

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: P677288

Luminaire Tested: **CCW-SA-2A-740-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677288  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-740-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SLL distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

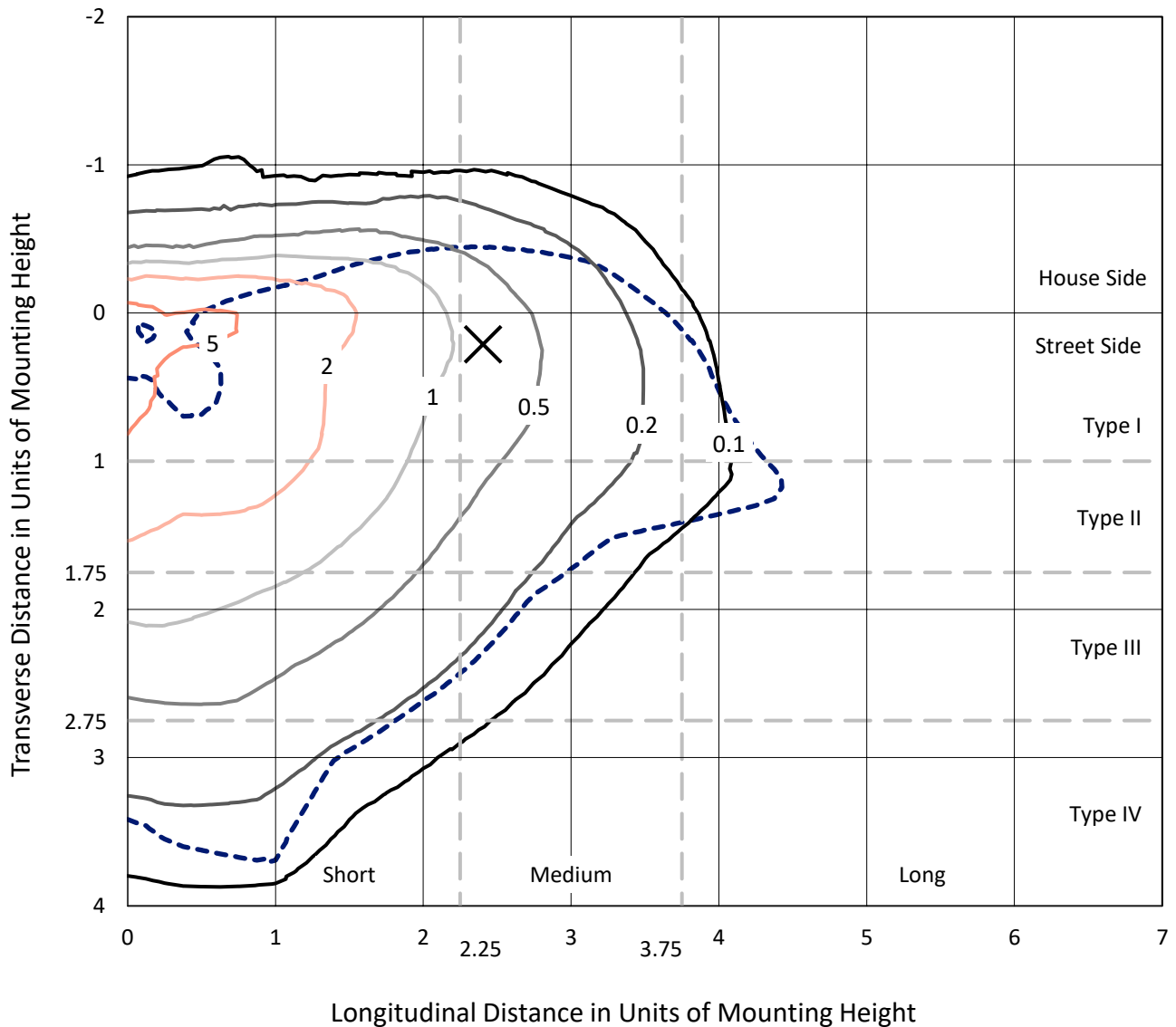
Lumens per Lamp: N/A  
Luminaire Lumens: 3969.9 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2  
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: P677288  
 CATALOG NUMBER: CCW-SA-2A-740-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

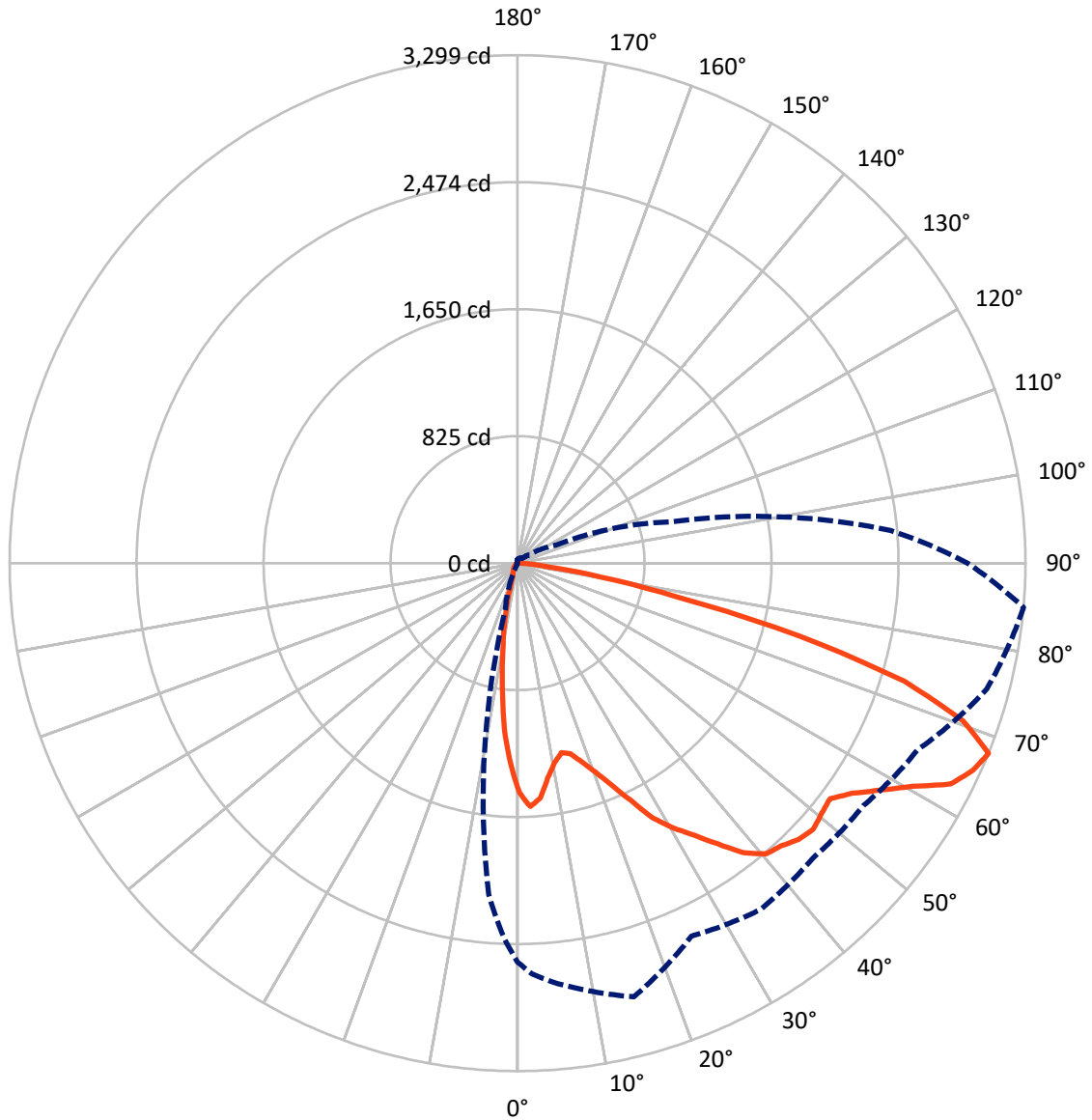
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P677288  
CATALOG NUMBER: CCW-SA-2A-740-U-SLL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P677288  
 CATALOG NUMBER: CCW-SA-2A-740-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	689.3	0.0	689.3
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	3280.6	0.0	3280.6
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	3969.9	0.0	3969.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.4	2.9
10°-20°	222.4	5.6
20°-30°	307.7	7.8
30°-40°	434.9	11.0
40°-50°	592.1	14.9
50°-60°	784.2	19.8
60°-70°	910.5	22.9
70°-80°	515.6	13.0
80°-90°	89.1	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°	3969.9	100.0
0°-180°	3969.9	100.0



REPORT NUMBER: P677288

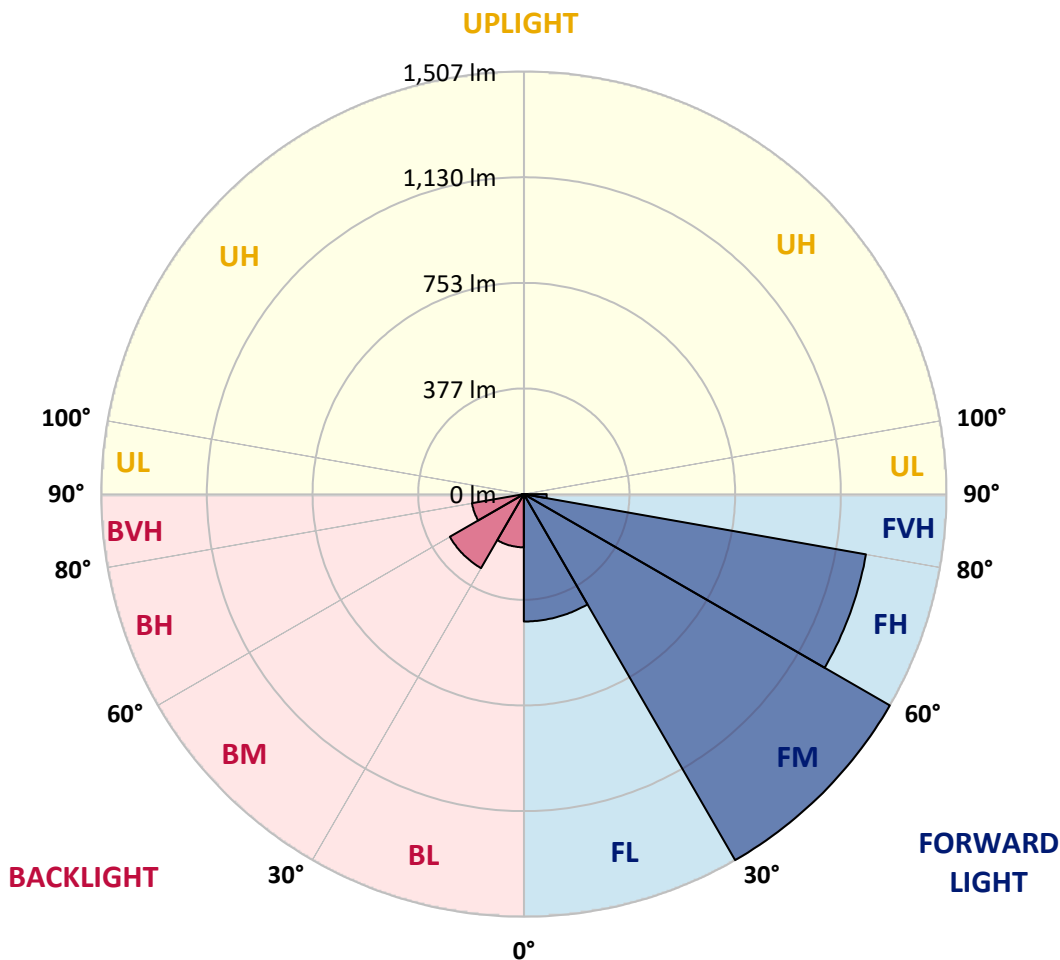
CATALOG NUMBER: CCW-SA-2A-740-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	454.0	11.4			
FM (30°-60°)	1506.6	38.0			
FH (60°-80°)	1238.4	31.2			G1/1800
FVH (80°-90°)	81.6	2.1			G1/100
BL (0°-30°)	189.5	4.8	B1/500		
BM (30°-60°)	304.6	7.7	B1/1000		
