

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: P676279

Luminaire Tested: **CCW-SA-1F-740-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676279
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-740-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

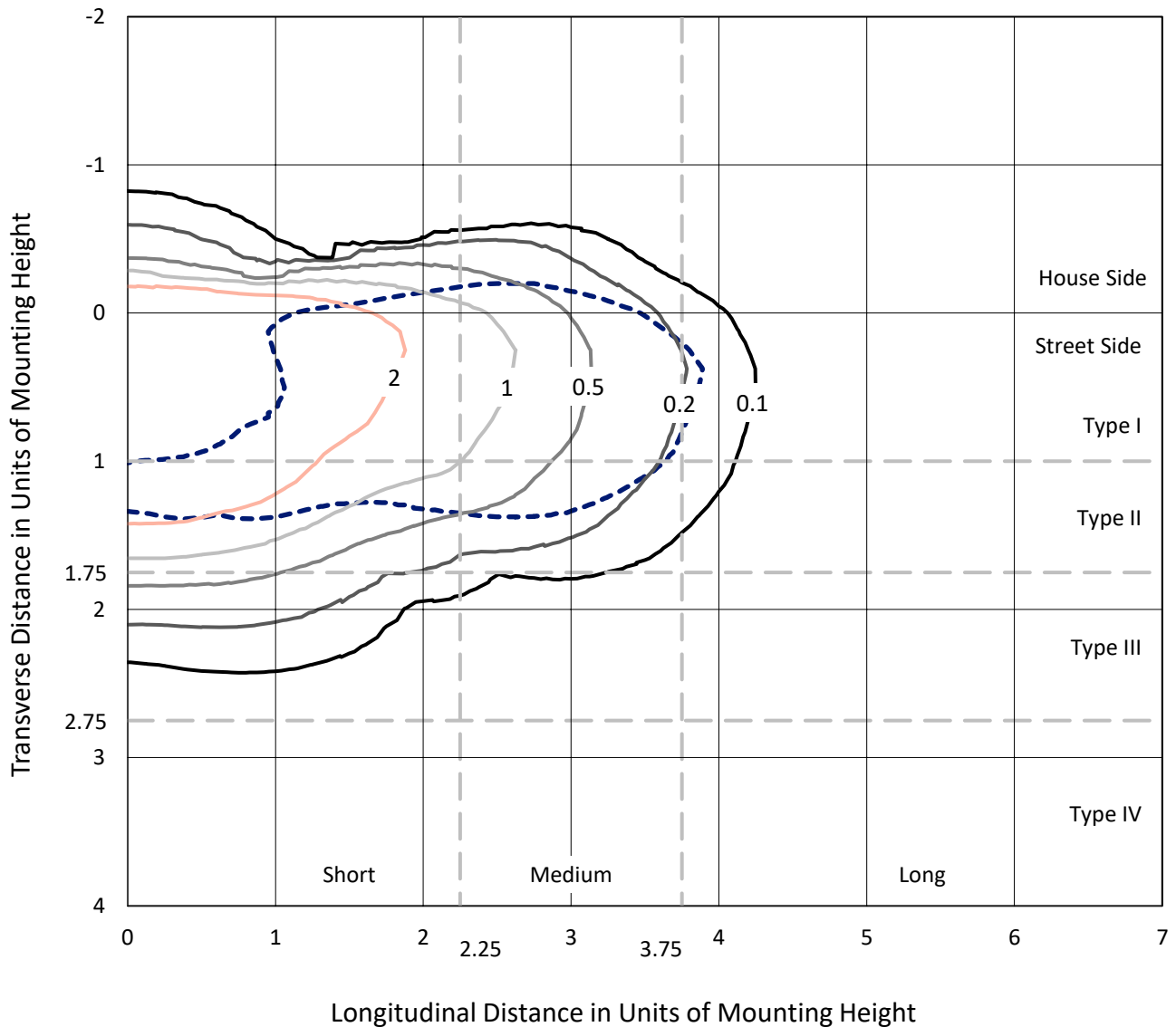
Lumens per Lamp: N/A
Luminaire Lumens: 5788.5 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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: P676279
 CATALOG NUMBER: CCW-SA-1F-740-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

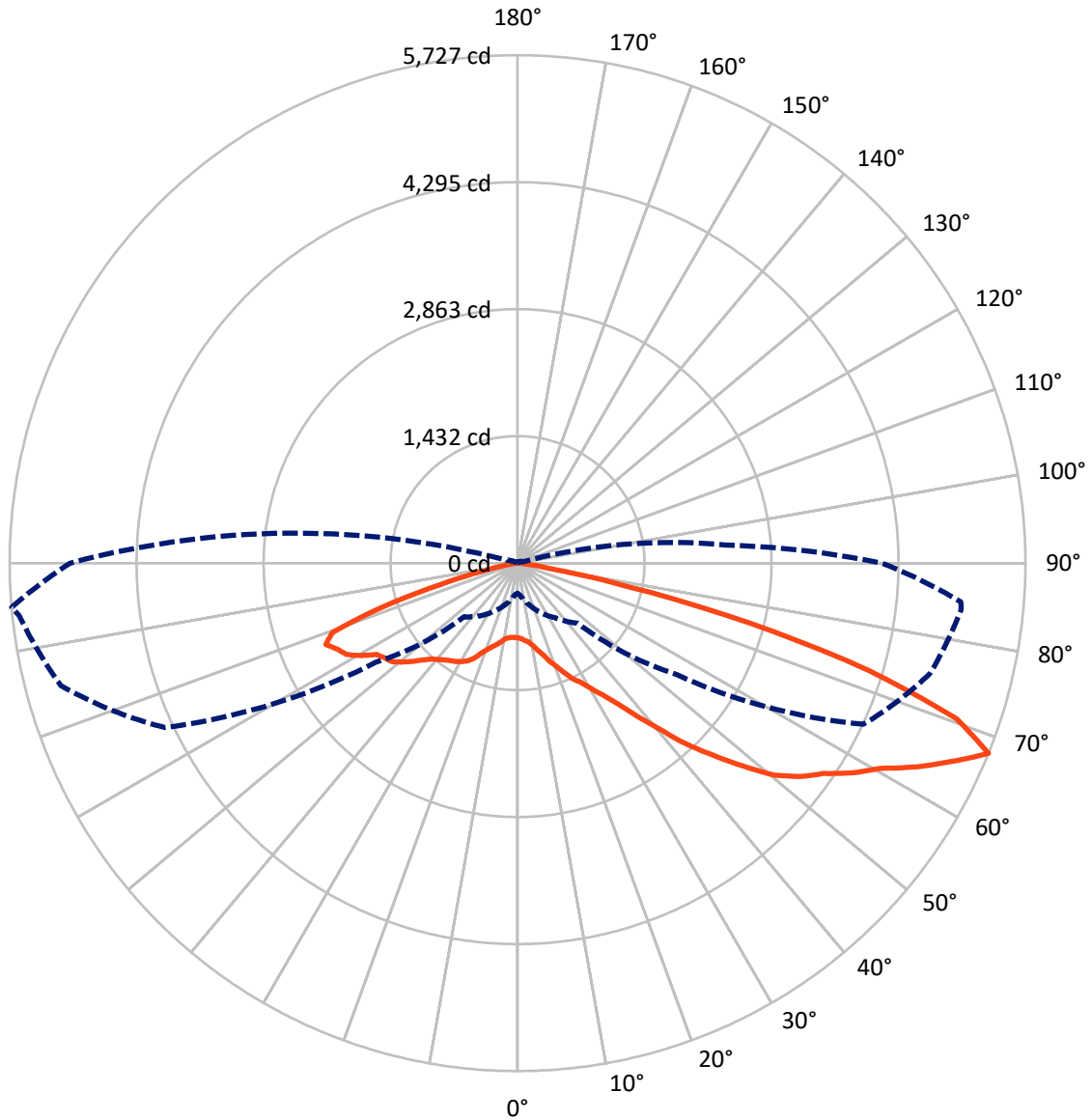
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

REPORT NUMBER: P676279
CATALOG NUMBER: CCW-SA-1F-740-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P676279

CATALOG NUMBER: CCW-SA-1F-740-U-T2-HSS

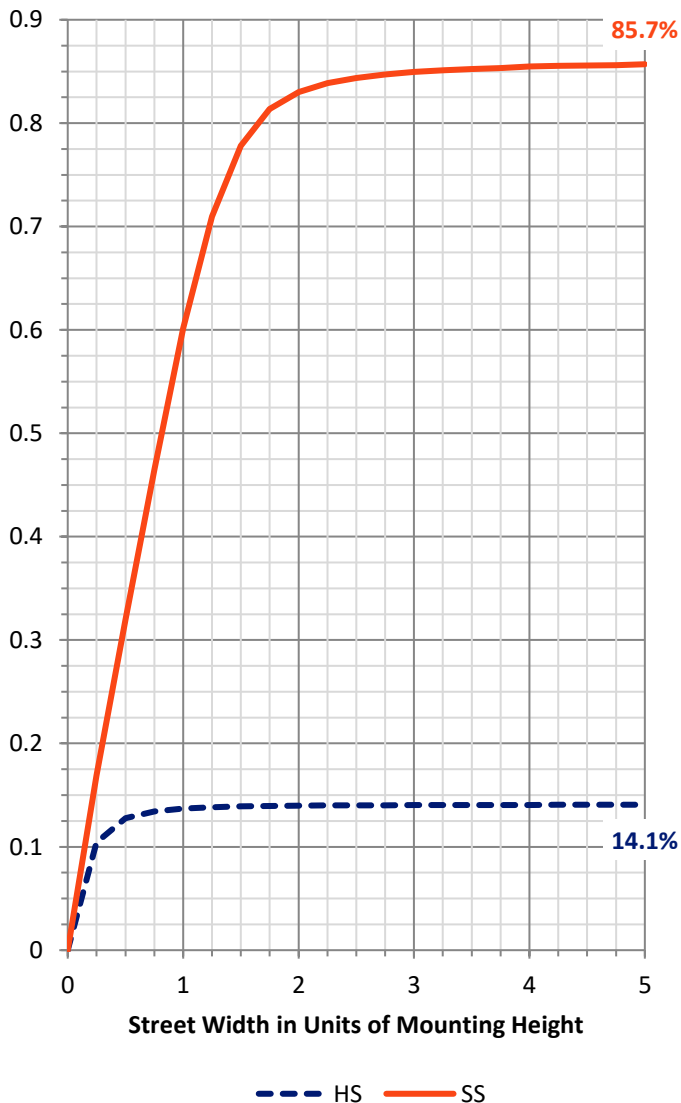
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	822.4	0.0	822.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4966.2	0.0	4966.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	5788.5	0.0	5788.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	1.3
10°-20°	206.4	3.6
20°-30°	342.8	5.9
30°-40°	589.7	10.2
40°-50°	1059.7	18.3
50°-60°	1508.6	26.1
60°-70°	1375.4	23.8
70°-80°	585.7	10.1
80°-90°	43.6	0.8
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°	5788.5	100.0
0°-180°	5788.5	100.0



REPORT NUMBER: P676279

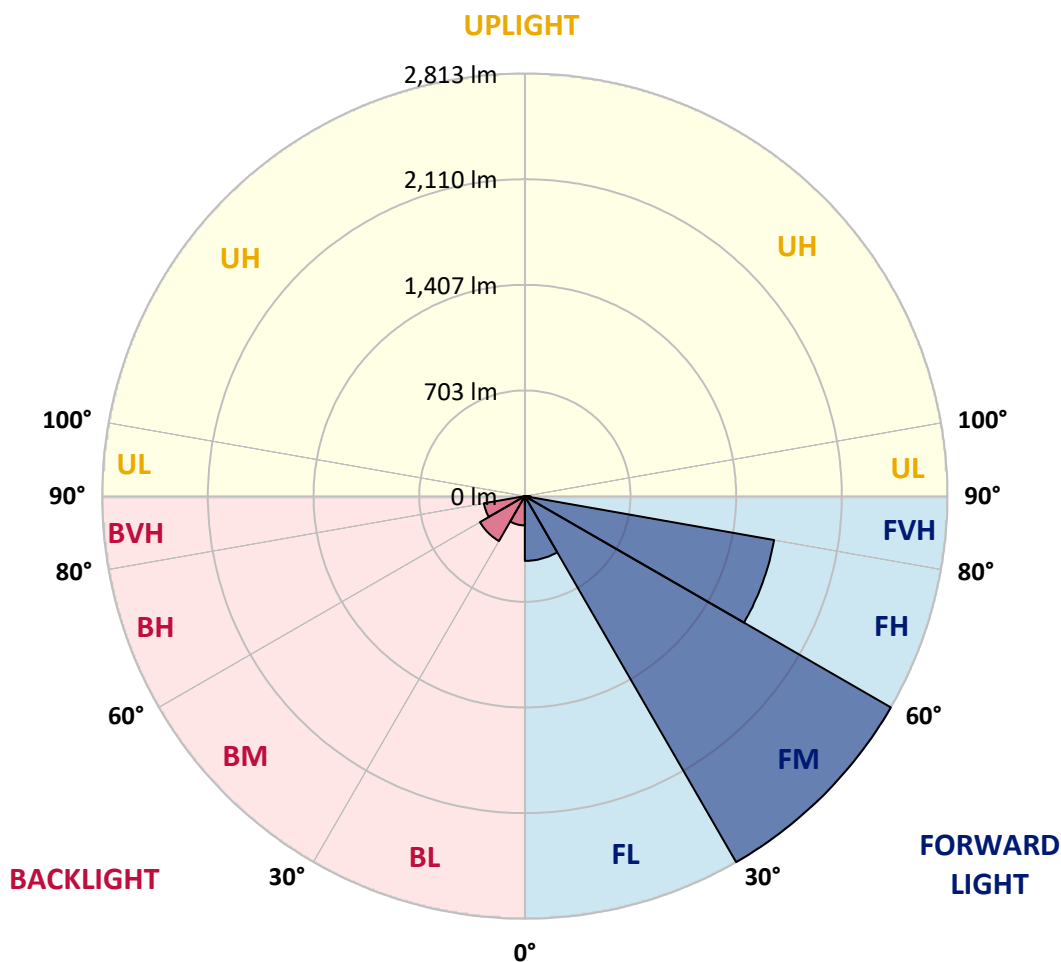
CATALOG NUMBER: CCW-SA-1F-740-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.2	7.4			
