

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: P675891

Luminaire Tested: **CCW-SA-1F-830-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675891
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-830-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SLL distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

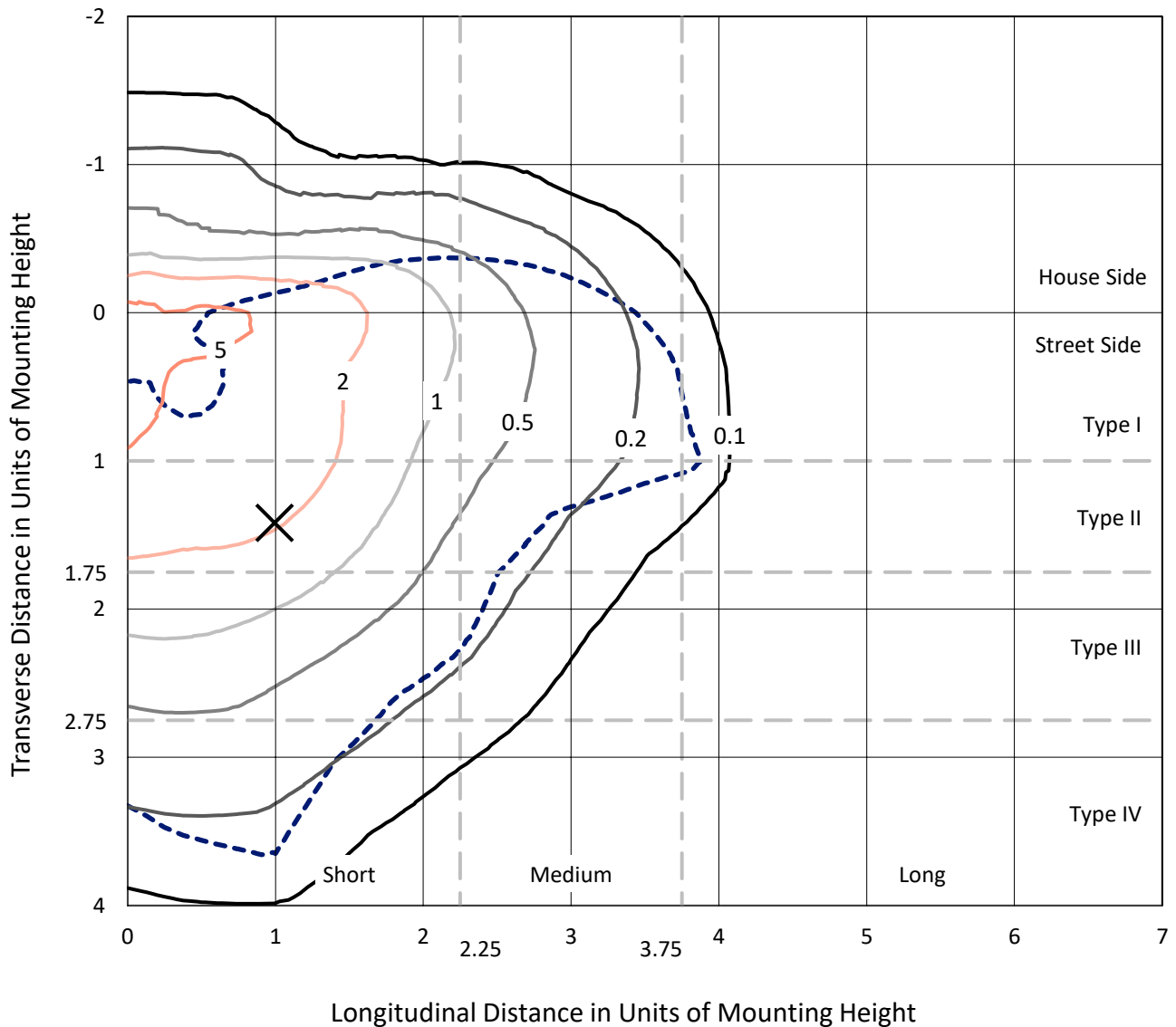
Lumens per Lamp: N/A
Luminaire Lumens: 4943.2 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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: P675891
 CATALOG NUMBER: CCW-SA-1F-830-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

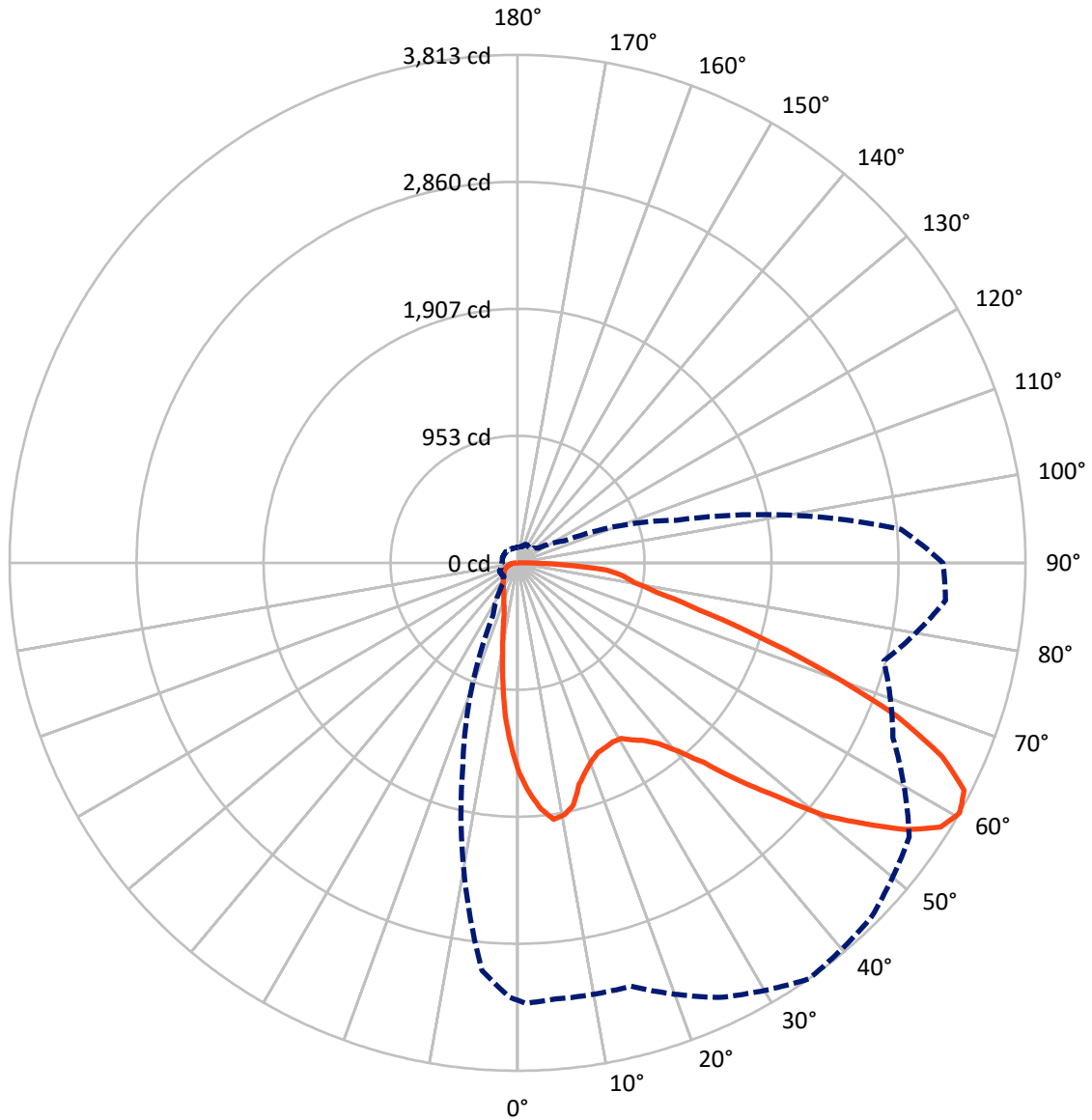
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

REPORT NUMBER: P675891
CATALOG NUMBER: CCW-SA-1F-830-U-SLL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P675891
 CATALOG NUMBER: CCW-SA-1F-830-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	940.8	0.0	940.8
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	4002.5	0.0	4002.5
	% Fixture	81.0	0.0	81.0
Total	Lumens	4943.2	0.0	4943.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	2.5
10°-20°	259.0	5.2
20°-30°	378.9	7.7
30°-40°	533.8	10.8
40°-50°	733.7	14.8
50°-60°	999.9	20.2
60°-70°	1094.3	22.1
70°-80°	631.8	12.8
80°-90°	189.2	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°	4943.2	100.0
0°-180°	4943.2	100.0

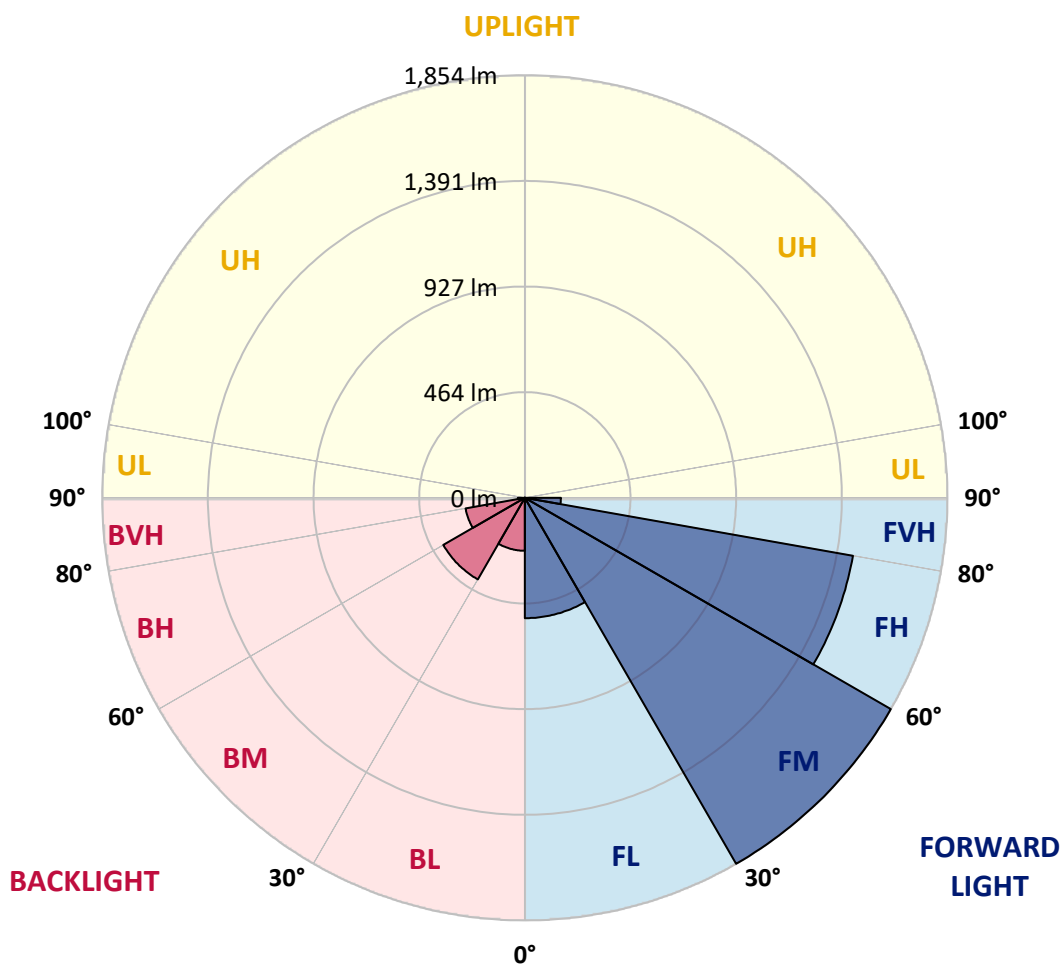


REPORT NUMBER: P675891
 CATALOG NUMBER: CCW-SA-1F-830-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.1	10.7			
FM (30°-60°)	1854.1	37.5			
FH (60°-80°)	1461.9	29.6			G1/1800
