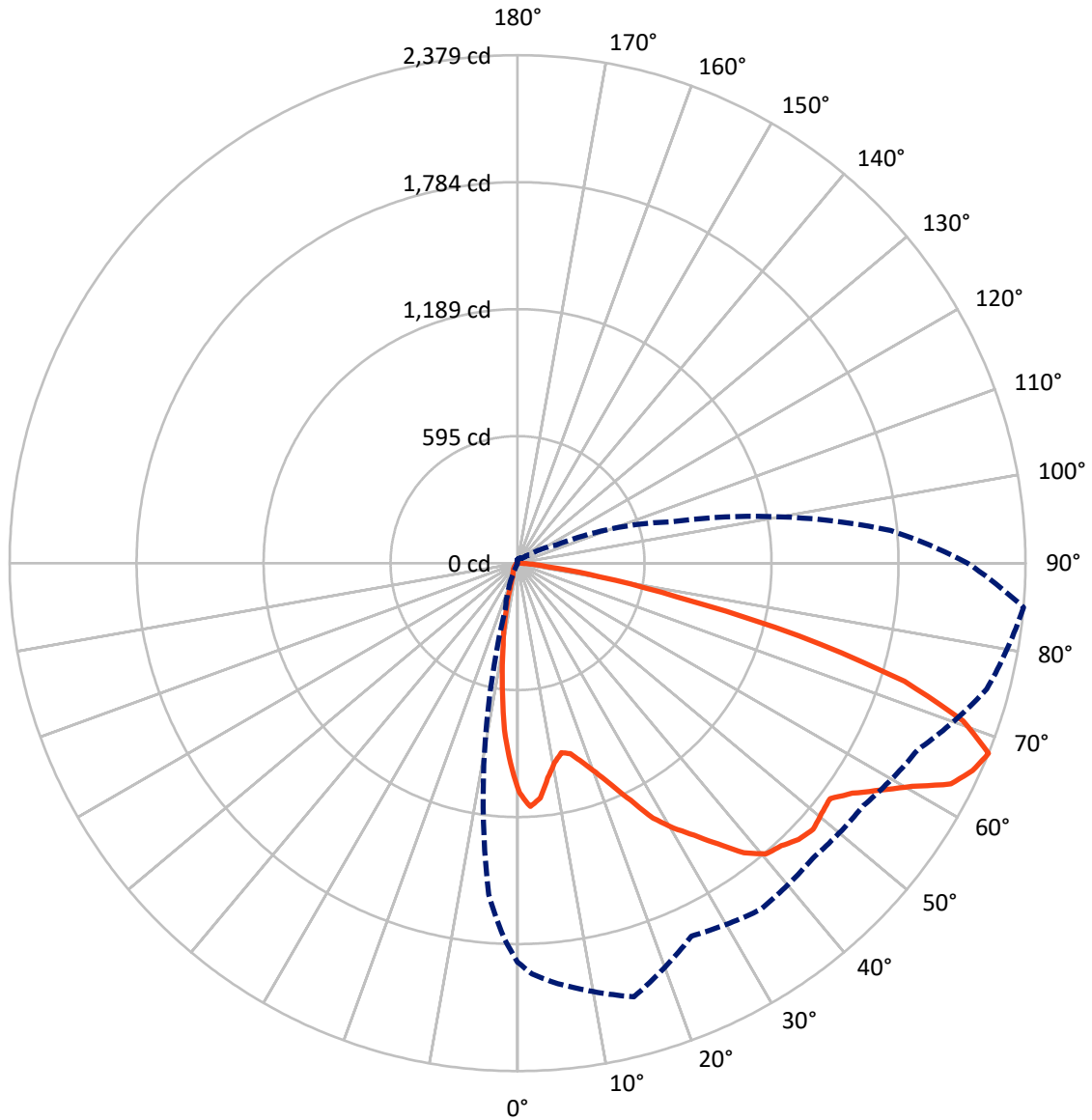
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Medium - N/A

REPORT NUMBER: P677361  
CATALOG NUMBER: CCW-SA-1C-850-U-SLL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P677361  
 CATALOG NUMBER: CCW-SA-1C-850-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	497.0	0.0	497.0
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	2365.4	0.0	2365.4
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	2862.4	0.0	2862.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	2.9
10°-20°	160.3	5.6
20°-30°	221.9	7.8
30°-40°	313.6	11.0
40°-50°	426.9	14.9
50°-60°	565.4	19.8
60°-70°	656.5	22.9
70°-80°	371.8	13.0
80°-90°	64.2	2.2
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°	2862.4	100.0
0°-180°	2862.4	100.0

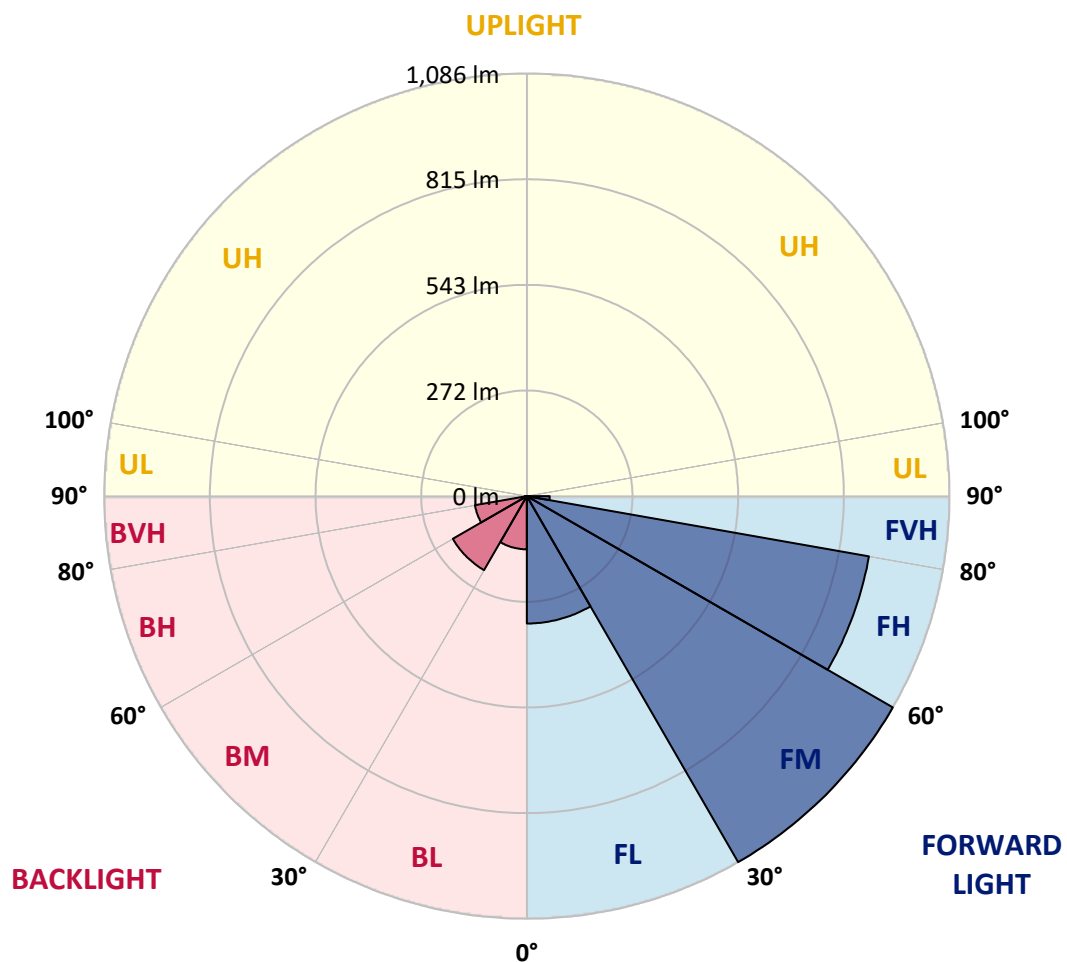


REPORT NUMBER: P677361  
 CATALOG NUMBER: CCW-SA-1C-850-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.3	11.4			
FM (30°-60°)	1086.3	38.0			
FH (60°-80°)	892.9	31.2			G1/1800
FVH (80°-90°)	58.8	2.1			G1/100
BL (0°-30°)	136.6	4.8	B1/500		
BM (30°-60°)	219.6	7.7	B0/220		
BH (60°-80°)	135.4	4.7	B1/500		G1/500
BVH (80°-90°)	5.4	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Medium





REPORT NUMBER: P677361

CATALOG NUMBER: CCW-SA-1C-850-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3
2.5°	1118.3	1142.0	1142.8	1153.5	1164.2	1164.2	1189.4	1183.3	1161.1	1157.3	1141.2
5°	1126.7	1135.1	1141.2	1195.5	1241.4	1236.8	1250.5	1241.4	1198.6	1143.5	1106.1
7.5°	1054.1	1063.3	1087.7	1180.2	1242.1	1262.8	1288.8	1231.4	1186.3	1087.0	1015.1
10°	957.8	975.4	1020.5	1125.9	1202.4	1268.1	1268.1	1222.3	1135.1	1038.0	950.1
12.5°	904.3	939.4	963.9	1070.9	1170.3	1215.4	1213.8	1189.4	1132.8	1010.5	911.1
15°	913.4	923.4	975.4	1058.7	1124.4	1122.1	1149.6	1142.0	1102.2	1035.0	925.7
