

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: P675921

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675921
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
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
SLL distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

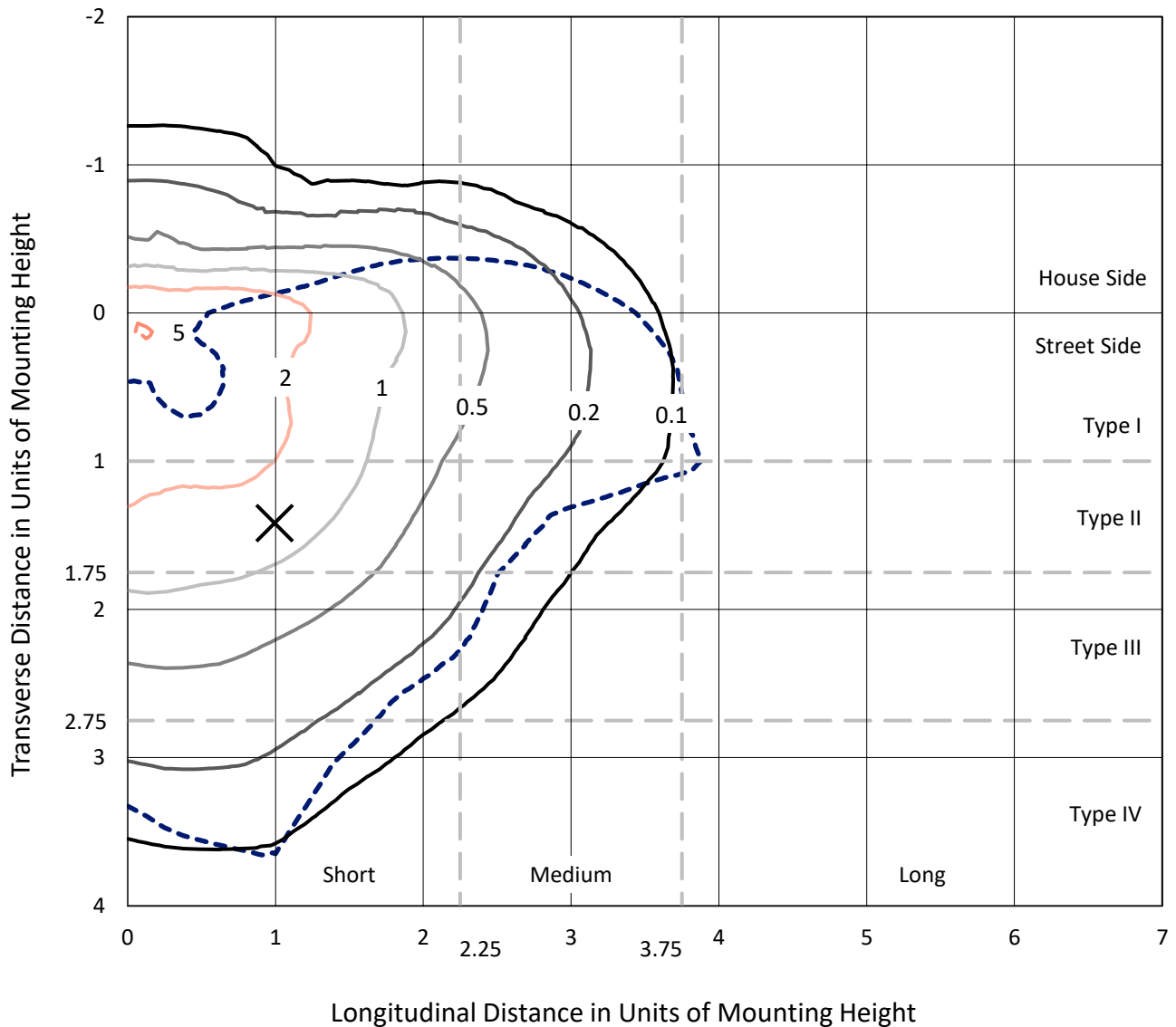
Lumens per Lamp: N/A
Luminaire Lumens: 3273.5 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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: P675921
 CATALOG NUMBER: CCW-SA-1C-850-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

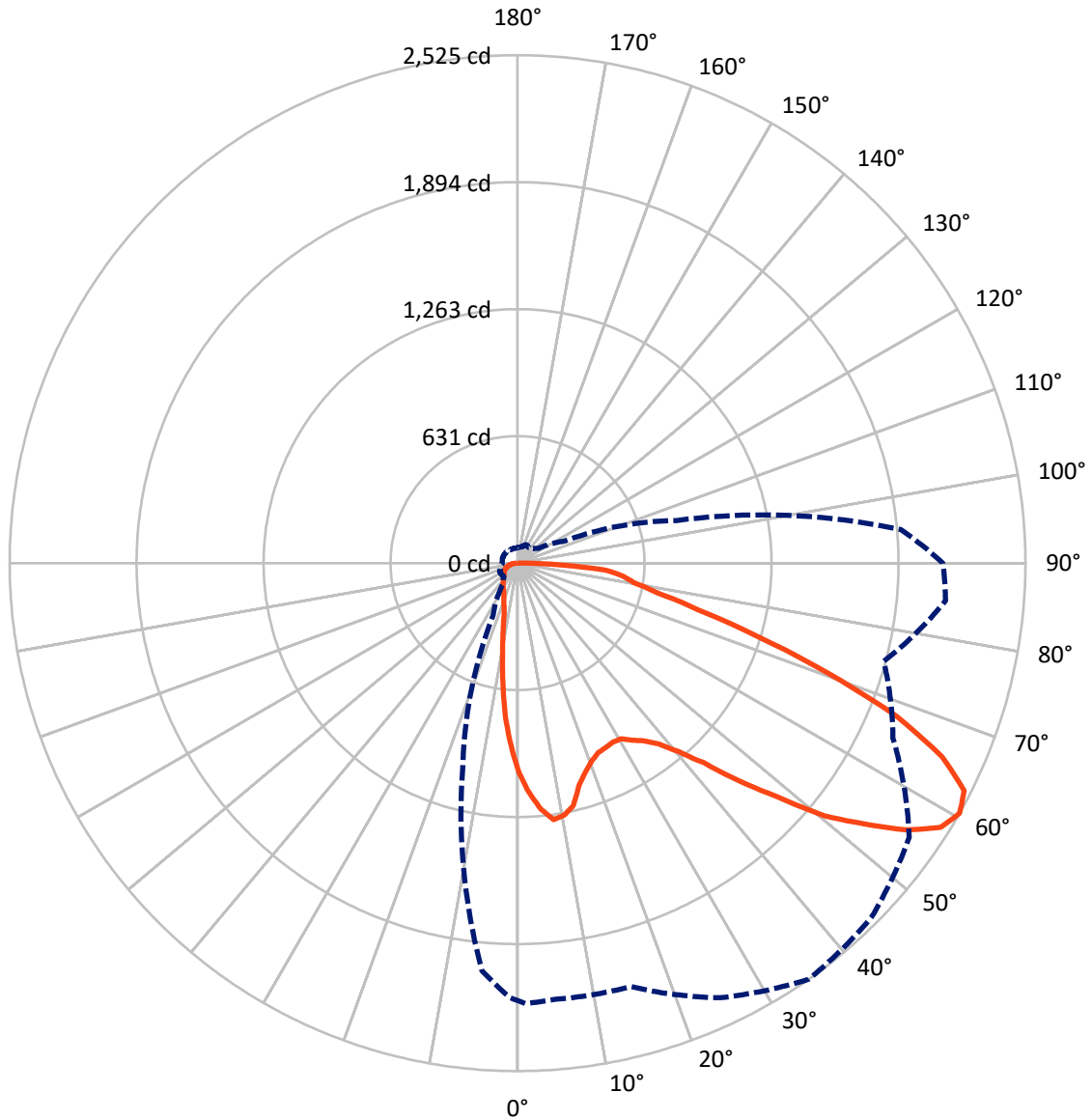
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P675921
CATALOG NUMBER: CCW-SA-1C-850-U-SLL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P675921
 CATALOG NUMBER: CCW-SA-1C-850-U-SLL

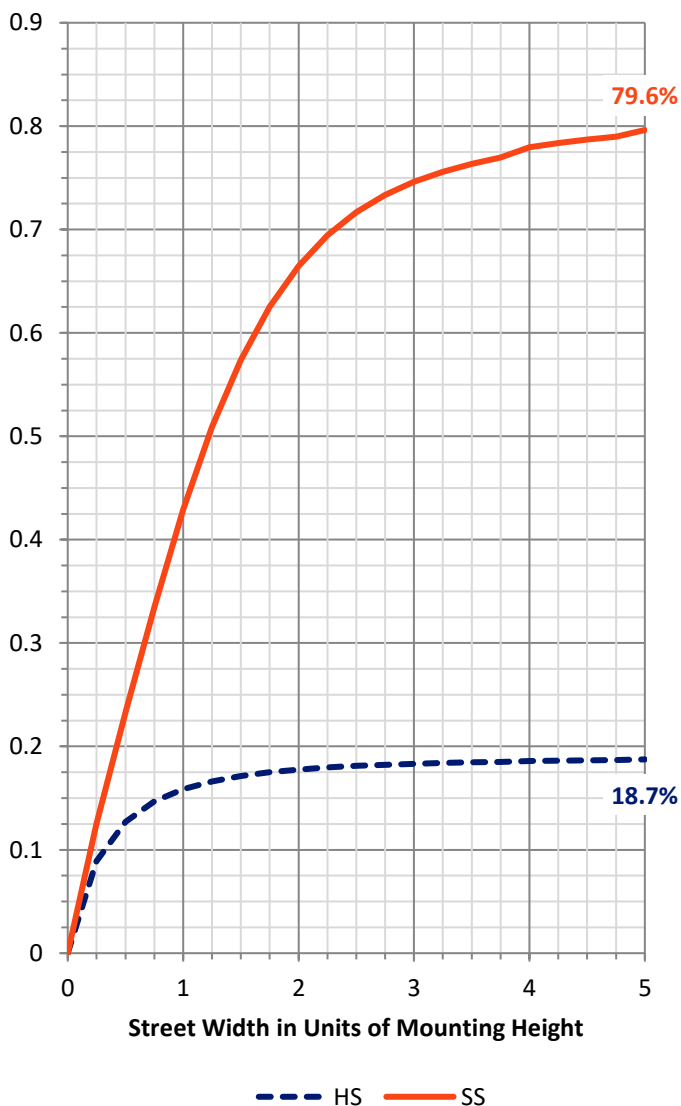
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	623.0	0.0	623.0
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	2650.5	0.0	2650.5
	% Fixture	81.0	0.0	81.0
Total	Lumens	3273.5	0.0	3273.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	2.5
10°-20°	171.5	5.2
20°-30°	250.9	7.7
30°-40°	353.5	10.8
40°-50°	485.8	14.8
50°-60°	662.1	20.2
60°-70°	724.7	22.1
70°-80°	418.4	12.8
80°-90°	125.3	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°	3273.5	100.0
0°-180°	3273.5	100.0



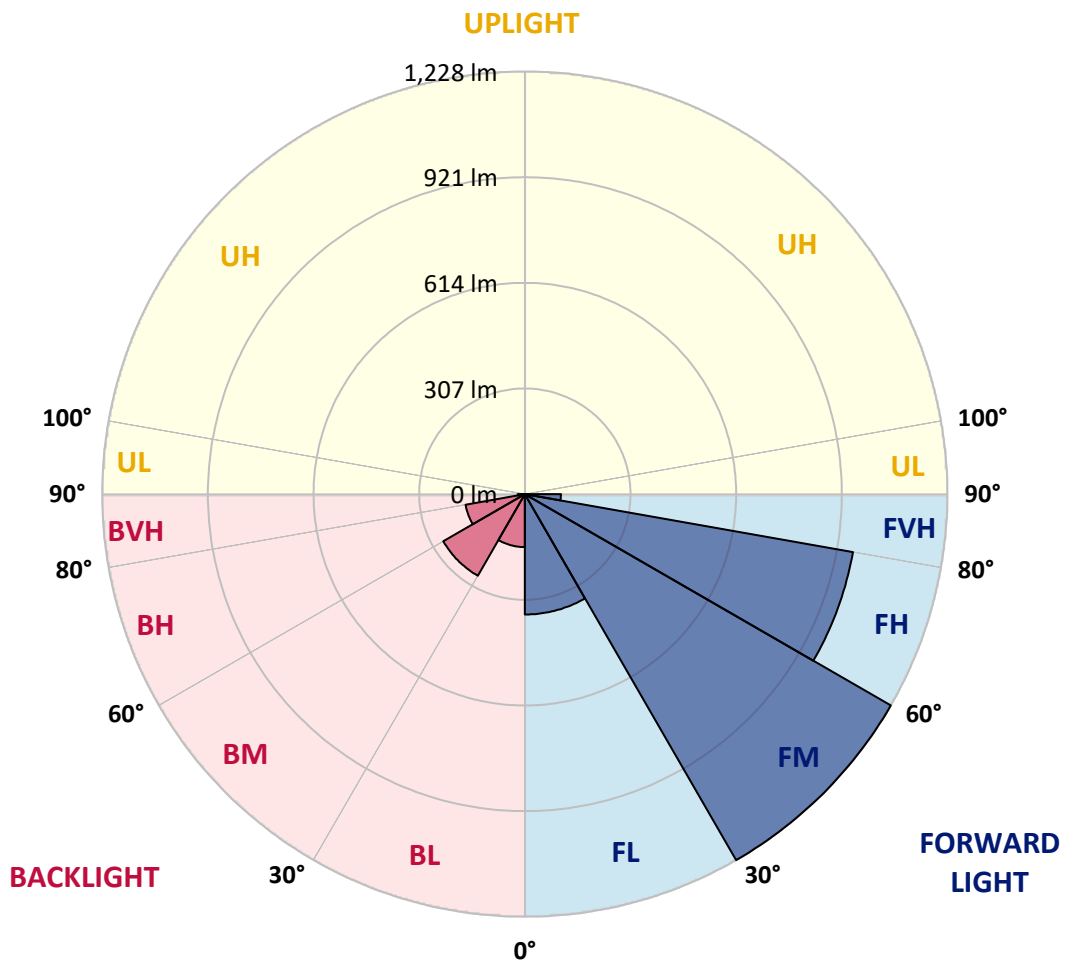
REPORT NUMBER: P675921
 CATALOG NUMBER: CCW-SA-1C-850-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.7	10.7			
