

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: P676348

Luminaire Tested: **CCW-SA-2C-840-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676348
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-840-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

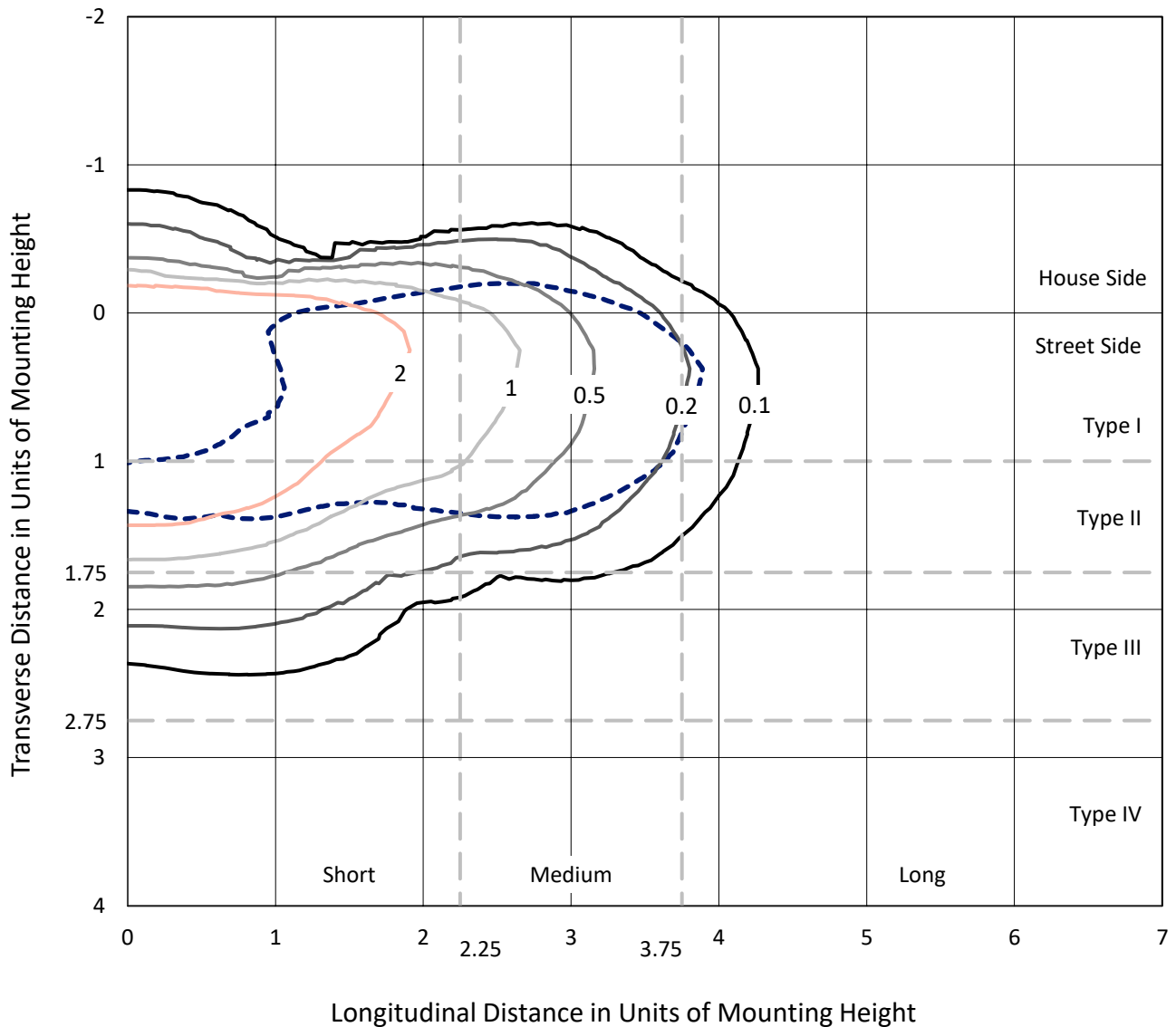
Lumens per Lamp: N/A
Luminaire Lumens: 5951.5 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 62.1
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: P676348
 CATALOG NUMBER: CCW-SA-2C-840-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

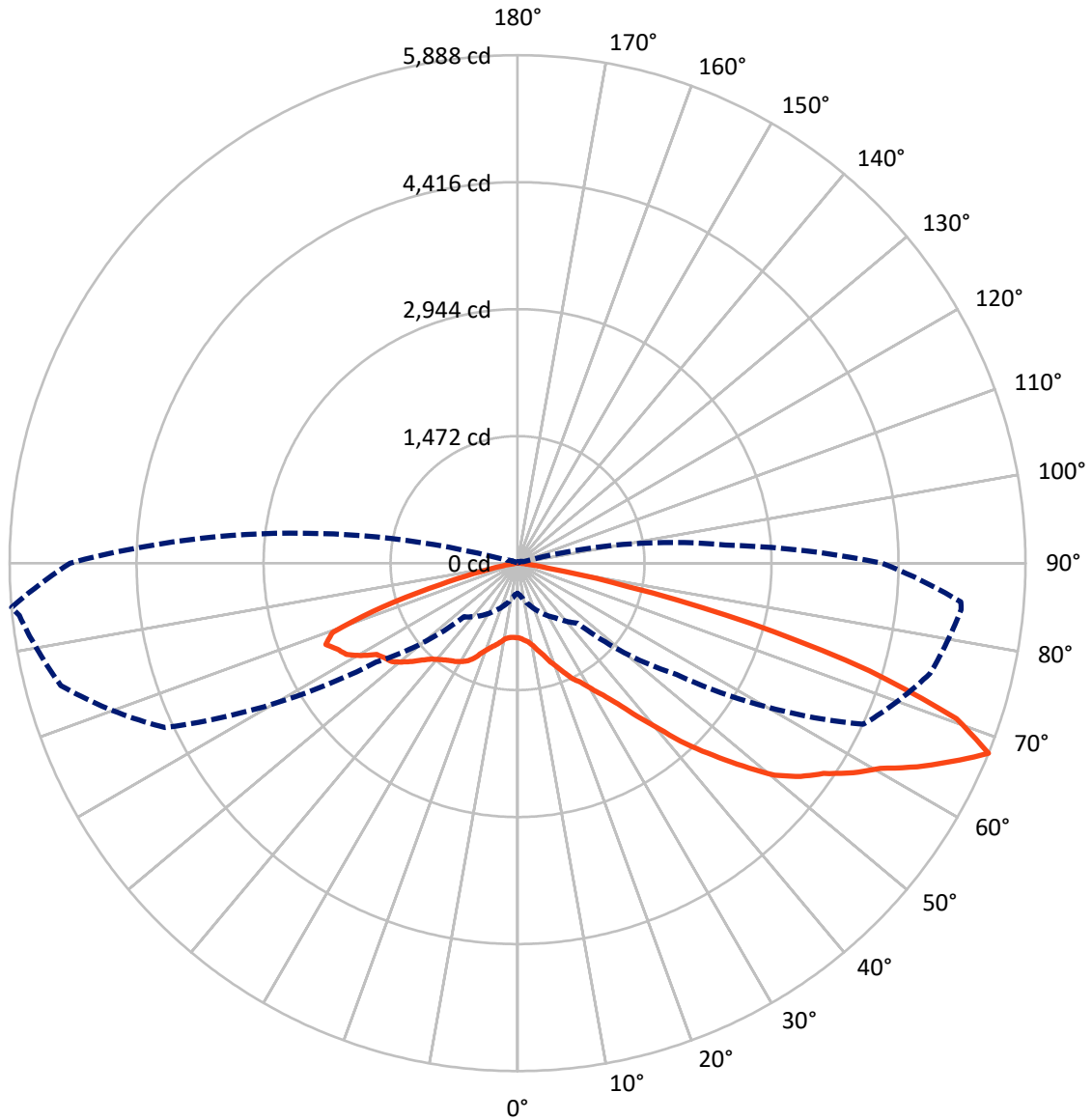
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

REPORT NUMBER: P676348
CATALOG NUMBER: CCW-SA-2C-840-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676348

CATALOG NUMBER: CCW-SA-2C-840-U-T2-HSS

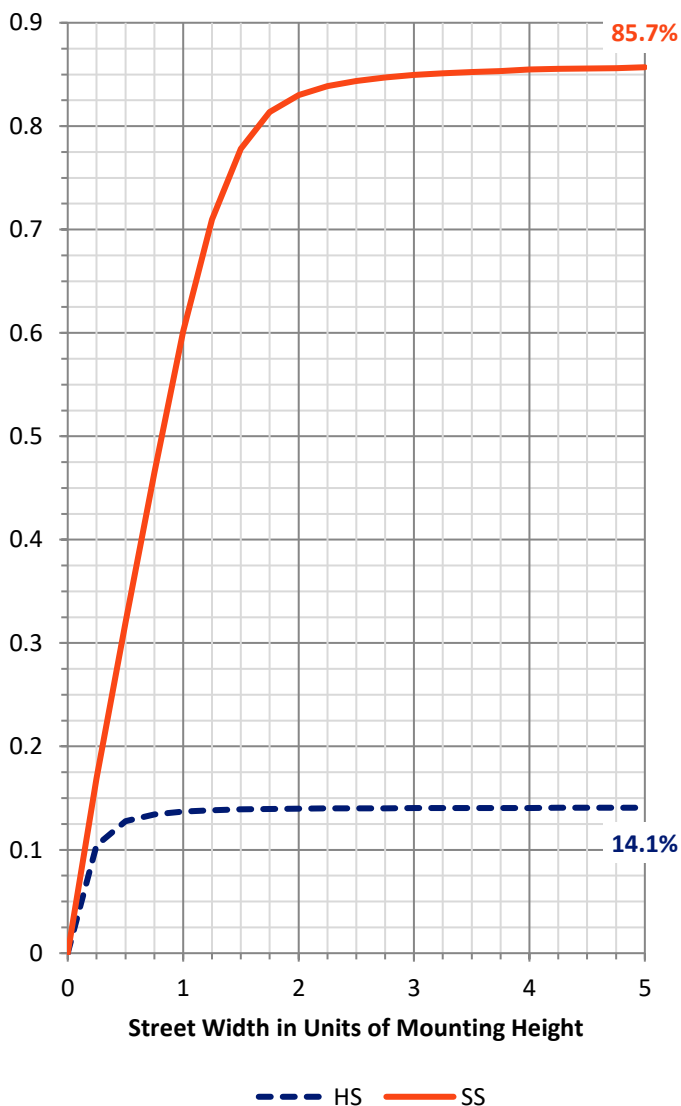
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	845.5	0.0	845.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5106.0	0.0	5106.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	5951.5	0.0	5951.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	1.3
10°-20°	212.2	3.6
20°-30°	352.4	5.9
30°-40°	606.3	10.2
40°-50°	1089.5	18.3
50°-60°	1551.1	26.1
60°-70°	1414.1	23.8
70°-80°	602.1	10.1
80°-90°	44.8	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°	5951.5	100.0
0°-180°	5951.5	100.0



REPORT NUMBER: P676348

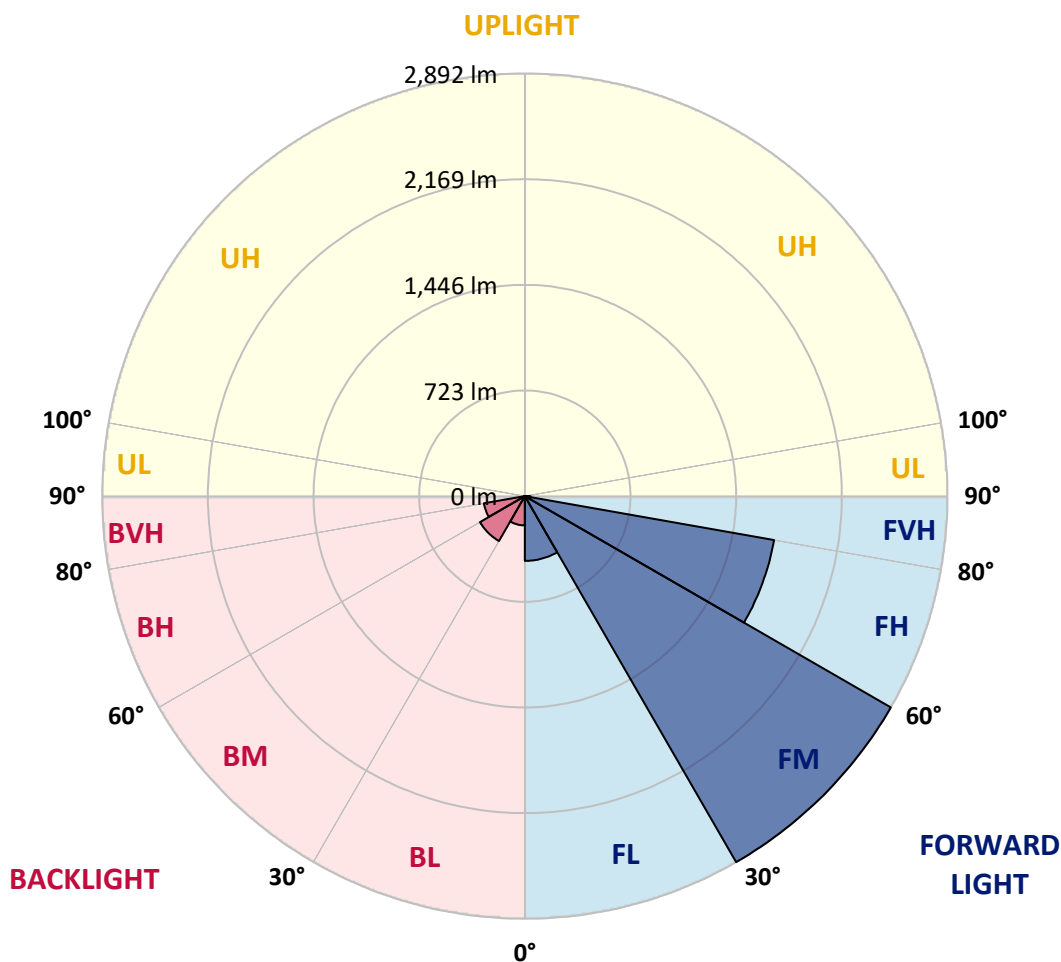
CATALOG NUMBER: CCW-SA-2C-840-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.4	7.4			
