

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: P675902

Luminaire Tested: **CCW-SA-1F-835-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675902
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-835-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SLL distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

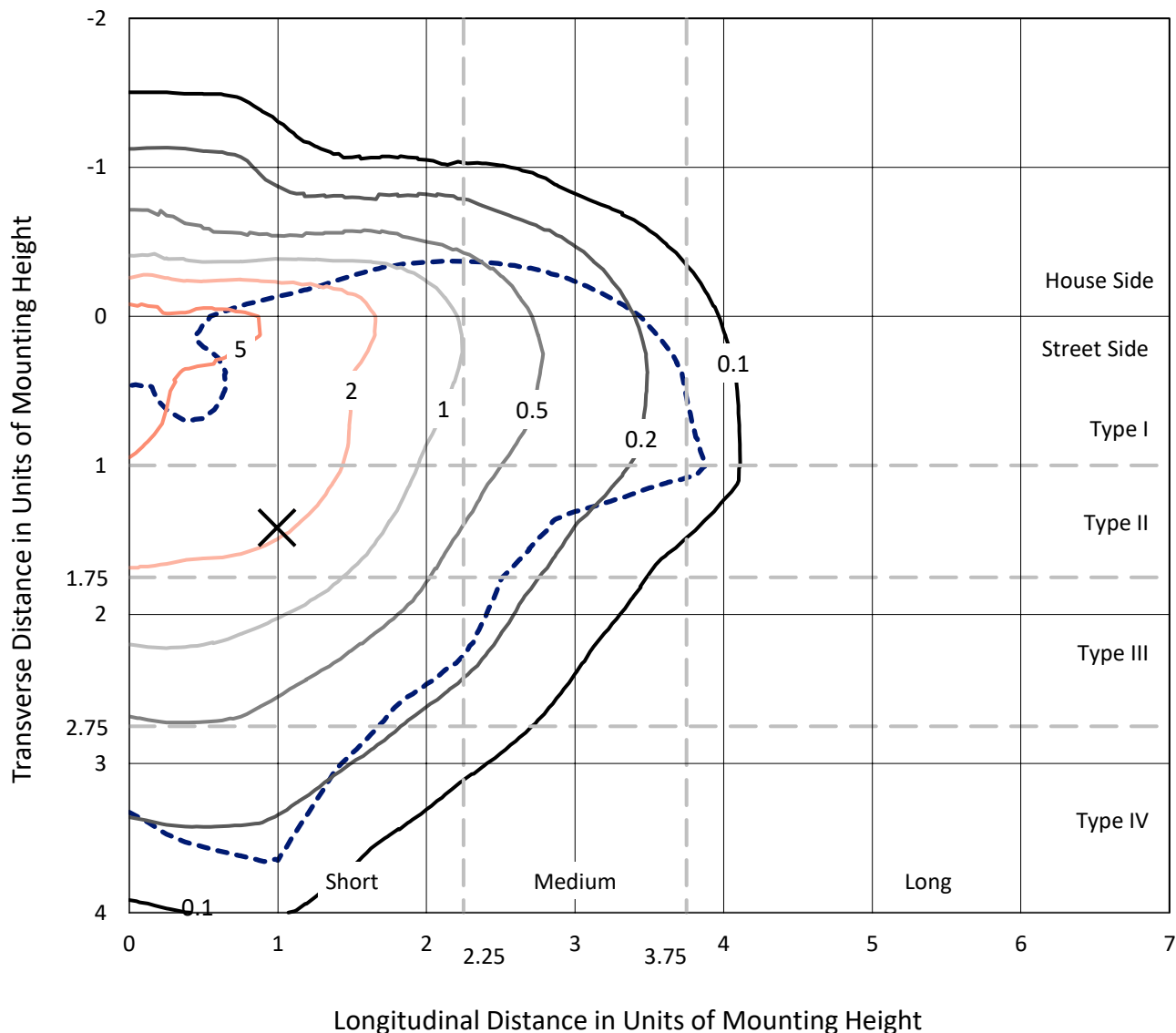
Lumens per Lamp: N/A
Luminaire Lumens: 5126.1 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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: P675902
 CATALOG NUMBER: CCW-SA-1F-835-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

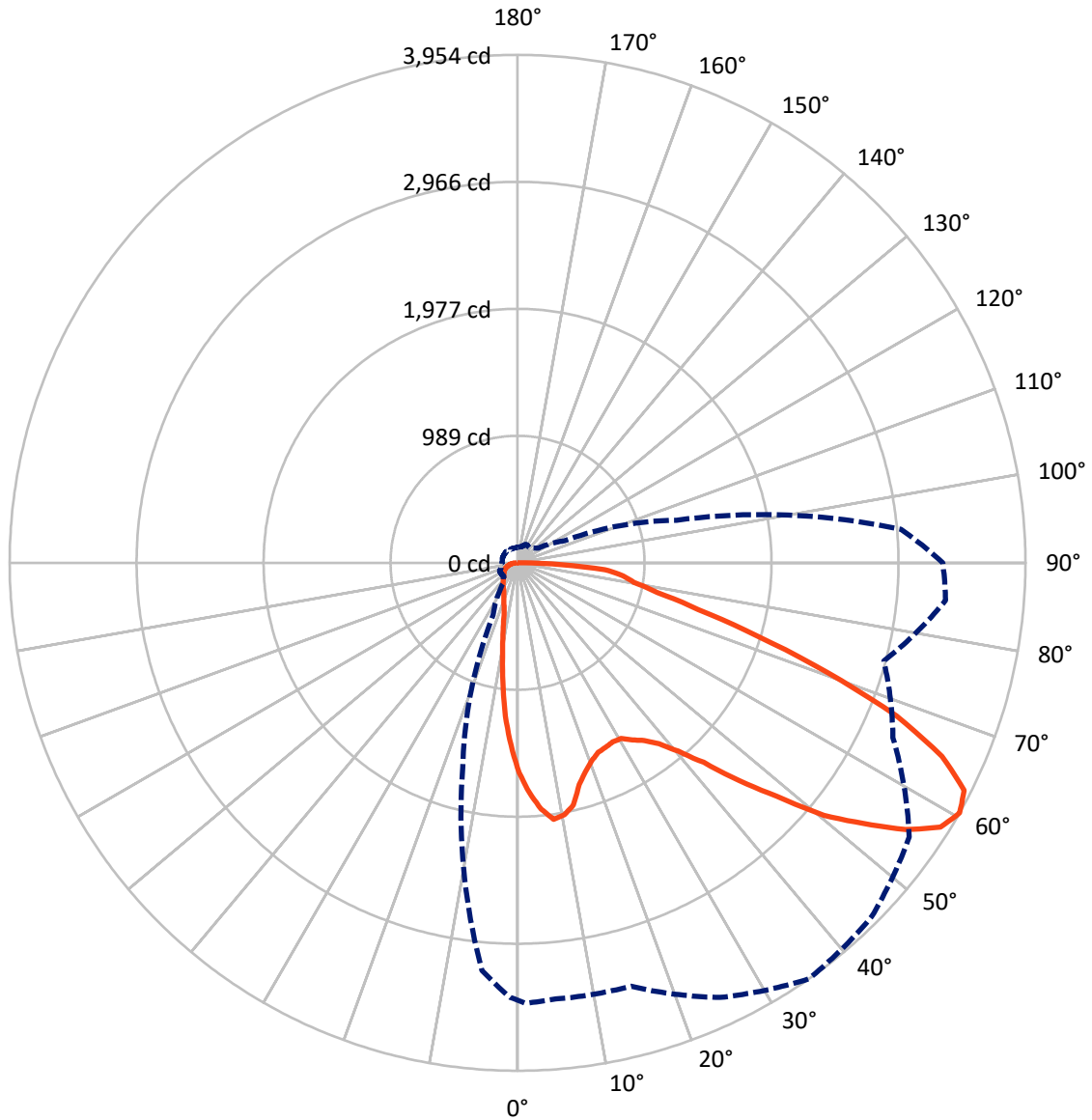
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P675902
CATALOG NUMBER: CCW-SA-1F-835-U-SLL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P675902
 CATALOG NUMBER: CCW-SA-1F-835-U-SLL

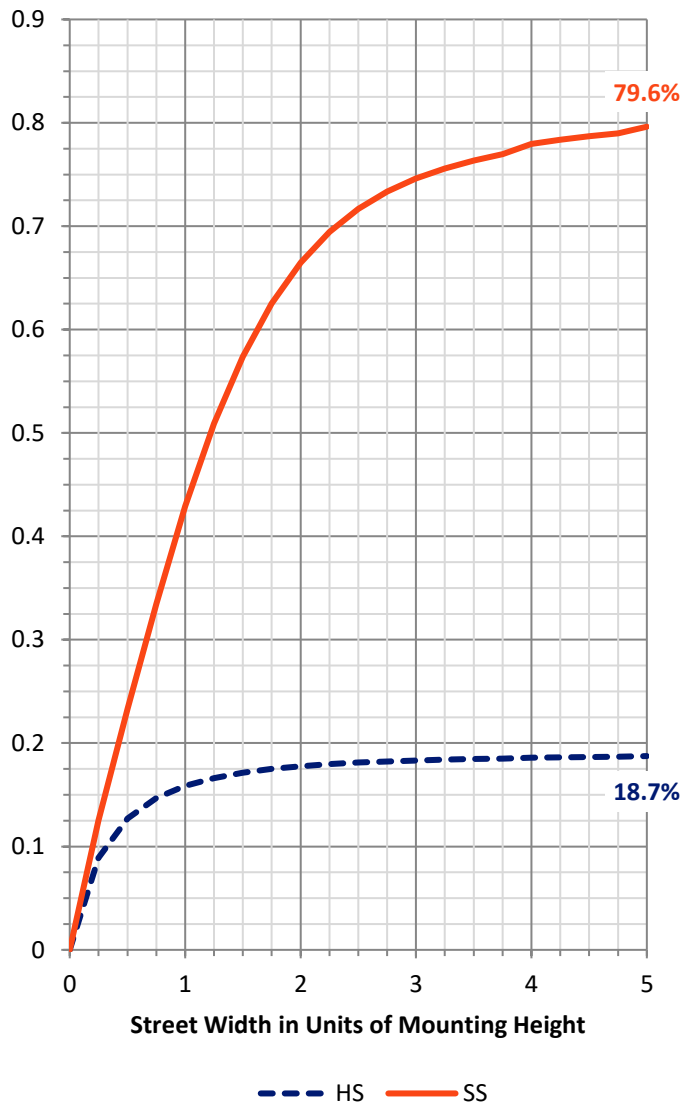
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	975.6	0.0	975.6
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	4150.6	0.0	4150.6
	% Fixture	81.0	0.0	81.0
Total	Lumens	5126.1	0.0	5126.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	2.5
10°-20°	268.5	5.2
20°-30°	392.9	7.7
30°-40°	553.6	10.8
40°-50°	760.8	14.8
50°-60°	1036.9	20.2
60°-70°	1134.8	22.1
70°-80°	655.2	12.8
80°-90°	196.2	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°	5126.1	100.0
0°-180°	5126.1	100.0

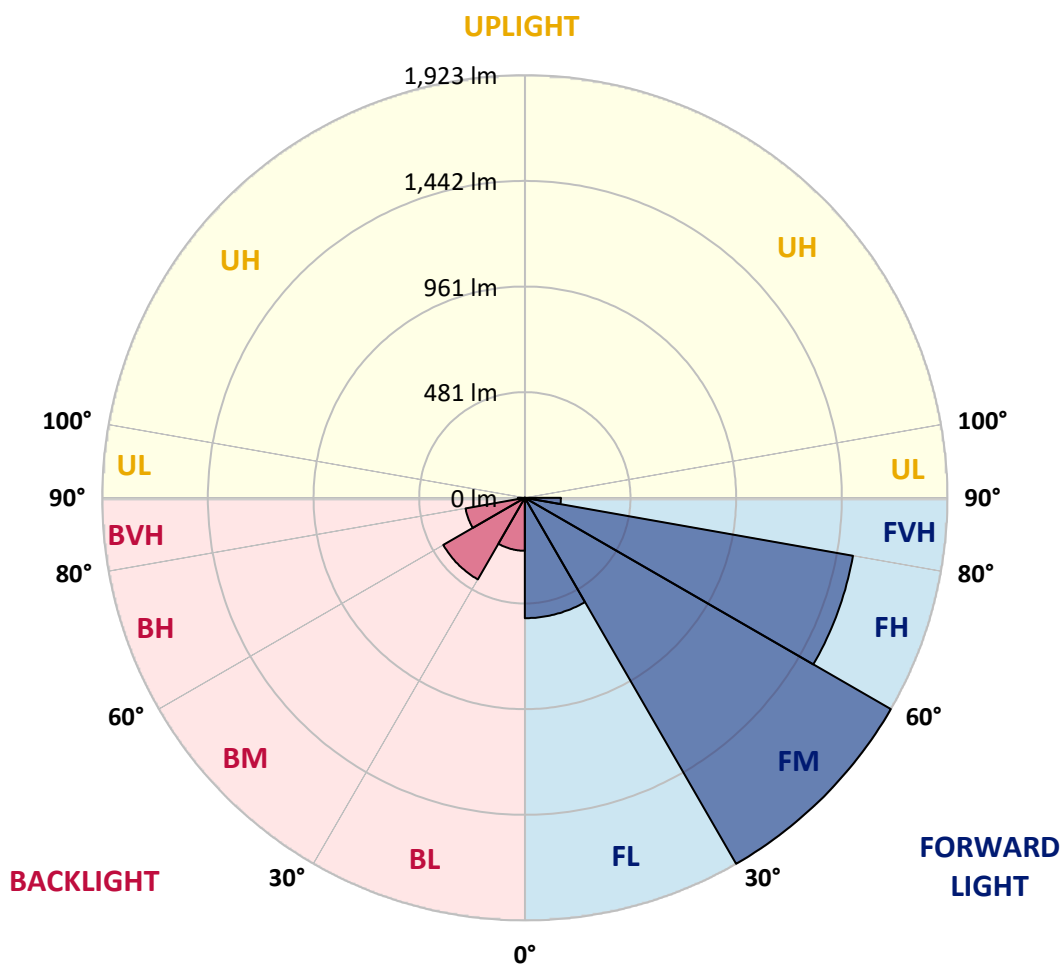


REPORT NUMBER: P675902
 CATALOG NUMBER: CCW-SA-1F-835-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	547.6	10.7			
FM (30°-60°)	1922.7	37.5			
