

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: P677243

Luminaire Tested: **CCW-SA-1F-722-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677243  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-722-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

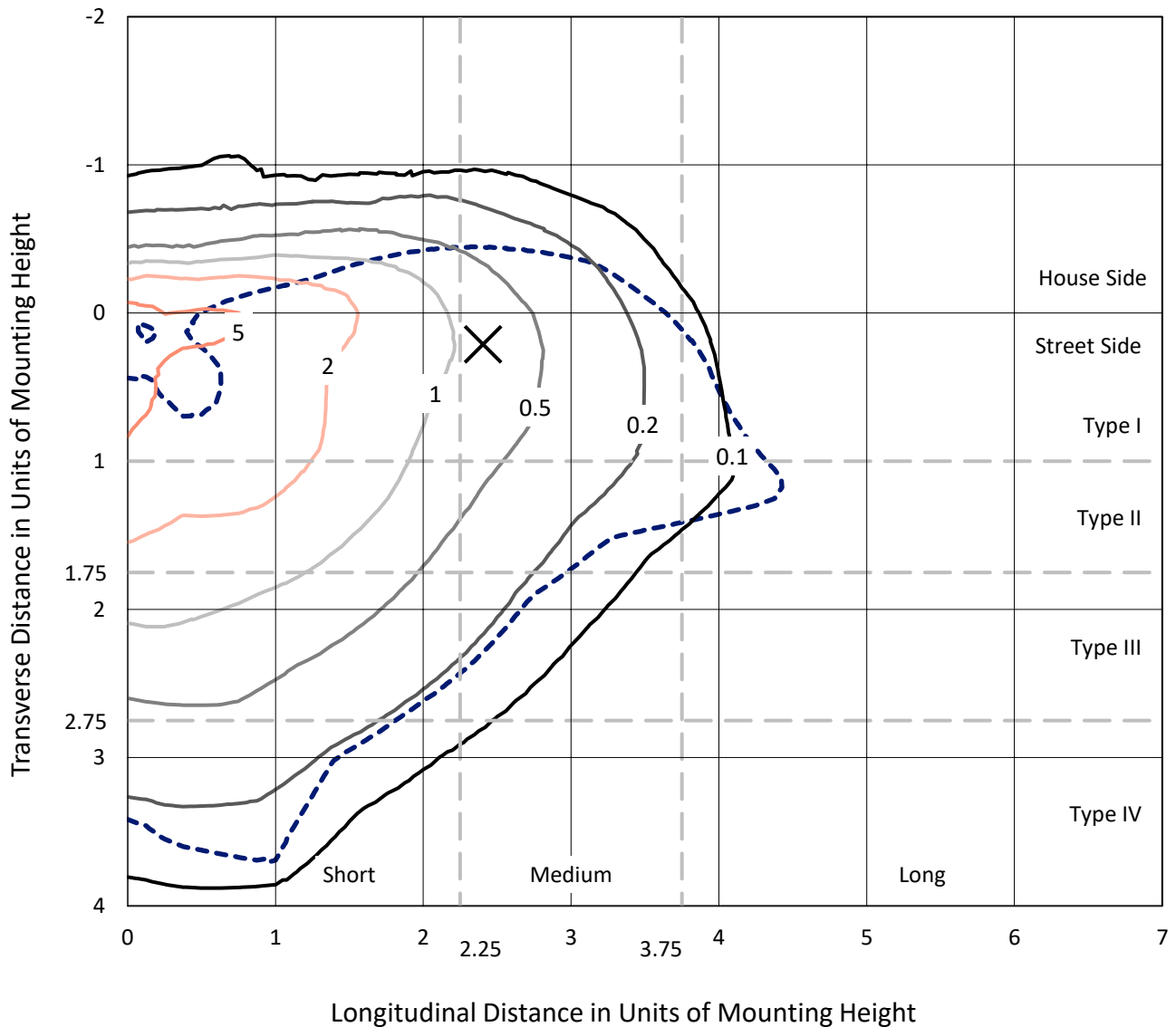
Lumens per Lamp: N/A  
Luminaire Lumens: 4007 lumens  
Efficiency: N/A  
Efficacy: 59.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 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: P677243  
 CATALOG NUMBER: CCW-SA-1F-722-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

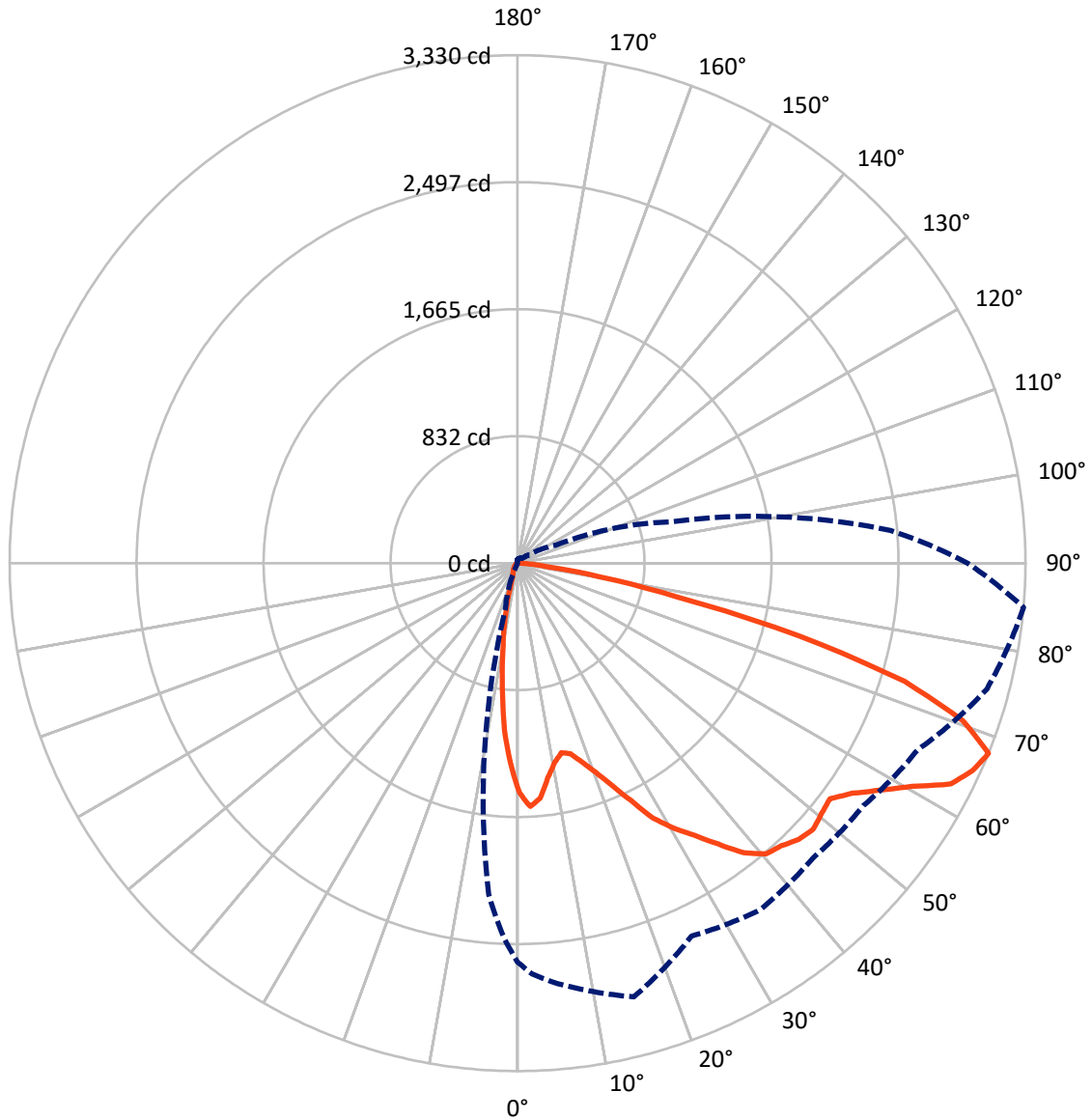
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Medium - N/A

REPORT NUMBER: P677243  
CATALOG NUMBER: CCW-SA-1F-722-U-SLL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P677243  
 CATALOG NUMBER: CCW-SA-1F-722-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	695.8	0.0	695.8
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	3311.3	0.0	3311.3
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	4007.0	0.0	4007.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.5	2.9
10°-20°	224.4	5.6
20°-30°	310.6	7.8
30°-40°	439.0	11.0
40°-50°	597.6	14.9
50°-60°	791.5	19.8
60°-70°	919.0	22.9
70°-80°	520.5	13.0
80°-90°	89.9	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°	4007.0	100.0
0°-180°	4007.0	100.0

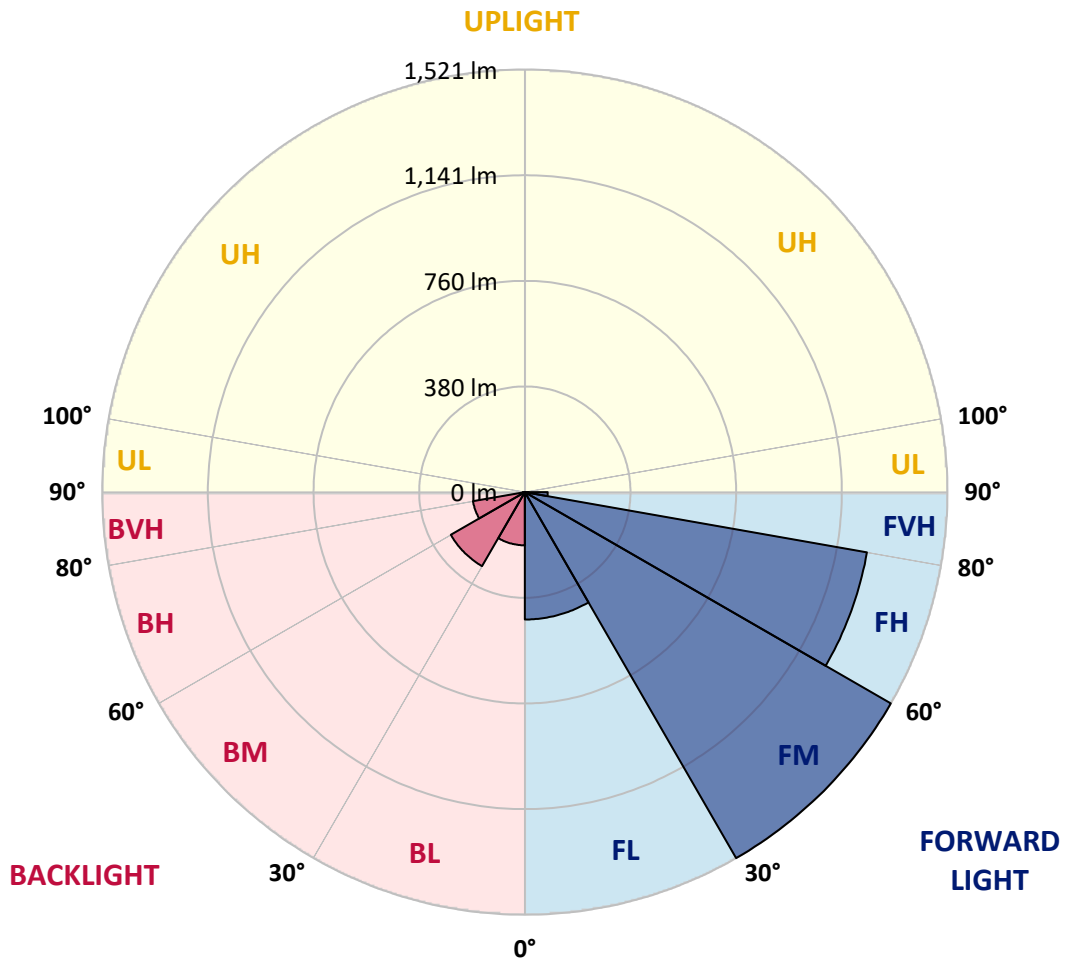


REPORT NUMBER: P677243  
 CATALOG NUMBER: CCW-SA-1F-722-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	458.2	11.4			
FM (30°-60°)	1520.7	38.0			
FH (60°-80°)	1250.0	31.2			G1/1800
FVH (80°-90°)	82.3	2.1			G1/100
BL (0°-30°)	191.3	4.8	B1/500		
BM (30°-60°)	307.4	7.7	B1/1000		
