

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: P677285

Luminaire Tested: **CCW-SA-1D-740-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677285  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-740-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

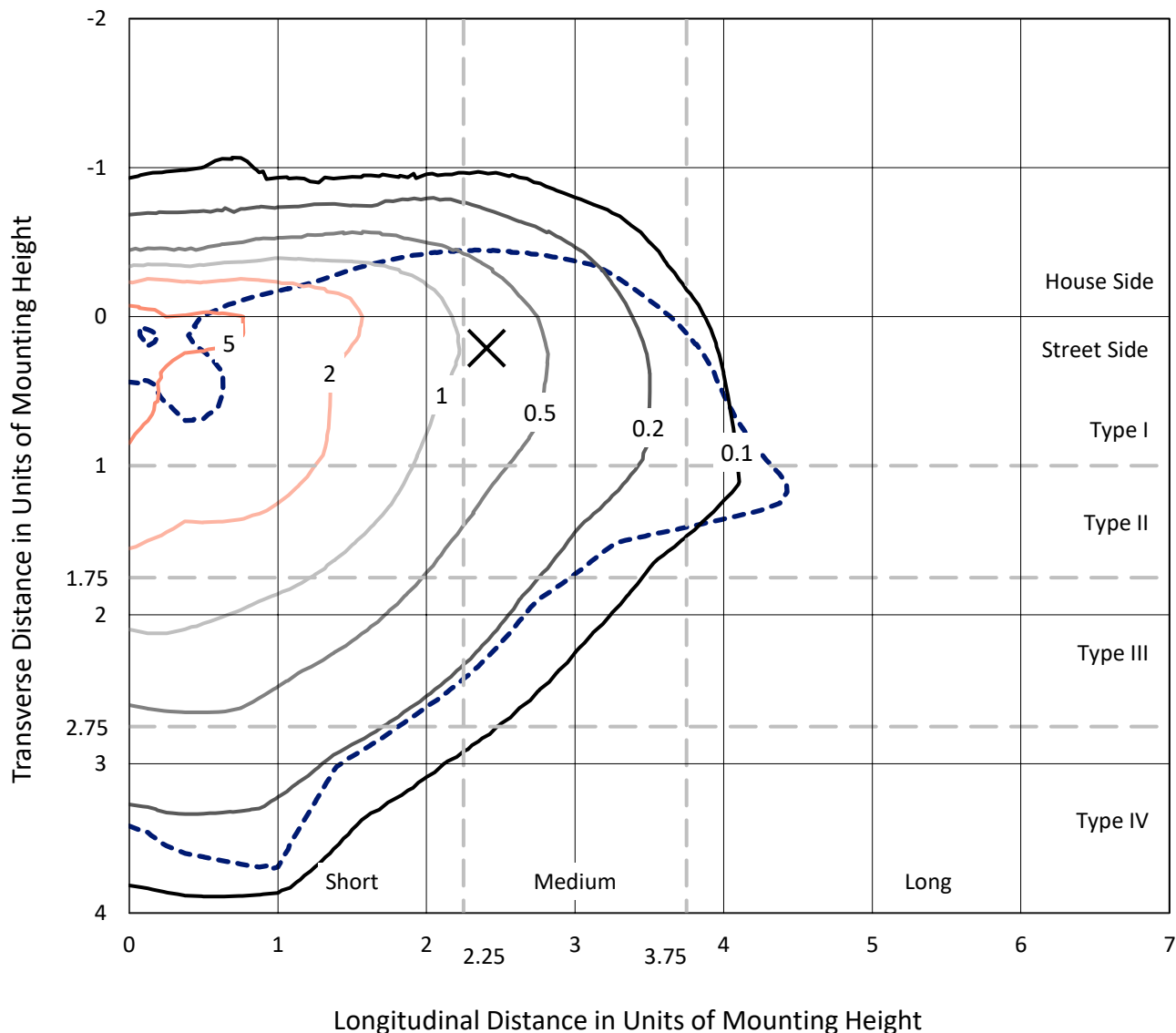
Lumens per Lamp: N/A  
Luminaire Lumens: 4046.2 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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: P677285  
 CATALOG NUMBER: CCW-SA-1D-740-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

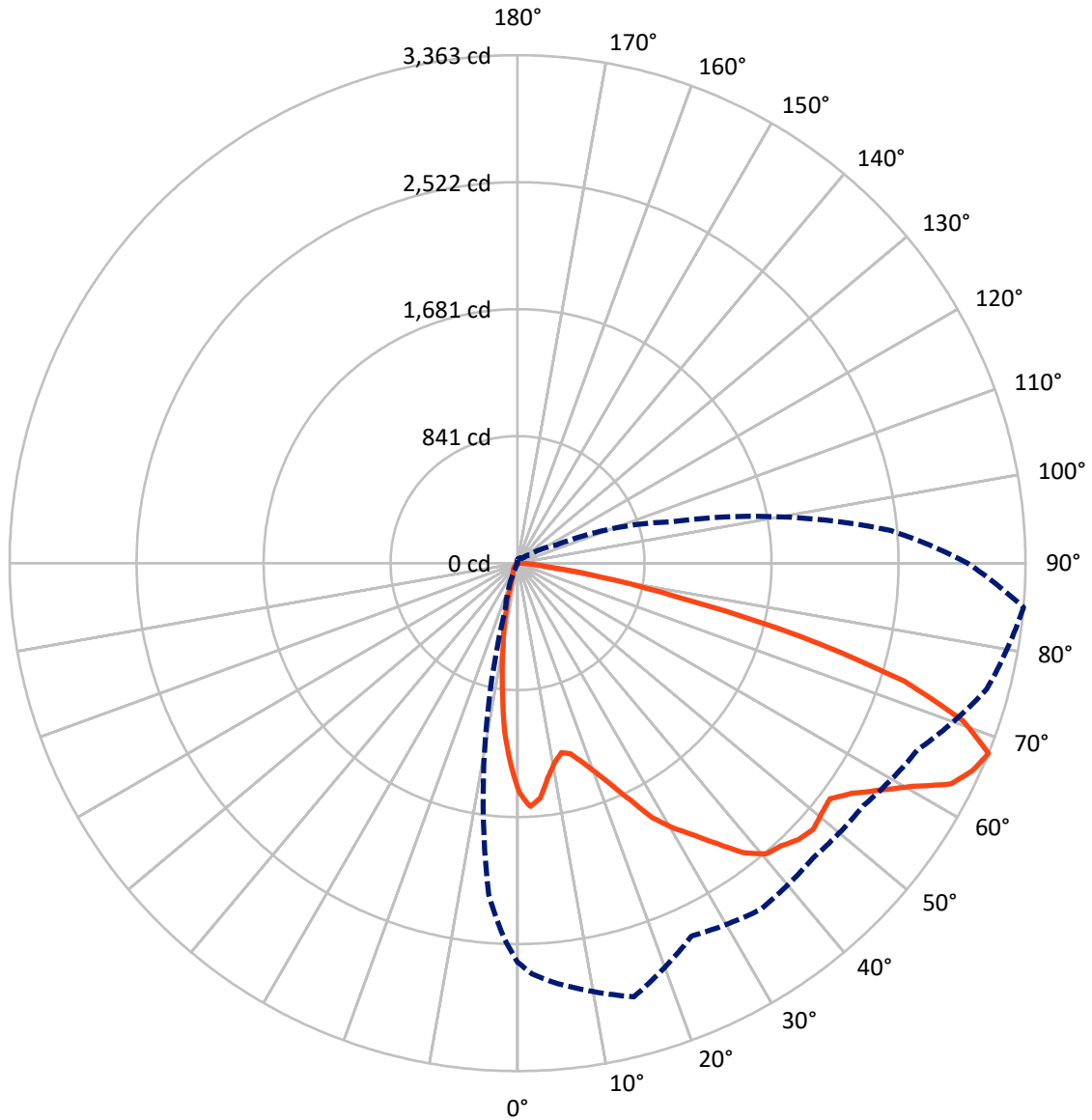
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P677285  
CATALOG NUMBER: CCW-SA-1D-740-U-SLL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P677285  
 CATALOG NUMBER: CCW-SA-1D-740-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	702.6	0.0	702.6
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	3343.7	0.0	3343.7
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	4046.2	0.0	4046.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.6	2.9
10°-20°	226.6	5.6
20°-30°	313.6	7.8
30°-40°	443.2	11.0
40°-50°	603.5	14.9
50°-60°	799.3	19.8
60°-70°	928.0	22.9
70°-80°	525.5	13.0
80°-90°	90.8	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°	4046.2	100.0
0°-180°	4046.2	100.0



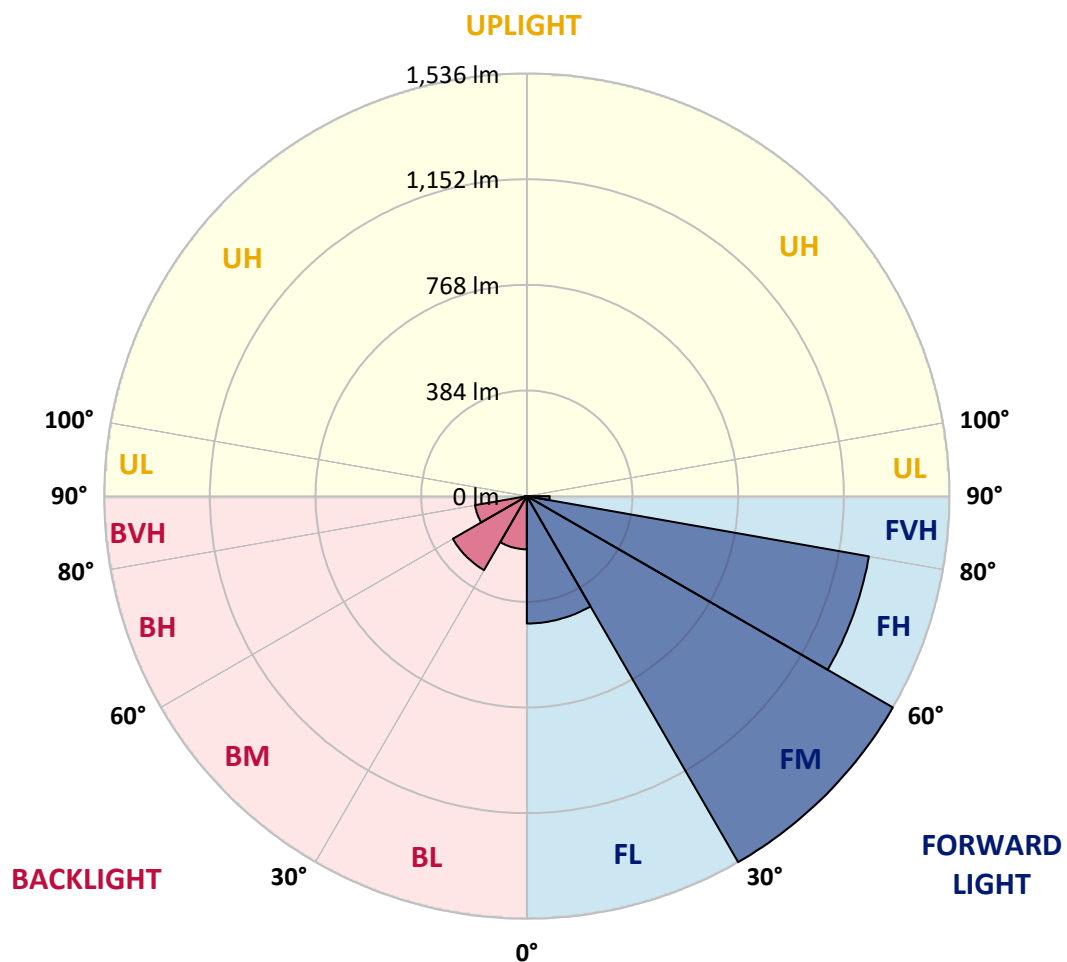
REPORT NUMBER: P677285  
 CATALOG NUMBER: CCW-SA-1D-740-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	462.7	11.4			
FM (30°-60°)	1535.6	38.0			
FH (60°-80°)	1262.2	31.2			G1/1800
FVH (80°-90°)	83.2	2.1			G1/100
BL (0°-30°)	193.1	4.8	B1/500		
BM (30°-60°)	310.4	7.7	B1/1000		
BH (60°-80°)	191.3	4.7	B1/500		G1/500