FM (30°-60°)	2813.2	48.6			
FH (60°-80°)	1684.7	29.1			G1/1800
FVH (80°-90°)	37.0	0.6			G1/100
BL (0°-30°)	194.7	3.4	B1/500		
BM (30°-60°)	344.8	6.0	B1/1000		
BH (60°-80°)	276.3	4.8	B1/500		G1/500
BVH (80°-90°)	6.6	0.1			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 II Short





REPORT NUMBER: P676279

CATALOG NUMBER: CCW-SA-1F-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7
2.5°	872.1	880.4	880.4	877.6	869.3	863.8	861.1	855.5	850.0	850.0	852.8
5°	880.4	872.1	883.1	869.3	869.3	869.3	880.4	874.8	872.1	858.3	858.3
7.5°	880.4	872.1	872.1	880.4	872.1	877.6	891.4	885.9	896.9	872.1	877.6
10°	855.5	852.8	858.3	869.3	872.1	883.1	896.9	924.5	927.3	910.7	908.0
12.5°	805.9	803.1	822.4	827.9	861.1	888.6	930.0	952.1	977.0	968.7	952.1
15°	770.0	775.5	789.3	811.4	841.7	891.4	938.3	988.0	1032.2	1021.1	1015.6
17.5°	783.8	781.0	783.8	797.6	836.2	885.9	965.9	1023.9	1087.4	1087.4	1092.9
20°	825.2	833.5	830.7	822.4	841.7	883.1	965.9	1068.0	1172.9	1164.6	1164.6
22.5°	896.9	899.7	883.1	877.6	874.8	899.7	982.5	1123.2	1244.7	1261.2	1255.7
25°	971.4	974.2	968.7	952.1	930.0	935.6	1012.8	1167.4	1344.0	1371.6	1366.1
27.5°	1095.6	1092.9	1079.1	1059.8	1026.6	1001.8	1059.8	1200.5	1421.3	1468.2	1454.4
30°	1219.8	1211.5	1192.2	1167.4	1137.0	1090.1	1117.7	1264.0	1517.9	1562.0	1531.7
32.5°	1371.6	1355.0	1360.6	1321.9	1258.5	1183.9	1178.4	1321.9	1595.2	1658.6	1633.8
35°	1564.8	1545.5	1517.9	1482.0	1421.3	1321.9	1291.6	1415.8	1724.9	1771.8	1771.8
37.5°	1818.7	1838.0	1804.9	1655.9	1589.6	1495.8	1432.3	1512.4	1838.0	1951.2	1923.6
