

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: P676247

Luminaire Tested: **CCW-SA-2A-727-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676247
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-727-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

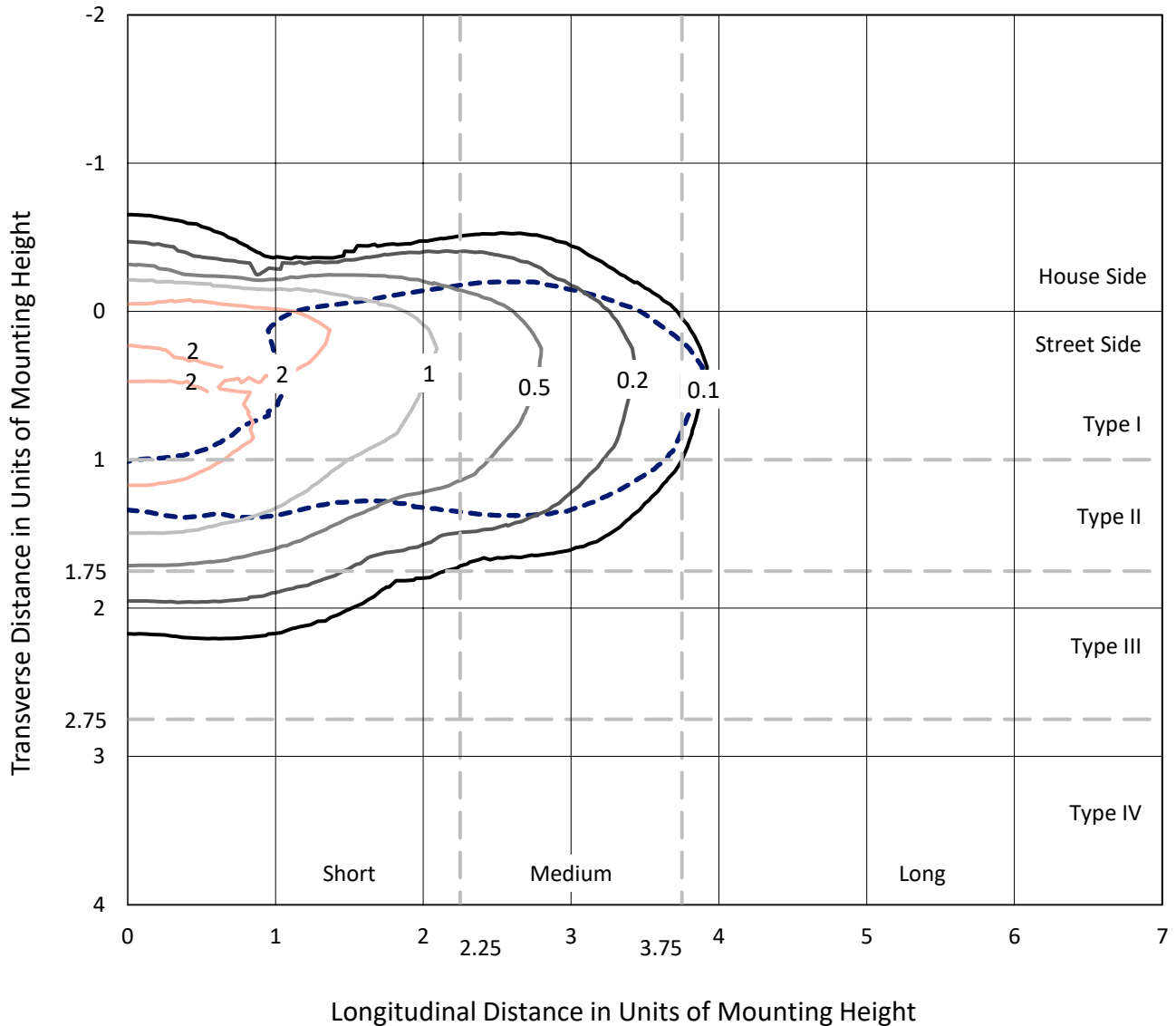
Lumens per Lamp: N/A
Luminaire Lumens: 3532.8 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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: P676247
 CATALOG NUMBER: CCW-SA-2A-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

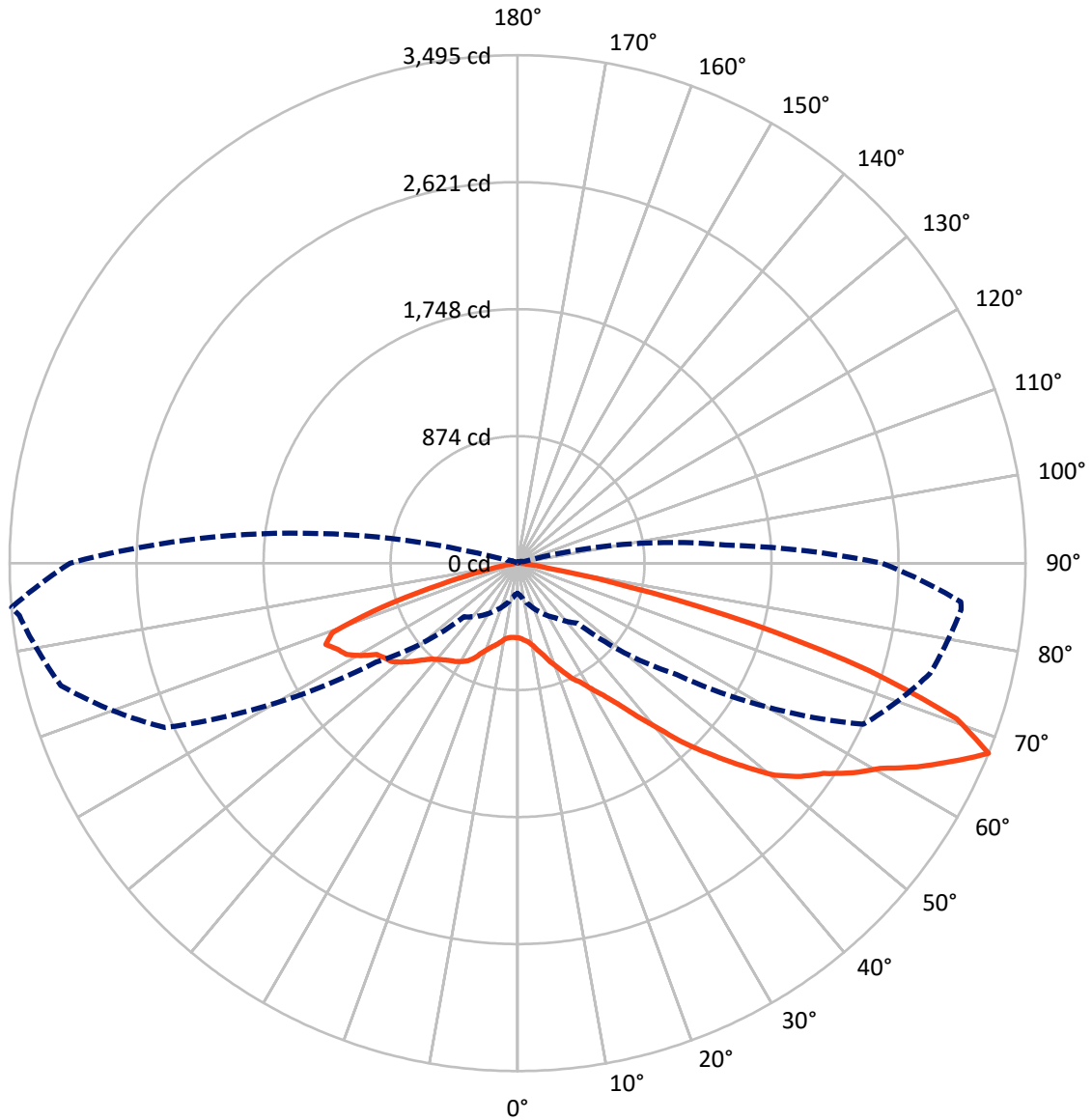
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

REPORT NUMBER: P676247
CATALOG NUMBER: CCW-SA-2A-727-U-T2-HSS

Luminous Intensity Polar Plot



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



REPORT NUMBER: P676247
 CATALOG NUMBER: CCW-SA-2A-727-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	501.9	0.0	501.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3030.9	0.0	3030.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	3532.8	0.0	3532.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	1.3
10°-20°	126.0	3.6
20°-30°	209.2	5.9
30°-40°	359.9	10.2
40°-50°	646.7	18.3
50°-60°	920.7	26.1
60°-70°	839.4	23.8
70°-80°	357.4	10.1
80°-90°	26.6	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°	3532.8	100.0
0°-180°	3532.8	100.0



REPORT NUMBER: P676247

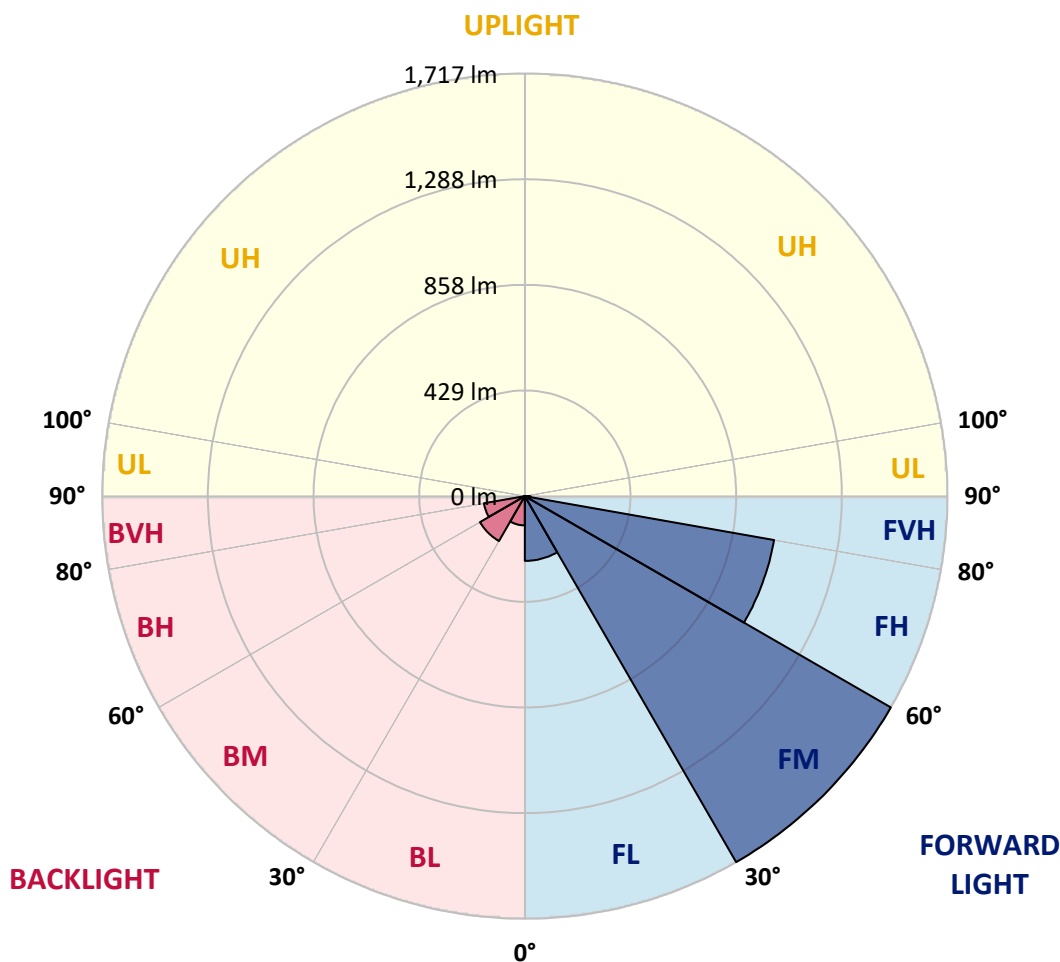
CATALOG NUMBER: CCW-SA-2A-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	263.2	7.4			
FM (30°-60°)	1716.9	48.6			
FH (60°-80°)	1028.2	29.1			G1/1800
FVH (80°-90°)	22.6	0.6			G1/100
BL (0°-30°)	118.8	3.4	B1/500		
BM (30°-60°)	210.4	6.0	B0/220		
