

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: P676251

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676251
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-727-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

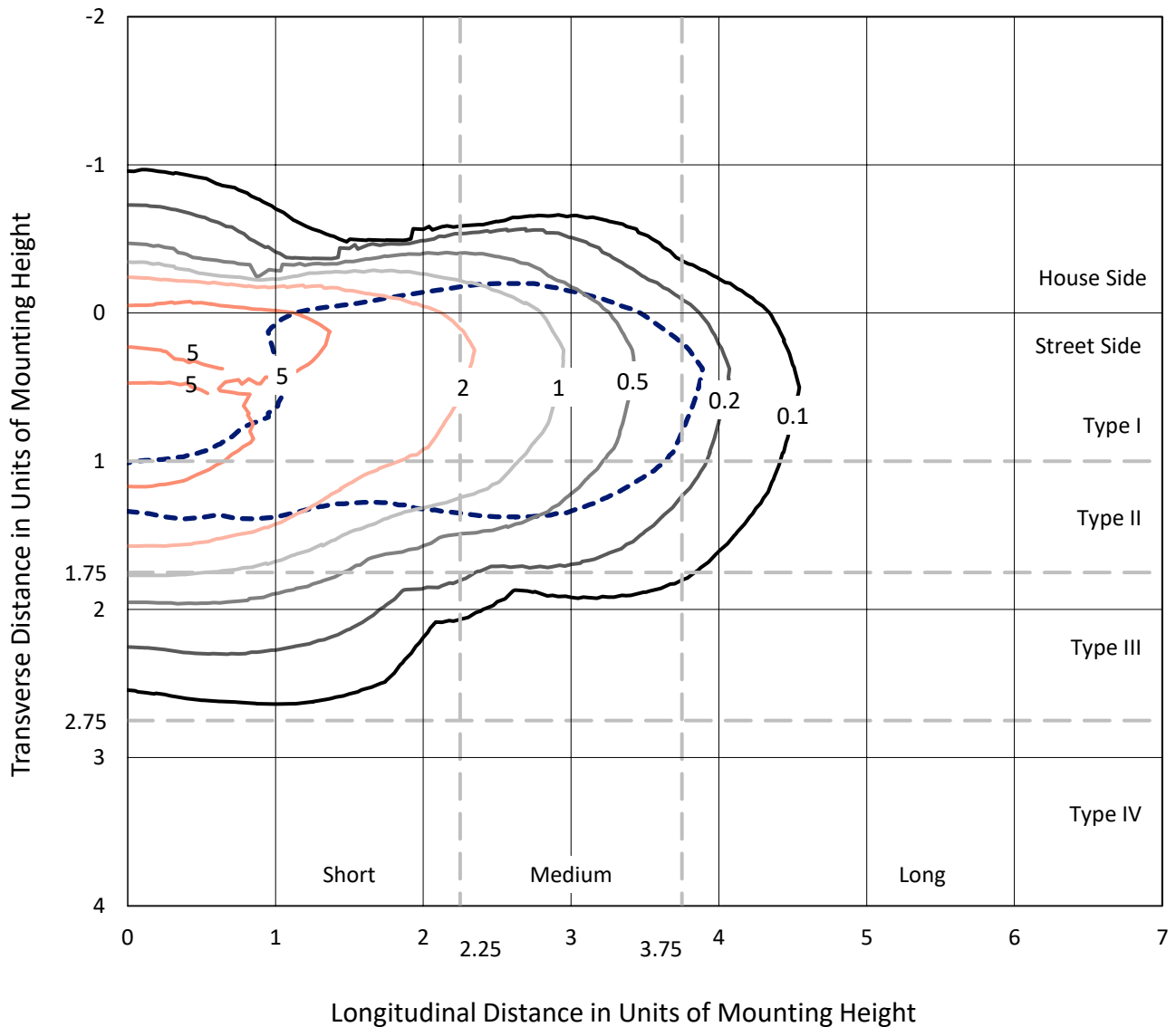
Lumens per Lamp: N/A
Luminaire Lumens: 8828.1 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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: P676251
 CATALOG NUMBER: CCW-SA-2E-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

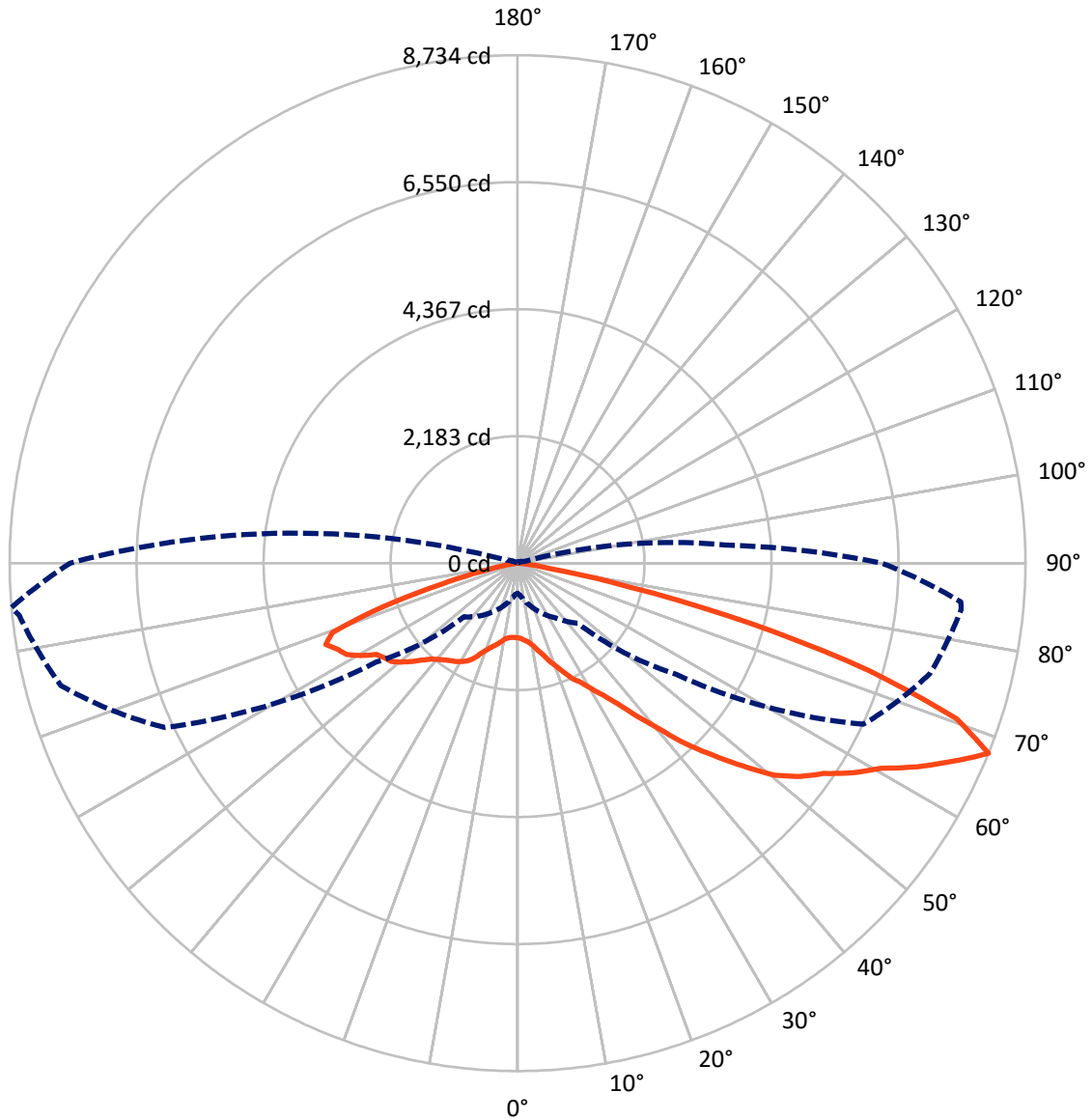
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

REPORT NUMBER: P676251
CATALOG NUMBER: CCW-SA-2E-727-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676251
 CATALOG NUMBER: CCW-SA-2E-727-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1254.2	0.0	1254.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	7573.9	0.0	7573.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	8828.1	0.0	8828.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	1.3
10°-20°	314.8	3.6
20°-30°	522.7	5.9
30°-40°	899.4	10.2
40°-50°	1616.2	18.3
50°-60°	2300.8	26.1
60°-70°	2097.6	23.8
70°-80°	893.2	10.1
80°-90°	66.5	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°	8828.1	100.0
0°-180°	8828.1	100.0



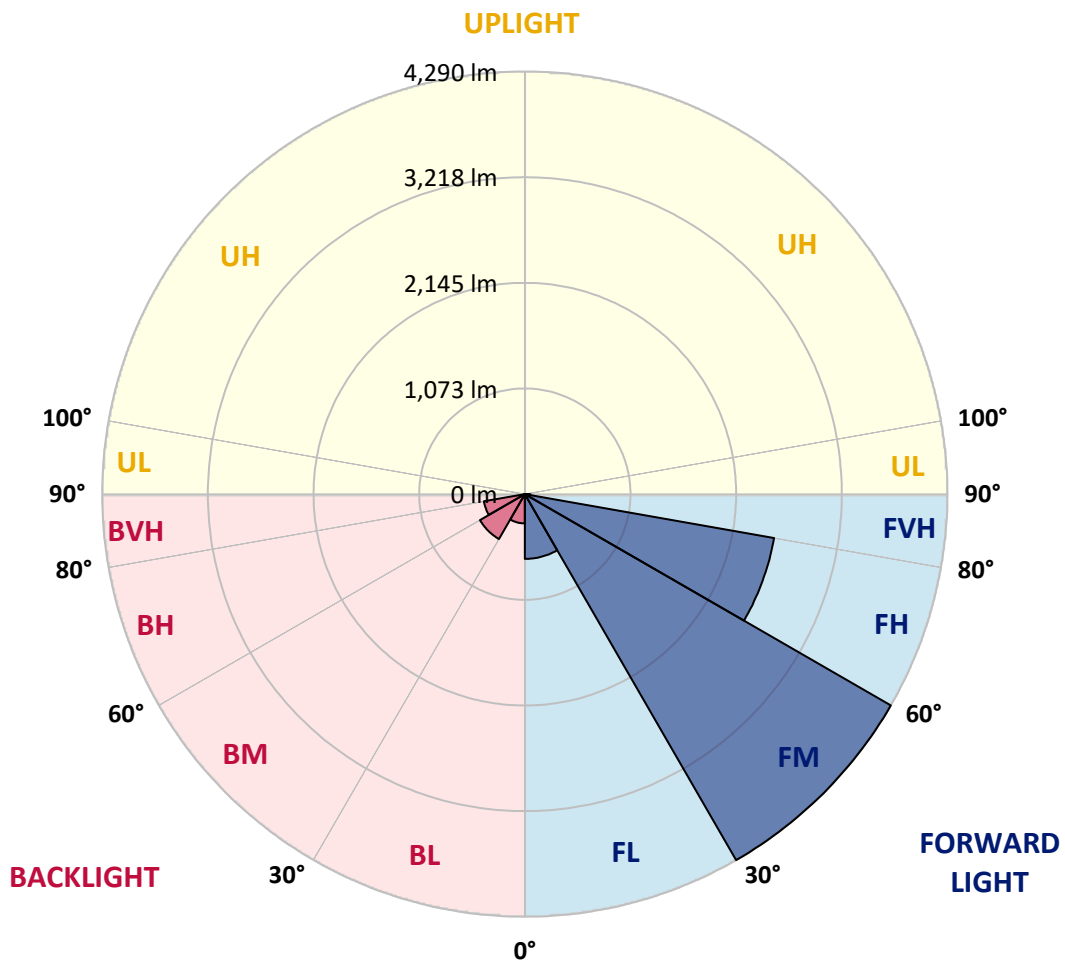
REPORT NUMBER: P676251
 CATALOG NUMBER: CCW-SA-2E-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.7	7.4			
FM (30°-60°)	4290.5	48.6			
FH (60°-80°)	2569.3	29.1			G2/5000
FVH (80°-90°)	56.5	0.6			G1/100