40°	2078.1	2094.7	2034.0	1923.6	1780.1	1664.1	1625.5	1669.7	2009.1	2144.3	2091.9
42.5°	2287.9	2309.9	2287.9	2144.3	2031.2	1882.2	1813.2	1854.6	2229.9	2392.7	2323.7
45°	2508.6	2530.7	2505.9	2412.0	2301.7	2216.1	2042.2	2094.7	2461.7	2704.6	2627.3
47.5°	2674.2	2701.8	2657.7	2638.3	2550.0	2536.2	2240.9	2298.9	2704.6	3019.2	2922.6
50°	2712.9	2743.2	2781.9	2803.9	2773.6	2806.7	2508.6	2558.3	2958.5	3309.0	3215.1
52.5°	2621.8	2652.1	2737.7	2839.8	2980.6	3079.9	2779.1	2820.5	3223.4	3549.1	3499.4
55°	2354.1	2381.7	2555.6	2693.5	3030.2	3193.1	3038.5	3212.4	3413.8	3800.2	3678.8
57.5°	1904.2	1937.4	2166.4	2378.9	2864.6	3129.6	3193.1	3538.0	3728.5	3985.1	3844.4
60°	1352.3	1371.6	1570.3	1945.6	2406.5	2812.2	3162.7	3780.9	3976.8	4233.5	4159.0
62.5°	778.3	794.8	1001.8	1355.0	1815.9	2348.6	3027.5	4010.0	4244.5	4506.7	4465.3
65°	516.1	521.6	662.3	855.5	1181.2	1730.4	2685.3	4214.2	4509.5	4724.7	4677.8
67.5°	339.5	369.8	480.2	612.7	756.2	957.6	2188.5	4299.7	4813.0	5028.3	5017.3
70°	242.9	253.9	345.0	471.9	568.5	538.2	1280.5	3695.3	4799.3	5111.1	5020.0
72.5°	143.5	154.5	229.1	353.3	447.1	342.2	598.9	2613.5	3976.8	4078.9	4054.1
75°	104.9	104.9	140.7	253.9	325.7	245.6	281.5	1653.1	2641.1	2867.4	2864.6
77.5°	74.5	77.3	96.6	151.8	251.1	179.4	154.5	919.0	1443.4	1578.6	1504.1
80°	44.2	46.9	66.2	91.1	182.1	129.7	102.1	419.5	554.7	560.2	532.6
82.5°	33.1	33.1	44.2	63.5	126.9	88.3	63.5	160.1	179.4	162.8	138.0
85°	19.3	16.6	33.1	46.9	74.5	49.7	44.2	74.5	82.8	60.7	55.2
87.5°	5.5	5.5	13.8	16.6	33.1	27.6	19.3	27.6	38.6	22.1	16.6
