

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: P676284

Luminaire Tested: **CCW-SA-2E-740-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676284
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-740-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

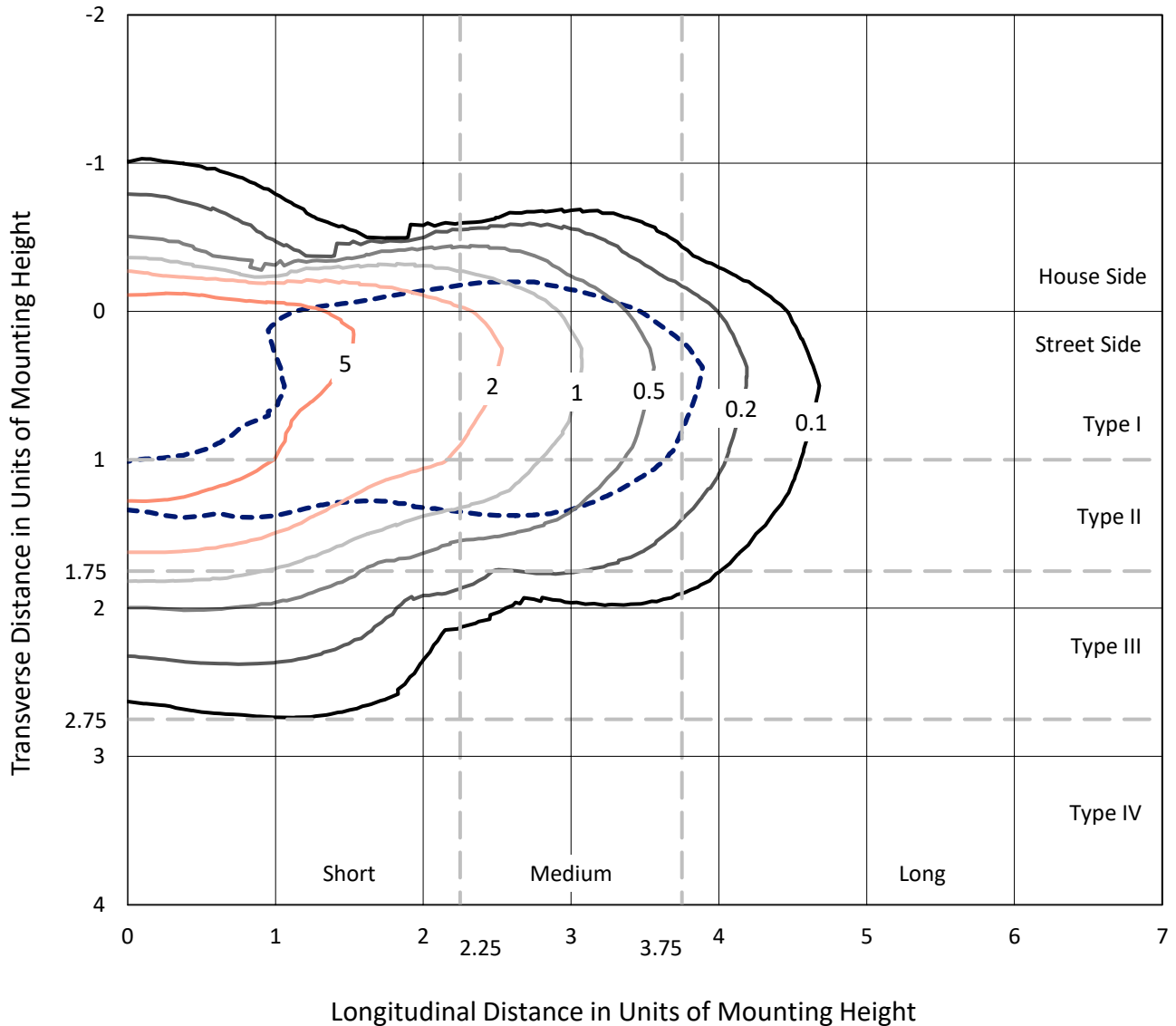
Lumens per Lamp: N/A
Luminaire Lumens: 10556.1 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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: P676284
 CATALOG NUMBER: CCW-SA-2E-740-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

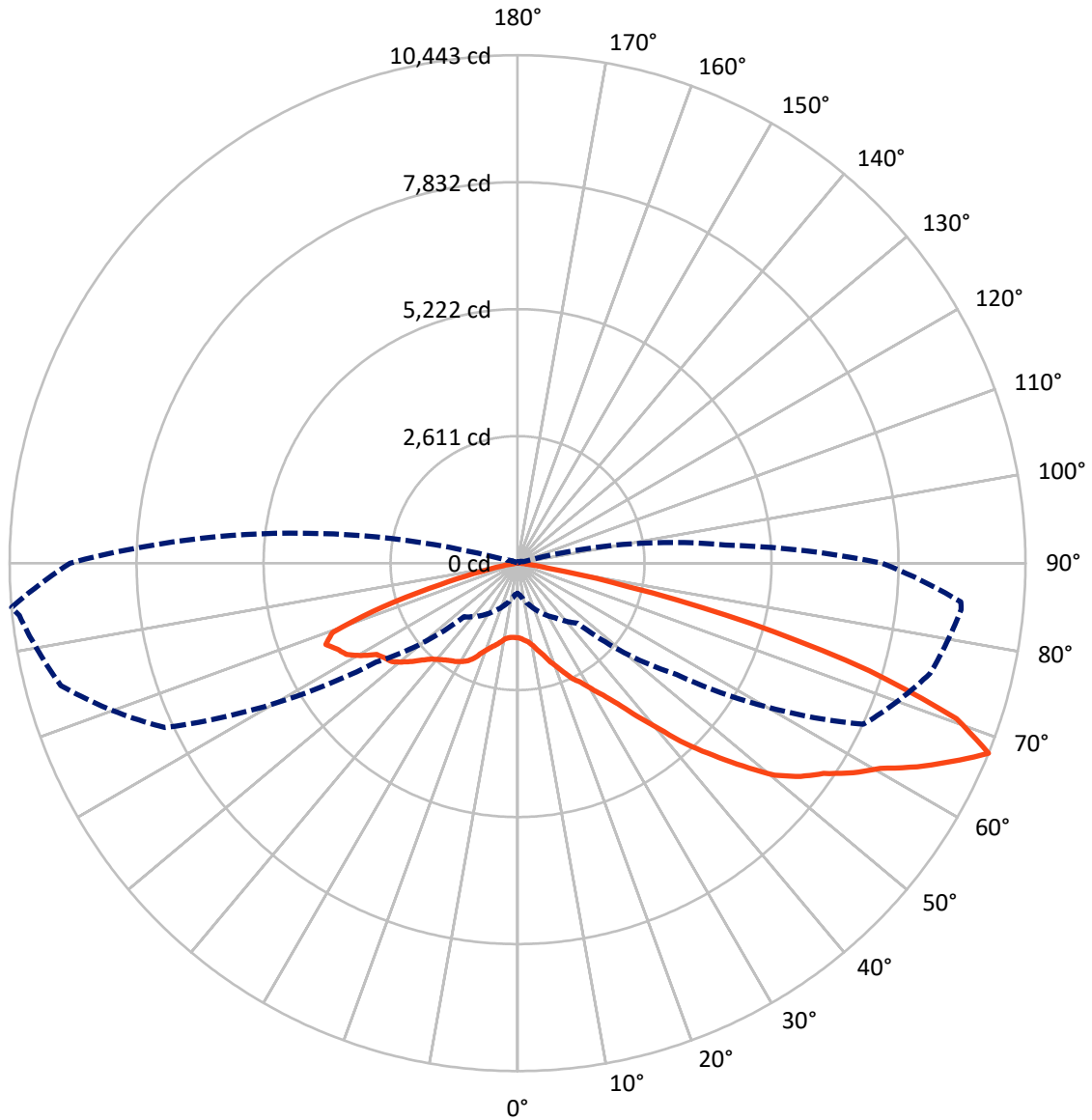
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

REPORT NUMBER: P676284
CATALOG NUMBER: CCW-SA-2E-740-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676284

CATALOG NUMBER: CCW-SA-2E-740-U-T2-HSS

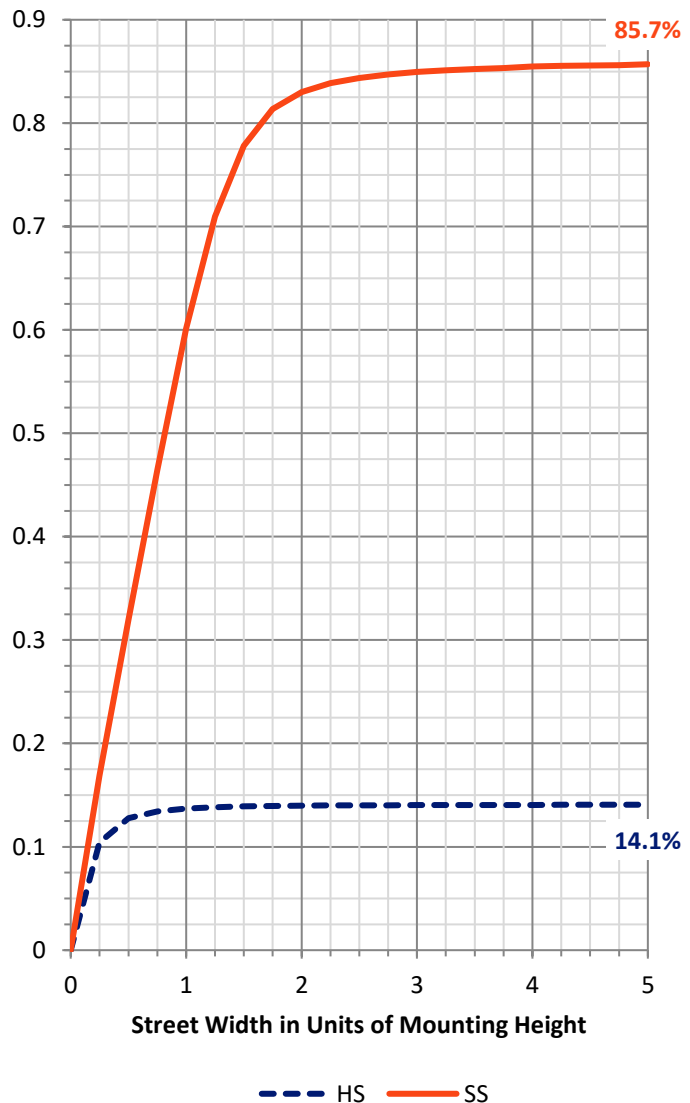
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1499.7	0.0	1499.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	9056.5	0.0	9056.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	10556.1	0.0	10556.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	1.3
10°-20°	376.4	3.6
20°-30°	625.1	5.9
30°-40°	1075.4	10.2
40°-50°	1932.5	18.3
50°-60°	2751.1	26.1
60°-70°	2508.2	23.8
70°-80°	1068.0	10.1
80°-90°	79.5	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°	10556.1	100.0
0°-180°	10556.1	100.0



REPORT NUMBER: P676284

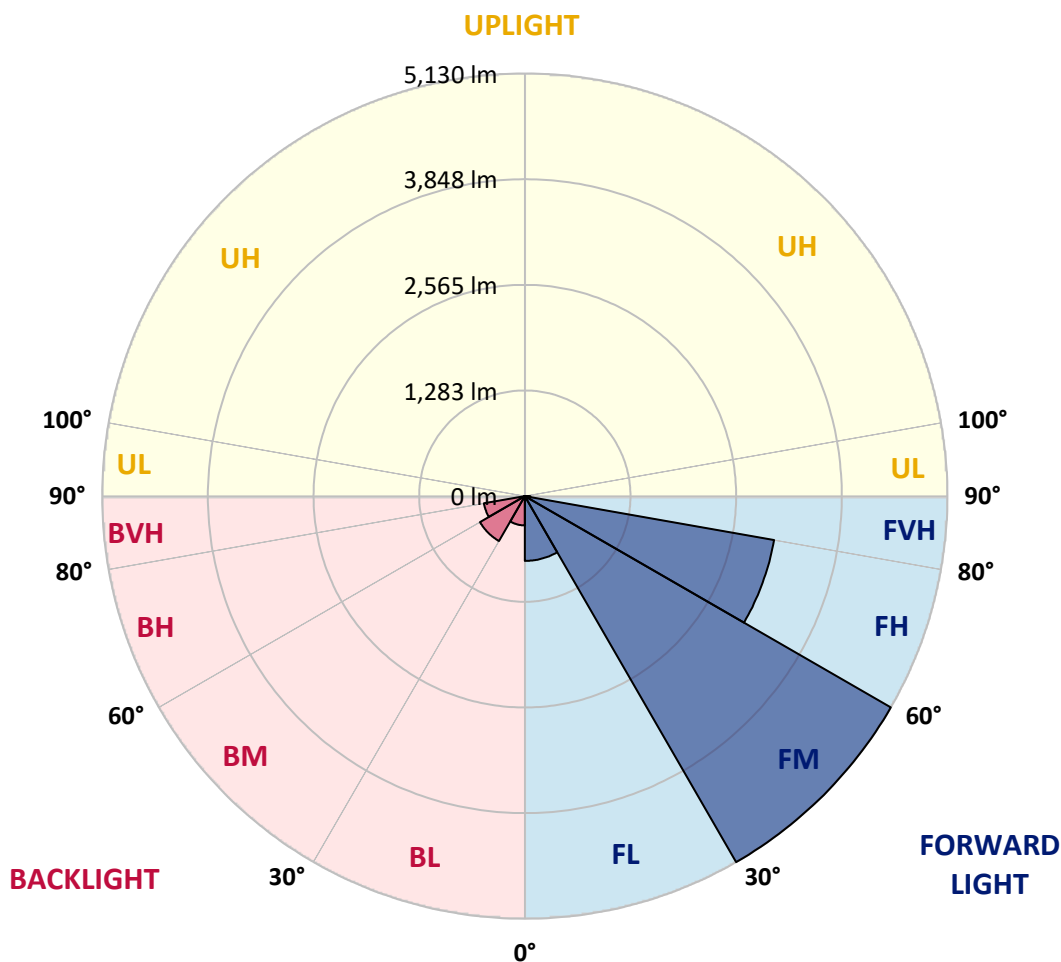