17.5°	955.5	970.8	1015.9	1058.7	1090.0	1080.8	1080.1	1116.8	1119.1	1076.3	979.9
20°	1024.3	1069.4	1090.8	1103.8	1065.6	1026.6	1022.0	1073.2	1112.9	1129.0	1044.9
22.5°	1134.4	1164.2	1207.7	1141.2	1041.9	992.9	983.8	1040.3	1120.6	1191.7	1129.0
25°	1242.1	1265.1	1307.1	1221.5	1068.6	986.1	970.0	1018.9	1149.6	1278.8	1230.7
27.5°	1356.0	1375.9	1380.5	1280.3	1083.1	972.3	953.2	1018.9	1174.1	1324.7	1352.2
30°	1425.6	1449.3	1453.9	1332.3	1106.8	983.8	974.6	1023.5	1190.9	1363.7	1439.3
32.5°	1503.5	1509.7	1505.8	1341.5	1132.8	1017.4	979.2	1054.1	1210.0	1410.3	1518.8
35°	1596.8	1607.5	1568.5	1383.5	1190.9	1038.8	1025.0	1091.5	1242.9	1431.7	1615.1
37.5°	1667.9	1701.5	1613.6	1399.6	1202.4	1083.9	1086.2	1169.5	1265.8	1457.7	1721.4
40°	1801.7	1745.1	1690.1	1454.6	1246.0	1160.3	1148.1	1249.8	1343.0	1474.5	1791.0
42.5°	1875.0	1845.2	1719.9	1460.0	1313.2	1265.8	1268.9	1340.7	1383.5	1521.9	1810.1
45°	1893.4	1862.0	1760.4	1463.8	1379.7	1390.4	1443.2	1456.9	1443.2	1553.2	1846.0
47.5°	1940.0	1872.0	1755.8	1515.0	1487.5	1528.8	1596.0	1625.9	1524.2	1541.8	1862.8
50°	1930.8	1891.9	1745.9	1536.4	1619.0	1728.3	1773.4	1761.1	1614.4	1518.1	1844.5
52.5°	1892.6	1850.6	1776.4	1594.5	1742.0	1874.3	1937.0	1906.4	1694.6	1571.6	1832.2
55°	1948.4	1916.3	1816.2	1673.2	1834.5	2002.7	2047.0	2024.1	1793.3	1621.3	1901.8
57.5°	2008.8	2001.9	1924.0	1765.7	1943.8	2134.9	2134.9	2106.7	1878.9	1693.1	2005.0
60°	2095.9	2111.2	2003.5	1826.9	1981.3	2127.3	2238.1	2205.3	1965.2	1819.2	2121.9
62.5°	2067.7	2116.6	2105.9	1958.4	2024.1	2164.7	2225.1	2249.6	2072.3	1972.9	2277.9
65°	1976.7	2028.7	2105.1	2044.7	1992.0	2073.8	2104.4	2178.5	2125.8	2117.4	2342.1
67.5°	1868.2	1924.7	1972.1	2102.8	1927.0	1981.3	1954.5	1978.2	2067.7	2275.6	2378.8
70°	1631.2	1685.5	1760.4	1973.6	1755.0	1706.1	1699.2	1687.8	1826.9	2219.0	2212.1
72.5°	1341.5	1366.7	1490.6	1604.4	1298.7	1289.5	1300.2	1287.2	1448.5	2008.8	1894.9