FM (30°-60°)	1227.8	37.5			
FH (60°-80°)	968.1	29.6			G1/1800
FVH (80°-90°)	104.9	3.2			G2/225
BL (0°-30°)	153.9	4.7	B1/500		
BM (30°-60°)	273.7	8.4	B1/1000		
BH (60°-80°)	175.0	5.3	B1/500		G1/500
BVH (80°-90°)	20.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P675921
 CATALOG NUMBER: CCW-SA-1C-850-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5
2.5°	1119.6	1115.2	1119.6	1135.6	1139.9	1147.2	1147.2	1137.0	1118.1	1109.4	1094.9
5°	1144.3	1137.0	1173.3	1206.7	1232.9	1230.0	1205.3	1184.9	1147.2	1090.5	1036.8
7.5°	1094.9	1102.2	1128.3	1215.4	1276.4	1288.0	1248.8	1208.2	1126.9	1048.4	975.8
10°	1002.0	1012.1	1068.8	1158.8	1254.6	1273.5	1248.8	1199.5	1102.2	1004.9	920.6
12.5°	957.0	980.2	1013.6	1122.5	1190.7	1235.8	1224.1	1192.2	1083.3	968.6	887.2
15°	957.0	962.8	1012.1	1103.6	1142.8	1144.3	1148.6	1154.4	1089.1	984.5	875.6
17.5°	987.4	1003.4	1045.5	1102.2	1109.4	1092.0	1092.0	1116.7	1100.7	1029.6	917.7
20°	1061.5	1055.7	1110.9	1134.1	1094.9	1051.3	1047.0	1089.1	1113.8	1077.5	994.7
22.5°	1135.6	1161.7	1206.7	1154.4	1081.8	1023.7	1017.9	1070.2	1153.0	1160.2	1083.3
25°	1247.4	1273.5	1296.7	1232.9	1080.4	1016.5	1020.8	1061.5	1200.9	1277.9	1231.4
27.5°	1367.9	1383.9	1417.3	1318.5	1115.2	1007.8	1012.1	1073.1	1245.9	1354.8	1347.6
30°	1436.2	1453.6	1446.3	1334.5	1138.5	1013.6	1002.0	1089.1	1221.2	1354.8	1423.1
32.5°	1503.0	1492.8	1488.4	1360.6	1167.5	1049.9	1020.8	1122.5	1235.8	1376.6	1520.4
35°	1584.3	1569.7	1558.1	1411.5	1215.4	1084.7	1071.7	1166.1	1267.7	1421.6	1598.8