CATALOG NUMBER: CCW-SA-2E-740-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	786.4	7.4			
FM (30°-60°)	5130.3	48.6			
FH (60°-80°)	3072.3	29.1			G2/5000
FVH (80°-90°)	67.5	0.6			G1/100
BL (0°-30°)	355.0	3.4	B1/500		
BM (30°-60°)	628.7	6.0	B1/1000		
BH (60°-80°)	503.9	4.8	B2/1000		G2/1000
BVH (80°-90°)	12.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P676284

CATALOG NUMBER: CCW-SA-2E-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0
2.5°	1590.4	1605.5	1605.5	1600.4	1585.3	1575.3	1570.2	1560.2	1550.1	1550.1	1555.1
5°	1605.5	1590.4	1610.5	1585.3	1585.3	1585.3	1605.5	1595.4	1590.4	1565.2	1565.2
7.5°	1605.5	1590.4	1590.4	1605.5	1590.4	1600.4	1625.6	1615.5	1635.7	1590.4	1600.4
10°	1560.2	1555.1	1565.2	1585.3	1590.4	1610.5	1635.7	1686.0	1691.0	1660.8	1655.8
12.5°	1469.6	1464.6	1499.8	1509.9	1570.2	1620.6	1696.1	1736.3	1781.6	1766.5	1736.3
15°	1404.2	1414.2	1439.4	1479.7	1535.0	1625.6	1711.2	1801.8	1882.3	1862.1	1852.1
17.5°	1429.3	1424.3	1429.3	1454.5	1524.9	1615.5	1761.5	1867.2	1982.9	1982.9	1993.0
20°	1504.8	1519.9	1514.9	1499.8	1535.0	1610.5	1761.5	1947.7	2139.0	2123.9	2123.9
22.5°	1635.7	1640.7	1610.5	1600.4	1595.4	1640.7	1791.7	2048.4	2269.8	2300.0	2289.9
25°	1771.6	1776.6	1766.5	1736.3	1696.1	1706.1	1847.1	2128.9	2451.0	2501.3	2491.3
27.5°	1998.0	1993.0	1967.8	1932.6	1872.2	1826.9	1932.6	2189.3	2591.9	2677.5	2652.3
30°	2224.5	2209.4	2174.2	2128.9	2073.5	1988.0	2038.3	2305.0	2768.1	2848.6	2793.2