BH (60°-80°)	189.5	4.7	B1/500		G1/500
BVH (80°-90°)	7.6	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: P677243

CATALOG NUMBER: CCW-SA-1F-722-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6
2.5°	1565.5	1598.6	1599.7	1614.7	1629.7	1629.7	1665.0	1656.4	1625.4	1620.0	1597.6
5°	1577.2	1589.0	1597.6	1673.5	1737.7	1731.3	1750.6	1737.7	1677.8	1600.8	1548.3
7.5°	1475.6	1488.4	1522.7	1652.1	1738.8	1767.7	1804.1	1723.8	1660.7	1521.6	1421.0
10°	1340.7	1365.4	1428.5	1576.2	1683.2	1775.2	1775.2	1711.0	1589.0	1453.1	1330.0
12.5°	1265.8	1315.1	1349.3	1499.1	1638.2	1701.4	1699.2	1665.0	1585.8	1414.6	1275.5
15°	1278.7	1292.6	1365.4	1482.0	1574.0	1570.8	1609.3	1598.6	1543.0	1448.8	1295.8
17.5°	1337.5	1358.9	1422.1	1482.0	1525.9	1513.0	1512.0	1563.3	1566.5	1506.6	1371.8
20°	1433.8	1497.0	1526.9	1545.1	1491.6	1437.1	1430.6	1502.3	1558.0	1580.4	1462.7
22.5°	1587.9	1629.7	1690.7	1597.6	1458.5	1390.0	1377.1	1456.3	1568.7	1668.2	1580.4
25°	1738.8	1770.9	1829.8	1709.9	1495.9	1380.3	1357.9	1426.4	1609.3	1790.2	1722.8
27.5°	1898.2	1926.1	1932.5	1792.3	1516.2	1361.1	1334.3	1426.4	1643.6	1854.4	1892.9
30°	1995.6	2028.8	2035.2	1865.1	1549.4	1377.1	1364.3	1432.8	1667.1	1908.9	2014.9
32.5°	2104.8	2113.3	2108.0	1877.9	1585.8	1424.2	1370.7	1475.6	1693.9	1974.2	2126.2
35°	2235.3	2250.3	2195.7	1936.8	1667.1	1454.2	1434.9	1528.0	1739.9	2004.2	2261.0
37.5°	2334.8	2381.9	2258.8	1959.2	1683.2	1517.3	1520.5	1637.1	1772.0	2040.6	2409.7
40°	2522.1	2442.9	2365.8	2036.3	1744.2	1624.3	1607.2	1749.5	1880.0	2064.1	2507.1
42.5°	2624.8	2583.1	2407.6	2043.8	1838.3	1772.0	1776.3	1876.8	1936.8	2130.4	2533.8
45°	2650.5	2606.6	2464.3	2049.1	1931.4	1946.4	2020.2	2039.5	2020.2	2174.3	2584.1