FVH (80°-90°)	158.4	3.2			G2/225
BL (0°-30°)	232.4	4.7	B1/500		
BM (30°-60°)	413.3	8.4	B1/1000		
BH (60°-80°)	264.2	5.3	B1/500		G1/500
BVH (80°-90°)	30.8	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: P675891

CATALOG NUMBER: CCW-SA-1F-830-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8
2.5°	1690.7	1684.1	1690.7	1714.8	1721.4	1732.3	1732.3	1717.0	1688.5	1675.3	1653.4
5°	1727.9	1717.0	1771.8	1822.2	1861.7	1857.3	1820.0	1789.3	1732.3	1646.8	1565.7
7.5°	1653.4	1664.4	1703.8	1835.4	1927.5	1945.0	1885.8	1824.4	1701.6	1583.2	1473.6
10°	1513.1	1528.4	1613.9	1749.9	1894.6	1923.1	1885.8	1811.3	1664.4	1517.4	1390.3
12.5°	1445.1	1480.2	1530.6	1695.1	1798.1	1866.1	1848.6	1800.3	1635.9	1462.6	1339.8
15°	1445.1	1453.8	1528.4	1666.6	1725.8	1727.9	1734.5	1743.3	1644.6	1486.7	1322.3
17.5°	1491.1	1515.2	1578.8	1664.4	1675.3	1649.0	1649.0	1686.3	1662.2	1554.7	1385.9
20°	1603.0	1594.2	1677.5	1712.6	1653.4	1587.6	1581.0	1644.6	1681.9	1627.1	1502.1
22.5°	1714.8	1754.3	1822.2	1743.3	1633.7	1545.9	1537.2	1616.1	1741.1	1752.1	1635.9
25°	1883.6	1923.1	1958.2	1861.7	1631.5	1535.0	1541.6	1603.0	1813.5	1929.7	1859.5
27.5°	2065.6	2089.8	2140.2	1991.1	1684.1	1521.8	1528.4	1620.5	1881.4	2045.9	2034.9
30°	2168.7	2195.0	2184.1	2015.2	1719.2	1530.6	1513.1	1644.6	1844.2	2045.9	2149.0
32.5°	2269.6	2254.2	2247.7	2054.7	1763.0	1585.4	1541.6	1695.1	1866.1	2078.8	2295.9
35°	2392.4	2370.4	2352.9	2131.4	1835.4	1638.0	1618.3	1760.8	1914.3	2146.8	2414.3
37.5°	2528.3	2528.3	2442.8	2188.4	1920.9	1723.6	1701.6	1855.1	1991.1	2188.4	2576.6