32.5°	2501.3	2471.1	2481.2	2410.7	2295.0	2159.1	2149.0	2410.7	2909.0	3024.7	2979.4
35°	2853.6	2818.4	2768.1	2702.6	2591.9	2410.7	2355.4	2581.8	3145.5	3231.1	3231.1
37.5°	3316.6	3351.9	3291.5	3019.7	2898.9	2727.8	2612.0	2758.0	3351.9	3558.2	3507.9
40°	3789.7	3819.9	3709.2	3507.9	3246.2	3034.8	2964.3	3044.9	3663.9	3910.5	3814.9
42.5°	4172.2	4212.5	4172.2	3910.5	3704.2	3432.4	3306.6	3382.1	4066.5	4363.5	4237.6
45°	4574.8	4615.1	4569.8	4398.7	4197.4	4041.4	3724.3	3819.9	4489.3	4932.2	4791.3
47.5°	4876.8	4927.1	4846.6	4811.4	4650.3	4625.2	4086.7	4192.4	4932.2	5505.9	5329.8
50°	4947.3	5002.6	5073.1	5113.4	5058.0	5118.4	4574.8	4665.4	5395.2	6034.4	5863.3
52.5°	4781.2	4836.6	4992.6	5178.8	5435.5	5616.6	5068.1	5143.6	5878.4	6472.2	6381.6
55°	4293.0	4343.3	4660.4	4912.0	5526.1	5823.0	5541.2	5858.2	6225.6	6930.2	6708.8
57.5°	3472.7	3533.1	3950.8	4338.3	5224.1	5707.2	5823.0	6452.1	6799.4	7267.4	7010.7
60°	2466.1	2501.3	2863.7	3548.1	4388.6	5128.5	5767.6	6895.0	7252.3	7720.4	7584.5
62.5°	1419.3	1449.5	1826.9	2471.1	3311.6	4282.9	5521.0	7312.7	7740.5	8218.6	8143.1
65°	941.1	951.2	1207.9	1560.2	2154.1	3155.6	4896.9	7685.1	8223.7	8616.2	8530.7
67.5°	619.0	674.4	875.7	1117.3	1379.0	1746.4	3991.0	7841.2	8777.3	9169.8	9149.7
70°	442.9	463.0	629.1	860.6	1036.8	981.4	2335.2	6739.0	8752.1	9320.8	9154.7
72.5°	261.7	281.8	417.7	644.2	815.3	624.1	1092.1	4766.1	7252.3	7438.5	7393.2