FH (60°-80°)	1516.0	29.6			G1/1800
FVH (80°-90°)	164.2	3.2			G2/225
BL (0°-30°)	241.0	4.7	B1/500		
BM (30°-60°)	428.6	8.4	B1/1000		
BH (60°-80°)	274.0	5.3	B1/500		G1/500
BVH (80°-90°)	32.0	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: P675902

CATALOG NUMBER: CCW-SA-1F-835-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3
2.5°	1753.2	1746.4	1753.2	1778.2	1785.1	1796.4	1796.4	1780.5	1751.0	1737.3	1714.6
5°	1791.9	1780.5	1837.4	1889.7	1930.6	1926.0	1887.4	1855.6	1796.4	1707.7	1623.6
7.5°	1714.6	1725.9	1766.9	1903.3	1998.8	2017.0	1955.6	1891.9	1764.6	1641.8	1528.1
10°	1569.0	1585.0	1673.6	1814.6	1964.7	1994.3	1955.6	1878.3	1725.9	1573.6	1441.7
12.5°	1498.5	1534.9	1587.2	1757.8	1864.7	1935.1	1917.0	1866.9	1696.4	1516.7	1389.4
15°	1498.5	1507.6	1585.0	1728.2	1789.6	1791.9	1798.7	1807.8	1705.5	1541.7	1371.2
17.5°	1546.3	1571.3	1637.3	1725.9	1737.3	1710.0	1710.0	1748.7	1723.7	1612.2	1437.1
20°	1662.3	1653.2	1739.6	1776.0	1714.6	1646.3	1639.5	1705.5	1744.1	1687.3	1557.7
22.5°	1778.2	1819.2	1889.7	1807.8	1694.1	1603.1	1594.0	1675.9	1805.5	1816.9	1696.4
25°	1953.3	1994.3	2030.6	1930.6	1691.8	1591.8	1598.6	1662.3	1880.6	2001.1	1928.3
27.5°	2142.1	2167.1	2219.4	2064.8	1746.4	1578.1	1585.0	1680.5	1951.1	2121.6	2110.2
30°	2249.0	2276.2	2264.9	2089.8	1782.8	1587.2	1569.0	1705.5	1912.4	2121.6	2228.5
32.5°	2353.6	2337.6	2330.8	2130.7	1828.3	1644.1	1598.6	1757.8	1935.1	2155.7	2380.8
35°	2480.9	2458.2	2440.0	2210.3	1903.3	1698.7	1678.2	1826.0	1985.2	2226.2	2503.6
37.5°	2621.9	2621.9	2533.2	2269.4	1992.0	1787.3	1764.6	1923.8	2064.8	2269.4	2671.9