BL (0°-30°)	296.9	3.4	B1/500		
BM (30°-60°)	525.8	6.0	B1/1000		
BH (60°-80°)	421.4	4.8	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P676251

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7
2.5°	1330.0	1342.7	1342.7	1338.4	1325.8	1317.4	1313.2	1304.8	1296.4	1296.4	1300.6
5°	1342.7	1330.0	1346.9	1325.8	1325.8	1325.8	1342.7	1334.2	1330.0	1309.0	1309.0
7.5°	1342.7	1330.0	1330.0	1342.7	1330.0	1338.4	1359.5	1351.1	1367.9	1330.0	1338.4
10°	1304.8	1300.6	1309.0	1325.8	1330.0	1346.9	1367.9	1410.0	1414.2	1389.0	1384.7
12.5°	1229.0	1224.8	1254.3	1262.7	1313.2	1355.3	1418.4	1452.1	1490.0	1477.3	1452.1
15°	1174.3	1182.7	1203.8	1237.4	1283.7	1359.5	1431.0	1506.8	1574.2	1557.3	1548.9
17.5°	1195.3	1191.1	1195.3	1216.4	1275.3	1351.1	1473.1	1561.5	1658.3	1658.3	1666.7
20°	1258.5	1271.1	1266.9	1254.3	1283.7	1346.9	1473.1	1628.9	1788.8	1776.2	1776.2
22.5°	1367.9	1372.1	1346.9	1338.4	1334.2	1372.1	1498.4	1713.0	1898.2	1923.5	1915.1
25°	1481.6	1485.8	1477.3	1452.1	1418.4	1426.8	1544.7	1780.4	2049.8	2091.9	2083.4
27.5°	1671.0	1666.7	1645.7	1616.2	1565.7	1527.9	1616.2	1830.9	2167.6	2239.2	2218.1
30°	1860.4	1847.7	1818.3	1780.4	1734.1	1662.5	1704.6	1927.7	2314.9	2382.3	2336.0
32.5°	2091.9	2066.6	2075.0	2016.1	1919.3	1805.6	1797.2	2016.1	2432.8	2529.6	2491.7
35°	2386.5	2357.0	2314.9	2260.2	2167.6	2016.1	1969.8	2159.2	2630.6	2702.2	2702.2
37.5°	2773.7	2803.2	2752.7	2525.4	2424.4	2281.3	2184.5	2306.5	2803.2	2975.7	2933.6
40°	3169.3	3194.6	3102.0	2933.6	2714.8	2538.0	2479.1	2546.4	3064.1	3270.4	3190.4