75°	191.2	191.2	256.7	463.0	593.9	447.9	513.3	3014.7	4816.4	5229.1	5224.1
77.5°	135.9	140.9	176.1	276.8	458.0	327.1	281.8	1675.9	2632.2	2878.8	2742.9
80°	80.5	85.6	120.8	166.1	332.2	236.5	186.2	765.0	1011.6	1021.7	971.3
82.5°	60.4	60.4	80.5	115.8	231.5	161.1	115.8	291.9	327.1	296.9	251.6
85°	35.2	30.2	60.4	85.6	135.9	90.6	80.5	135.9	151.0	110.7	100.7
87.5°	10.1	10.1	25.2	30.2	60.4	50.3	35.2	50.3	70.5	40.3	30.2
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: P676284
 CATALOG NUMBER: CCW-SA-2E-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0
2.5°	1545.1	1530.0	1504.8	1494.8	1459.5	1444.4	1434.4	1409.2	1414.2	1399.1	1399.1
5°	1530.0	1530.0	1479.7	1424.3	1368.9	1333.7	1293.4	1243.1	1243.1	1223.0	1228.0
7.5°	1585.3	1545.1	1479.7	1379.0	1288.4	1207.9	1172.7	1122.3	1092.1	1077.0	1077.0
10°	1620.6	1580.3	1469.6	1348.8	1233.0	1132.4	1056.9	986.4	946.2	946.2	941.1
12.5°	1716.2	1655.8	1509.9	1343.8	1172.7	1021.7	905.9	825.4	770.0	729.8	739.8
15°	1796.7	1731.3	1530.0	1303.5	1067.0	855.6	714.7	563.7	488.2	447.9	432.8
17.5°	1922.5	1801.8	1575.3	1233.0	905.9	669.4	463.0	337.2	307.0	302.0	302.0
20°	2028.2	1887.3	1580.3	1097.2	744.9	427.8	296.9	276.8	261.7	256.7	251.6
22.5°	2174.2	1998.0	1560.2	941.1	533.5	286.9	251.6	231.5	221.4	206.3	206.3
25°	2325.2	2144.0	1519.9	795.2	327.1	246.6	221.4	201.3	181.2	171.1	176.1
27.5°	2486.2	2254.7	1404.2	619.0	251.6	216.4	181.2	166.1	156.0	151.0	151.0
30°	2617.1	2325.2	1233.0	412.7	226.5	191.2	161.1	146.0	135.9	130.9	130.9
