

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: P676291

Luminaire Tested: **CCW-SA-2A-750-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676291
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-750-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) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

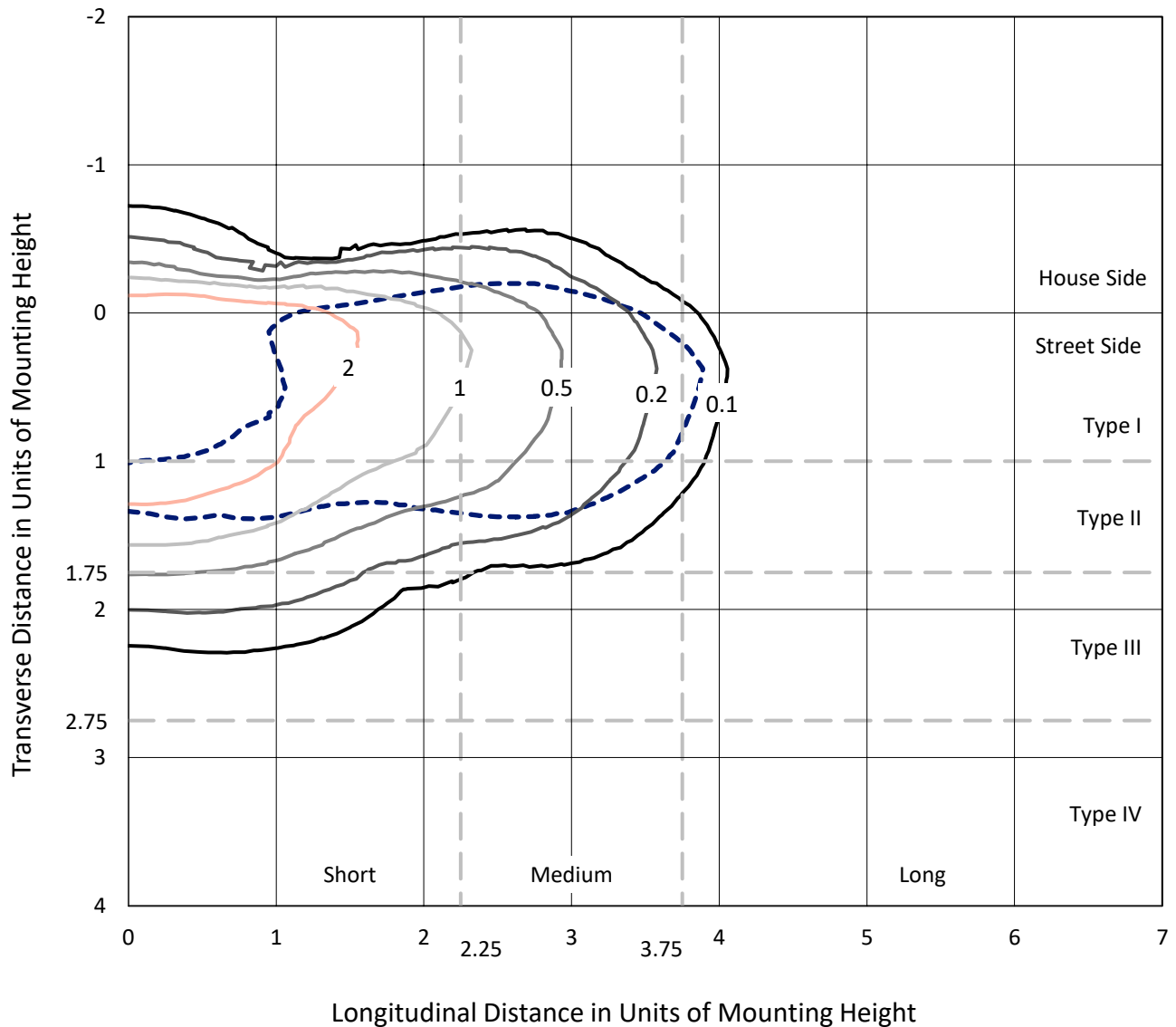
Lumens per Lamp: N/A
Luminaire Lumens: 4321 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (A_{in}): 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: P676291
 CATALOG NUMBER: CCW-SA-2A-750-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

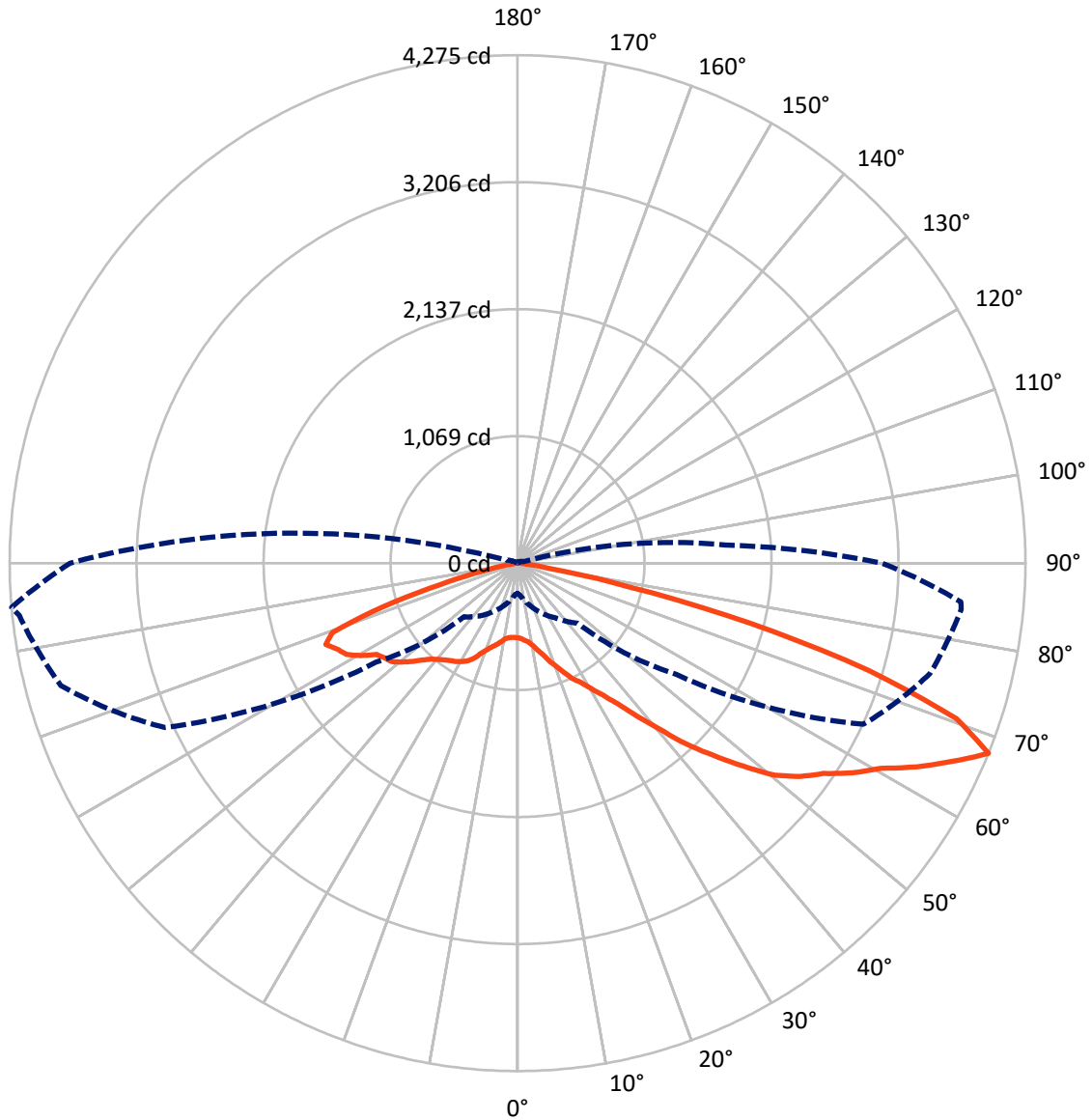
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

REPORT NUMBER: P676291
CATALOG NUMBER: CCW-SA-2A-750-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676291
 CATALOG NUMBER: CCW-SA-2A-750-U-T2-HSS

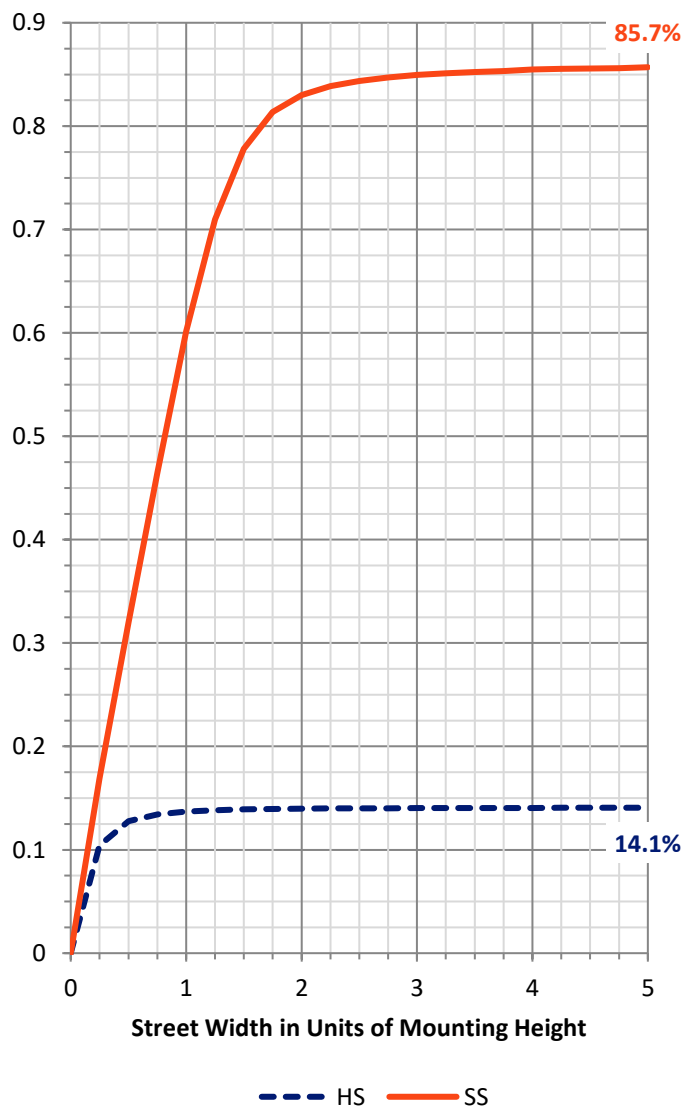
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	613.9	0.0	613.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3707.2	0.0	3707.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	4321.0	0.0	4321.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	1.3
10°-20°	154.1	3.6
20°-30°	255.9	5.9
30°-40°	440.2	10.2
40°-50°	791.1	18.3
50°-60°	1126.1	26.1
60°-70°	1026.7	23.8
70°-80°	437.2	10.1
80°-90°	32.5	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°	4321.0	100.0
0°-180°	4321.0	100.0



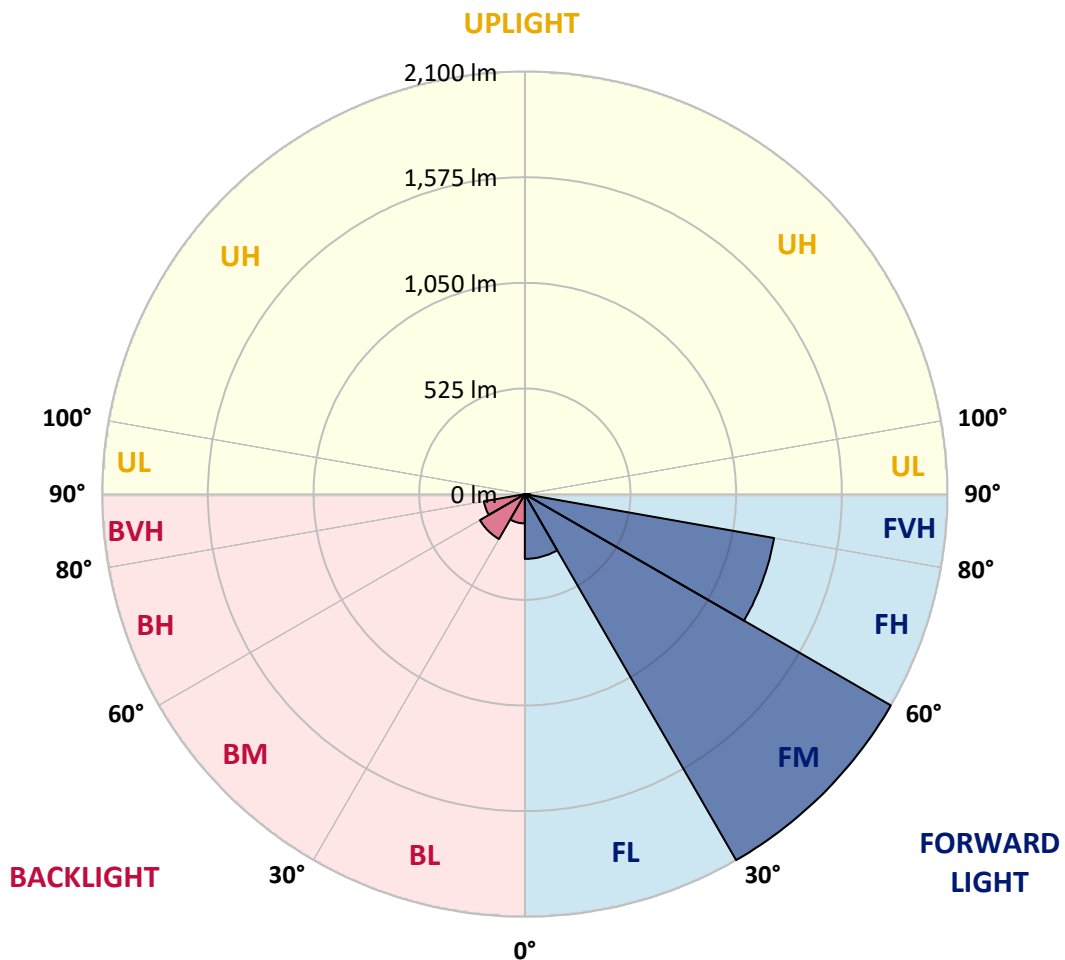
REPORT NUMBER: P676291