47.5°	2715.7	2620.5	2457.9	2120.8	2082.3	2140.1	2234.2	2276.0	2133.6	2158.3	2607.7
50°	2702.9	2648.3	2444.0	2150.8	2266.3	2419.3	2482.5	2465.4	2259.9	2125.1	2582.0
52.5°	2649.4	2590.5	2486.8	2232.1	2438.6	2623.7	2711.5	2668.7	2372.3	2200.0	2564.9
55°	2727.5	2682.6	2542.4	2342.3	2568.1	2803.5	2865.5	2833.4	2510.3	2269.5	2662.2
57.5°	2812.0	2802.4	2693.3	2471.8	2721.1	2988.6	2988.6	2949.0	2630.1	2370.1	2806.7
60°	2934.0	2955.4	2804.6	2557.4	2773.5	2977.9	3133.1	3087.0	2751.1	2546.7	2970.4
62.5°	2894.4	2962.9	2947.9	2741.4	2833.4	3030.3	3114.9	3149.1	2900.9	2761.8	3188.7
65°	2767.1	2839.9	2946.9	2862.3	2788.5	2903.0	2945.8	3049.6	2975.8	2964.0	3278.6
67.5°	2615.2	2694.3	2760.7	2943.7	2697.6	2773.5	2736.1	2769.2	2894.4	3185.5	3329.9
70°	2283.4	2359.4	2464.3	2762.8	2456.8	2388.3	2378.7	2362.6	2557.4	3106.3	3096.7
72.5°	1877.9	1913.2	2086.6	2246.0	1818.0	1805.1	1820.1	1801.9	2027.7	2812.0	2652.6
75°	1406.0	1441.3	1539.8	1724.9	1238.0	1164.2	1249.8	1334.3	1548.3	2182.9	1905.7
77.5°	1057.2	1102.1	1164.2	1290.5	908.5	792.9	804.7	884.9	1119.3	1748.4	1067.9
80°	685.9	680.5	800.4	888.1	683.8	705.2	675.2	734.0	811.1	935.2	545.7
82.5°	395.9	401.3	451.6	509.3	476.2	544.6	392.7	655.9	578.9	380.9	203.3
85°	222.6	232.2	278.2	353.1	298.5	200.1	163.7	325.3	363.8	156.2	98.4
87.5°	22.5	19.3	37.5	133.8	81.3	33.2	49.2	78.1	87.7	58.9	28.9
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: P677243  
 CATALOG NUMBER: CCW-SA-1F-722-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6
2.5°	1565.5	1565.5	1538.7	1493.8	1475.6	1443.5	1399.6	1413.5	1398.5	1344.0	1330.0
5°	1501.3	1449.9	1394.3	1325.8	1286.2	1204.9	1179.2	1133.2	1140.7	1094.6	1096.8
7.5°	1367.5	1326.8	1232.7	1142.8	1064.7	994.1	894.5	857.1	820.7	802.5	823.9