32.5°	2712.7	2385.6	1041.8	276.8	206.3	171.1	146.0	130.9	120.8	115.8	115.8
35°	2873.7	2430.9	865.6	236.5	186.2	151.0	125.8	115.8	105.7	105.7	105.7
37.5°	3120.4	2491.3	689.5	216.4	171.1	135.9	120.8	105.7	100.7	95.6	95.6
40°	3336.8	2566.7	493.2	196.3	156.0	125.8	105.7	95.6	90.6	85.6	85.6
42.5°	3648.8	2652.3	322.1	176.1	140.9	115.8	95.6	85.6	80.5	75.5	75.5
45°	4046.4	2793.2	251.6	156.0	125.8	105.7	90.6	80.5	70.5	70.5	65.4
47.5°	4469.2	2964.3	226.5	146.0	115.8	95.6	80.5	70.5	65.4	60.4	60.4
50°	4861.7	3130.4	211.4	135.9	105.7	90.6	75.5	65.4	55.4	50.3	50.3
52.5°	5214.0	3286.4	201.3	125.8	100.7	80.5	65.4	55.4	50.3	45.3	45.3
55°	5400.2	3356.9	196.3	120.8	90.6	75.5	60.4	50.3	45.3	40.3	40.3
57.5°	5692.1	3447.5	191.2	115.8	85.6	65.4	55.4	45.3	40.3	35.2	35.2
60°	6165.2	3744.4	186.2	110.7	80.5	65.4	50.3	40.3	30.2	25.2	25.2
62.5°	6557.8	3991.0	166.1	95.6	70.5	55.4	40.3	30.2	20.1	15.1	15.1
65°	7005.7	4106.8	146.0	85.6	60.4	45.3	30.2	20.1	15.1	5.0	5.0
67.5°	7493.9	4282.9	120.8	75.5	55.4	35.2	25.2	15.1	5.0	0.0	0.0
70°	7237.2	4061.5	100.7	65.4	50.3	30.2	20.1	10.1	0.0	0.0	0.0
72.5°	5672.0	2909.0	80.5	60.4	45.3	30.2	20.1	5.0	0.0	0.0	0.0
75°	3789.7	1645.7	70.5	50.3	35.2	25.2	15.1	5.0	0.0	0.0	0.0
77.5°	2058.4	739.8	60.4	45.3	30.2	20.1	15.1	5.0	0.0	0.0	0.0
80°	669.4	291.9	50.3	40.3	30.2	20.1	15.1	5.0	0.0	0.0	0.0
82.5°	181.2	90.6	50.3	40.3	30.2	20.1	15.1	5.0	0.0	0.0	0.0