 CATALOG NUMBER: CCW-SA-2A-750-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	321.9	7.4			
FM (30°-60°)	2100.0	48.6			
FH (60°-80°)	1257.6	29.1			G1/1800
FVH (80°-90°)	27.6	0.6			G1/100
BL (0°-30°)	145.3	3.4	B1/500		
BM (30°-60°)	257.4	6.0	B1/1000		
BH (60°-80°)	206.3	4.8	B1/500		G1/500
BVH (80°-90°)	4.9	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: P676291

CATALOG NUMBER: CCW-SA-2A-750-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3
2.5°	651.0	657.2	657.2	655.1	648.9	644.8	642.8	638.6	634.5	634.5	636.6
5°	657.2	651.0	659.2	648.9	648.9	648.9	657.2	653.1	651.0	640.7	640.7
7.5°	657.2	651.0	651.0	657.2	651.0	655.1	665.4	661.3	669.5	651.0	655.1
10°	638.6	636.6	640.7	648.9	651.0	659.2	669.5	690.1	692.2	679.8	677.8
12.5°	601.6	599.5	613.9	618.0	642.8	663.4	694.3	710.7	729.3	723.1	710.7
15°	574.8	578.9	589.2	605.7	628.3	665.4	700.4	737.5	770.5	762.3	758.1
17.5°	585.1	583.0	585.1	595.4	624.2	661.3	721.0	764.3	811.7	811.7	815.8
20°	616.0	622.2	620.1	613.9	628.3	659.2	721.0	797.3	875.6	869.4	869.4
22.5°	669.5	671.6	659.2	655.1	653.1	671.6	733.4	838.5	929.1	941.5	937.4
25°	725.2	727.2	723.1	710.7	694.3	698.4	756.1	871.4	1003.3	1023.9	1019.8
27.5°	817.9	815.8	805.5	791.1	766.4	747.8	791.1	896.2	1061.0	1096.0	1085.7
30°	910.6	904.4	890.0	871.4	848.8	813.8	834.4	943.5	1133.1	1166.0	1143.4
32.5°	1023.9	1011.5	1015.6	986.8	939.4	883.8	879.7	986.8	1190.8	1238.1	1219.6
35°	1168.1	1153.7	1133.1	1106.3	1061.0	986.8	964.1	1056.9	1287.6	1322.6	1322.6