BVH (80°-90°)	7.7	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: P677285

CATALOG NUMBER: CCW-SA-1D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4
2.5°	1580.8	1614.3	1615.4	1630.5	1645.6	1645.6	1681.3	1672.6	1641.3	1635.9	1613.2
5°	1592.7	1604.6	1613.2	1689.9	1754.8	1748.3	1767.7	1754.8	1694.2	1616.4	1563.5
7.5°	1490.0	1503.0	1537.6	1668.3	1755.8	1785.0	1821.7	1740.7	1677.0	1536.5	1434.9
10°	1353.9	1378.7	1442.5	1591.6	1699.6	1792.6	1792.6	1727.7	1604.6	1467.3	1343.1
12.5°	1278.2	1328.0	1362.5	1513.8	1654.3	1718.0	1715.9	1681.3	1601.3	1428.4	1288.0
15°	1291.2	1305.3	1378.7	1496.5	1589.4	1586.2	1625.1	1614.3	1558.1	1463.0	1308.5
17.5°	1350.6	1372.3	1436.0	1496.5	1540.8	1527.8	1526.8	1578.6	1581.9	1521.4	1385.2
20°	1447.9	1511.6	1541.9	1560.3	1506.2	1451.1	1444.6	1517.0	1573.2	1595.9	1477.1
22.5°	1603.5	1645.6	1707.2	1613.2	1472.7	1403.6	1390.6	1470.6	1584.0	1684.5	1595.9
25°	1755.8	1788.3	1847.7	1726.7	1510.6	1393.9	1371.2	1440.3	1625.1	1807.7	1739.6
27.5°	1916.8	1944.9	1951.4	1809.9	1531.1	1374.4	1347.4	1440.3	1659.7	1872.5	1911.4
30°	2015.2	2048.7	2055.1	1883.3	1564.6	1390.6	1377.7	1446.8	1683.4	1927.6	2034.6
32.5°	2125.4	2134.0	2128.6	1896.3	1601.3	1438.2	1384.1	1490.0	1710.5	1993.5	2147.0
35°	2257.2	2272.3	2217.2	1955.7	1683.4	1468.4	1449.0	1543.0	1756.9	2023.8	2283.1
37.5°	2357.7	2405.2	2281.0	1978.4	1699.6	1532.2	1535.4	1653.2	1789.3	2060.5	2433.3
40°	2546.8	2466.8	2389.0	2056.2	1761.2	1640.2	1622.9	1766.6	1898.5	2084.3	2531.6
42.5°	2650.5	2608.4	2431.2	2063.8	1856.3	1789.3	1793.7	1895.2	1955.7	2151.3	2558.7
45°	2676.4	2632.1	2488.4	2069.2	1950.3	1965.5	2040.0	2059.5	2040.0	2195.6	2609.4
47.5°	2742.3	2646.2	2481.9	2141.6	2102.7	2161.0	2256.1	2298.3	2154.5	2179.4	2633.2