40°	2787.9	2794.7	2637.8	2349.0	2092.0	1928.3	1921.5	2051.1	2142.1	2333.1	2833.4
42.5°	2910.7	2915.2	2728.8	2378.6	2208.0	2123.9	2153.4	2255.8	2230.8	2389.9	2844.7
45°	2994.8	2972.1	2792.4	2462.7	2335.4	2417.2	2426.3	2455.9	2346.7	2424.0	2890.2
47.5°	3035.7	3031.2	2819.7	2560.5	2603.7	2715.1	2767.4	2726.5	2453.6	2387.7	2890.2
50°	3076.7	3038.0	2844.7	2694.6	2865.2	3090.3	3078.9	3003.9	2601.4	2433.1	2847.0
52.5°	3104.0	3069.9	2894.8	2815.2	3115.3	3370.0	3415.5	3276.8	2774.2	2517.3	2867.5
55°	3201.7	3174.5	3044.8	2978.9	3404.1	3665.6	3672.5	3479.2	2956.2	2656.0	3001.6
57.5°	3320.0	3335.9	3251.8	3210.8	3624.7	3881.7	3856.6	3629.2	3110.8	2824.3	3156.3
60°	3404.1	3429.1	3408.7	3413.2	3733.8	3954.4	3897.6	3722.5	3224.5	2951.6	3345.0
62.5°	3358.6	3408.7	3492.8	3474.6	3738.4	3902.1	3822.5	3599.7	3238.1	3117.6	3488.3
65°	3233.6	3238.1	3401.8	3501.9	3533.7	3631.5	3526.9	3342.7	3097.1	3219.9	3467.8
67.5°	2912.9	2949.3	3097.1	3292.7	3158.5	3181.3	3172.2	2906.1	2883.4	3149.4	3310.9
70°	2571.9	2596.9	2758.3	2988.0	2667.4	2560.5	2580.9	2383.1	2476.3	2931.1	2994.8
72.5°	2126.2	2142.1	2326.3	2528.6	2139.8	1948.8	1996.5	1835.1	1967.0	2565.0	2526.4
75°	1605.4	1635.0	1778.2	2017.0	1575.9	1453.1	1500.8	1434.9	1557.7	2112.5	1960.2
77.5°	1141.5	1118.8	1296.2	1578.1	1184.7	1112.0	1116.5	1127.9	1259.8	1780.5	1407.6
80°	777.7	784.5	943.7	1157.4	930.1	918.7	907.3	998.3	1057.4	1409.9	1023.3
82.5°	461.6	461.6	636.7	823.2	734.5	827.7	775.4	857.3	827.7	1036.9	670.8
85°	216.0	216.0	327.5	593.5	568.5	682.2	579.9	648.1	611.7	723.1	302.4
87.5°	36.4	31.8	65.9	291.1	234.2	266.1	104.6	345.6	384.3	504.8	75.0