37.5°	1357.6	1372.1	1347.3	1236.1	1186.6	1116.6	1069.2	1129.0	1372.1	1456.5	1435.9
40°	1551.3	1563.6	1518.3	1435.9	1328.8	1242.3	1213.4	1246.4	1499.8	1600.7	1561.6
42.5°	1707.9	1724.3	1707.9	1600.7	1516.3	1405.0	1353.5	1384.4	1664.6	1786.1	1734.6
45°	1872.7	1889.1	1870.6	1800.6	1718.2	1654.3	1524.5	1563.6	1837.6	2018.9	1961.3
47.5°	1996.3	2016.9	1983.9	1969.5	1903.6	1893.3	1672.8	1716.1	2018.9	2253.8	2181.7
50°	2025.1	2047.8	2076.6	2093.1	2070.4	2095.2	1872.7	1909.8	2208.5	2470.1	2400.1
52.5°	1957.1	1979.8	2043.7	2119.9	2225.0	2299.1	2074.6	2105.5	2406.2	2649.3	2612.3
55°	1757.3	1777.9	1907.7	2010.7	2262.0	2383.6	2268.2	2398.0	2548.4	2836.8	2746.2
57.5°	1421.5	1446.2	1617.2	1775.8	2138.4	2336.2	2383.6	2641.1	2783.3	2974.8	2869.8
60°	1009.5	1023.9	1172.2	1452.4	1796.4	2099.3	2360.9	2822.4	2968.7	3160.3	3104.6
62.5°	581.0	593.3	747.8	1011.5	1355.6	1753.2	2260.0	2993.4	3168.5	3364.2	3333.3
65°	385.2	389.4	494.4	638.6	881.7	1291.7	2004.5	3145.8	3366.3	3527.0	3491.9
67.5°	253.4	276.1	358.5	457.4	564.5	714.9	1633.7	3209.7	3592.9	3753.6	3745.3
70°	181.3	189.5	257.5	352.3	424.4	401.7	955.9	2758.5	3582.6	3815.4	3747.4
72.5°	107.1	115.4	171.0	263.7	333.7	255.5	447.1	1951.0	2968.7	3044.9	3026.3
75°	78.3	78.3	105.1	189.5	243.1	183.4	210.1	1234.0	1971.6	2140.5	2138.4
77.5°	55.6	57.7	72.1	113.3	187.5	133.9	115.4	686.0	1077.5	1178.4	1122.8
80°	33.0	35.0	49.4	68.0	136.0	96.8	76.2	313.1	414.1	418.2	397.6
82.5°	24.7	24.7	33.0	47.4	94.8	65.9	47.4	119.5	133.9	121.5	103.0
85°	14.4	12.4	24.7	35.0	55.6	37.1	33.0	55.6	61.8	45.3	41.2