40°	2688.4	2695.0	2543.7	2265.2	2017.4	1859.5	1852.9	1977.9	2065.6	2249.8	2732.3
42.5°	2806.8	2811.2	2631.4	2293.7	2129.2	2048.1	2076.6	2175.3	2151.2	2304.7	2743.2
45°	2888.0	2866.0	2692.8	2374.8	2252.0	2331.0	2339.7	2368.3	2263.0	2337.6	2787.1
47.5°	2927.4	2923.0	2719.1	2469.1	2510.8	2618.2	2668.7	2629.2	2366.1	2302.5	2787.1
50°	2966.9	2929.6	2743.2	2598.5	2763.0	2980.1	2969.1	2896.7	2508.6	2346.3	2745.4
52.5°	2993.2	2960.3	2791.5	2714.7	3004.2	3249.8	3293.6	3159.9	2675.3	2427.5	2765.2
55°	3087.5	3061.2	2936.2	2872.6	3282.7	3534.8	3541.4	3355.0	2850.7	2561.2	2894.5
57.5°	3201.5	3216.9	3135.7	3096.3	3495.4	3743.2	3719.0	3499.8	2999.8	2723.5	3043.6
60°	3282.7	3306.8	3287.1	3291.4	3600.6	3813.3	3758.5	3589.7	3109.4	2846.3	3225.7
62.5°	3238.8	3287.1	3368.2	3350.6	3605.0	3762.9	3686.1	3471.2	3122.6	3006.4	3363.8
65°	3118.2	3122.6	3280.5	3377.0	3407.7	3501.9	3401.1	3223.5	2986.6	3105.0	3344.1
67.5°	2809.0	2844.1	2986.6	3175.2	3045.8	3067.8	3059.0	2802.4	2780.5	3037.1	3192.8
70°	2480.1	2504.2	2659.9	2881.4	2572.2	2469.1	2488.9	2298.1	2388.0	2826.6	2888.0
72.5°	2050.3	2065.6	2243.3	2438.4	2063.5	1879.3	1925.3	1769.6	1896.8	2473.5	2436.2
75°	1548.1	1576.6	1714.8	1945.0	1519.6	1401.2	1447.3	1383.7	1502.1	2037.1	1890.2
77.5°	1100.8	1078.9	1249.9	1521.8	1142.5	1072.3	1076.7	1087.6	1214.8	1717.0	1357.4
80°	749.9	756.5	910.0	1116.2	896.9	885.9	874.9	962.7	1019.7	1359.6	986.8
82.5°	445.1	445.1	614.0	793.8	708.3	798.2	747.8	826.7	798.2	999.9	646.9
85°	208.3	208.3	315.8	572.3	548.2	657.8	559.2	625.0	589.9	697.3	291.6
87.5°	35.1	30.7	63.6	280.7	225.9	256.6	100.9	333.3	370.6	486.8	72.4