75°	1004.4	1029.6	1100.0	1232.2	884.4	831.7	892.8	953.2	1106.1	1559.3	1361.4
77.5°	755.2	787.3	831.7	921.9	649.0	566.4	574.8	632.1	799.5	1249.0	762.9
80°	490.0	486.2	571.8	634.4	488.4	503.7	482.3	524.4	579.4	668.1	389.8
82.5°	282.8	286.6	322.6	363.8	340.2	389.1	280.5	468.6	413.5	272.1	145.2
85°	159.0	165.9	198.7	252.2	213.3	142.9	117.0	232.4	259.9	111.6	70.3
87.5°	16.1	13.8	26.8	95.5	58.1	23.7	35.2	55.8	62.7	42.0	20.6
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: P677361

CATALOG NUMBER: CCW-SA-1C-850-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3
2.5°	1118.3	1118.3	1099.2	1067.1	1054.1	1031.2	999.8	1009.8	999.1	960.1	950.1
5°	1072.4	1035.7	996.0	947.1	918.8	860.7	842.4	809.5	814.8	782.0	783.5
7.5°	976.9	947.8	880.6	816.4	760.6	710.1	639.0	612.3	586.3	573.3	588.6
10°	921.1	866.8	775.1	691.0	616.9	571.8	524.4	487.7	454.0	428.8	423.5
12.5°	880.6	832.4	721.6	619.2	561.1	524.4	480.8	430.3	397.5	353.9	340.9
15°	868.3	809.5	692.5	590.9	534.3	473.9	424.2	374.5	331.7	285.9	269.8
17.5°	910.4	842.4	691.8	567.9	488.4	423.5	354.7	298.9	255.3	213.3	203.3
20°	981.5	877.5	713.9	554.2	444.9	357.7	279.8	224.0	175.0	147.5	140.6
22.5°	1062.5	937.1	716.2	517.5	401.3	292.0	204.1	147.5	120.0	107.0	103.2
25°	1161.9	1032.7	743.7	487.7	350.1	221.7	145.2	113.1	97.1	89.4	87.9
27.5°	1243.7	1099.2	773.6	456.3	299.6	164.3	113.9	92.5	84.1	76.4	75.7
30°	1328.5	1175.6	782.0	437.2	256.1	135.3	97.8	81.8	72.6	68.8	68.0
32.5°	1402.6	1258.9	808.7	405.9	214.8	119.2	88.7	73.4	67.3	61.2	60.4
35°	1498.2	1307.1	821.7	389.1	199.5	107.8	81.0	67.3	58.1	54.3	52.7
37.5°	1600.6	1353.7	830.1	376.1	186.5	100.9	76.4	63.4	55.0	49.7	48.2
40°	1696.2	1419.5	817.9	360.0	176.6	92.5	73.4	58.9	51.2	45.9	43.6
42.5°	1769.6	1483.7	814.1	344.7	165.9	89.4	69.6	56.6	48.2	42.0	41.3
45°	1810.8	1527.2	787.3	332.5	157.5	91.0	68.0	53.5	45.9	40.5	37.5