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: P676279
 CATALOG NUMBER: CCW-SA-1F-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7
2.5°	847.3	839.0	825.2	819.7	800.3	792.1	786.5	772.7	775.5	767.2	767.2
5°	839.0	839.0	811.4	781.0	750.7	731.3	709.3	681.7	681.7	670.6	673.4
7.5°	869.3	847.3	811.4	756.2	706.5	662.3	643.0	615.4	598.9	590.6	590.6
10°	888.6	866.6	805.9	739.6	676.1	620.9	579.6	540.9	518.8	518.8	516.1
12.5°	941.1	908.0	827.9	736.9	643.0	560.2	496.8	452.6	422.2	400.2	405.7
15°	985.2	949.4	839.0	714.8	585.1	469.2	391.9	309.1	267.7	245.6	237.3
17.5°	1054.2	988.0	863.8	676.1	496.8	367.1	253.9	184.9	168.3	165.6	165.6
20°	1112.2	1034.9	866.6	601.6	408.4	234.6	162.8	151.8	143.5	140.7	138.0
22.5°	1192.2	1095.6	855.5	516.1	292.5	157.3	138.0	126.9	121.4	113.2	113.2
25°	1275.0	1175.7	833.5	436.0	179.4	135.2	121.4	110.4	99.4	93.8	96.6
27.5°	1363.3	1236.4	770.0	339.5	138.0	118.7	99.4	91.1	85.6	82.8	82.8
30°	1435.1	1275.0	676.1	226.3	124.2	104.9	88.3	80.0	74.5	71.8	71.8
32.5°	1487.5	1308.1	571.3	151.8	113.2	93.8	80.0	71.8	66.2	63.5	63.5
35°	1575.8	1333.0	474.7	129.7	102.1	82.8	69.0	63.5	58.0	58.0	58.0
37.5°	1711.1	1366.1	378.1	118.7	93.8	74.5	66.2	58.0	55.2	52.4	52.4
40°	1829.7	1407.5	270.5	107.6	85.6	69.0	58.0	52.4	49.7	46.9	46.9
42.5°	2000.8	1454.4	176.6	96.6	77.3	63.5	52.4	46.9	44.2	41.4	41.4
45°	2218.9	1531.7	138.0	85.6	69.0	58.0	49.7	44.2	38.6	38.6	35.9
47.5°	2450.7	1625.5	124.2	80.0	63.5	52.4	44.2	38.6	35.9	33.1	33.1
50°	2665.9	1716.6	115.9	74.5	58.0	49.7	41.4	35.9	30.4	27.6	27.6