FM (30°-60°)	2892.4	48.6			
FH (60°-80°)	1732.1	29.1			G1/1800
FVH (80°-90°)	38.1	0.6			G1/100
BL (0°-30°)	200.1	3.4	B1/500		
BM (30°-60°)	354.5	6.0	B1/1000		
BH (60°-80°)	284.1	4.8	B1/500		G1/500
BVH (80°-90°)	6.8	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: P676348
 CATALOG NUMBER: CCW-SA-2C-840-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4
2.5°	896.6	905.2	905.2	902.3	893.8	888.1	885.3	879.6	873.9	873.9	876.8
5°	905.2	896.6	908.0	893.8	893.8	893.8	905.2	899.5	896.6	882.5	882.5
7.5°	905.2	896.6	896.6	905.2	896.6	902.3	916.5	910.8	922.2	896.6	902.3
10°	879.6	876.8	882.5	893.8	896.6	908.0	922.2	950.6	953.4	936.4	933.5
12.5°	828.5	825.7	845.6	851.2	885.3	913.7	956.2	978.9	1004.5	996.0	978.9
15°	791.7	797.3	811.5	834.2	865.4	916.5	964.7	1015.8	1061.2	1049.9	1044.2
17.5°	805.8	803.0	805.8	820.0	859.8	910.8	993.1	1052.7	1118.0	1118.0	1123.6
20°	848.4	856.9	854.1	845.6	865.4	908.0	993.1	1098.1	1205.9	1197.4	1197.4
22.5°	922.2	925.0	908.0	902.3	899.5	925.0	1010.1	1154.9	1279.7	1296.7	1291.1
25°	998.8	1001.6	996.0	978.9	956.2	961.9	1041.4	1200.3	1381.9	1410.2	1404.6
27.5°	1126.5	1123.6	1109.5	1089.6	1055.5	1030.0	1089.6	1234.3	1461.3	1509.5	1495.4
30°	1254.2	1245.7	1225.8	1200.3	1169.0	1120.8	1149.2	1299.6	1560.6	1606.0	1574.8
32.5°	1410.2	1393.2	1398.9	1359.2	1293.9	1217.3	1211.6	1359.2	1640.1	1705.3	1679.8
35°	1608.9	1589.0	1560.6	1523.7	1461.3	1359.2	1327.9	1455.6	1773.4	1821.7	1821.7
37.5°	1869.9	1889.8	1855.7	1702.5	1634.4	1537.9	1472.7	1554.9	1889.8	2006.1	1977.7