47.5°	1800.9	1560.9	794.2	328.7	146.0	84.8	67.3	51.2	42.0	37.5	35.2
50°	1855.9	1628.9	782.7	316.5	137.6	76.4	73.4	51.2	41.3	35.9	33.6
52.5°	1865.1	1690.8	807.2	294.3	124.6	70.3	72.6	50.4	39.7	34.4	31.3
55°	1941.5	1762.7	854.6	282.1	113.9	61.2	66.5	48.9	35.9	31.3	29.8
57.5°	2045.5	1911.7	885.2	270.6	99.4	53.5	55.8	48.2	32.9	29.0	26.8
60°	2145.6	1971.4	887.5	250.0	85.6	48.2	43.6	48.2	30.6	26.0	23.7
62.5°	2220.5	1971.4	872.2	232.4	74.9	42.8	38.2	45.9	27.5	22.9	21.4
65°	2180.0	1918.6	832.4	217.9	68.0	37.5	32.9	35.2	24.5	19.9	18.3
67.5°	2107.4	1754.3	744.5	200.3	67.3	32.9	28.3	26.0	21.4	17.6	16.1
70°	1991.2	1532.6	619.9	180.4	65.7	29.8	25.2	22.2	19.1	15.3	13.8
72.5°	1604.4	1265.8	509.1	168.9	64.2	26.0	21.4	19.1	16.1	13.0	11.5
75°	1111.4	808.7	392.1	144.5	62.7	23.7	19.9	16.8	13.8	10.7	9.9
77.5°	666.5	540.4	253.0	108.5	41.3	19.1	16.8	13.0	11.5	9.2	8.4
80°	311.9	255.3	102.4	42.0	19.9	13.8	11.5	9.9	9.2	7.6	6.9
82.5°	122.3	107.8	49.7	24.5	16.1	10.7	9.2	8.4	7.6	6.1	5.4
85°	65.7	58.1	23.7	16.8	11.5	7.6	7.6	6.9	6.1	5.4	4.6
87.5°	14.5	10.7	9.9	9.9	8.4	6.1	6.1	5.4	4.6	3.8	3.1
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: P677361  
 CATALOG NUMBER: CCW-SA-1C-850-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3
2.5°	944.8	956.2	937.9	949.4	933.3	945.5	947.1	935.6	938.7	954.0	960.8
5°	804.9	797.3	780.4	775.1	775.9	765.9	769.7	775.1	783.5	788.1	801.8
7.5°	580.2	597.8	597.0	610.0	610.7	609.2	598.5	575.6	583.2	577.1	584.8
10°	415.1	422.7	437.2	445.6	460.9	452.5	428.1	418.9	414.3	413.5	421.2
12.5°	331.7	313.4	311.9	314.9	322.6	312.6	300.4	289.7	295.1	305.8	314.2
15°	256.8	241.5	221.7	218.6	220.1	215.6	202.6	188.8	192.6	203.3	209.4
17.5°	197.2	179.6	165.9	156.7	153.6	137.6	118.5	107.0	104.0	103.2	108.5
20°	133.0	129.9	127.7	116.2	116.2	93.3	77.2	68.8	68.8	70.3	71.1
22.5°	99.4	95.5	96.3	94.0	87.9	69.6	61.2	58.9	58.9	60.4	60.4