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: P675902

CATALOG NUMBER: CCW-SA-1F-835-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3
2.5°	1689.6	1673.6	1641.8	1600.9	1566.8	1523.6	1509.9	1480.4	1439.4	1434.9	1416.7
5°	1591.8	1537.2	1469.0	1384.8	1328.0	1268.9	1218.8	1189.3	1155.2	1150.6	1141.5
7.5°	1484.9	1416.7	1303.0	1202.9	1105.1	1011.9	966.4	909.6	870.9	841.4	827.7
10°	1384.8	1321.2	1180.2	1043.7	957.3	895.9	841.4	782.2	734.5	698.1	684.5
12.5°	1318.9	1243.9	1091.5	961.9	898.2	827.7	766.3	702.7	641.3	593.5	568.5
15°	1289.3	1218.8	1064.2	921.0	827.7	729.9	659.4	595.8	520.7	486.6	475.3
17.5°	1359.8	1255.2	1055.1	873.2	741.3	629.9	543.5	475.3	420.7	386.6	372.9
20°	1450.8	1321.2	1071.0	816.4	659.4	534.4	438.9	366.1	329.7	304.7	302.4
22.5°	1566.8	1419.0	1096.1	775.4	568.5	429.8	343.4	300.2	275.1	272.9	268.3
25°	1773.7	1596.3	1137.0	720.8	495.7	354.7	293.3	268.3	257.0	250.1	254.7
27.5°	1951.1	1712.3	1166.5	686.7	466.2	334.3	284.2	257.0	245.6	243.3	245.6
30°	2055.7	1819.2	1157.4	623.1	407.0	318.4	302.4	293.3	270.6	252.4	252.4
32.5°	2151.2	1887.4	1155.2	566.2	347.9	266.1	252.4	245.6	259.2	268.3	261.5
35°	2283.1	1994.3	1148.4	534.4	322.9	245.6	222.8	204.7	195.6	191.0	197.8
37.5°	2424.0	2067.0	1130.2	529.8	309.3	234.2	216.0	197.8	188.7	184.2	181.9
40°	2578.7	2144.3	1109.7	507.1	302.4	227.4	209.2	193.3	181.9	175.1	172.8
42.5°	2678.7	2205.7	1089.2	495.7	288.8	222.8	202.4	188.7	177.4	168.3	168.3
45°	2735.6	2278.5	1068.8	484.4	272.9	225.1	202.4	184.2	170.5	166.0	161.5
47.5°	2760.6	2333.1	1061.9	466.2	259.2	216.0	197.8	179.6	166.0	156.9	154.6