37.5°	1674.3	1674.3	1617.7	1449.2	1272.1	1141.4	1126.9	1228.5	1318.5	1449.2	1706.2
40°	1780.3	1784.7	1684.5	1500.0	1336.0	1231.4	1227.0	1309.8	1367.9	1489.9	1809.3
42.5°	1858.7	1861.6	1742.6	1518.9	1410.0	1356.3	1375.2	1440.5	1424.5	1526.2	1816.6
45°	1912.5	1897.9	1783.2	1572.7	1491.3	1543.6	1549.4	1568.3	1498.6	1548.0	1845.7
47.5°	1938.6	1935.7	1800.6	1635.1	1662.7	1733.8	1767.2	1741.1	1566.8	1524.7	1845.7
50°	1964.7	1940.0	1816.6	1720.8	1829.7	1973.4	1966.2	1918.3	1661.2	1553.8	1818.1
52.5°	1982.2	1960.4	1848.6	1797.7	1989.4	2152.1	2181.1	2092.5	1771.6	1607.5	1831.1
55°	2044.6	2027.2	1944.4	1902.3	2173.8	2340.8	2345.2	2221.8	1887.8	1696.1	1916.8
57.5°	2120.1	2130.3	2076.5	2050.4	2314.7	2478.8	2462.8	2317.6	1986.5	1803.5	2015.6
60°	2173.8	2189.8	2176.7	2179.6	2384.4	2525.2	2488.9	2377.1	2059.1	1884.9	2136.1
62.5°	2144.8	2176.7	2230.5	2218.8	2387.3	2491.8	2441.0	2298.7	2067.8	1990.9	2227.6
65°	2064.9	2067.8	2172.4	2236.3	2256.6	2319.0	2252.2	2134.6	1977.8	2056.2	2214.5
67.5°	1860.2	1883.4	1977.8	2102.7	2017.0	2031.5	2025.7	1855.8	1841.3	2011.2	2114.3
70°	1642.4	1658.3	1761.4	1908.1	1703.3	1635.1	1648.2	1521.8	1581.4	1871.8	1912.5
72.5°	1357.7	1367.9	1485.5	1614.8	1366.5	1244.5	1275.0	1171.9	1256.1	1638.0	1613.3
75°	1025.2	1044.1	1135.6	1288.0	1006.3	927.9	958.4	916.3	994.7	1349.0	1251.7
77.5°	729.0	714.4	827.7	1007.8	756.6	710.1	713.0	720.3	804.5	1137.0	898.9
80°	496.6	501.0	602.6	739.1	593.9	586.7	579.4	637.5	675.2	900.3	653.5
82.5°	294.8	294.8	406.6	525.7	469.0	528.6	495.2	547.5	528.6	662.2	428.4
85°	138.0	138.0	209.1	379.0	363.0	435.6	370.3	413.9	390.6	461.8	193.1