50°	2729.4	2674.3	2467.9	2171.8	2288.5	2443.0	2506.8	2489.5	2282.0	2145.9	2607.3
52.5°	2675.4	2615.9	2511.1	2254.0	2462.5	2649.4	2738.0	2694.8	2395.5	2221.5	2590.0
55°	2754.2	2708.8	2567.3	2365.2	2593.2	2830.9	2893.6	2861.2	2534.9	2291.8	2688.3
57.5°	2839.6	2829.9	2719.7	2496.0	2747.7	3017.9	3017.9	2977.9	2655.9	2393.3	2834.2
60°	2962.8	2984.4	2832.0	2582.4	2800.7	3007.1	3163.7	3117.3	2778.0	2571.6	2999.5
62.5°	2922.8	2991.9	2976.8	2768.3	2861.2	3060.0	3145.4	3180.0	2929.3	2788.8	3219.9
65°	2794.2	2867.7	2975.7	2890.4	2815.8	2931.4	2974.7	3079.5	3004.9	2993.0	3310.7
67.5°	2640.8	2720.7	2787.7	2972.5	2724.0	2800.7	2762.9	2796.4	2922.8	3216.7	3362.6
70°	2305.8	2382.5	2488.4	2789.9	2480.9	2411.7	2402.0	2385.8	2582.4	3136.7	3127.0
72.5°	1896.3	1932.0	2107.0	2268.0	1835.8	1822.8	1838.0	1819.6	2047.6	2839.6	2678.6
75°	1419.8	1455.5	1554.9	1741.8	1250.2	1175.6	1262.0	1347.4	1563.5	2204.2	1924.4
77.5°	1067.5	1112.9	1175.6	1303.1	917.4	800.7	812.5	893.6	1130.2	1765.6	1078.4
80°	692.6	687.2	808.2	896.8	690.4	712.1	681.8	741.2	819.0	944.4	551.1
82.5°	399.8	405.2	456.0	514.3	480.8	550.0	396.5	662.4	584.6	384.7	205.3
85°	224.7	234.5	280.9	356.6	301.5	202.1	165.3	328.5	367.4	157.8	99.4
87.5°	22.7	19.4	37.8	135.1	82.1	33.5	49.7	78.9	88.6	59.4	29.2
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: P677285

CATALOG NUMBER: CCW-SA-1D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4
2.5°	1580.8	1580.8	1553.8	1508.4	1490.0	1457.6	1413.3	1427.4	1412.2	1357.1	1343.1
5°	1516.0	1464.1	1407.9	1338.8	1298.8	1216.7	1190.7	1144.3	1151.8	1105.4	1107.5
7.5°	1380.9	1339.8	1244.8	1154.0	1075.1	1003.8	903.3	865.5	828.8	810.4	832.0
10°	1302.0	1225.3	1095.6	976.8	872.0	808.2	741.2	689.4	641.8	606.2	598.6