BH (60°-80°)	187.7	4.7	B1/500		G1/500
BVH (80°-90°)	7.5	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: P677288

CATALOG NUMBER: CCW-SA-2A-740-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6
2.5°	1551.0	1583.8	1584.9	1599.7	1614.6	1614.6	1649.5	1641.1	1610.3	1605.0	1582.8
5°	1562.6	1574.3	1582.8	1658.0	1721.6	1715.3	1734.4	1721.6	1662.3	1585.9	1534.0
7.5°	1461.9	1474.6	1508.6	1636.8	1722.7	1751.3	1787.4	1707.9	1645.3	1507.5	1407.8
10°	1328.3	1352.7	1415.3	1561.6	1667.6	1758.7	1758.7	1695.1	1574.3	1439.6	1317.7
12.5°	1254.1	1302.9	1336.8	1485.2	1623.0	1685.6	1683.5	1649.5	1571.1	1401.5	1263.7
15°	1266.8	1280.6	1352.7	1468.3	1559.4	1556.3	1594.4	1583.8	1528.7	1435.4	1283.8
17.5°	1325.1	1346.4	1408.9	1468.3	1511.7	1499.0	1497.9	1548.8	1552.0	1492.6	1359.1
20°	1420.6	1483.1	1512.8	1530.8	1477.8	1423.7	1417.4	1488.4	1543.5	1565.8	1449.2
22.5°	1573.2	1614.6	1675.0	1582.8	1444.9	1377.1	1364.4	1442.8	1554.1	1652.7	1565.8
25°	1722.7	1754.5	1812.8	1694.1	1482.0	1367.6	1345.3	1413.1	1594.4	1773.6	1706.8
27.5°	1880.7	1908.2	1914.6	1775.7	1502.2	1348.5	1322.0	1413.1	1628.3	1837.2	1875.4
30°	1977.1	2010.0	2016.3	1847.8	1535.1	1364.4	1351.7	1419.5	1651.7	1891.3	1996.2
32.5°	2085.3	2093.7	2088.4	1860.5	1571.1	1411.0	1358.0	1461.9	1678.2	1955.9	2106.5
35°	2214.6	2229.4	2175.4	1918.8	1651.7	1440.7	1421.6	1513.9	1723.8	1985.6	2240.0
37.5°	2313.2	2359.8	2237.9	1941.1	1667.6	1503.3	1506.4	1622.0	1755.6	2021.6	2387.4
40°	2498.7	2420.3	2343.9	2017.4	1728.0	1609.3	1592.3	1733.3	1862.6	2045.0	2483.9
42.5°	2600.5	2559.1	2385.3	2024.8	1821.3	1755.6	1759.8	1859.5	1918.8	2110.7	2510.4
45°	2625.9	2582.5	2441.5	2030.1	1913.5	1928.4	2001.5	2020.6	2001.5	2154.2	2560.2