87.5°	23.2	20.3	42.1	185.9	149.6	169.9	66.8	220.7	245.4	322.4	47.9
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: P675921
 CATALOG NUMBER: CCW-SA-1C-850-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5
2.5°	1078.9	1068.8	1048.4	1022.3	1000.5	972.9	964.2	945.3	919.2	916.3	904.7
5°	1016.5	981.6	938.1	884.3	848.0	810.3	778.3	759.5	737.7	734.8	729.0
7.5°	948.2	904.7	832.1	768.2	705.7	646.2	617.2	580.9	556.2	537.3	528.6
10°	884.3	843.7	753.7	666.5	611.3	572.1	537.3	499.5	469.0	445.8	437.1
12.5°	842.2	794.3	697.0	614.2	573.6	528.6	489.4	448.7	409.5	379.0	363.0
15°	823.4	778.3	679.6	588.1	528.6	466.1	421.1	380.5	332.5	310.8	303.5
17.5°	868.4	801.6	673.8	557.6	473.4	402.2	347.1	303.5	268.6	246.9	238.1
20°	926.5	843.7	684.0	521.3	421.1	341.2	280.3	233.8	210.6	194.6	193.1
22.5°	1000.5	906.1	699.9	495.2	363.0	274.5	219.3	191.7	175.7	174.3	171.4
25°	1132.7	1019.4	726.1	460.3	316.6	226.5	187.3	171.4	164.1	159.7	162.6
27.5°	1245.9	1093.5	744.9	438.5	297.7	213.5	181.5	164.1	156.8	155.4	156.8
30°	1312.7	1161.7	739.1	397.9	259.9	203.3	193.1	187.3	172.8	161.2	161.2
32.5°	1373.7	1205.3	737.7	361.6	222.2	169.9	161.2	156.8	165.5	171.4	167.0
35°	1457.9	1273.5	733.3	341.2	206.2	156.8	142.3	130.7	124.9	122.0	126.3
37.5°	1548.0	1320.0	721.7	338.3	197.5	149.6	138.0	126.3	120.5	117.6	116.2
40°	1646.7	1369.4	708.6	323.8	193.1	145.2	133.6	123.4	116.2	111.8	110.4
42.5°	1710.6	1408.6	695.6	316.6	184.4	142.3	129.2	120.5	113.3	107.5	107.5
45°	1746.9	1455.0	682.5	309.3	174.3	143.8	129.2	117.6	108.9	106.0	103.1