52.5°	2859.1	1802.1	110.4	69.0	55.2	44.2	35.9	30.4	27.6	24.8	24.8
55°	2961.2	1840.8	107.6	66.2	49.7	41.4	33.1	27.6	24.8	22.1	22.1
57.5°	3121.3	1890.4	104.9	63.5	46.9	35.9	30.4	24.8	22.1	19.3	19.3
60°	3380.7	2053.3	102.1	60.7	44.2	35.9	27.6	22.1	16.6	13.8	13.8
62.5°	3596.0	2188.5	91.1	52.4	38.6	30.4	22.1	16.6	11.0	8.3	8.3
65°	3841.6	2252.0	80.0	46.9	33.1	24.8	16.6	11.0	8.3	2.8	2.8
67.5°	4109.3	2348.6	66.2	41.4	30.4	19.3	13.8	8.3	2.8	0.0	0.0
70°	3968.6	2227.1	55.2	35.9	27.6	16.6	11.0	5.5	0.0	0.0	0.0
72.5°	3110.3	1595.2	44.2	33.1	24.8	16.6	11.0	2.8	0.0	0.0	0.0
75°	2078.1	902.4	38.6	27.6	19.3	13.8	8.3	2.8	0.0	0.0	0.0
77.5°	1128.7	405.7	33.1	24.8	16.6	11.0	8.3	2.8	0.0	0.0	0.0
80°	367.1	160.1	27.6	22.1	16.6	11.0	8.3	2.8	0.0	0.0	0.0
82.5°	99.4	49.7	27.6	22.1	16.6	11.0	8.3	2.8	0.0	0.0	0.0
85°	41.4	33.1	27.6	22.1	16.6	11.0	8.3	2.8	0.0	0.0	0.0
87.5°	16.6	11.0	11.0	13.8	11.0	8.3	5.5	2.8	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: P676279
 CATALOG NUMBER: CCW-SA-1F-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7
2.5°	770.0	775.5	778.3	778.3	792.1	805.9	822.4	836.2	836.2	844.5	852.8
5°	676.1	681.7	689.9	714.8	742.4	772.7	803.1	825.2	855.5	869.3	877.6
7.5°	598.9	604.4	626.5	651.3	689.9	742.4	794.8	844.5	874.8	888.6	899.7
10°	518.8	527.1	552.0	596.1	645.8	709.3	770.0	855.5	905.2	932.8	943.8
12.5°	402.9	425.0	458.1	505.0	568.5	665.1	778.3	866.6	952.1	985.2	1007.3
15°	253.9	273.2	325.7	400.2	485.7	598.9	756.2	883.1	1001.8	1034.9	1070.8