87.5°	4.1	4.1	10.3	12.4	24.7	20.6	14.4	20.6	28.8	16.5	12.4
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: P676291
 CATALOG NUMBER: CCW-SA-2A-750-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3
2.5°	632.5	626.3	616.0	611.9	597.4	591.3	587.1	576.8	578.9	572.7	572.7
5°	626.3	626.3	605.7	583.0	560.4	545.9	529.5	508.9	508.9	500.6	502.7
7.5°	648.9	632.5	605.7	564.5	527.4	494.4	480.0	459.4	447.1	440.9	440.9
10°	663.4	646.9	601.6	552.1	504.7	463.5	432.6	403.8	387.3	387.3	385.2
12.5°	702.5	677.8	618.0	550.1	480.0	418.2	370.8	337.9	315.2	298.7	302.8
15°	735.5	708.7	626.3	533.6	436.7	350.2	292.5	230.7	199.8	183.4	177.2
17.5°	787.0	737.5	644.8	504.7	370.8	274.0	189.5	138.0	125.7	123.6	123.6
20°	830.2	772.6	646.9	449.1	304.9	175.1	121.5	113.3	107.1	105.1	103.0
22.5°	890.0	817.9	638.6	385.2	218.4	117.4	103.0	94.8	90.6	84.5	84.5
25°	951.8	877.6	622.2	325.5	133.9	100.9	90.6	82.4	74.2	70.0	72.1
27.5°	1017.7	922.9	574.8	253.4	103.0	88.6	74.2	68.0	63.9	61.8	61.8
30°	1071.3	951.8	504.7	168.9	92.7	78.3	65.9	59.7	55.6	53.6	53.6
32.5°	1110.4	976.5	426.4	113.3	84.5	70.0	59.7	53.6	49.4	47.4	47.4
35°	1176.3	995.0	354.3	96.8	76.2	61.8	51.5	47.4	43.3	43.3	43.3
37.5°	1277.3	1019.8	282.2	88.6	70.0	55.6	49.4	43.3	41.2	39.1	39.1
40°	1365.9	1050.7	201.9	80.3	63.9	51.5	43.3	39.1	37.1	35.0	35.0
42.5°	1493.6	1085.7	131.8	72.1	57.7	47.4	39.1	35.0	33.0	30.9	30.9
45°	1656.4	1143.4	103.0	63.9	51.5	43.3	37.1	33.0	28.8	28.8	26.8
47.5°	1829.4	1213.4	92.7	59.7	47.4	39.1	33.0	28.8	26.8	24.7	24.7