47.5°	1762.9	1489.9	678.1	297.7	165.5	138.0	126.3	114.7	106.0	100.2	98.7
50°	1805.0	1563.9	694.1	289.0	155.4	132.1	133.6	113.3	104.6	97.3	95.8
52.5°	1829.7	1623.5	729.0	275.9	148.1	124.9	130.7	110.4	100.2	92.9	92.9
55°	1919.7	1722.2	766.7	265.7	139.4	114.7	120.5	104.6	92.9	88.6	88.6
57.5°	2034.4	1826.8	798.7	261.4	133.6	107.5	107.5	101.6	88.6	82.8	81.3
60°	2114.3	1912.5	817.5	258.5	127.8	100.2	95.8	101.6	84.2	78.4	77.0
62.5°	2123.0	1863.1	798.7	257.0	126.3	92.9	87.1	97.3	79.9	74.1	71.2
65°	2067.8	1762.9	746.4	251.2	124.9	85.7	81.3	84.2	74.1	69.7	66.8
67.5°	1957.5	1600.2	670.9	248.3	123.4	79.9	74.1	72.6	68.2	63.9	61.0
70°	1700.4	1388.2	582.3	235.2	120.5	75.5	66.8	65.3	61.0	58.1	56.6
72.5°	1427.4	1135.6	480.7	217.8	114.7	68.2	61.0	58.1	56.6	52.3	50.8
75°	1093.5	874.2	384.8	193.1	100.2	61.0	53.7	50.8	49.4	46.5	45.0
77.5°	768.2	650.6	284.6	156.8	84.2	55.2	47.9	45.0	43.6	39.2	39.2
80°	521.3	456.0	193.1	108.9	65.3	45.0	42.1	39.2	36.3	33.4	33.4
82.5°	323.8	319.5	139.4	71.2	47.9	36.3	33.4	33.4	29.0	26.1	26.1
85°	148.1	196.0	97.3	49.4	36.3	27.6	27.6	26.1	23.2	18.9	18.9
87.5°	46.5	65.3	50.8	21.8	20.3	16.0	16.0	14.5	14.5	11.6	11.6
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: P675921
 CATALOG NUMBER: CCW-SA-1C-850-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5
2.5°	916.3	914.8	914.8	909.0	923.6	923.6	932.3	925.0	929.4	930.8	942.4
5°	727.5	739.1	747.8	765.3	775.4	779.8	779.8	791.4	787.1	795.8	813.2
7.5°	532.9	547.5	573.6	595.4	612.8	618.6	617.2	620.1	624.4	614.2	617.2