10°	1289.4	1213.4	1085.0	967.3	863.5	800.4	734.0	682.7	635.6	600.3	592.8
12.5°	1232.7	1165.3	1010.1	866.7	785.4	734.0	673.1	602.4	556.4	495.4	477.2
15°	1215.6	1133.2	969.4	827.1	748.0	663.4	593.9	524.3	464.4	400.2	377.7
17.5°	1274.4	1179.2	968.4	795.0	683.8	592.8	496.5	418.4	357.4	298.5	284.6
20°	1373.9	1228.4	999.4	775.8	622.8	500.8	391.6	313.5	245.0	206.5	196.9
22.5°	1487.3	1311.9	1002.6	724.4	561.8	408.8	285.7	206.5	168.0	149.8	144.5
25°	1626.4	1445.6	1041.1	682.7	490.1	310.3	203.3	158.4	135.9	125.2	123.1
27.5°	1740.9	1538.7	1082.9	638.8	419.5	230.1	159.4	129.5	117.7	107.0	105.9
30°	1859.7	1645.7	1094.6	612.1	358.5	189.4	137.0	114.5	101.7	96.3	95.2
32.5°	1963.5	1762.3	1132.1	568.2	300.7	166.9	124.1	102.7	94.2	85.6	84.5
35°	2097.3	1829.8	1150.3	544.6	279.3	150.9	113.4	94.2	81.3	76.0	73.8
37.5°	2240.6	1895.0	1162.1	526.5	261.1	141.2	107.0	88.8	77.0	69.6	67.4
40°	2374.4	1987.0	1144.9	504.0	247.2	129.5	102.7	82.4	71.7	64.2	61.0
42.5°	2477.1	2076.9	1139.6	482.6	232.2	125.2	97.4	79.2	67.4	58.9	57.8
45°	2534.9	2137.9	1102.1	465.5	220.4	127.3	95.2	74.9	64.2	56.7	52.4
47.5°	2521.0	2185.0	1111.8	460.1	204.4	118.8	94.2	71.7	58.9	52.4	49.2
50°	2598.0	2280.2	1095.7	443.0	192.6	107.0	102.7	71.7	57.8	50.3	47.1
52.5°	2610.9	2366.9	1130.0	412.0	174.4	98.4	101.7	70.6	55.6	48.2	43.9
55°	2717.9	2467.5	1196.3	394.8	159.4	85.6	93.1	68.5	50.3	43.9	41.7
57.5°	2863.4	2676.1	1239.1	378.8	139.1	74.9	78.1	67.4	46.0	40.7	37.5
60°	3003.6	2759.6	1242.3	349.9	119.8	67.4	61.0	67.4	42.8	36.4	33.2
62.5°	3108.4	2759.6	1220.9	325.3	104.9	59.9	53.5	64.2	38.5	32.1	30.0
65°	3051.7	2685.8	1165.3	305.0	95.2	52.4	46.0	49.2	34.2	27.8	25.7
67.5°	2950.1	2455.7	1042.2	280.3	94.2	46.0	39.6	36.4	30.0	24.6	22.5
70°	2787.4	2145.4	867.8	252.5	92.0	41.7	35.3	31.0	26.8	21.4	19.3