50°	1990.1	1281.4	86.5	55.6	43.3	37.1	30.9	26.8	22.7	20.6	20.6
52.5°	2134.3	1345.3	82.4	51.5	41.2	33.0	26.8	22.7	20.6	18.5	18.5
55°	2210.5	1374.1	80.3	49.4	37.1	30.9	24.7	20.6	18.5	16.5	16.5
57.5°	2330.0	1411.2	78.3	47.4	35.0	26.8	22.7	18.5	16.5	14.4	14.4
60°	2523.7	1532.7	76.2	45.3	33.0	26.8	20.6	16.5	12.4	10.3	10.3
62.5°	2684.4	1633.7	68.0	39.1	28.8	22.7	16.5	12.4	8.2	6.2	6.2
65°	2867.7	1681.1	59.7	35.0	24.7	18.5	12.4	8.2	6.2	2.1	2.1
67.5°	3067.6	1753.2	49.4	30.9	22.7	14.4	10.3	6.2	2.1	0.0	0.0
70°	2962.5	1662.5	41.2	26.8	20.6	12.4	8.2	4.1	0.0	0.0	0.0
72.5°	2321.8	1190.8	33.0	24.7	18.5	12.4	8.2	2.1	0.0	0.0	0.0
75°	1551.3	673.7	28.8	20.6	14.4	10.3	6.2	2.1	0.0	0.0	0.0
77.5°	842.6	302.8	24.7	18.5	12.4	8.2	6.2	2.1	0.0	0.0	0.0
80°	274.0	119.5	20.6	16.5	12.4	8.2	6.2	2.1	0.0	0.0	0.0
82.5°	74.2	37.1	20.6	16.5	12.4	8.2	6.2	2.1	0.0	0.0	0.0
85°	30.9	24.7	20.6	16.5	12.4	8.2	6.2	2.1	0.0	0.0	0.0
87.5°	12.4	8.2	8.2	10.3	8.2	6.2	4.1	2.1	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: P676291
 CATALOG NUMBER: CCW-SA-2A-750-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3
2.5°	574.8	578.9	581.0	581.0	591.3	601.6	613.9	624.2	624.2	630.4	636.6
5°	504.7	508.9	515.0	533.6	554.2	576.8	599.5	616.0	638.6	648.9	655.1
7.5°	447.1	451.2	467.7	486.2	515.0	554.2	593.3	630.4	653.1	663.4	671.6
10°	387.3	393.5	412.0	445.0	482.1	529.5	574.8	638.6	675.7	696.3	704.6
12.5°	300.8	317.3	342.0	377.0	424.4	496.5	581.0	646.9	710.7	735.5	752.0
15°	189.5	204.0	243.1	298.7	362.6	447.1	564.5	659.2	747.8	772.6	799.3