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: P675891
 CATALOG NUMBER: CCW-SA-1F-830-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8
2.5°	1629.3	1613.9	1583.2	1543.8	1510.9	1469.2	1456.0	1427.5	1388.1	1383.7	1366.1
5°	1535.0	1482.4	1416.6	1335.4	1280.6	1223.6	1175.4	1146.8	1114.0	1109.6	1100.8
7.5°	1431.9	1366.1	1256.5	1160.0	1065.7	975.8	932.0	877.1	839.9	811.3	798.2
10°	1335.4	1274.0	1138.1	1006.5	923.2	864.0	811.3	754.3	708.3	673.2	660.0
12.5°	1271.8	1199.5	1052.6	927.6	866.2	798.2	739.0	677.6	618.4	572.3	548.2
15°	1243.3	1175.4	1026.2	888.1	798.2	703.9	635.9	574.5	502.2	469.3	458.3
17.5°	1311.3	1210.4	1017.5	842.0	714.9	607.4	524.1	458.3	405.7	372.8	359.6
20°	1399.0	1274.0	1032.8	787.2	635.9	515.3	423.2	353.0	318.0	293.8	291.6
22.5°	1510.9	1368.3	1056.9	747.8	548.2	414.4	331.1	289.5	265.3	263.1	258.8
25°	1710.4	1539.4	1096.4	695.1	478.0	342.1	282.9	258.8	247.8	241.2	245.6
27.5°	1881.4	1651.2	1124.9	662.2	449.5	322.3	274.1	247.8	236.8	234.6	236.8
30°	1982.3	1754.3	1116.2	600.8	392.5	307.0	291.6	282.9	260.9	243.4	243.4
32.5°	2074.4	1820.0	1114.0	546.0	335.5	256.6	243.4	236.8	250.0	258.8	252.2
35°	2201.6	1923.1	1107.4	515.3	311.4	236.8	214.9	197.4	188.6	184.2	190.8
37.5°	2337.6	1993.3	1089.8	510.9	298.2	225.9	208.3	190.8	182.0	177.6	175.4
40°	2486.7	2067.8	1070.1	489.0	291.6	219.3	201.7	186.4	175.4	168.8	166.7
42.5°	2583.2	2127.0	1050.4	478.0	278.5	214.9	195.2	182.0	171.0	162.3	162.3
45°	2638.0	2197.2	1030.6	467.1	263.1	217.1	195.2	177.6	164.5	160.1	155.7
47.5°	2662.1	2249.8	1024.1	449.5	250.0	208.3	190.8	173.2	160.1	151.3	149.1