25°	86.4	81.0	79.5	78.7	72.6	59.6	53.5	51.2	51.2	52.7	52.7
27.5°	73.4	71.9	69.6	66.5	61.2	51.2	47.4	45.1	45.9	46.6	45.9
30°	67.3	63.4	60.4	60.4	54.3	45.9	42.8	41.3	39.7	41.3	42.0
32.5°	59.6	57.3	55.8	53.5	46.6	40.5	37.5	35.9	35.2	35.2	35.9
35°	51.2	51.2	49.7	46.6	40.5	36.7	32.9	31.3	30.6	31.3	31.3
37.5°	45.9	43.6	44.3	41.3	35.9	32.1	28.3	26.8	26.8	26.0	26.8
40°	42.8	39.0	36.7	35.2	32.1	27.5	24.5	22.9	22.2	22.2	22.2
42.5°	38.2	35.2	30.6	29.8	29.0	23.7	19.9	19.1	18.3	17.6	17.6
45°	35.9	31.3	27.5	23.7	23.7	19.9	16.8	15.3	14.5	13.8	14.5
47.5°	32.9	28.3	23.7	19.9	19.1	16.1	13.0	11.5	10.7	10.7	10.7
50°	31.3	25.2	20.6	16.8	14.5	13.0	9.9	8.4	7.6	7.6	7.6
52.5°	29.0	23.7	18.3	14.5	11.5	9.9	7.6	6.1	5.4	5.4	5.4
55°	26.0	21.4	16.1	12.2	9.9	7.6	5.4	3.8	3.1	3.1	3.1
57.5°	24.5	19.1	13.8	10.7	7.6	5.4	3.1	2.3	2.3	1.5	2.3
60°	22.2	16.8	11.5	8.4	6.1	3.8	2.3	0.8	0.8	0.8	0.8
62.5°	19.1	14.5	9.9	6.9	4.6	2.3	0.8	0.0	0.0	0.0	0.0
65°	16.1	11.5	7.6	5.4	3.1	0.8	0.0	0.0	0.0	0.0	0.0
67.5°	13.8	9.9	6.1	3.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.2	8.4	4.6	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.9	6.9	3.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.4	5.4	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.9	3.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.4	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P677361  
 CATALOG NUMBER: CCW-SA-1C-850-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3
2.5°	970.8	966.2	989.1	1026.6	1045.7	1083.1	1092.3	1116.0	1109.9	1118.3
5°	803.4	812.5	846.2	901.2	921.1	975.4	1026.6	1077.8	1110.7	1126.7
7.5°	596.2	626.8	668.1	718.5	769.7	840.8	928.0	987.6	1019.7	1054.1
10°	444.1	477.0	524.4	574.1	657.4	736.9	824.0	898.2	925.7	957.8
12.5°	349.3	400.5	455.6	509.1	558.8	634.4	742.2	850.0	879.8	904.3
15°	243.1	305.8	384.5	454.0	523.6	589.3	700.9	831.7	872.2	913.4