17.5°	121.5	123.6	136.0	195.7	278.1	385.2	539.8	677.8	789.0	824.1	865.3
20°	103.0	107.1	109.2	117.4	185.4	317.3	488.3	700.4	838.5	885.9	925.0
22.5°	86.5	88.6	92.7	98.9	111.2	230.7	418.2	700.4	881.7	951.8	997.1
25°	70.0	74.2	78.3	84.5	96.8	144.2	346.1	688.1	933.2	1019.8	1077.5
27.5°	61.8	61.8	65.9	72.1	82.4	100.9	274.0	651.0	972.4	1061.0	1137.2
30°	53.6	55.6	57.7	63.9	74.2	88.6	189.5	591.3	1013.6	1141.3	1227.8
32.5°	47.4	47.4	51.5	55.6	65.9	80.3	121.5	500.6	1067.2	1203.1	1324.7
35°	43.3	43.3	45.3	49.4	59.7	72.1	94.8	424.4	1131.0	1320.6	1454.5
37.5°	39.1	39.1	41.2	45.3	53.6	63.9	86.5	364.6	1196.9	1438.0	1633.7
40°	35.0	35.0	37.1	41.2	47.4	57.7	78.3	294.6	1279.3	1611.0	1829.4
42.5°	30.9	30.9	33.0	37.1	43.3	51.5	68.0	220.4	1388.5	1798.5	2082.8
45°	26.8	26.8	28.8	33.0	37.1	47.4	61.8	168.9	1508.0	2006.6	2305.3
47.5°	22.7	24.7	26.8	30.9	35.0	43.3	55.6	148.3	1625.5	2227.0	2552.5
50°	20.6	20.6	22.7	26.8	33.0	39.1	51.5	146.3	1744.9	2395.9	2805.9
52.5°	18.5	18.5	20.6	24.7	30.9	37.1	49.4	150.4	1843.8	2552.5	2983.1
55°	16.5	16.5	18.5	20.6	26.8	35.0	45.3	154.5	1913.9	2711.1	3125.2
57.5°	14.4	14.4	16.5	20.6	24.7	30.9	41.2	158.6	2027.2	2867.7	3331.2
60°	10.3	10.3	14.4	18.5	22.7	26.8	39.1	162.8	2208.5	3084.0	3506.4
62.5°	6.2	6.2	8.2	14.4	18.5	24.7	35.0	154.5	2377.4	3362.2	3774.2
65°	2.1	4.1	6.2	8.2	14.4	20.6	28.8	140.1	2519.6	3640.3	4021.4
67.5°	0.0	0.0	2.1	6.2	12.4	16.5	24.7	103.0	2542.2	3765.9	4274.8
70°	0.0	0.0	2.1	6.2	10.3	16.5	22.7	57.7	2165.2	3364.2	3918.4
72.5°	0.0	0.0	0.0	4.1	10.3	14.4	20.6	43.3	1596.6	2536.0	3096.4