40°	2136.6	2153.7	2091.2	1977.7	1830.2	1711.0	1671.3	1716.7	2065.7	2204.7	2150.8
42.5°	2352.3	2375.0	2352.3	2204.7	2088.4	1935.2	1864.2	1906.8	2292.7	2460.1	2389.2
45°	2579.3	2602.0	2576.4	2480.0	2366.5	2278.5	2099.7	2153.7	2531.0	2780.7	2701.3
47.5°	2749.5	2777.9	2732.5	2712.6	2621.8	2607.7	2304.0	2363.6	2780.7	3104.2	3004.9
50°	2789.3	2820.5	2860.2	2882.9	2851.7	2885.7	2579.3	2630.4	3041.8	3402.1	3305.7
52.5°	2695.6	2726.8	2814.8	2919.8	3064.5	3166.6	2857.4	2899.9	3314.2	3649.0	3597.9
55°	2420.4	2448.8	2627.5	2769.4	3115.6	3283.0	3124.1	3302.8	3510.0	3907.2	3782.4
57.5°	1957.9	1991.9	2227.4	2445.9	2945.3	3217.7	3283.0	3637.7	3833.4	4097.3	3952.6
60°	1390.4	1410.2	1614.5	2000.4	2474.3	2891.4	3251.8	3887.4	4088.8	4352.7	4276.1
62.5°	800.2	817.2	1030.0	1393.2	1867.1	2414.7	3112.7	4122.9	4364.1	4633.6	4591.1
65°	530.6	536.3	681.0	879.6	1214.4	1779.1	2760.9	4332.8	4636.5	4857.8	4809.5
67.5°	349.0	380.2	493.7	629.9	777.5	984.6	2250.1	4420.8	4948.6	5169.9	5158.6
70°	249.7	261.0	354.7	485.2	584.5	553.3	1316.6	3799.4	4934.4	5255.0	5161.4
72.5°	147.5	158.9	235.5	363.2	459.7	351.8	615.7	2687.1	4088.8	4193.8	4168.3
75°	107.8	107.8	144.7	261.0	334.8	252.5	289.4	1699.7	2715.5	2948.1	2945.3
77.5°	76.6	79.4	99.3	156.1	258.2	184.4	158.9	944.9	1484.0	1623.0	1546.4
80°	45.4	48.2	68.1	93.6	187.3	133.4	105.0	431.3	570.3	576.0	547.6
82.5°	34.0	34.0	45.4	65.3	130.5	90.8	65.3	164.6	184.4	167.4	141.9
85°	19.9	17.0	34.0	48.2	76.6	51.1	45.4	76.6	85.1	62.4	56.7
87.5°	5.7	5.7	14.2	17.0	34.0	28.4	19.9	28.4	39.7	22.7	17.0