42.5°	3489.2	3522.9	3489.2	3270.4	3097.8	2870.5	2765.3	2828.4	3400.8	3649.2	3543.9
45°	3825.9	3859.6	3821.7	3678.6	3510.3	3379.8	3114.6	3194.6	3754.4	4124.8	4006.9
47.5°	4078.5	4120.6	4053.2	4023.8	3889.1	3868.0	3417.7	3506.1	4124.8	4604.6	4457.3
50°	4137.4	4183.7	4242.6	4276.3	4230.0	4280.5	3825.9	3901.7	4512.0	5046.5	4903.4
52.5°	3998.5	4044.8	4175.3	4331.0	4545.7	4697.2	4238.4	4301.6	4916.1	5412.7	5337.0
55°	3590.2	3632.3	3897.5	4107.9	4621.4	4869.8	4634.1	4899.2	5206.5	5795.7	5610.5
57.5°	2904.2	2954.7	3304.0	3628.1	4368.9	4773.0	4869.8	5395.9	5686.3	6077.7	5863.1
60°	2062.4	2091.9	2394.9	2967.3	3670.2	4288.9	4823.5	5766.3	6065.1	6456.5	6342.9
62.5°	1186.9	1212.2	1527.9	2066.6	2769.5	3581.8	4617.2	6115.6	6473.4	6873.2	6810.1
65°	787.1	795.5	1010.2	1304.8	1801.4	2639.0	4095.3	6427.1	6877.4	7205.7	7134.2
67.5°	517.7	564.0	732.4	934.4	1153.3	1460.5	3337.7	6557.6	7340.4	7668.7	7651.9
70°	370.4	387.2	526.1	719.7	867.0	820.7	1953.0	5635.8	7319.4	7795.0	7656.1
72.5°	218.9	235.7	349.3	538.7	681.9	521.9	913.3	3985.9	6065.1	6220.8	6183.0
75°	159.9	159.9	214.7	387.2	496.7	374.6	429.3	2521.2	4028.0	4373.1	4368.9
77.5°	113.6	117.9	147.3	231.5	383.0	273.6	235.7	1401.6	2201.3	2407.5	2293.9
80°	67.3	71.6	101.0	138.9	277.8	197.8	155.7	639.8	846.0	854.4	812.3
82.5°	50.5	50.5	67.3	96.8	193.6	134.7	96.8	244.1	273.6	248.3	210.4
85°	29.5	25.3	50.5	71.6	113.6	75.8	67.3	113.6	126.3	92.6	84.2
87.5°	8.4	8.4	21.0	25.3	50.5	42.1	29.5	42.1	58.9	33.7	25.3
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: P676251
 CATALOG NUMBER: CCW-SA-2E-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7