BH (60°-80°)	168.6	4.8	B1/500		G1/500
BVH (80°-90°)	4.0	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: P676247

CATALOG NUMBER: CCW-SA-2A-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7
2.5°	532.2	537.3	537.3	535.6	530.6	527.2	525.5	522.1	518.8	518.8	520.5
5°	537.3	532.2	539.0	530.6	530.6	530.6	537.3	533.9	532.2	523.8	523.8
7.5°	537.3	532.2	532.2	537.3	532.2	535.6	544.0	540.7	547.4	532.2	535.6
10°	522.1	520.5	523.8	530.6	532.2	539.0	547.4	564.2	565.9	555.8	554.1
12.5°	491.8	490.1	501.9	505.3	525.5	542.4	567.6	581.1	596.3	591.2	581.1
15°	469.9	473.3	481.7	495.2	513.7	544.0	572.7	603.0	629.9	623.2	619.8
17.5°	478.3	476.7	478.3	486.8	510.4	540.7	589.5	624.9	663.6	663.6	667.0
20°	503.6	508.7	507.0	501.9	513.7	539.0	589.5	651.8	715.8	710.8	710.8
22.5°	547.4	549.1	539.0	535.6	533.9	549.1	599.6	685.5	759.6	769.7	766.4
25°	592.9	594.6	591.2	581.1	567.6	571.0	618.1	712.5	820.3	837.1	833.7
27.5°	668.7	667.0	658.6	646.8	626.6	611.4	646.8	732.7	867.4	896.1	887.6
30°	744.5	739.4	727.6	712.5	693.9	665.3	682.2	771.4	926.4	953.3	934.8
32.5°	837.1	827.0	830.4	806.8	768.1	722.6	719.2	806.8	973.5	1012.3	997.1
35°	955.0	943.2	926.4	904.5	867.4	806.8	788.3	864.1	1052.7	1081.3	1081.3
37.5°	1110.0	1121.8	1101.5	1010.6	970.2	912.9	874.2	923.0	1121.8	1190.8	1174.0
40°	1268.3	1278.4	1241.3	1174.0	1086.4	1015.6	992.1	1019.0	1226.2	1308.7	1276.7
42.5°	1396.3	1409.8	1396.3	1308.7	1239.7	1148.7	1106.6	1131.9	1360.9	1460.3	1418.2
45°	1531.1	1544.5	1529.4	1472.1	1404.7	1352.5	1246.4	1278.4	1502.4	1650.6	1603.5
47.5°	1632.1	1649.0	1622.0	1610.2	1556.3	1547.9	1367.7	1403.0	1650.6	1842.7	1783.7
50°	1655.7	1674.2	1697.8	1711.3	1692.7	1713.0	1531.1	1561.4	1805.6	2019.5	1962.2