47.5°	2690.6	2596.2	2435.1	2101.2	2063.0	2120.2	2213.5	2254.9	2113.9	2138.3	2583.5
50°	2677.9	2623.8	2421.3	2130.8	2245.3	2396.9	2459.5	2442.5	2239.0	2105.4	2558.1
52.5°	2624.9	2566.6	2463.7	2211.4	2416.0	2599.4	2686.3	2643.9	2350.3	2179.6	2541.1
55°	2702.2	2657.7	2518.8	2320.6	2544.3	2777.5	2839.0	2807.2	2487.0	2248.5	2637.6
57.5°	2786.0	2776.5	2668.3	2448.9	2695.9	2960.9	2960.9	2921.7	2605.8	2348.2	2780.7
60°	2906.8	2928.1	2778.6	2533.7	2747.8	2950.3	3104.0	3058.4	2725.6	2523.1	2942.9
62.5°	2867.6	2935.5	2920.6	2716.0	2807.2	3002.3	3086.0	3119.9	2874.0	2736.2	3159.2
65°	2741.5	2813.6	2919.6	2835.8	2762.7	2876.1	2918.5	3021.3	2948.2	2936.5	3248.2
67.5°	2590.9	2669.4	2735.1	2916.4	2672.6	2747.8	2710.7	2743.6	2867.6	3156.0	3299.1
70°	2262.3	2337.6	2441.5	2737.2	2434.0	2366.2	2356.6	2340.7	2533.7	3077.5	3068.0
72.5°	1860.5	1895.5	2067.2	2225.2	1801.1	1788.4	1803.3	1785.2	2008.9	2786.0	2628.0
75°	1393.0	1428.0	1525.5	1708.9	1226.6	1153.4	1238.2	1322.0	1534.0	2162.6	1888.1
77.5°	1047.4	1091.9	1153.4	1278.5	900.0	785.5	797.2	876.7	1108.9	1732.2	1058.0
80°	679.5	674.2	793.0	879.9	677.4	698.6	668.9	727.2	803.6	926.5	540.7
82.5°	392.2	397.5	447.4	504.6	471.8	539.6	389.1	649.9	573.5	377.4	201.4
85°	220.5	230.0	275.6	349.8	295.8	198.2	162.2	322.3	360.4	154.8	97.5
87.5°	22.3	19.1	37.1	132.5	80.6	32.9	48.8	77.4	86.9	58.3	28.6
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: P677288

CATALOG NUMBER: CCW-SA-2A-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6
2.5°	1551.0	1551.0	1524.5	1479.9	1461.9	1430.1	1386.6	1400.4	1385.6	1331.5	1317.7
5°	1487.3	1436.5	1381.3	1313.5	1274.3	1193.7	1168.3	1122.7	1130.1	1084.5	1086.6
7.5°	1354.8	1314.5	1221.3	1132.2	1054.8	984.9	886.3	849.2	813.1	795.1	816.3