12.5°	1244.8	1176.7	1020.0	875.2	793.1	741.2	679.6	608.3	561.9	500.3	481.9
15°	1227.5	1144.3	978.9	835.2	755.3	669.9	599.7	529.5	468.9	404.1	381.4
17.5°	1286.9	1190.7	977.9	802.8	690.4	598.6	501.4	422.5	360.9	301.5	287.4
20°	1387.4	1240.4	1009.2	783.4	628.9	505.7	395.5	316.6	247.4	208.5	198.8
22.5°	1501.9	1324.7	1012.4	731.5	567.3	412.8	288.5	208.5	169.6	151.3	145.9
25°	1642.4	1459.8	1051.3	689.4	494.9	313.3	205.3	159.9	137.2	126.4	124.3
27.5°	1758.0	1553.8	1093.5	645.1	423.6	232.3	161.0	130.7	118.9	108.1	107.0
30°	1877.9	1661.8	1105.4	618.1	362.0	191.3	138.3	115.6	102.6	97.2	96.2
32.5°	1982.7	1779.6	1143.2	573.8	303.6	168.6	125.3	103.7	95.1	86.4	85.4
35°	2117.8	1847.7	1161.6	550.0	282.0	152.4	114.5	95.1	82.1	76.7	74.6
37.5°	2262.6	1913.6	1173.4	531.6	263.6	142.6	108.1	89.7	77.8	70.2	68.1
40°	2397.7	2006.5	1156.2	508.9	249.6	130.7	103.7	83.2	72.4	64.8	61.6
42.5°	2501.4	2097.3	1150.7	487.3	234.5	126.4	98.3	80.0	68.1	59.4	58.3
45°	2559.7	2158.9	1112.9	470.0	222.6	128.6	96.2	75.6	64.8	57.3	52.9
47.5°	2545.7	2206.4	1122.7	464.6	206.4	119.9	95.1	72.4	59.4	52.9	49.7
50°	2623.5	2302.6	1106.4	447.3	194.5	108.1	103.7	72.4	58.3	50.8	47.5
52.5°	2636.5	2390.1	1141.0	416.0	176.1	99.4	102.6	71.3	56.2	48.6	44.3
55°	2744.5	2491.7	1208.0	398.7	161.0	86.4	94.0	69.2	50.8	44.3	42.1
57.5°	2891.5	2702.4	1251.2	382.5	140.5	75.6	78.9	68.1	46.5	41.1	37.8
60°	3033.0	2786.6	1254.5	353.3	121.0	68.1	61.6	68.1	43.2	36.7	33.5
62.5°	3138.9	2786.6	1232.9	328.5	105.9	60.5	54.0	64.8	38.9	32.4	30.3
65°	3081.6	2712.1	1176.7	307.9	96.2	52.9	46.5	49.7	34.6	28.1	25.9
67.5°	2979.0	2479.8	1052.4	283.1	95.1	46.5	40.0	36.7	30.3	24.9	22.7
70°	2814.7	2166.4	876.3	255.0	92.9	42.1	35.7	31.3	27.0	21.6	19.4