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: P676348
 CATALOG NUMBER: CCW-SA-2C-840-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4
2.5°	871.1	862.6	848.4	842.7	822.9	814.4	808.7	794.5	797.3	788.8	788.8
5°	862.6	862.6	834.2	803.0	771.8	751.9	729.2	700.9	700.9	689.5	692.3
7.5°	893.8	871.1	834.2	777.5	726.4	681.0	661.1	632.8	615.7	607.2	607.2
10°	913.7	891.0	828.5	760.4	695.2	638.4	595.9	556.1	533.4	533.4	530.6
12.5°	967.6	933.5	851.2	757.6	661.1	576.0	510.7	465.3	434.1	411.4	417.1
15°	1013.0	976.1	862.6	734.9	601.5	482.4	402.9	317.8	275.2	252.5	244.0
17.5°	1083.9	1015.8	888.1	695.2	510.7	377.4	261.0	190.1	173.1	170.2	170.2
20°	1143.5	1064.1	891.0	618.6	419.9	241.2	167.4	156.1	147.5	144.7	141.9
22.5°	1225.8	1126.5	879.6	530.6	300.8	161.7	141.9	130.5	124.8	116.3	116.3
25°	1310.9	1208.8	856.9	448.3	184.4	139.0	124.8	113.5	102.1	96.5	99.3
27.5°	1401.7	1271.2	791.7	349.0	141.9	122.0	102.1	93.6	88.0	85.1	85.1
30°	1475.5	1310.9	695.2	232.7	127.7	107.8	90.8	82.3	76.6	73.8	73.8
32.5°	1529.4	1345.0	587.4	156.1	116.3	96.5	82.3	73.8	68.1	65.3	65.3
35°	1620.2	1370.5	488.0	133.4	105.0	85.1	70.9	65.3	59.6	59.6	59.6
37.5°	1759.2	1404.6	388.7	122.0	96.5	76.6	68.1	59.6	56.7	53.9	53.9
40°	1881.3	1447.1	278.1	110.7	88.0	70.9	59.6	53.9	51.1	48.2	48.2
42.5°	2057.2	1495.4	181.6	99.3	79.4	65.3	53.9	48.2	45.4	42.6	42.6
45°	2281.3	1574.8	141.9	88.0	70.9	59.6	51.1	45.4	39.7	39.7	36.9
47.5°	2519.7	1671.3	127.7	82.3	65.3	53.9	45.4	39.7	36.9	34.0	34.0