2.5°	1292.2	1279.5	1258.5	1250.1	1220.6	1208.0	1199.6	1178.5	1182.7	1170.1	1170.1
5°	1279.5	1279.5	1237.4	1191.1	1144.8	1115.4	1081.7	1039.6	1039.6	1022.8	1027.0
7.5°	1325.8	1292.2	1237.4	1153.3	1077.5	1010.2	980.7	938.6	913.3	900.7	900.7
10°	1355.3	1321.6	1229.0	1128.0	1031.2	947.0	883.9	825.0	791.3	791.3	787.1
12.5°	1435.3	1384.7	1262.7	1123.8	980.7	854.4	757.6	690.3	644.0	610.3	618.7
15°	1502.6	1447.9	1279.5	1090.1	892.3	715.5	597.7	471.4	408.3	374.6	362.0
17.5°	1607.8	1506.8	1317.4	1031.2	757.6	559.8	387.2	282.0	256.7	252.5	252.5
20°	1696.2	1578.4	1321.6	917.6	622.9	357.8	248.3	231.5	218.9	214.7	210.4
22.5°	1818.3	1671.0	1304.8	787.1	446.1	239.9	210.4	193.6	185.2	172.6	172.6
25°	1944.5	1793.0	1271.1	665.0	273.6	206.2	185.2	168.4	151.5	143.1	147.3
27.5°	2079.2	1885.6	1174.3	517.7	210.4	181.0	151.5	138.9	130.5	126.3	126.3
30°	2188.7	1944.5	1031.2	345.1	189.4	159.9	134.7	122.1	113.6	109.4	109.4
32.5°	2268.6	1995.0	871.3	231.5	172.6	143.1	122.1	109.4	101.0	96.8	96.8
35°	2403.3	2032.9	723.9	197.8	155.7	126.3	105.2	96.8	88.4	88.4	88.4
37.5°	2609.6	2083.4	576.6	181.0	143.1	113.6	101.0	88.4	84.2	80.0	80.0
40°	2790.5	2146.6	412.5	164.1	130.5	105.2	88.4	80.0	75.8	71.6	71.6
42.5°	3051.5	2218.1	269.4	147.3	117.9	96.8	80.0	71.6	67.3	63.1	63.1
45°	3384.0	2336.0	210.4	130.5	105.2	88.4	75.8	67.3	58.9	58.9	54.7
47.5°	3737.6	2479.1	189.4	122.1	96.8	80.0	67.3	58.9	54.7	50.5	50.5
50°	4065.9	2618.0	176.8	113.6	88.4	75.8	63.1	54.7	46.3	42.1	42.1
52.5°	4360.5	2748.5	168.4	105.2	84.2	67.3	54.7	46.3	42.1	37.9	37.9