50°	2725.7	2361.7	1048.2	436.4	234.6	199.5	201.7	171.0	157.9	146.9	144.7
52.5°	2763.0	2451.6	1100.8	416.6	223.7	188.6	197.4	166.7	151.3	140.3	140.3
55°	2898.9	2600.7	1157.8	401.3	210.5	173.2	182.0	157.9	140.3	133.8	133.8
57.5°	3072.2	2758.6	1206.1	394.7	201.7	162.3	162.3	153.5	133.8	125.0	122.8
60°	3192.8	2888.0	1234.6	390.3	193.0	151.3	144.7	153.5	127.2	118.4	116.2
62.5°	3205.9	2813.4	1206.1	388.1	190.8	140.3	131.6	146.9	120.6	111.8	107.4
65°	3122.6	2662.1	1127.1	379.4	188.6	129.4	122.8	127.2	111.8	105.3	100.9
67.5°	2955.9	2416.5	1013.1	375.0	186.4	120.6	111.8	109.6	103.1	96.5	92.1
70°	2567.8	2096.3	879.3	355.2	182.0	114.0	100.9	98.7	92.1	87.7	85.5
72.5°	2155.6	1714.8	725.8	328.9	173.2	103.1	92.1	87.7	85.5	78.9	76.7
75°	1651.2	1320.1	581.1	291.6	151.3	92.1	81.1	76.7	74.6	70.2	68.0
77.5°	1160.0	982.4	429.8	236.8	127.2	83.3	72.4	68.0	65.8	59.2	59.2
80°	787.2	688.5	291.6	164.5	98.7	68.0	63.6	59.2	54.8	50.4	50.4
82.5°	489.0	482.4	210.5	107.4	72.4	54.8	50.4	50.4	43.9	39.5	39.5
85°	223.7	296.0	146.9	74.6	54.8	41.7	41.7	39.5	35.1	28.5	28.5
87.5°	70.2	98.7	76.7	32.9	30.7	24.1	24.1	21.9	21.9	17.5	17.5
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: P675891
 CATALOG NUMBER: CCW-SA-1F-830-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8
2.5°	1383.7	1381.5	1381.5	1372.7	1394.6	1394.6	1407.8	1396.8	1403.4	1405.6	1423.1
5°	1098.6	1116.2	1129.3	1155.6	1171.0	1177.5	1177.5	1195.1	1188.5	1201.7	1228.0
7.5°	804.8	826.7	866.2	899.1	925.4	934.1	932.0	936.3	942.9	927.6	932.0
10°	651.3	635.9	649.1	679.8	703.9	732.4	710.5	708.3	714.9	708.3	721.4