17.5°	162.8	165.6	182.1	262.2	372.6	516.1	723.1	908.0	1057.0	1103.9	1159.1
20°	138.0	143.5	146.3	157.3	248.4	425.0	654.1	938.3	1123.2	1186.7	1239.1
22.5°	115.9	118.7	124.2	132.5	149.0	309.1	560.2	938.3	1181.2	1275.0	1335.7
25°	93.8	99.4	104.9	113.2	129.7	193.2	463.6	921.8	1250.2	1366.1	1443.4
27.5°	82.8	82.8	88.3	96.6	110.4	135.2	367.1	872.1	1302.6	1421.3	1523.4
30°	71.8	74.5	77.3	85.6	99.4	118.7	253.9	792.1	1357.8	1528.9	1644.8
32.5°	63.5	63.5	69.0	74.5	88.3	107.6	162.8	670.6	1429.6	1611.7	1774.5
35°	58.0	58.0	60.7	66.2	80.0	96.6	126.9	568.5	1515.1	1769.0	1948.4
37.5°	52.4	52.4	55.2	60.7	71.8	85.6	115.9	488.5	1603.4	1926.3	2188.5
40°	46.9	46.9	49.7	55.2	63.5	77.3	104.9	394.6	1713.8	2158.1	2450.7
42.5°	41.4	41.4	44.2	49.7	58.0	69.0	91.1	295.3	1860.1	2409.3	2790.1
45°	35.9	35.9	38.6	44.2	49.7	63.5	82.8	226.3	2020.2	2688.0	3088.2
47.5°	30.4	33.1	35.9	41.4	46.9	58.0	74.5	198.7	2177.5	2983.3	3419.4
50°	27.6	27.6	30.4	35.9	44.2	52.4	69.0	195.9	2337.5	3209.6	3758.8
52.5°	24.8	24.8	27.6	33.1	41.4	49.7	66.2	201.5	2470.0	3419.4	3996.2
55°	22.1	22.1	24.8	27.6	35.9	46.9	60.7	207.0	2563.8	3631.9	4186.6
57.5°	19.3	19.3	22.1	27.6	33.1	41.4	55.2	212.5	2715.6	3841.6	4462.6
60°	13.8	13.8	19.3	24.8	30.4	35.9	52.4	218.0	2958.5	4131.4	4697.1
62.5°	8.3	8.3	11.0	19.3	24.8	33.1	46.9	207.0	3184.8	4504.0	5055.9
65°	2.8	5.5	8.3	11.0	19.3	27.6	38.6	187.7	3375.2	4876.5	5387.1
67.5°	0.0	0.0	2.8	8.3	16.6	22.1	33.1	138.0	3405.6	5044.9	5726.5
70°	0.0	0.0	2.8	8.3	13.8	22.1	30.4	77.3	2900.5	4506.7	5249.1
72.5°	0.0	0.0	0.0	5.5	13.8	19.3	27.6	58.0	2138.8	3397.3	4147.9