72.5°	2246.0	1772.0	712.6	236.5	89.9	36.4	30.0	26.8	22.5	18.2	16.1
75°	1555.8	1132.1	548.9	202.2	87.7	33.2	27.8	23.5	19.3	15.0	13.9
77.5°	933.1	756.5	354.2	151.9	57.8	26.8	23.5	18.2	16.1	12.8	11.8
80°	436.6	357.4	143.4	58.9	27.8	19.3	16.1	13.9	12.8	10.7	9.6
82.5°	171.2	150.9	69.6	34.2	22.5	15.0	12.8	11.8	10.7	8.6	7.5
85°	92.0	81.3	33.2	23.5	16.1	10.7	10.7	9.6	8.6	7.5	6.4
87.5°	20.3	15.0	13.9	13.9	11.8	8.6	8.6	7.5	6.4	5.4	4.3
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: P677243  
 CATALOG NUMBER: CCW-SA-1F-722-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6
2.5°	1322.6	1338.6	1312.9	1329.0	1306.5	1323.6	1325.8	1309.7	1314.0	1335.4	1345.0
5°	1126.7	1116.0	1092.5	1085.0	1086.1	1072.2	1077.5	1085.0	1096.8	1103.2	1122.5
7.5°	812.2	836.8	835.7	853.9	855.0	852.8	837.8	805.7	816.4	807.9	818.6
10°	581.0	591.7	612.1	623.8	645.2	633.5	599.2	586.4	580.0	578.9	589.6
12.5°	464.4	438.7	436.6	440.9	451.6	437.6	420.5	405.5	413.0	428.0	439.8
15°	359.5	338.1	310.3	306.0	308.2	301.7	283.6	264.3	269.6	284.6	293.2
17.5°	276.1	251.5	232.2	219.4	215.1	192.6	165.9	149.8	145.5	144.5	151.9
20°	186.2	181.9	178.7	162.6	162.6	130.5	108.1	96.3	96.3	98.4	99.5
22.5°	139.1	133.8	134.8	131.6	123.1	97.4	85.6	82.4	82.4	84.5	84.5
25°	120.9	113.4	111.3	110.2	101.7	83.5	74.9	71.7	71.7	73.8	73.8
27.5°	102.7	100.6	97.4	93.1	85.6	71.7	66.3	63.1	64.2	65.3	64.2
30°	94.2	88.8	84.5	84.5	76.0	64.2	59.9	57.8	55.6	57.8	58.9
32.5°	83.5	80.3	78.1	74.9	65.3	56.7	52.4	50.3	49.2	49.2	50.3
35°	71.7	71.7	69.6	65.3	56.7	51.4	46.0	43.9	42.8	43.9	43.9
37.5°	64.2	61.0	62.1	57.8	50.3	44.9	39.6	37.5	37.5	36.4	37.5
40°	59.9	54.6	51.4	49.2	44.9	38.5	34.2	32.1	31.0	31.0	31.0