10°	1277.4	1202.2	1075.0	958.3	855.5	793.0	727.2	676.4	629.7	594.7	587.3
12.5°	1221.3	1154.5	1000.8	858.7	778.1	727.2	666.8	596.8	551.3	490.8	472.8
15°	1204.3	1122.7	960.5	819.5	741.0	657.3	588.4	519.5	460.1	396.5	374.2
17.5°	1262.6	1168.3	959.4	787.7	677.4	587.3	491.9	414.5	354.1	295.8	282.0
20°	1361.2	1217.0	990.2	768.6	617.0	496.1	388.0	310.6	242.8	204.6	195.1
22.5°	1473.6	1299.7	993.3	717.7	556.6	405.0	283.1	204.6	166.4	148.4	143.1
25°	1611.4	1432.2	1031.5	676.4	485.5	307.4	201.4	156.9	134.6	124.0	121.9
27.5°	1724.8	1524.5	1072.8	632.9	415.6	227.9	158.0	128.3	116.6	106.0	105.0
30°	1842.5	1630.5	1084.5	606.4	355.1	187.6	135.7	113.4	100.7	95.4	94.4
32.5°	1945.3	1746.0	1121.6	562.9	297.9	165.4	123.0	101.8	93.3	84.8	83.7
35°	2077.8	1812.8	1139.6	539.6	276.7	149.5	112.4	93.3	80.6	75.3	73.1
37.5°	2219.9	1877.5	1151.3	521.6	258.7	139.9	106.0	88.0	76.3	68.9	66.8
40°	2352.4	1968.6	1134.3	499.3	244.9	128.3	101.8	81.6	71.0	63.6	60.4
42.5°	2454.2	2057.7	1129.0	478.1	230.0	124.0	96.5	78.4	66.8	58.3	57.2
45°	2511.4	2118.1	1091.9	461.2	218.4	126.2	94.4	74.2	63.6	56.2	51.9
47.5°	2497.6	2164.8	1101.5	455.9	202.5	117.7	93.3	71.0	58.3	51.9	48.8
50°	2574.0	2259.1	1085.6	438.9	190.8	106.0	101.8	71.0	57.2	49.8	46.6
52.5°	2586.7	2345.0	1119.5	408.1	172.8	97.5	100.7	70.0	55.1	47.7	43.5
55°	2692.7	2444.6	1185.2	391.2	158.0	84.8	92.2	67.8	49.8	43.5	41.3
57.5°	2836.9	2651.4	1227.6	375.3	137.8	74.2	77.4	66.8	45.6	40.3	37.1
60°	2975.8	2734.0	1230.8	346.7	118.7	66.8	60.4	66.8	42.4	36.0	32.9
62.5°	3079.6	2734.0	1209.6	322.3	103.9	59.4	53.0	63.6	38.2	31.8	29.7
65°	3023.5	2660.9	1154.5	302.1	94.4	51.9	45.6	48.8	33.9	27.6	25.4
67.5°	2922.8	2433.0	1032.6	277.8	93.3	45.6	39.2	36.0	29.7	24.4	22.3