12.5°	543.8	526.3	515.3	515.3	532.9	546.0	539.4	550.4	574.5	581.1	596.4
15°	440.8	425.4	416.6	405.7	423.2	427.6	434.2	449.5	467.1	475.8	493.4
17.5°	353.0	353.0	353.0	344.3	350.9	357.4	359.6	379.4	381.6	390.3	396.9
20°	289.5	296.0	307.0	311.4	318.0	318.0	313.6	324.5	315.8	322.3	326.7
22.5°	260.9	269.7	274.1	276.3	285.1	287.3	276.3	278.5	280.7	274.1	276.3
25°	245.6	250.0	245.6	247.8	250.0	245.6	247.8	252.2	250.0	254.4	252.2
27.5°	239.0	234.6	232.4	230.2	230.2	225.9	228.1	228.1	232.4	234.6	234.6
30°	239.0	232.4	223.7	217.1	217.1	210.5	214.9	219.3	221.5	225.9	225.9
32.5°	245.6	232.4	217.1	210.5	203.9	199.5	203.9	210.5	219.3	221.5	223.7
35°	195.2	201.7	199.5	190.8	188.6	188.6	186.4	186.4	179.8	179.8	177.6
37.5°	175.4	173.2	177.6	179.8	182.0	175.4	175.4	166.7	164.5	166.7	166.7
40°	164.5	164.5	164.5	171.0	173.2	168.8	162.3	157.9	157.9	157.9	160.1
42.5°	160.1	155.7	153.5	157.9	164.5	160.1	153.5	151.3	151.3	153.5	153.5
45°	153.5	151.3	149.1	146.9	155.7	149.1	146.9	144.7	144.7	144.7	146.9
47.5°	146.9	144.7	140.3	140.3	142.5	140.3	138.1	138.1	138.1	142.5	142.5
50°	142.5	140.3	136.0	136.0	136.0	136.0	133.8	133.8	133.8	136.0	138.1
52.5°	136.0	133.8	131.6	129.4	129.4	129.4	129.4	129.4	129.4	131.6	133.8
55°	129.4	127.2	125.0	125.0	127.2	127.2	125.0	127.2	125.0	127.2	129.4
57.5°	122.8	120.6	118.4	120.6	122.8	120.6	120.6	120.6	120.6	120.6	122.8
60°	114.0	114.0	114.0	114.0	118.4	118.4	118.4	118.4	114.0	116.2	118.4
62.5°	109.6	107.4	107.4	109.6	111.8	111.8	114.0	111.8	109.6	111.8	111.8
65°	100.9	100.9	100.9	103.1	103.1	105.3	105.3	105.3	103.1	105.3	105.3