52.5°	1600.1	1618.6	1670.9	1733.2	1819.1	1879.7	1696.1	1721.4	1967.3	2166.0	2135.7
55°	1436.7	1453.6	1559.7	1643.9	1849.4	1948.8	1854.4	1960.6	2083.5	2319.3	2245.2
57.5°	1162.2	1182.4	1322.2	1451.9	1748.3	1910.0	1948.8	2159.3	2275.5	2432.2	2346.3
60°	825.3	837.1	958.4	1187.4	1468.7	1716.3	1930.2	2307.5	2427.1	2583.8	2538.3
62.5°	475.0	485.1	611.4	827.0	1108.3	1433.4	1847.7	2447.3	2590.5	2750.5	2725.2
65°	315.0	318.3	404.2	522.1	720.9	1056.1	1638.8	2572.0	2752.2	2883.6	2854.9
67.5°	207.2	225.7	293.1	373.9	461.5	584.5	1335.7	2624.2	2937.5	3068.8	3062.1
70°	148.2	155.0	210.5	288.0	347.0	328.4	781.5	2255.3	2929.0	3119.4	3063.8
72.5°	87.6	94.3	139.8	215.6	272.9	208.9	365.5	1595.1	2427.1	2489.4	2474.3
75°	64.0	64.0	85.9	155.0	198.8	149.9	171.8	1008.9	1611.9	1750.0	1748.3
77.5°	45.5	47.2	59.0	92.6	153.3	109.5	94.3	560.9	880.9	963.4	918.0
80°	26.9	28.6	40.4	55.6	111.2	79.2	62.3	256.0	338.5	341.9	325.1
82.5°	20.2	20.2	26.9	38.7	77.5	53.9	38.7	97.7	109.5	99.4	84.2
85°	11.8	10.1	20.2	28.6	45.5	30.3	26.9	45.5	50.5	37.1	33.7
87.5°	3.4	3.4	8.4	10.1	20.2	16.8	11.8	16.8	23.6	13.5	10.1
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: P676247
 CATALOG NUMBER: CCW-SA-2A-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7
2.5°	517.1	512.0	503.6	500.2	488.5	483.4	480.0	471.6	473.3	468.2	468.2
5°	512.0	512.0	495.2	476.7	458.1	446.3	432.9	416.0	416.0	409.3	411.0
7.5°	530.6	517.1	495.2	461.5	431.2	404.2	392.4	375.6	365.5	360.4	360.4
10°	542.4	528.9	491.8	451.4	412.7	379.0	353.7	330.1	316.7	316.7	315.0
12.5°	574.4	554.1	505.3	449.7	392.4	341.9	303.2	276.2	257.7	244.2	247.6
15°	601.3	579.4	512.0	436.2	357.1	286.3	239.2	188.6	163.4	149.9	144.9