72.5°	2268.0	1789.3	719.6	238.8	90.8	36.7	30.3	27.0	22.7	18.4	16.2
75°	1571.1	1143.2	554.3	204.2	88.6	33.5	28.1	23.8	19.4	15.1	14.0
77.5°	942.2	763.9	357.7	153.4	58.3	27.0	23.8	18.4	16.2	13.0	11.9
80°	440.8	360.9	144.8	59.4	28.1	19.4	16.2	14.0	13.0	10.8	9.7
82.5°	172.9	152.4	70.2	34.6	22.7	15.1	13.0	11.9	10.8	8.6	7.6
85°	92.9	82.1	33.5	23.8	16.2	10.8	10.8	9.7	8.6	7.6	6.5
87.5°	20.5	15.1	14.0	14.0	11.9	8.6	8.6	7.6	6.5	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: P677285  
 CATALOG NUMBER: CCW-SA-1D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4
2.5°	1335.5	1351.7	1325.8	1342.0	1319.3	1336.6	1338.8	1322.5	1326.9	1348.5	1358.2
5°	1137.8	1127.0	1103.2	1095.6	1096.7	1082.7	1088.1	1095.6	1107.5	1114.0	1133.5
7.5°	820.1	845.0	843.9	862.3	863.3	861.2	846.0	813.6	824.4	815.8	826.6
10°	586.7	597.5	618.1	629.9	651.6	639.7	605.1	592.1	585.6	584.6	595.4
12.5°	468.9	443.0	440.8	445.2	456.0	441.9	424.6	409.5	417.1	432.2	444.1
15°	363.1	341.4	313.3	309.0	311.2	304.7	286.3	266.9	272.3	287.4	296.1
17.5°	278.8	253.9	234.5	221.5	217.2	194.5	167.5	151.3	146.9	145.9	153.4
20°	188.0	183.7	180.4	164.2	164.2	131.8	109.1	97.2	97.2	99.4	100.5
22.5°	140.5	135.1	136.1	132.9	124.3	98.3	86.4	83.2	83.2	85.4	85.4
25°	122.1	114.5	112.4	111.3	102.6	84.3	75.6	72.4	72.4	74.6	74.6
27.5°	103.7	101.6	98.3	94.0	86.4	72.4	67.0	63.8	64.8	65.9	64.8
30°	95.1	89.7	85.4	85.4	76.7	64.8	60.5	58.3	56.2	58.3	59.4
32.5°	84.3	81.0	78.9	75.6	65.9	57.3	52.9	50.8	49.7	49.7	50.8
35°	72.4	72.4	70.2	65.9	57.3	51.9	46.5	44.3	43.2	44.3	44.3
37.5°	64.8	61.6	62.7	58.3	50.8	45.4	40.0	37.8	37.8	36.7	37.8
40°	60.5	55.1	51.9	49.7	45.4	38.9	34.6	32.4	31.3	31.3	31.3
42.5°	54.0	49.7	43.2	42.1	41.1	33.5	28.1	27.0	25.9	24.9	24.9