50°	2826.5	2449.1	1087.0	452.5	243.3	206.9	209.2	177.4	163.7	152.4	150.1
52.5°	2865.2	2542.3	1141.5	432.1	231.9	195.6	204.7	172.8	156.9	145.5	145.5
55°	3006.2	2696.9	1200.7	416.1	218.3	179.6	188.7	163.7	145.5	138.7	138.7
57.5°	3185.8	2860.6	1250.7	409.3	209.2	168.3	168.3	159.2	138.7	129.6	127.3
60°	3310.9	2994.8	1280.2	404.8	200.1	156.9	150.1	159.2	131.9	122.8	120.5
62.5°	3324.5	2917.5	1250.7	402.5	197.8	145.5	136.4	152.4	125.1	116.0	111.4
65°	3238.1	2760.6	1168.8	393.4	195.6	134.2	127.3	131.9	116.0	109.2	104.6
67.5°	3065.3	2505.9	1050.6	388.8	193.3	125.1	116.0	113.7	106.9	100.1	95.5
70°	2662.8	2173.9	911.9	368.4	188.7	118.2	104.6	102.3	95.5	91.0	88.7
72.5°	2235.3	1778.2	752.7	341.1	179.6	106.9	95.5	91.0	88.7	81.9	79.6
75°	1712.3	1368.9	602.6	302.4	156.9	95.5	84.1	79.6	77.3	72.8	70.5
77.5°	1202.9	1018.7	445.7	245.6	131.9	86.4	75.0	70.5	68.2	61.4	61.4
80°	816.4	714.0	302.4	170.5	102.3	70.5	65.9	61.4	56.8	52.3	52.3
82.5°	507.1	500.3	218.3	111.4	75.0	56.8	52.3	52.3	45.5	40.9	40.9
85°	231.9	307.0	152.4	77.3	56.8	43.2	43.2	40.9	36.4	29.6	29.6
87.5°	72.8	102.3	79.6	34.1	31.8	25.0	25.0	22.7	22.7	18.2	18.2
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: P675902
 CATALOG NUMBER: CCW-SA-1F-835-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3
2.5°	1434.9	1432.6	1432.6	1423.5	1446.2	1446.2	1459.9	1448.5	1455.3	1457.6	1475.8
5°	1139.3	1157.4	1171.1	1198.4	1214.3	1221.1	1221.1	1239.3	1232.5	1246.1	1273.4
7.5°	834.5	857.3	898.2	932.3	959.6	968.7	966.4	971.0	977.8	961.9	966.4
10°	675.4	659.4	673.1	704.9	729.9	759.5	736.8	734.5	741.3	734.5	748.1