75°	0.0	0.0	0.0	2.8	11.0	16.6	24.8	44.2	1299.9	2265.8	2707.3
77.5°	0.0	0.0	0.0	2.8	8.3	16.6	24.8	38.6	458.1	1079.1	1272.3
80°	0.0	0.0	0.0	5.5	11.0	16.6	22.1	33.1	110.4	270.5	364.3
82.5°	0.0	0.0	0.0	2.8	8.3	13.8	19.3	27.6	44.2	80.0	126.9
85°	0.0	0.0	0.0	2.8	5.5	13.8	19.3	24.8	30.4	38.6	55.2
87.5°	0.0	0.0	0.0	0.0	2.8	5.5	8.3	11.0	11.0	11.0	19.3
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: P676279
 CATALOG NUMBER: CCW-SA-1F-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7	841.7
2.5°	850.0	861.1	866.6	877.6	883.1	880.4	877.6	885.9	880.4	872.1
5°	880.4	880.4	888.6	891.4	891.4	883.1	888.6	885.9	880.4	880.4
7.5°	913.5	927.3	927.3	910.7	908.0	902.4	902.4	880.4	872.1	880.4
10°	946.6	957.6	960.4	941.1	916.2	905.2	891.4	863.8	850.0	855.5
12.5°	1015.6	1015.6	985.2	963.2	930.0	891.4	858.3	819.7	800.3	805.9
15°	1065.3	1076.3	1034.9	985.2	927.3	855.5	819.7	789.3	778.3	770.0
17.5°	1161.9	1139.8	1073.6	1001.8	919.0	844.5	819.7	792.1	783.8	783.8
20°	1244.7	1233.6	1134.3	1004.6	916.2	866.6	850.0	836.2	833.5	825.2
22.5°	1357.8	1308.1	1181.2	1034.9	946.6	902.4	896.9	910.7	902.4	896.9
25°	1443.4	1402.0	1217.1	1079.1	993.5	979.7	988.0	1001.8	979.7	971.4
27.5°	1559.3	1482.0	1286.1	1137.0	1057.0	1070.8	1098.4	1101.2	1087.4	1095.6
30°	1666.9	1584.1	1338.5	1203.3	1164.6	1178.4	1219.8	1250.2	1230.9	1219.8
32.5°	1821.5	1694.5	1443.4	1313.7	1299.9	1335.7	1382.6	1402.0	1377.1	1371.6
35°	1984.3	1821.5	1551.0	1437.8	1462.7	1512.4	1553.8	1586.9	1548.2	1564.8
37.5°	2238.2	2025.7	1733.1	1633.8	1644.8	1664.1	1741.4	1832.5	1851.8	1818.7