70°	2761.6	2125.5	859.8	250.2	91.2	41.3	35.0	30.7	26.5	21.2	19.1
72.5°	2225.2	1755.6	706.0	234.3	89.1	36.0	29.7	26.5	22.3	18.0	15.9
75°	1541.4	1121.6	543.8	200.4	86.9	32.9	27.6	23.3	19.1	14.8	13.8
77.5°	924.4	749.5	350.9	150.5	57.2	26.5	23.3	18.0	15.9	12.7	11.7
80°	432.5	354.1	142.1	58.3	27.6	19.1	15.9	13.8	12.7	10.6	9.5
82.5°	169.6	149.5	68.9	33.9	22.3	14.8	12.7	11.7	10.6	8.5	7.4
85°	91.2	80.6	32.9	23.3	15.9	10.6	10.6	9.5	8.5	7.4	6.4
87.5°	20.1	14.8	13.8	13.8	11.7	8.5	8.5	7.4	6.4	5.3	4.2
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: P677288  
 CATALOG NUMBER: CCW-SA-2A-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6
2.5°	1310.3	1326.2	1300.8	1316.7	1294.4	1311.4	1313.5	1297.6	1301.8	1323.0	1332.6
5°	1116.3	1105.7	1082.4	1075.0	1076.0	1062.2	1067.5	1075.0	1086.6	1093.0	1112.1
7.5°	804.6	829.0	828.0	846.0	847.0	844.9	830.1	798.3	808.9	800.4	811.0
10°	575.6	586.2	606.4	618.0	639.3	627.6	593.7	580.9	574.6	573.5	584.1
12.5°	460.1	434.6	432.5	436.8	447.4	433.6	416.6	401.8	409.2	424.0	435.7
15°	356.2	335.0	307.4	303.2	305.3	299.0	280.9	261.8	267.2	282.0	290.5
17.5°	273.5	249.1	230.0	217.3	213.1	190.8	164.3	148.4	144.2	143.1	150.5
20°	184.5	180.2	177.0	161.1	161.1	129.3	107.1	95.4	95.4	97.5	98.6
22.5°	137.8	132.5	133.6	130.4	121.9	96.5	84.8	81.6	81.6	83.7	83.7
25°	119.8	112.4	110.3	109.2	100.7	82.7	74.2	71.0	71.0	73.1	73.1
27.5°	101.8	99.7	96.5	92.2	84.8	71.0	65.7	62.5	63.6	64.7	63.6
30°	93.3	88.0	83.7	83.7	75.3	63.6	59.4	57.2	55.1	57.2	58.3
32.5°	82.7	79.5	77.4	74.2	64.7	56.2	51.9	49.8	48.8	48.8	49.8
35°	71.0	71.0	68.9	64.7	56.2	50.9	45.6	43.5	42.4	43.5	43.5
37.5°	63.6	60.4	61.5	57.2	49.8	44.5	39.2	37.1	37.1	36.0	37.1
40°	59.4	54.1	50.9	48.8	44.5	38.2	33.9	31.8	30.7	30.7	30.7