17.5°	643.4	603.0	527.2	412.7	303.2	224.0	155.0	112.8	102.7	101.1	101.1
20°	678.8	631.6	528.9	367.2	249.3	143.2	99.4	92.6	87.6	85.9	84.2
22.5°	727.6	668.7	522.1	315.0	178.5	96.0	84.2	77.5	74.1	69.1	69.1
25°	778.2	717.5	508.7	266.1	109.5	82.5	74.1	67.4	60.6	57.3	59.0
27.5°	832.1	754.6	469.9	207.2	84.2	72.4	60.6	55.6	52.2	50.5	50.5
30°	875.8	778.2	412.7	138.1	75.8	64.0	53.9	48.8	45.5	43.8	43.8
32.5°	907.9	798.4	348.7	92.6	69.1	57.3	48.8	43.8	40.4	38.7	38.7
35°	961.7	813.5	289.7	79.2	62.3	50.5	42.1	38.7	35.4	35.4	35.4
37.5°	1044.3	833.7	230.8	72.4	57.3	45.5	40.4	35.4	33.7	32.0	32.0
40°	1116.7	859.0	165.1	65.7	52.2	42.1	35.4	32.0	30.3	28.6	28.6
42.5°	1221.1	887.6	107.8	59.0	47.2	38.7	32.0	28.6	26.9	25.3	25.3
45°	1354.2	934.8	84.2	52.2	42.1	35.4	30.3	26.9	23.6	23.6	21.9
47.5°	1495.7	992.1	75.8	48.8	38.7	32.0	26.9	23.6	21.9	20.2	20.2
50°	1627.1	1047.7	70.7	45.5	35.4	30.3	25.3	21.9	18.5	16.8	16.8
52.5°	1745.0	1099.9	67.4	42.1	33.7	26.9	21.9	18.5	16.8	15.2	15.2
55°	1807.3	1123.4	65.7	40.4	30.3	25.3	20.2	16.8	15.2	13.5	13.5
57.5°	1905.0	1153.8	64.0	38.7	28.6	21.9	18.5	15.2	13.5	11.8	11.8
60°	2063.3	1253.1	62.3	37.1	26.9	21.9	16.8	13.5	10.1	8.4	8.4
62.5°	2194.7	1335.7	55.6	32.0	23.6	18.5	13.5	10.1	6.7	5.1	5.1
65°	2344.6	1374.4	48.8	28.6	20.2	15.2	10.1	6.7	5.1	1.7	1.7
67.5°	2508.0	1433.4	40.4	25.3	18.5	11.8	8.4	5.1	1.7	0.0	0.0
70°	2422.1	1359.3	33.7	21.9	16.8	10.1	6.7	3.4	0.0	0.0	0.0
72.5°	1898.2	973.5	26.9	20.2	15.2	10.1	6.7	1.7	0.0	0.0	0.0
75°	1268.3	550.8	23.6	16.8	11.8	8.4	5.1	1.7	0.0	0.0	0.0
77.5°	688.9	247.6	20.2	15.2	10.1	6.7	5.1	1.7	0.0	0.0	0.0
80°	224.0	97.7	16.8	13.5	10.1	6.7	5.1	1.7	0.0	0.0	0.0
82.5°	60.6	30.3	16.8	13.5	10.1	6.7	5.1	1.7	0.0	0.0	0.0