50°	2741.0	1764.9	119.2	76.6	59.6	51.1	42.6	36.9	31.2	28.4	28.4
52.5°	2939.6	1852.9	113.5	70.9	56.7	45.4	36.9	31.2	28.4	25.5	25.5
55°	3044.6	1892.6	110.7	68.1	51.1	42.6	34.0	28.4	25.5	22.7	22.7
57.5°	3209.2	1943.7	107.8	65.3	48.2	36.9	31.2	25.5	22.7	19.9	19.9
60°	3475.9	2111.1	105.0	62.4	45.4	36.9	28.4	22.7	17.0	14.2	14.2
62.5°	3697.2	2250.1	93.6	53.9	39.7	31.2	22.7	17.0	11.3	8.5	8.5
65°	3949.8	2315.4	82.3	48.2	34.0	25.5	17.0	11.3	8.5	2.8	2.8
67.5°	4225.0	2414.7	68.1	42.6	31.2	19.9	14.2	8.5	2.8	0.0	0.0
70°	4080.3	2289.9	56.7	36.9	28.4	17.0	11.3	5.7	0.0	0.0	0.0
72.5°	3197.8	1640.1	45.4	34.0	25.5	17.0	11.3	2.8	0.0	0.0	0.0
75°	2136.6	927.9	39.7	28.4	19.9	14.2	8.5	2.8	0.0	0.0	0.0
77.5°	1160.5	417.1	34.0	25.5	17.0	11.3	8.5	2.8	0.0	0.0	0.0
80°	377.4	164.6	28.4	22.7	17.0	11.3	8.5	2.8	0.0	0.0	0.0
82.5°	102.1	51.1	28.4	22.7	17.0	11.3	8.5	2.8	0.0	0.0	0.0
85°	42.6	34.0	28.4	22.7	17.0	11.3	8.5	2.8	0.0	0.0	0.0
87.5°	17.0	11.3	11.3	14.2	11.3	8.5	5.7	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: P676348
 CATALOG NUMBER: CCW-SA-2C-840-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4
2.5°	791.7	797.3	800.2	800.2	814.4	828.5	845.6	859.8	859.8	868.3	876.8
5°	695.2	700.9	709.4	734.9	763.3	794.5	825.7	848.4	879.6	893.8	902.3
7.5°	615.7	621.4	644.1	669.6	709.4	763.3	817.2	868.3	899.5	913.7	925.0
10°	533.4	542.0	567.5	612.9	664.0	729.2	791.7	879.6	930.7	959.1	970.4
12.5°	414.3	437.0	471.0	519.3	584.5	683.8	800.2	891.0	978.9	1013.0	1035.7
15°	261.0	280.9	334.8	411.4	499.4	615.7	777.5	908.0	1030.0	1064.1	1100.9