42.5°	53.0	48.8	42.4	41.3	40.3	32.9	27.6	26.5	25.4	24.4	24.4
45°	49.8	43.5	38.2	32.9	32.9	27.6	23.3	21.2	20.1	19.1	20.1
47.5°	45.6	39.2	32.9	27.6	26.5	22.3	18.0	15.9	14.8	14.8	14.8
50°	43.5	35.0	28.6	23.3	20.1	18.0	13.8	11.7	10.6	10.6	10.6
52.5°	40.3	32.9	25.4	20.1	15.9	13.8	10.6	8.5	7.4	7.4	7.4
55°	36.0	29.7	22.3	17.0	13.8	10.6	7.4	5.3	4.2	4.2	4.2
57.5°	33.9	26.5	19.1	14.8	10.6	7.4	4.2	3.2	3.2	2.1	3.2
60°	30.7	23.3	15.9	11.7	8.5	5.3	3.2	1.1	1.1	1.1	1.1
62.5°	26.5	20.1	13.8	9.5	6.4	3.2	1.1	0.0	0.0	0.0	0.0
65°	22.3	15.9	10.6	7.4	4.2	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	19.1	13.8	8.5	5.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.0	11.7	6.4	4.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13.8	9.5	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.7	7.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.5	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.4	4.2	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°	4.2	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: P677288  
 CATALOG NUMBER: CCW-SA-2A-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6
2.5°	1346.4	1340.0	1371.8	1423.7	1450.2	1502.2	1514.9	1547.8	1539.3	1551.0
5°	1114.2	1126.9	1173.6	1249.9	1277.4	1352.7	1423.7	1494.8	1540.4	1562.6
7.5°	826.9	869.3	926.5	996.5	1067.5	1166.1	1287.0	1369.7	1414.2	1461.9
10°	615.9	661.5	727.2	796.2	911.7	1022.0	1142.8	1245.6	1283.8	1328.3
12.5°	484.5	555.5	631.8	706.0	774.9	879.9	1029.4	1178.9	1220.2	1254.1
15°	337.1	424.0	533.2	629.7	726.2	817.4	972.1	1153.4	1209.6	1266.8
17.5°	186.6	255.5	380.6	516.3	658.3	798.3	991.2	1200.1	1284.9	1325.1
20°	108.1	135.7	224.7	385.9	573.5	756.9	1000.8	1288.0	1400.4	1420.6