45°	50.8	44.3	38.9	33.5	33.5	28.1	23.8	21.6	20.5	19.4	20.5
47.5°	46.5	40.0	33.5	28.1	27.0	22.7	18.4	16.2	15.1	15.1	15.1
50°	44.3	35.7	29.2	23.8	20.5	18.4	14.0	11.9	10.8	10.8	10.8
52.5°	41.1	33.5	25.9	20.5	16.2	14.0	10.8	8.6	7.6	7.6	7.6
55°	36.7	30.3	22.7	17.3	14.0	10.8	7.6	5.4	4.3	4.3	4.3
57.5°	34.6	27.0	19.4	15.1	10.8	7.6	4.3	3.2	3.2	2.2	3.2
60°	31.3	23.8	16.2	11.9	8.6	5.4	3.2	1.1	1.1	1.1	1.1
62.5°	27.0	20.5	14.0	9.7	6.5	3.2	1.1	0.0	0.0	0.0	0.0
65°	22.7	16.2	10.8	7.6	4.3	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	19.4	14.0	8.6	5.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.3	11.9	6.5	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14.0	9.7	5.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.9	7.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.7	5.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.6	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.5	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: P677285  
 CATALOG NUMBER: CCW-SA-1D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4	1521.4
2.5°	1372.3	1365.8	1398.2	1451.1	1478.1	1531.1	1544.1	1577.6	1568.9	1580.8
5°	1135.6	1148.6	1196.1	1273.9	1302.0	1378.7	1451.1	1523.5	1570.0	1592.7
7.5°	842.8	886.0	944.4	1015.7	1088.1	1188.6	1311.7	1396.0	1441.4	1490.0
10°	627.8	674.2	741.2	811.5	929.2	1041.6	1164.8	1269.6	1308.5	1353.9
12.5°	493.8	566.2	644.0	719.6	789.9	896.8	1049.2	1201.5	1243.7	1278.2
15°	343.6	432.2	543.5	641.8	740.2	833.1	990.8	1175.6	1232.9	1291.2
17.5°	190.2	260.4	387.9	526.2	671.0	813.6	1010.3	1223.1	1309.6	1350.6
20°	110.2	138.3	229.1	393.3	584.6	771.5	1020.0	1312.8	1427.4	1447.9
22.5°	90.8	100.5	129.7	246.4	478.7	744.5	1069.7	1438.2	1554.9	1603.5