40°	2503.1	2246.5	1901.5	1824.2	1849.0	1901.5	1992.6	2078.1	2122.3	2078.1
42.5°	2809.5	2459.0	2160.9	2069.8	2094.7	2169.2	2290.6	2359.6	2354.1	2287.9
45°	3187.5	2754.3	2403.8	2290.6	2381.7	2447.9	2569.4	2577.6	2525.2	2508.6
47.5°	3477.3	3002.6	2665.9	2594.2	2718.4	2721.1	2748.7	2751.5	2693.5	2674.2
50°	3797.5	3289.7	2958.5	2853.6	3063.4	2966.8	2892.2	2842.6	2754.3	2712.9
52.5°	4112.1	3493.9	3228.9	3121.3	3339.3	3082.7	2947.4	2795.7	2665.9	2621.8
55°	4280.4	3830.6	3623.6	3372.4	3400.0	3115.8	2776.3	2585.9	2365.1	2354.1
57.5°	4479.1	4056.9	3957.5	3543.6	3297.9	2884.0	2420.3	2169.2	1931.8	1904.2
60°	4713.7	4415.6	4310.8	3516.0	2936.4	2423.1	1918.0	1595.2	1371.6	1352.3
62.5°	4975.9	4840.6	4528.8	3245.5	2332.0	1705.5	1266.7	996.3	789.3	778.3
65°	5389.8	5196.7	4644.7	2732.2	1542.7	1092.9	841.7	645.8	521.6	516.1
67.5°	5649.3	5331.9	4385.3	1948.4	855.5	723.1	590.6	469.2	361.5	339.5
70°	5282.2	4893.1	3469.0	1114.9	496.8	549.2	455.4	314.6	248.4	242.9
72.5°	4219.7	3631.9	2334.8	524.4	309.1	430.5	331.2	212.5	149.0	143.5
75°	2878.4	2285.1	1465.4	242.9	218.0	314.6	242.9	124.2	104.9	104.9
77.5°	1286.1	1164.6	750.7	149.0	162.8	240.1	140.7	85.6	77.3	74.5
80°	391.9	411.2	306.3	102.1	121.4	182.1	85.6	58.0	46.9	44.2
82.5°	132.5	154.5	138.0	60.7	82.8	129.7	58.0	38.6	33.1	33.1
85°	63.5	77.3	69.0	38.6	44.2	63.5	46.9	30.4	19.3	19.3
87.5°	24.8	35.9	24.8	16.6	24.8	33.1	19.3	13.8	5.5	5.5
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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