17.5°	167.4	170.2	187.3	269.6	383.1	530.6	743.4	933.5	1086.8	1135.0	1191.7
20°	141.9	147.5	150.4	161.7	255.4	437.0	672.5	964.7	1154.9	1220.1	1274.0
22.5°	119.2	122.0	127.7	136.2	153.2	317.8	576.0	964.7	1214.4	1310.9	1373.3
25°	96.5	102.1	107.8	116.3	133.4	198.6	476.7	947.7	1285.4	1404.6	1484.0
27.5°	85.1	85.1	90.8	99.3	113.5	139.0	377.4	896.6	1339.3	1461.3	1566.3
30°	73.8	76.6	79.4	88.0	102.1	122.0	261.0	814.4	1396.0	1572.0	1691.1
32.5°	65.3	65.3	70.9	76.6	90.8	110.7	167.4	689.5	1469.8	1657.1	1824.5
35°	59.6	59.6	62.4	68.1	82.3	99.3	130.5	584.5	1557.8	1818.8	2003.3
37.5°	53.9	53.9	56.7	62.4	73.8	88.0	119.2	502.2	1648.6	1980.6	2250.1
40°	48.2	48.2	51.1	56.7	65.3	79.4	107.8	405.8	1762.1	2218.9	2519.7
42.5°	42.6	42.6	45.4	51.1	59.6	70.9	93.6	303.6	1912.5	2477.1	2868.7
45°	36.9	36.9	39.7	45.4	51.1	65.3	85.1	232.7	2077.0	2763.7	3175.1
47.5°	31.2	34.0	36.9	42.6	48.2	59.6	76.6	204.3	2238.8	3067.3	3515.6
50°	28.4	28.4	31.2	36.9	45.4	53.9	70.9	201.5	2403.4	3300.0	3864.7
52.5°	25.5	25.5	28.4	34.0	42.6	51.1	68.1	207.1	2539.6	3515.6	4108.7
55°	22.7	22.7	25.5	28.4	36.9	48.2	62.4	212.8	2636.0	3734.1	4304.5
57.5°	19.9	19.9	22.7	28.4	34.0	42.6	56.7	218.5	2792.1	3949.8	4588.2
60°	14.2	14.2	19.9	25.5	31.2	36.9	53.9	224.2	3041.8	4247.7	4829.4
62.5°	8.5	8.5	11.3	19.9	25.5	34.0	48.2	212.8	3274.5	4630.8	5198.3
65°	2.8	5.7	8.5	11.3	19.9	28.4	39.7	192.9	3470.2	5013.8	5538.8
67.5°	0.0	0.0	2.8	8.5	17.0	22.7	34.0	141.9	3501.5	5186.9	5887.8
70°	0.0	0.0	2.8	8.5	14.2	22.7	31.2	79.4	2982.2	4633.6	5396.9