85°	25.3	20.2	16.8	13.5	10.1	6.7	5.1	1.7	0.0	0.0	0.0
87.5°	10.1	6.7	6.7	8.4	6.7	5.1	3.4	1.7	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: P676247
 CATALOG NUMBER: CCW-SA-2A-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7
2.5°	469.9	473.3	475.0	475.0	483.4	491.8	501.9	510.4	510.4	515.4	520.5
5°	412.7	416.0	421.1	436.2	453.1	471.6	490.1	503.6	522.1	530.6	535.6
7.5°	365.5	368.9	382.3	397.5	421.1	453.1	485.1	515.4	533.9	542.4	549.1
10°	316.7	321.7	336.9	363.8	394.1	432.9	469.9	522.1	552.5	569.3	576.0
12.5°	245.9	259.4	279.6	308.2	347.0	405.9	475.0	528.9	581.1	601.3	614.8
15°	155.0	166.7	198.8	244.2	296.4	365.5	461.5	539.0	611.4	631.6	653.5
17.5°	99.4	101.1	111.2	160.0	227.4	315.0	441.3	554.1	645.1	673.7	707.4
20°	84.2	87.6	89.3	96.0	151.6	259.4	399.2	572.7	685.5	724.3	756.3
22.5°	70.7	72.4	75.8	80.8	91.0	188.6	341.9	572.7	720.9	778.2	815.2
25°	57.3	60.6	64.0	69.1	79.2	117.9	283.0	562.6	763.0	833.7	880.9
27.5°	50.5	50.5	53.9	59.0	67.4	82.5	224.0	532.2	795.0	867.4	929.7
30°	43.8	45.5	47.2	52.2	60.6	72.4	155.0	483.4	828.7	933.1	1003.9
32.5°	38.7	38.7	42.1	45.5	53.9	65.7	99.4	409.3	872.5	983.6	1083.0
35°	35.4	35.4	37.1	40.4	48.8	59.0	77.5	347.0	924.7	1079.7	1189.1
37.5°	32.0	32.0	33.7	37.1	43.8	52.2	70.7	298.1	978.6	1175.7	1335.7
40°	28.6	28.6	30.3	33.7	38.7	47.2	64.0	240.9	1046.0	1317.1	1495.7
42.5°	25.3	25.3	26.9	30.3	35.4	42.1	55.6	180.2	1135.2	1470.4	1702.9
45°	21.9	21.9	23.6	26.9	30.3	38.7	50.5	138.1	1232.9	1640.5	1884.8
47.5°	18.5	20.2	21.9	25.3	28.6	35.4	45.5	121.3	1328.9	1820.8	2086.9
50°	16.8	16.8	18.5	21.9	26.9	32.0	42.1	119.6	1426.6	1958.9	2294.1
52.5°	15.2	15.2	16.8	20.2	25.3	30.3	40.4	123.0	1507.5	2086.9	2438.9
55°	13.5	13.5	15.2	16.8	21.9	28.6	37.1	126.3	1564.7	2216.6	2555.1