67.5°	94.3	94.3	94.3	94.3	98.7	98.7	98.7	98.7	96.5	96.5	98.7
70°	83.3	85.5	83.3	87.7	92.1	89.9	92.1	92.1	89.9	87.7	92.1
72.5°	76.7	76.7	76.7	76.7	83.3	83.3	83.3	85.5	83.3	81.1	83.3
75°	68.0	68.0	68.0	70.2	74.6	74.6	74.6	74.6	74.6	72.4	72.4
77.5°	59.2	61.4	59.2	61.4	65.8	63.6	65.8	68.0	65.8	63.6	63.6
80°	50.4	50.4	50.4	52.6	54.8	54.8	54.8	57.0	54.8	52.6	52.6
82.5°	39.5	39.5	41.7	41.7	43.9	43.9	43.9	46.0	43.9	41.7	41.7
85°	30.7	30.7	30.7	32.9	32.9	35.1	35.1	37.3	37.3	35.1	35.1
87.5°	19.7	17.5	19.7	19.7	21.9	21.9	19.7	17.5	19.7	17.5	15.3
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: P675891
 CATALOG NUMBER: CCW-SA-1F-830-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8	1578.8
2.5°	1440.7	1480.2	1508.7	1528.4	1556.9	1611.7	1633.7	1673.1	1684.1	1690.7
5°	1238.9	1280.6	1342.0	1385.9	1436.3	1539.4	1618.3	1677.5	1703.8	1727.9
7.5°	971.4	1026.2	1089.8	1146.8	1230.2	1357.4	1460.4	1583.2	1629.3	1653.4
10°	758.7	809.2	879.3	949.5	1065.7	1173.2	1320.1	1431.9	1495.5	1513.1
12.5°	640.3	699.5	782.8	868.4	940.7	1063.5	1212.6	1374.9	1434.1	1445.1
15°	543.8	625.0	710.5	798.2	881.5	989.0	1149.0	1346.4	1434.1	1445.1
17.5°	449.5	521.9	622.8	717.1	813.5	960.5	1160.0	1370.5	1458.2	1491.1
20°	357.4	427.6	506.5	625.0	756.5	912.2	1184.1	1451.7	1567.9	1603.0
22.5°	296.0	326.7	403.5	517.5	673.2	879.3	1208.2	1578.8	1701.6	1714.8
25°	258.8	280.7	328.9	436.4	607.4	857.4	1265.3	1725.8	1883.6	1883.6
27.5°	241.2	250.0	282.9	379.4	561.4	837.7	1322.3	1888.0	2034.9	2065.6
30°	236.8	258.8	276.3	337.7	510.9	782.8	1374.9	2015.2	2166.5	2168.7