12.5°	563.9	545.8	534.4	534.4	552.6	566.2	559.4	570.8	595.8	602.6	618.5
15°	457.1	441.1	432.1	420.7	438.9	443.4	450.2	466.2	484.4	493.5	511.6
17.5°	366.1	366.1	366.1	357.0	363.8	370.7	372.9	393.4	395.7	404.8	411.6
20°	300.2	307.0	318.4	322.9	329.7	329.7	325.2	336.5	327.5	334.3	338.8
22.5°	270.6	279.7	284.2	286.5	295.6	297.9	286.5	288.8	291.1	284.2	286.5
25°	254.7	259.2	254.7	257.0	259.2	254.7	257.0	261.5	259.2	263.8	261.5
27.5°	247.9	243.3	241.0	238.8	238.8	234.2	236.5	236.5	241.0	243.3	243.3
30°	247.9	241.0	231.9	225.1	225.1	218.3	222.8	227.4	229.7	234.2	234.2
32.5°	254.7	241.0	225.1	218.3	211.5	206.9	211.5	218.3	227.4	229.7	231.9
35°	202.4	209.2	206.9	197.8	195.6	195.6	193.3	193.3	186.5	186.5	184.2
37.5°	181.9	179.6	184.2	186.5	188.7	181.9	181.9	172.8	170.5	172.8	172.8
40°	170.5	170.5	170.5	177.4	179.6	175.1	168.3	163.7	163.7	163.7	166.0
42.5°	166.0	161.5	159.2	163.7	170.5	166.0	159.2	156.9	156.9	159.2	159.2
45°	159.2	156.9	154.6	152.4	161.5	154.6	152.4	150.1	150.1	150.1	152.4
47.5°	152.4	150.1	145.5	145.5	147.8	145.5	143.3	143.3	143.3	147.8	147.8
50°	147.8	145.5	141.0	141.0	141.0	141.0	138.7	138.7	138.7	141.0	143.3
52.5°	141.0	138.7	136.4	134.2	134.2	134.2	134.2	134.2	134.2	136.4	138.7
55°	134.2	131.9	129.6	129.6	131.9	131.9	129.6	131.9	129.6	131.9	134.2
57.5°	127.3	125.1	122.8	125.1	127.3	125.1	125.1	125.1	125.1	125.1	127.3
60°	118.2	118.2	118.2	118.2	122.8	122.8	122.8	122.8	118.2	120.5	122.8
62.5°	113.7	111.4	111.4	113.7	116.0	116.0	118.2	116.0	113.7	116.0	116.0
65°	104.6	104.6	104.6	106.9	106.9	109.2	109.2	109.2	106.9	109.2	109.2