57.5°	11.8	11.8	13.5	16.8	20.2	25.3	33.7	129.7	1657.4	2344.6	2723.6
60°	8.4	8.4	11.8	15.2	18.5	21.9	32.0	133.1	1805.6	2521.4	2866.7
62.5°	5.1	5.1	6.7	11.8	15.2	20.2	28.6	126.3	1943.7	2748.8	3085.7
65°	1.7	3.4	5.1	6.7	11.8	16.8	23.6	114.5	2059.9	2976.2	3287.8
67.5°	0.0	0.0	1.7	5.1	10.1	13.5	20.2	84.2	2078.5	3078.9	3495.0
70°	0.0	0.0	1.7	5.1	8.4	13.5	18.5	47.2	1770.2	2750.5	3203.6
72.5°	0.0	0.0	0.0	3.4	8.4	11.8	16.8	35.4	1305.4	2073.4	2531.5
75°	0.0	0.0	0.0	1.7	6.7	10.1	15.2	26.9	793.3	1382.8	1652.3
77.5°	0.0	0.0	0.0	1.7	5.1	10.1	15.2	23.6	279.6	658.6	776.5
80°	0.0	0.0	0.0	3.4	6.7	10.1	13.5	20.2	67.4	165.1	222.3
82.5°	0.0	0.0	0.0	1.7	5.1	8.4	11.8	16.8	26.9	48.8	77.5
85°	0.0	0.0	0.0	1.7	3.4	8.4	11.8	15.2	18.5	23.6	33.7
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	5.1	6.7	6.7	6.7	11.8
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: P676247
 CATALOG NUMBER: CCW-SA-2A-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7
2.5°	518.8	525.5	528.9	535.6	539.0	537.3	535.6	540.7	537.3	532.2
5°	537.3	537.3	542.4	544.0	544.0	539.0	542.4	540.7	537.3	537.3
7.5°	557.5	565.9	565.9	555.8	554.1	550.8	550.8	537.3	532.2	537.3
10°	577.7	584.5	586.1	574.4	559.2	552.5	544.0	527.2	518.8	522.1
12.5°	619.8	619.8	601.3	587.8	567.6	544.0	523.8	500.2	488.5	491.8
15°	650.1	656.9	631.6	601.3	565.9	522.1	500.2	481.7	475.0	469.9
17.5°	709.1	695.6	655.2	611.4	560.9	515.4	500.2	483.4	478.3	478.3
20°	759.6	752.9	692.3	613.1	559.2	528.9	518.8	510.4	508.7	503.6
22.5°	828.7	798.4	720.9	631.6	577.7	550.8	547.4	555.8	550.8	547.4
25°	880.9	855.6	742.8	658.6	606.4	597.9	603.0	611.4	597.9	592.9
27.5°	951.6	904.5	784.9	693.9	645.1	653.5	670.4	672.0	663.6	668.7