72.5°	0.0	0.0	0.0	5.7	14.2	19.9	28.4	59.6	2199.1	3492.9	4264.7
75°	0.0	0.0	0.0	2.8	11.3	17.0	25.5	45.4	1336.5	2329.6	2783.6
77.5°	0.0	0.0	0.0	2.8	8.5	17.0	25.5	39.7	471.0	1109.5	1308.1
80°	0.0	0.0	0.0	5.7	11.3	17.0	22.7	34.0	113.5	278.1	374.5
82.5°	0.0	0.0	0.0	2.8	8.5	14.2	19.9	28.4	45.4	82.3	130.5
85°	0.0	0.0	0.0	2.8	5.7	14.2	19.9	25.5	31.2	39.7	56.7
87.5°	0.0	0.0	0.0	0.0	2.8	5.7	8.5	11.3	11.3	11.3	19.9
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: P676348
 CATALOG NUMBER: CCW-SA-2C-840-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4
2.5°	873.9	885.3	891.0	902.3	908.0	905.2	902.3	910.8	905.2	896.6
5°	905.2	905.2	913.7	916.5	916.5	908.0	913.7	910.8	905.2	905.2
7.5°	939.2	953.4	953.4	936.4	933.5	927.9	927.9	905.2	896.6	905.2
10°	973.3	984.6	987.4	967.6	942.0	930.7	916.5	888.1	873.9	879.6
12.5°	1044.2	1044.2	1013.0	990.3	956.2	916.5	882.5	842.7	822.9	828.5
15°	1095.3	1106.6	1064.1	1013.0	953.4	879.6	842.7	811.5	800.2	791.7
17.5°	1194.6	1171.9	1103.8	1030.0	944.9	868.3	842.7	814.4	805.8	805.8
20°	1279.7	1268.4	1166.2	1032.8	942.0	891.0	873.9	859.8	856.9	848.4
22.5°	1396.0	1345.0	1214.4	1064.1	973.3	927.9	922.2	936.4	927.9	922.2
25°	1484.0	1441.4	1251.3	1109.5	1021.5	1007.3	1015.8	1030.0	1007.3	998.8
27.5°	1603.2	1523.7	1322.3	1169.0	1086.8	1100.9	1129.3	1132.2	1118.0	1126.5
30°	1713.8	1628.7	1376.2	1237.1	1197.4	1211.6	1254.2	1285.4	1265.5	1254.2
32.5°	1872.7	1742.2	1484.0	1350.6	1336.5	1373.3	1421.6	1441.4	1415.9	1410.2
35°	2040.2	1872.7	1594.7	1478.3	1503.9	1554.9	1597.5	1631.6	1591.8	1608.9