55°	4516.2	2807.4	164.1	101.0	75.8	63.1	50.5	42.1	37.9	33.7	33.7
57.5°	4760.3	2883.1	159.9	96.8	71.6	54.7	46.3	37.9	33.7	29.5	29.5
60°	5156.0	3131.5	155.7	92.6	67.3	54.7	42.1	33.7	25.3	21.0	21.0
62.5°	5484.3	3337.7	138.9	80.0	58.9	46.3	33.7	25.3	16.8	12.6	12.6
65°	5858.9	3434.5	122.1	71.6	50.5	37.9	25.3	16.8	12.6	4.2	4.2
67.5°	6267.1	3581.8	101.0	63.1	46.3	29.5	21.0	12.6	4.2	0.0	0.0
70°	6052.5	3396.6	84.2	54.7	42.1	25.3	16.8	8.4	0.0	0.0	0.0
72.5°	4743.5	2432.8	67.3	50.5	37.9	25.3	16.8	4.2	0.0	0.0	0.0
75°	3169.3	1376.3	58.9	42.1	29.5	21.0	12.6	4.2	0.0	0.0	0.0
77.5°	1721.5	618.7	50.5	37.9	25.3	16.8	12.6	4.2	0.0	0.0	0.0
80°	559.8	244.1	42.1	33.7	25.3	16.8	12.6	4.2	0.0	0.0	0.0
82.5°	151.5	75.8	42.1	33.7	25.3	16.8	12.6	4.2	0.0	0.0	0.0
85°	63.1	50.5	42.1	33.7	25.3	16.8	12.6	4.2	0.0	0.0	0.0
87.5°	25.3	16.8	16.8	21.0	16.8	12.6	8.4	4.2	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: P676251
 CATALOG NUMBER: CCW-SA-2E-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7
2.5°	1174.3	1182.7	1186.9	1186.9	1208.0	1229.0	1254.3	1275.3	1275.3	1287.9	1300.6
5°	1031.2	1039.6	1052.2	1090.1	1132.2	1178.5	1224.8	1258.5	1304.8	1325.8	1338.4
7.5°	913.3	921.8	955.4	993.3	1052.2	1132.2	1212.2	1287.9	1334.2	1355.3	1372.1
10°	791.3	803.9	841.8	909.1	984.9	1081.7	1174.3	1304.8	1380.5	1422.6	1439.5
12.5°	614.5	648.2	698.7	770.2	867.0	1014.4	1186.9	1321.6	1452.1	1502.6	1536.3
15°	387.2	416.7	496.7	610.3	740.8	913.3	1153.3	1346.9	1527.9	1578.4	1633.1
17.5°	248.3	252.5	277.8	399.9	568.2	787.1	1102.7	1384.7	1612.0	1683.6	1767.8