17.5°	134.5	184.2	274.4	372.3	474.7	575.6	714.7	865.3	926.4	955.5
20°	78.0	97.8	162.1	278.2	413.5	545.8	721.6	928.7	1009.8	1024.3
22.5°	64.2	71.1	91.7	174.3	338.6	526.7	756.7	1017.4	1100.0	1134.4
25°	55.0	60.4	71.1	104.7	256.1	486.2	778.9	1128.2	1204.7	1242.1
27.5°	48.9	54.3	62.7	77.2	174.3	430.3	815.6	1228.4	1304.8	1356.0
30°	42.8	47.4	55.8	65.7	120.8	367.7	846.9	1301.8	1409.5	1425.6
32.5°	38.2	42.0	48.2	56.6	89.4	279.0	872.2	1377.4	1468.4	1503.5
35°	32.9	37.5	41.3	48.2	68.0	210.2	856.9	1436.3	1554.8	1596.8
37.5°	29.0	32.1	35.9	40.5	57.3	164.3	825.5	1506.6	1628.9	1667.9
40°	24.5	26.8	31.3	35.9	52.0	126.9	789.6	1591.5	1732.9	1801.7
42.5°	20.6	22.9	26.0	33.6	42.8	94.0	717.0	1657.2	1816.9	1875.0
45°	16.1	19.1	23.7	33.6	34.4	69.6	642.1	1706.1	1864.3	1893.4
47.5°	12.2	15.3	22.9	29.0	27.5	48.2	553.4	1761.9	1913.3	1940.0
50°	9.2	12.2	26.0	25.2	22.9	36.7	497.6	1800.9	1916.3	1930.8
52.5°	6.1	9.2	21.4	19.1	19.1	32.1	482.3	1799.4	1924.0	1892.6
55°	4.6	6.9	12.2	13.8	16.8	28.3	468.6	1856.7	1926.3	1948.4
57.5°	3.1	5.4	8.4	10.7	14.5	24.5	440.3	1925.5	1997.3	2008.8
60°	1.5	3.8	6.1	8.4	12.2	21.4	400.5	1975.9	2083.7	2095.9
62.5°	0.8	2.3	4.6	6.9	9.9	16.8	359.3	1895.7	2046.3	2067.7
65°	0.0	1.5	3.1	4.6	6.1	12.2	292.0	1711.5	1898.0	1976.7
67.5°	0.0	0.0	1.5	3.1	3.8	9.2	220.1	1557.1	1761.1	1868.2
70°	0.0	0.0	0.8	0.8	2.3	6.9	140.6	1289.5	1572.3	1631.2
72.5°	0.0	0.0	0.0	0.0	0.8	4.6	81.8	957.8	1232.2	1341.5
75°	0.0	0.0	0.0	0.0	0.0	3.8	41.3	616.1	857.6	1004.4
77.5°	0.0	0.0	0.0	0.0	0.0	3.1	22.2	397.5	632.1	755.2
80°	0.0	0.0	0.0	0.0	0.0	0.8	13.0	230.8	404.4	490.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	113.1	241.5	282.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	60.4	120.8	159.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	8.4	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)