10°	431.3	421.1	429.8	450.2	466.1	485.0	470.5	469.0	473.4	469.0	477.7
12.5°	360.1	348.5	341.2	341.2	352.9	361.6	357.2	364.5	380.5	384.8	395.0
15°	291.9	281.7	275.9	268.6	280.3	283.2	287.5	297.7	309.3	315.1	326.7
17.5°	233.8	233.8	233.8	228.0	232.3	236.7	238.1	251.2	252.7	258.5	262.8
20°	191.7	196.0	203.3	206.2	210.6	210.6	207.7	214.9	209.1	213.5	216.4
22.5°	172.8	178.6	181.5	183.0	188.8	190.2	183.0	184.4	185.9	181.5	183.0
25°	162.6	165.5	162.6	164.1	165.5	162.6	164.1	167.0	165.5	168.4	167.0
27.5°	158.3	155.4	153.9	152.5	152.5	149.6	151.0	151.0	153.9	155.4	155.4
30°	158.3	153.9	148.1	143.8	143.8	139.4	142.3	145.2	146.7	149.6	149.6
32.5°	162.6	153.9	143.8	139.4	135.0	132.1	135.0	139.4	145.2	146.7	148.1
35°	129.2	133.6	132.1	126.3	124.9	124.9	123.4	123.4	119.1	119.1	117.6
37.5°	116.2	114.7	117.6	119.1	120.5	116.2	116.2	110.4	108.9	110.4	110.4
40°	108.9	108.9	108.9	113.3	114.7	111.8	107.5	104.6	104.6	104.6	106.0
42.5°	106.0	103.1	101.6	104.6	108.9	106.0	101.6	100.2	100.2	101.6	101.6
45°	101.6	100.2	98.7	97.3	103.1	98.7	97.3	95.8	95.8	95.8	97.3
47.5°	97.3	95.8	92.9	92.9	94.4	92.9	91.5	91.5	91.5	94.4	94.4
50°	94.4	92.9	90.0	90.0	90.0	90.0	88.6	88.6	88.6	90.0	91.5
52.5°	90.0	88.6	87.1	85.7	85.7	85.7	85.7	85.7	85.7	87.1	88.6
55°	85.7	84.2	82.8	82.8	84.2	84.2	82.8	84.2	82.8	84.2	85.7
57.5°	81.3	79.9	78.4	79.9	81.3	79.9	79.9	79.9	79.9	79.9	81.3
60°	75.5	75.5	75.5	75.5	78.4	78.4	78.4	78.4	75.5	77.0	78.4
62.5°	72.6	71.2	71.2	72.6	74.1	74.1	75.5	74.1	72.6	74.1	74.1
65°	66.8	66.8	66.8	68.2	68.2	69.7	69.7	69.7	68.2	69.7	69.7