20°	210.4	218.9	223.1	239.9	378.8	648.2	997.5	1431.0	1713.0	1809.9	1889.8
22.5°	176.8	181.0	189.4	202.0	227.3	471.4	854.4	1431.0	1801.4	1944.5	2037.1
25°	143.1	151.5	159.9	172.6	197.8	294.6	707.1	1405.8	1906.7	2083.4	2201.3
27.5°	126.3	126.3	134.7	147.3	168.4	206.2	559.8	1330.0	1986.6	2167.6	2323.3
30°	109.4	113.6	117.9	130.5	151.5	181.0	387.2	1208.0	2070.8	2331.8	2508.5
32.5°	96.8	96.8	105.2	113.6	134.7	164.1	248.3	1022.8	2180.2	2458.0	2706.4
35°	88.4	88.4	92.6	101.0	122.1	147.3	193.6	867.0	2310.7	2697.9	2971.5
37.5°	80.0	80.0	84.2	92.6	109.4	130.5	176.8	745.0	2445.4	2937.9	3337.7
40°	71.6	71.6	75.8	84.2	96.8	117.9	159.9	601.9	2613.8	3291.4	3737.6
42.5°	63.1	63.1	67.3	75.8	88.4	105.2	138.9	450.4	2836.8	3674.4	4255.3
45°	54.7	54.7	58.9	67.3	75.8	96.8	126.3	345.1	3081.0	4099.5	4709.8
47.5°	46.3	50.5	54.7	63.1	71.6	88.4	113.6	303.0	3320.9	4549.9	5214.9
50°	42.1	42.1	46.3	54.7	67.3	80.0	105.2	298.8	3565.0	4895.0	5732.6
52.5°	37.9	37.9	42.1	50.5	63.1	75.8	101.0	307.3	3767.0	5214.9	6094.6
55°	33.7	33.7	37.9	42.1	54.7	71.6	92.6	315.7	3910.1	5539.0	6385.0
57.5°	29.5	29.5	33.7	42.1	50.5	63.1	84.2	324.1	4141.6	5858.9	6805.9
60°	21.0	21.0	29.5	37.9	46.3	54.7	80.0	332.5	4512.0	6300.8	7163.7
62.5°	12.6	12.6	16.8	29.5	37.9	50.5	71.6	315.7	4857.1	6869.0	7710.8
65°	4.2	8.4	12.6	16.8	29.5	42.1	58.9	286.2	5147.6	7437.2	8215.9
67.5°	0.0	0.0	4.2	12.6	25.3	33.7	50.5	210.4	5193.9	7694.0	8733.6
70°	0.0	0.0	4.2	12.6	21.0	33.7	46.3	117.9	4423.6	6873.2	8005.4
72.5°	0.0	0.0	0.0	8.4	21.0	29.5	42.1	88.4	3261.9	5181.2	6326.1