42.5°	53.5	49.2	42.8	41.7	40.7	33.2	27.8	26.8	25.7	24.6	24.6
45°	50.3	43.9	38.5	33.2	33.2	27.8	23.5	21.4	20.3	19.3	20.3
47.5°	46.0	39.6	33.2	27.8	26.8	22.5	18.2	16.1	15.0	15.0	15.0
50°	43.9	35.3	28.9	23.5	20.3	18.2	13.9	11.8	10.7	10.7	10.7
52.5°	40.7	33.2	25.7	20.3	16.1	13.9	10.7	8.6	7.5	7.5	7.5
55°	36.4	30.0	22.5	17.1	13.9	10.7	7.5	5.4	4.3	4.3	4.3
57.5°	34.2	26.8	19.3	15.0	10.7	7.5	4.3	3.2	3.2	2.1	3.2
60°	31.0	23.5	16.1	11.8	8.6	5.4	3.2	1.1	1.1	1.1	1.1
62.5°	26.8	20.3	13.9	9.6	6.4	3.2	1.1	0.0	0.0	0.0	0.0
65°	22.5	16.1	10.7	7.5	4.3	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	19.3	13.9	8.6	5.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.1	11.8	6.4	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13.9	9.6	5.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.8	7.5	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.6	5.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.5	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.1	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: P677243  
 CATALOG NUMBER: CCW-SA-1F-722-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6
2.5°	1358.9	1352.5	1384.6	1437.1	1463.8	1516.2	1529.1	1562.2	1553.7	1565.5
5°	1124.6	1137.4	1184.5	1261.6	1289.4	1365.4	1437.1	1508.7	1554.8	1577.2
7.5°	834.6	877.4	935.2	1005.8	1077.5	1177.0	1299.0	1382.5	1427.4	1475.6
10°	621.7	667.7	734.0	803.6	920.2	1031.5	1153.5	1257.3	1295.8	1340.7
12.5°	489.0	560.7	637.7	712.6	782.2	888.1	1039.0	1189.9	1231.6	1265.8
15°	340.3	428.0	538.2	635.6	733.0	825.0	981.2	1164.2	1220.9	1278.7
17.5°	188.3	257.9	384.1	521.1	664.5	805.7	1000.5	1211.3	1296.9	1337.5
20°	109.1	137.0	226.8	389.5	578.9	764.0	1010.1	1300.1	1413.5	1433.8
22.5°	89.9	99.5	128.4	244.0	474.0	737.3	1059.3	1424.2	1539.8	1587.9