67.5°	62.4	62.4	62.4	62.4	65.3	65.3	65.3	65.3	63.9	63.9	65.3
70°	55.2	56.6	55.2	58.1	61.0	59.5	61.0	61.0	59.5	58.1	61.0
72.5°	50.8	50.8	50.8	50.8	55.2	55.2	55.2	56.6	55.2	53.7	55.2
75°	45.0	45.0	45.0	46.5	49.4	49.4	49.4	49.4	49.4	47.9	47.9
77.5°	39.2	40.7	39.2	40.7	43.6	42.1	43.6	45.0	43.6	42.1	42.1
80°	33.4	33.4	33.4	34.9	36.3	36.3	36.3	37.8	36.3	34.9	34.9
82.5°	26.1	26.1	27.6	27.6	29.0	29.0	29.0	30.5	29.0	27.6	27.6
85°	20.3	20.3	20.3	21.8	21.8	23.2	23.2	24.7	24.7	23.2	23.2
87.5°	13.1	11.6	13.1	13.1	14.5	14.5	13.1	11.6	13.1	11.6	10.2
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: P675921
 CATALOG NUMBER: CCW-SA-1C-850-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5	1045.5
2.5°	954.0	980.2	999.1	1012.1	1031.0	1067.3	1081.8	1108.0	1115.2	1119.6
5°	820.5	848.0	888.7	917.7	951.1	1019.4	1071.7	1110.9	1128.3	1144.3
7.5°	643.3	679.6	721.7	759.5	814.6	898.9	967.1	1048.4	1078.9	1094.9
10°	502.4	535.8	582.3	628.8	705.7	776.9	874.2	948.2	990.4	1002.0
12.5°	424.0	463.2	518.4	575.0	623.0	704.3	803.0	910.5	949.7	957.0
15°	360.1	413.9	470.5	528.6	583.8	654.9	760.9	891.6	949.7	957.0
17.5°	297.7	345.6	412.4	474.8	538.7	636.0	768.2	907.6	965.7	987.4
20°	236.7	283.2	335.4	413.9	501.0	604.1	784.1	961.3	1038.3	1061.5
22.5°	196.0	216.4	267.2	342.7	445.8	582.3	800.1	1045.5	1126.9	1135.6
25°	171.4	185.9	217.8	289.0	402.2	567.8	837.9	1142.8	1247.4	1247.4
27.5°	159.7	165.5	187.3	251.2	371.7	554.7	875.6	1250.3	1347.6	1367.9
30°	156.8	171.4	183.0	223.6	338.3	518.4	910.5	1334.5	1434.7	1436.2