67.5°	97.8	97.8	97.8	97.8	102.3	102.3	102.3	102.3	100.1	100.1	102.3
70°	86.4	88.7	86.4	91.0	95.5	93.2	95.5	95.5	93.2	91.0	95.5
72.5°	79.6	79.6	79.6	79.6	86.4	86.4	86.4	88.7	86.4	84.1	86.4
75°	70.5	70.5	70.5	72.8	77.3	77.3	77.3	77.3	77.3	75.0	75.0
77.5°	61.4	63.7	61.4	63.7	68.2	65.9	68.2	70.5	68.2	65.9	65.9
80°	52.3	52.3	52.3	54.6	56.8	56.8	56.8	59.1	56.8	54.6	54.6
82.5°	40.9	40.9	43.2	43.2	45.5	45.5	45.5	47.8	45.5	43.2	43.2
85°	31.8	31.8	31.8	34.1	34.1	36.4	36.4	38.7	38.7	36.4	36.4
87.5°	20.5	18.2	20.5	20.5	22.7	22.7	20.5	18.2	20.5	18.2	15.9
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: P675902
 CATALOG NUMBER: CCW-SA-1F-835-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3
2.5°	1494.0	1534.9	1564.5	1585.0	1614.5	1671.4	1694.1	1735.0	1746.4	1753.2
5°	1284.8	1328.0	1391.7	1437.1	1489.4	1596.3	1678.2	1739.6	1766.9	1791.9
7.5°	1007.4	1064.2	1130.2	1189.3	1275.7	1407.6	1514.5	1641.8	1689.6	1714.6
10°	786.8	839.1	911.9	984.6	1105.1	1216.6	1368.9	1484.9	1550.8	1569.0
12.5°	664.0	725.4	811.8	900.5	975.5	1102.9	1257.5	1425.8	1487.2	1498.5
15°	563.9	648.1	736.8	827.7	914.1	1025.6	1191.6	1396.2	1487.2	1498.5
17.5°	466.2	541.2	645.8	743.6	843.6	996.0	1202.9	1421.2	1512.2	1546.3
20°	370.7	443.4	525.3	648.1	784.5	946.0	1227.9	1505.4	1625.9	1662.3
22.5°	307.0	338.8	418.4	536.7	698.1	911.9	1253.0	1637.3	1764.6	1778.2
25°	268.3	291.1	341.1	452.5	629.9	889.1	1312.1	1789.6	1953.3	1953.3
27.5°	250.1	259.2	293.3	393.4	582.1	868.7	1371.2	1957.9	2110.2	2142.1
30°	245.6	268.3	286.5	350.2	529.8	811.8	1425.8	2089.8	2246.7	2249.0