22.5°	89.1	98.6	127.2	241.7	469.6	730.4	1049.5	1411.0	1525.5	1573.2
25°	76.3	83.7	98.6	145.2	355.1	674.2	1080.3	1564.7	1670.7	1722.7
27.5°	67.8	75.3	86.9	107.1	241.7	596.8	1131.1	1703.6	1809.6	1880.7
30°	59.4	65.7	77.4	91.2	167.5	509.9	1174.6	1805.4	1954.9	1977.1
32.5°	53.0	58.3	66.8	78.4	124.0	386.9	1209.6	1910.3	2036.5	2085.3
35°	45.6	51.9	57.2	66.8	94.4	291.5	1188.4	1992.0	2156.3	2214.6
37.5°	40.3	44.5	49.8	56.2	79.5	227.9	1144.9	2089.5	2259.1	2313.2
40°	33.9	37.1	43.5	49.8	72.1	176.0	1095.1	2207.2	2403.3	2498.7
42.5°	28.6	31.8	36.0	46.6	59.4	130.4	994.4	2298.3	2519.9	2600.5
45°	22.3	26.5	32.9	46.6	47.7	96.5	890.5	2366.2	2585.6	2625.9
47.5°	17.0	21.2	31.8	40.3	38.2	66.8	767.5	2443.6	2653.5	2690.6
50°	12.7	17.0	36.0	35.0	31.8	50.9	690.1	2497.6	2657.7	2677.9
52.5°	8.5	12.7	29.7	26.5	26.5	44.5	668.9	2495.5	2668.3	2624.9
55°	6.4	9.5	17.0	19.1	23.3	39.2	649.9	2575.0	2671.5	2702.2
57.5°	4.2	7.4	11.7	14.8	20.1	33.9	610.6	2670.4	2770.1	2786.0
60°	2.1	5.3	8.5	11.7	17.0	29.7	555.5	2740.4	2889.9	2906.8
62.5°	1.1	3.2	6.4	9.5	13.8	23.3	498.3	2629.1	2837.9	2867.6
65°	0.0	2.1	4.2	6.4	8.5	17.0	405.0	2373.6	2632.3	2741.5
67.5°	0.0	0.0	2.1	4.2	5.3	12.7	305.3	2159.5	2442.5	2590.9
70°	0.0	0.0	1.1	1.1	3.2	9.5	195.1	1788.4	2180.7	2262.3
72.5°	0.0	0.0	0.0	0.0	1.1	6.4	113.4	1328.3	1708.9	1860.5
75°	0.0	0.0	0.0	0.0	0.0	5.3	57.2	854.5	1189.5	1393.0
77.5°	0.0	0.0	0.0	0.0	0.0	4.2	30.7	551.3	876.7	1047.4
80°	0.0	0.0	0.0	0.0	0.0	1.1	18.0	320.2	560.8	679.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.4	156.9	335.0	392.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	83.7	167.5	220.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	11.7	22.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)