25°	77.0	84.5	99.5	146.6	358.5	680.5	1090.4	1579.4	1686.4	1738.8
27.5°	68.5	76.0	87.7	108.1	244.0	602.4	1141.7	1719.5	1826.5	1898.2
30°	59.9	66.3	78.1	92.0	169.1	514.7	1185.6	1822.3	1973.1	1995.6
32.5°	53.5	58.9	67.4	79.2	125.2	390.6	1220.9	1928.2	2055.5	2104.8
35°	46.0	52.4	57.8	67.4	95.2	294.3	1199.5	2010.6	2176.4	2235.3
37.5°	40.7	44.9	50.3	56.7	80.3	230.1	1155.6	2109.0	2280.2	2334.8
40°	34.2	37.5	43.9	50.3	72.8	177.6	1105.3	2227.8	2425.8	2522.1
42.5°	28.9	32.1	36.4	47.1	59.9	131.6	1003.7	2319.8	2543.5	2624.8
45°	22.5	26.8	33.2	47.1	48.2	97.4	898.8	2388.3	2609.8	2650.5
47.5°	17.1	21.4	32.1	40.7	38.5	67.4	774.7	2466.4	2678.3	2715.7
50°	12.8	17.1	36.4	35.3	32.1	51.4	696.6	2521.0	2682.6	2702.9
52.5°	8.6	12.8	30.0	26.8	26.8	44.9	675.2	2518.9	2693.3	2649.4
55°	6.4	9.6	17.1	19.3	23.5	39.6	655.9	2599.1	2696.5	2727.5
57.5°	4.3	7.5	11.8	15.0	20.3	34.2	616.3	2695.4	2796.0	2812.0
60°	2.1	5.4	8.6	11.8	17.1	30.0	560.7	2766.0	2916.9	2934.0
62.5°	1.1	3.2	6.4	9.6	13.9	23.5	502.9	2653.7	2864.5	2894.4
65°	0.0	2.1	4.3	6.4	8.6	17.1	408.8	2395.8	2656.9	2767.1
67.5°	0.0	0.0	2.1	4.3	5.4	12.8	308.2	2179.7	2465.4	2615.2
70°	0.0	0.0	1.1	1.1	3.2	9.6	196.9	1805.1	2201.1	2283.4
72.5°	0.0	0.0	0.0	0.0	1.1	6.4	114.5	1340.7	1724.9	1877.9
75°	0.0	0.0	0.0	0.0	0.0	5.4	57.8	862.4	1200.6	1406.0
77.5°	0.0	0.0	0.0	0.0	0.0	4.3	31.0	556.4	884.9	1057.2
80°	0.0	0.0	0.0	0.0	0.0	1.1	18.2	323.1	566.0	685.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.5	158.4	338.1	395.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	84.5	169.1	222.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	11.8	22.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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