30°	1017.3	966.8	816.9	734.4	710.8	719.2	744.5	763.0	751.2	744.5
32.5°	1111.7	1034.2	880.9	801.7	793.3	815.2	843.8	855.6	840.5	837.1
35°	1211.0	1111.7	946.6	877.5	892.7	923.0	948.3	968.5	944.9	955.0
37.5°	1366.0	1236.3	1057.8	997.1	1003.9	1015.6	1062.8	1118.4	1130.2	1110.0
40°	1527.7	1371.0	1160.5	1113.3	1128.5	1160.5	1216.1	1268.3	1295.2	1268.3
42.5°	1714.6	1500.7	1318.8	1263.2	1278.4	1323.9	1398.0	1440.1	1436.7	1396.3
45°	1945.4	1681.0	1467.0	1398.0	1453.6	1494.0	1568.1	1573.2	1541.2	1531.1
47.5°	2122.2	1832.5	1627.1	1583.3	1659.1	1660.7	1677.6	1679.3	1643.9	1632.1
50°	2317.6	2007.7	1805.6	1741.6	1869.6	1810.6	1765.2	1734.9	1681.0	1655.7
52.5°	2509.6	2132.4	1970.7	1905.0	2038.0	1881.4	1798.9	1706.2	1627.1	1600.1
55°	2612.4	2337.8	2211.5	2058.2	2075.1	1901.6	1694.4	1578.2	1443.5	1436.7
57.5°	2733.7	2476.0	2415.3	2162.7	2012.8	1760.1	1477.2	1323.9	1179.0	1162.2
60°	2876.8	2694.9	2630.9	2145.8	1792.1	1478.8	1170.6	973.5	837.1	825.3
62.5°	3036.8	2954.3	2764.0	1980.8	1423.3	1040.9	773.1	608.0	481.7	475.0
65°	3289.5	3171.6	2834.7	1667.5	941.5	667.0	513.7	394.1	318.3	315.0
67.5°	3447.8	3254.1	2676.4	1189.1	522.1	441.3	360.4	286.3	220.6	207.2
70°	3223.8	2986.3	2117.2	680.5	303.2	335.2	277.9	192.0	151.6	148.2
72.5°	2575.3	2216.6	1424.9	320.0	188.6	262.8	202.1	129.7	91.0	87.6
75°	1756.8	1394.6	894.4	148.2	133.1	192.0	148.2	75.8	64.0	64.0
77.5°	784.9	710.8	458.1	91.0	99.4	146.5	85.9	52.2	47.2	45.5
80°	239.2	251.0	187.0	62.3	74.1	111.2	52.2	35.4	28.6	26.9
82.5°	80.8	94.3	84.2	37.1	50.5	79.2	35.4	23.6	20.2	20.2
85°	38.7	47.2	42.1	23.6	26.9	38.7	28.6	18.5	11.8	11.8
87.5°	15.2	21.9	15.2	10.1	15.2	20.2	11.8	8.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)