75°	0.0	0.0	0.0	2.1	8.2	12.4	18.5	33.0	970.3	1691.4	2021.0
77.5°	0.0	0.0	0.0	2.1	6.2	12.4	18.5	28.8	342.0	805.5	949.7
80°	0.0	0.0	0.0	4.1	8.2	12.4	16.5	24.7	82.4	201.9	271.9
82.5°	0.0	0.0	0.0	2.1	6.2	10.3	14.4	20.6	33.0	59.7	94.8
85°	0.0	0.0	0.0	2.1	4.1	10.3	14.4	18.5	22.7	28.8	41.2
87.5°	0.0	0.0	0.0	0.0	2.1	4.1	6.2	8.2	8.2	8.2	14.4
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: P676291
 CATALOG NUMBER: CCW-SA-2A-750-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3
2.5°	634.5	642.8	646.9	655.1	659.2	657.2	655.1	661.3	657.2	651.0
5°	657.2	657.2	663.4	665.4	665.4	659.2	663.4	661.3	657.2	657.2
7.5°	681.9	692.2	692.2	679.8	677.8	673.7	673.7	657.2	651.0	657.2
10°	706.6	714.9	716.9	702.5	684.0	675.7	665.4	644.8	634.5	638.6
12.5°	758.1	758.1	735.5	719.0	694.3	665.4	640.7	611.9	597.4	601.6
15°	795.2	803.5	772.6	735.5	692.2	638.6	611.9	589.2	581.0	574.8
17.5°	867.3	850.8	801.4	747.8	686.0	630.4	611.9	591.3	585.1	585.1
20°	929.1	920.9	846.7	749.9	684.0	646.9	634.5	624.2	622.2	616.0
22.5°	1013.6	976.5	881.7	772.6	706.6	673.7	669.5	679.8	673.7	669.5
25°	1077.5	1046.6	908.5	805.5	741.7	731.4	737.5	747.8	731.4	725.2
27.5°	1164.0	1106.3	960.0	848.8	789.0	799.3	819.9	822.0	811.7	817.9
30°	1244.3	1182.5	999.2	898.2	869.4	879.7	910.6	933.2	918.8	910.6
32.5°	1359.7	1264.9	1077.5	980.6	970.3	997.1	1032.1	1046.6	1028.0	1023.9
35°	1481.2	1359.7	1157.8	1073.3	1091.9	1129.0	1159.9	1184.6	1155.7	1168.1
37.5°	1670.8	1512.1	1293.8	1219.6	1227.8	1242.3	1299.9	1367.9	1382.4	1357.6