25°	77.8	85.4	100.5	148.0	362.0	687.2	1101.0	1594.8	1702.9	1755.8
27.5°	69.2	76.7	88.6	109.1	246.4	608.3	1152.9	1736.4	1844.4	1916.8
30°	60.5	67.0	78.9	92.9	170.7	519.7	1197.2	1840.1	1992.5	2015.2
32.5°	54.0	59.4	68.1	80.0	126.4	394.4	1232.9	1947.1	2075.7	2125.4
35°	46.5	52.9	58.3	68.1	96.2	297.1	1211.3	2030.3	2197.8	2257.2
37.5°	41.1	45.4	50.8	57.3	81.0	232.3	1167.0	2129.7	2302.6	2357.7
40°	34.6	37.8	44.3	50.8	73.5	179.4	1116.2	2249.6	2449.5	2546.8
42.5°	29.2	32.4	36.7	47.5	60.5	132.9	1013.5	2342.6	2568.4	2650.5
45°	22.7	27.0	33.5	47.5	48.6	98.3	907.6	2411.7	2635.4	2676.4
47.5°	17.3	21.6	32.4	41.1	38.9	68.1	782.3	2490.6	2704.5	2742.3
50°	13.0	17.3	36.7	35.7	32.4	51.9	703.4	2545.7	2708.8	2729.4
52.5°	8.6	13.0	30.3	27.0	27.0	45.4	681.8	2543.5	2719.7	2675.4
55°	6.5	9.7	17.3	19.4	23.8	40.0	662.4	2624.6	2722.9	2754.2
57.5°	4.3	7.6	11.9	15.1	20.5	34.6	622.4	2721.8	2823.4	2839.6
60°	2.2	5.4	8.6	11.9	17.3	30.3	566.2	2793.1	2945.5	2962.8
62.5°	1.1	3.2	6.5	9.7	14.0	23.8	507.8	2679.7	2892.5	2922.8
65°	0.0	2.2	4.3	6.5	8.6	17.3	412.8	2419.3	2682.9	2794.2
67.5°	0.0	0.0	2.2	4.3	5.4	13.0	311.2	2201.0	2489.5	2640.8
70°	0.0	0.0	1.1	1.1	3.2	9.7	198.8	1822.8	2222.6	2305.8
72.5°	0.0	0.0	0.0	0.0	1.1	6.5	115.6	1353.9	1741.8	1896.3
75°	0.0	0.0	0.0	0.0	0.0	5.4	58.3	870.9	1212.3	1419.8
77.5°	0.0	0.0	0.0	0.0	0.0	4.3	31.3	561.9	893.6	1067.5
80°	0.0	0.0	0.0	0.0	0.0	1.1	18.4	326.3	571.6	692.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.6	159.9	341.4	399.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	85.4	170.7	224.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	11.9	22.7
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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