75°	0.0	0.0	0.0	4.2	16.8	25.3	37.9	67.3	1982.4	3455.6	4129.0
77.5°	0.0	0.0	0.0	4.2	12.6	25.3	37.9	58.9	698.7	1645.7	1940.3
80°	0.0	0.0	0.0	8.4	16.8	25.3	33.7	50.5	168.4	412.5	555.6
82.5°	0.0	0.0	0.0	4.2	12.6	21.0	29.5	42.1	67.3	122.1	193.6
85°	0.0	0.0	0.0	4.2	8.4	21.0	29.5	37.9	46.3	58.9	84.2
87.5°	0.0	0.0	0.0	0.0	4.2	8.4	12.6	16.8	16.8	16.8	29.5
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: P676251
 CATALOG NUMBER: CCW-SA-2E-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7
2.5°	1296.4	1313.2	1321.6	1338.4	1346.9	1342.7	1338.4	1351.1	1342.7	1330.0
5°	1342.7	1342.7	1355.3	1359.5	1359.5	1346.9	1355.3	1351.1	1342.7	1342.7
7.5°	1393.2	1414.2	1414.2	1389.0	1384.7	1376.3	1376.3	1342.7	1330.0	1342.7
10°	1443.7	1460.5	1464.7	1435.3	1397.4	1380.5	1359.5	1317.4	1296.4	1304.8
12.5°	1548.9	1548.9	1502.6	1468.9	1418.4	1359.5	1309.0	1250.1	1220.6	1229.0
15°	1624.7	1641.5	1578.4	1502.6	1414.2	1304.8	1250.1	1203.8	1186.9	1174.3
17.5°	1772.0	1738.3	1637.3	1527.9	1401.6	1287.9	1250.1	1208.0	1195.3	1195.3
20°	1898.2	1881.4	1729.9	1532.1	1397.4	1321.6	1296.4	1275.3	1271.1	1258.5
22.5°	2070.8	1995.0	1801.4	1578.4	1443.7	1376.3	1367.9	1389.0	1376.3	1367.9
25°	2201.3	2138.2	1856.2	1645.7	1515.2	1494.2	1506.8	1527.9	1494.2	1481.6
27.5°	2378.1	2260.2	1961.4	1734.1	1612.0	1633.1	1675.2	1679.4	1658.3	1671.0
30°	2542.2	2415.9	2041.3	1835.1	1776.2	1797.2	1860.4	1906.7	1877.2	1860.4
32.5°	2777.9	2584.3	2201.3	2003.5	1982.4	2037.1	2108.7	2138.2	2100.3	2091.9
35°	3026.2	2777.9	2365.4	2192.9	2230.7	2306.5	2369.6	2420.2	2361.2	2386.5