32.5°	153.9	151.0	159.7	194.6	297.7	480.7	939.5	1420.2	1498.6	1503.0
35°	120.5	126.3	140.9	171.4	267.2	453.1	954.0	1466.6	1579.9	1584.3
37.5°	113.3	120.5	132.1	158.3	246.9	429.8	958.4	1556.7	1665.6	1674.3
40°	110.4	116.2	124.9	146.7	230.9	400.8	967.1	1649.6	1791.9	1780.3
42.5°	104.6	111.8	120.5	140.9	217.8	379.0	968.6	1700.4	1858.7	1858.7
45°	103.1	107.5	117.6	140.9	203.3	360.1	945.3	1751.3	1935.7	1912.5
47.5°	97.3	106.0	114.7	136.5	185.9	341.2	917.7	1777.4	1945.8	1938.6
50°	95.8	104.6	119.1	129.2	175.7	332.5	911.9	1842.7	1966.2	1964.7
52.5°	92.9	101.6	123.4	123.4	162.6	320.9	939.5	1871.8	1970.5	1982.2
55°	88.6	101.6	114.7	113.3	151.0	306.4	970.0	1947.3	2047.5	2044.6
57.5°	85.7	98.7	108.9	103.1	138.0	296.2	1015.0	2019.9	2140.4	2120.1
60°	81.3	98.7	97.3	95.8	127.8	287.5	1052.8	2034.4	2160.8	2173.8
62.5°	78.4	103.1	85.7	88.6	119.1	283.2	1036.8	1925.5	2133.2	2144.8
65°	75.5	88.6	78.4	81.3	116.2	274.5	974.4	1794.8	2014.1	2064.9
67.5°	69.7	72.6	72.6	75.5	113.3	254.1	846.6	1559.6	1832.6	1860.2
70°	63.9	65.3	65.3	69.7	110.4	230.9	698.5	1349.0	1590.1	1642.4
72.5°	58.1	58.1	58.1	63.9	101.6	212.0	575.0	1036.8	1321.4	1357.7
75°	50.8	50.8	50.8	56.6	91.5	193.1	453.1	771.1	972.9	1025.2
77.5°	45.0	45.0	43.6	50.8	79.9	156.8	326.7	544.5	685.4	729.0
80°	37.8	36.3	36.3	40.7	62.4	113.3	210.6	384.8	477.7	496.6
82.5°	30.5	29.0	27.6	30.5	45.0	71.2	130.7	268.6	306.4	294.8
85°	29.0	30.5	24.7	23.2	31.9	46.5	82.8	165.5	138.0	138.0
87.5°	11.6	10.2	10.2	8.7	16.0	17.4	36.3	30.5	23.2	23.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)