37.5°	2301.2	2082.7	1781.9	1679.8	1691.1	1711.0	1790.5	1884.1	1904.0	1869.9
40°	2573.6	2309.7	1955.0	1875.6	1901.1	1955.0	2048.7	2136.6	2182.0	2136.6
42.5°	2888.6	2528.2	2221.8	2128.1	2153.7	2230.3	2355.1	2426.1	2420.4	2352.3
45°	3277.3	2831.8	2471.5	2355.1	2448.8	2516.9	2641.7	2650.2	2596.3	2579.3
47.5°	3575.2	3087.2	2741.0	2667.2	2794.9	2797.8	2826.1	2829.0	2769.4	2749.5
50°	3904.4	3382.3	3041.8	2934.0	3149.6	3050.3	2973.7	2922.6	2831.8	2789.3
52.5°	4227.9	3592.3	3319.9	3209.2	3433.4	3169.5	3030.4	2874.4	2741.0	2695.6
55°	4400.9	3938.4	3725.6	3467.4	3495.8	3203.5	2854.5	2658.7	2431.7	2420.4
57.5°	4605.2	4171.1	4069.0	3643.3	3390.8	2965.2	2488.5	2230.3	1986.2	1957.9
60°	4846.4	4540.0	4432.2	3615.0	3019.1	2491.3	1972.1	1640.1	1410.2	1390.4
62.5°	5116.0	4977.0	4656.3	3336.9	2397.7	1753.6	1302.4	1024.3	811.5	800.2
65°	5541.6	5343.0	4775.5	2809.1	1586.2	1123.6	865.4	664.0	536.3	530.6
67.5°	5808.3	5482.0	4508.8	2003.3	879.6	743.4	607.2	482.4	371.7	349.0
70°	5431.0	5030.9	3566.7	1146.3	510.7	564.7	468.2	323.5	255.4	249.7
72.5°	4338.5	3734.1	2400.5	539.1	317.8	442.6	340.5	218.5	153.2	147.5
75°	2959.5	2349.4	1506.7	249.7	224.2	323.5	249.7	127.7	107.8	107.8
77.5°	1322.3	1197.4	771.8	153.2	167.4	246.9	144.7	88.0	79.4	76.6
80°	402.9	422.8	315.0	105.0	124.8	187.3	88.0	59.6	48.2	45.4
82.5°	136.2	158.9	141.9	62.4	85.1	133.4	59.6	39.7	34.0	34.0
85°	65.3	79.4	70.9	39.7	45.4	65.3	48.2	31.2	19.9	19.9
87.5°	25.5	36.9	25.5	17.0	25.5	34.0	19.9	14.2	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)