32.5°	241.0	236.5	250.1	304.7	466.2	752.7	1471.3	2223.9	2346.7	2353.6
35°	188.7	197.8	220.6	268.3	418.4	709.5	1494.0	2296.7	2474.1	2480.9
37.5°	177.4	188.7	206.9	247.9	386.6	673.1	1500.8	2437.7	2608.2	2621.9
40°	172.8	181.9	195.6	229.7	361.6	627.6	1514.5	2583.2	2806.1	2787.9
42.5°	163.7	175.1	188.7	220.6	341.1	593.5	1516.7	2662.8	2910.7	2910.7
45°	161.5	168.3	184.2	220.6	318.4	563.9	1480.4	2742.4	3031.2	2994.8
47.5°	152.4	166.0	179.6	213.8	291.1	534.4	1437.1	2783.3	3047.1	3035.7
50°	150.1	163.7	186.5	202.4	275.1	520.7	1428.0	2885.7	3078.9	3076.7
52.5°	145.5	159.2	193.3	193.3	254.7	502.5	1471.3	2931.1	3085.8	3104.0
55°	138.7	159.2	179.6	177.4	236.5	479.8	1519.0	3049.4	3206.3	3201.7
57.5°	134.2	154.6	170.5	161.5	216.0	463.9	1589.5	3163.1	3351.8	3320.0
60°	127.3	154.6	152.4	150.1	200.1	450.2	1648.6	3185.8	3383.7	3404.1
62.5°	122.8	161.5	134.2	138.7	186.5	443.4	1623.6	3015.3	3340.5	3358.6
65°	118.2	138.7	122.8	127.3	181.9	429.8	1525.8	2810.6	3154.0	3233.6
67.5°	109.2	113.7	113.7	118.2	177.4	397.9	1325.7	2442.2	2869.7	2912.9
70°	100.1	102.3	102.3	109.2	172.8	361.6	1093.8	2112.5	2490.0	2571.9
72.5°	91.0	91.0	91.0	100.1	159.2	332.0	900.5	1623.6	2069.3	2126.2
75°	79.6	79.6	79.6	88.7	143.3	302.4	709.5	1207.5	1523.6	1605.4
77.5°	70.5	70.5	68.2	79.6	125.1	245.6	511.6	852.7	1073.3	1141.5
80°	59.1	56.8	56.8	63.7	97.8	177.4	329.7	602.6	748.1	777.7
82.5°	47.8	45.5	43.2	47.8	70.5	111.4	204.7	420.7	479.8	461.6
85°	45.5	47.8	38.7	36.4	50.0	72.8	129.6	259.2	216.0	216.0
87.5°	18.2	15.9	15.9	13.6	25.0	27.3	56.8	47.8	36.4	36.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)