37.5°	3413.5	3089.4	2643.2	2491.7	2508.5	2538.0	2655.9	2794.8	2824.2	2773.7
40°	3817.5	3426.1	2900.0	2782.1	2820.0	2900.0	3038.9	3169.3	3236.7	3169.3
42.5°	4284.7	3750.2	3295.6	3156.7	3194.6	3308.2	3493.4	3598.7	3590.2	3489.2
45°	4861.4	4200.5	3666.0	3493.4	3632.3	3733.3	3918.5	3931.2	3851.2	3825.9
47.5°	5303.3	4579.3	4065.9	3956.4	4145.8	4150.0	4192.1	4196.3	4107.9	4078.5
50°	5791.5	5017.1	4512.0	4352.1	4671.9	4524.6	4411.0	4335.2	4200.5	4137.4
52.5°	6271.4	5328.5	4924.5	4760.3	5092.8	4701.4	4495.2	4263.7	4065.9	3998.5
55°	6528.1	5842.0	5526.4	5143.4	5185.4	4751.9	4234.2	3943.8	3607.1	3590.2
57.5°	6831.1	6187.2	6035.7	5404.3	5029.7	4398.4	3691.3	3308.2	2946.3	2904.2
60°	7188.9	6734.3	6574.4	5362.2	4478.3	3695.5	2925.2	2432.8	2091.9	2062.4
62.5°	7588.8	7382.5	6906.9	4949.7	3556.6	2601.1	1931.9	1519.4	1203.8	1186.9
65°	8220.1	7925.5	7083.7	4166.9	2352.8	1666.7	1283.7	984.9	795.5	787.1
67.5°	8615.7	8131.7	6688.0	2971.5	1304.8	1102.7	900.7	715.5	551.4	517.7
70°	8056.0	7462.5	5290.7	1700.4	757.6	837.6	694.5	479.8	378.8	370.4
72.5°	6435.5	5539.0	3560.8	799.7	471.4	656.6	505.1	324.1	227.3	218.9
75°	4389.9	3485.0	2235.0	370.4	332.5	479.8	370.4	189.4	159.9	159.9
77.5°	1961.4	1776.2	1144.8	227.3	248.3	366.2	214.7	130.5	117.9	113.6
80°	597.7	627.1	467.2	155.7	185.2	277.8	130.5	88.4	71.6	67.3
82.5°	202.0	235.7	210.4	92.6	126.3	197.8	88.4	58.9	50.5	50.5
85°	96.8	117.9	105.2	58.9	67.3	96.8	71.6	46.3	29.5	29.5
87.5°	37.9	54.7	37.9	25.3	37.9	50.5	29.5	21.0	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)