32.5°	232.4	228.1	241.2	293.8	449.5	725.8	1418.8	2144.6	2263.0	2269.6
35°	182.0	190.8	212.7	258.8	403.5	684.2	1440.7	2214.8	2385.8	2392.4
37.5°	171.0	182.0	199.5	239.0	372.8	649.1	1447.3	2350.7	2515.2	2528.3
40°	166.7	175.4	188.6	221.5	348.7	605.2	1460.4	2491.1	2706.0	2688.4
42.5°	157.9	168.8	182.0	212.7	328.9	572.3	1462.6	2567.8	2806.8	2806.8
45°	155.7	162.3	177.6	212.7	307.0	543.8	1427.5	2644.6	2923.0	2888.0
47.5°	146.9	160.1	173.2	206.1	280.7	515.3	1385.9	2684.0	2938.4	2927.4
50°	144.7	157.9	179.8	195.2	265.3	502.2	1377.1	2782.7	2969.1	2966.9
52.5°	140.3	153.5	186.4	186.4	245.6	484.6	1418.8	2826.6	2975.7	2993.2
55°	133.8	153.5	173.2	171.0	228.1	462.7	1464.8	2940.6	3091.9	3087.5
57.5°	129.4	149.1	164.5	155.7	208.3	447.3	1532.8	3050.2	3232.2	3201.5
60°	122.8	149.1	146.9	144.7	193.0	434.2	1589.8	3072.2	3262.9	3282.7
62.5°	118.4	155.7	129.4	133.8	179.8	427.6	1565.7	2907.7	3221.3	3238.8
65°	114.0	133.8	118.4	122.8	175.4	414.4	1471.4	2710.3	3041.5	3118.2
67.5°	105.3	109.6	109.6	114.0	171.0	383.7	1278.4	2355.1	2767.4	2809.0
70°	96.5	98.7	98.7	105.3	166.7	348.7	1054.8	2037.1	2401.1	2480.1
72.5°	87.7	87.7	87.7	96.5	153.5	320.2	868.4	1565.7	1995.5	2050.3
75°	76.7	76.7	76.7	85.5	138.1	291.6	684.2	1164.4	1469.2	1548.1
77.5°	68.0	68.0	65.8	76.7	120.6	236.8	493.4	822.3	1035.0	1100.8
80°	57.0	54.8	54.8	61.4	94.3	171.0	318.0	581.1	721.4	749.9
82.5°	46.0	43.9	41.7	46.0	68.0	107.4	197.4	405.7	462.7	445.1
85°	43.9	46.0	37.3	35.1	48.2	70.2	125.0	250.0	208.3	208.3
87.5°	17.5	15.3	15.3	13.2	24.1	26.3	54.8	46.0	35.1	35.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)