40°	1868.5	1677.0	1419.4	1361.8	1380.3	1419.4	1487.4	1551.3	1584.2	1551.3
42.5°	2097.2	1835.6	1613.1	1545.1	1563.6	1619.3	1709.9	1761.4	1757.3	1707.9
45°	2379.5	2056.0	1794.4	1709.9	1777.9	1827.3	1918.0	1924.2	1885.0	1872.7
47.5°	2595.8	2241.4	1990.1	1936.5	2029.2	2031.3	2051.9	2054.0	2010.7	1996.3
50°	2834.8	2455.7	2208.5	2130.2	2286.8	2214.7	2159.0	2121.9	2056.0	2025.1
52.5°	3069.6	2608.1	2410.4	2330.0	2492.8	2301.2	2200.2	2086.9	1990.1	1957.1
55°	3195.3	2859.5	2705.0	2517.5	2538.1	2325.9	2072.5	1930.4	1765.5	1757.3
57.5°	3343.6	3028.4	2954.2	2645.2	2461.9	2152.8	1806.7	1619.3	1442.1	1421.5
60°	3518.7	3296.2	3217.9	2624.6	2192.0	1808.8	1431.8	1190.8	1023.9	1009.5
62.5°	3714.4	3613.5	3380.7	2422.7	1740.8	1273.2	945.6	743.7	589.2	581.0
65°	4023.5	3879.2	3467.2	2039.5	1151.6	815.8	628.3	482.1	389.4	385.2
67.5°	4217.1	3980.2	3273.6	1454.5	638.6	539.8	440.9	350.2	269.9	253.4
70°	3943.1	3652.6	2589.6	832.3	370.8	410.0	339.9	234.9	185.4	181.3
72.5°	3150.0	2711.1	1742.9	391.4	230.7	321.4	247.2	158.6	111.2	107.1
75°	2148.7	1705.8	1093.9	181.3	162.8	234.9	181.3	92.7	78.3	78.3
77.5°	960.0	869.4	560.4	111.2	121.5	179.2	105.1	63.9	57.7	55.6
80°	292.5	307.0	228.7	76.2	90.6	136.0	63.9	43.3	35.0	33.0
82.5°	98.9	115.4	103.0	45.3	61.8	96.8	43.3	28.8	24.7	24.7
85°	47.4	57.7	51.5	28.8	33.0	47.4	35.0	22.7	14.4	14.4
87.5°	18.5	26.8	18.5	12.4	18.5	24.7	14.4	10.3	4.1	4.1
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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