85°	75.5	60.4	50.3	40.3	30.2	20.1	15.1	5.0	0.0	0.0	0.0
87.5°	30.2	20.1	20.1	25.2	20.1	15.1	10.1	5.0	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: P676284
 CATALOG NUMBER: CCW-SA-2E-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0
2.5°	1404.2	1414.2	1419.3	1419.3	1444.4	1469.6	1499.8	1524.9	1524.9	1540.0	1555.1
5°	1233.0	1243.1	1258.2	1303.5	1353.8	1409.2	1464.6	1504.8	1560.2	1585.3	1600.4
7.5°	1092.1	1102.2	1142.5	1187.7	1258.2	1353.8	1449.5	1540.0	1595.4	1620.6	1640.7
10°	946.2	961.3	1006.6	1087.1	1177.7	1293.4	1404.2	1560.2	1650.8	1701.1	1721.2
12.5°	734.8	775.1	835.5	921.0	1036.8	1212.9	1419.3	1580.3	1736.3	1796.7	1837.0
15°	463.0	498.3	593.9	729.8	885.8	1092.1	1379.0	1610.5	1826.9	1887.3	1952.7
17.5°	296.9	302.0	332.2	478.1	679.4	941.1	1318.6	1655.8	1927.6	2013.1	2113.8
20°	251.6	261.7	266.7	286.9	453.0	775.1	1192.8	1711.2	2048.4	2164.1	2259.7
22.5°	211.4	216.4	226.5	241.6	271.8	563.7	1021.7	1711.2	2154.1	2325.2	2435.9
25°	171.1	181.2	191.2	206.3	236.5	352.3	845.5	1681.0	2279.9	2491.3	2632.2
27.5°	151.0	151.0	161.1	176.1	201.3	246.6	669.4	1590.4	2375.5	2591.9	2778.1
30°	130.9	135.9	140.9	156.0	181.2	216.4	463.0	1444.4	2476.2	2788.2	2999.6
32.5°	115.8	115.8	125.8	135.9	161.1	196.3	296.9	1223.0	2607.0	2939.2	3236.1
35°	105.7	105.7	110.7	120.8	146.0	176.1	231.5	1036.8	2763.0	3226.0	3553.2
37.5°	95.6	95.6	100.7	110.7	130.9	156.0	211.4	890.8	2924.1	3512.9	3991.0
40°	85.6	85.6	90.6	100.7	115.8	140.9	191.2	719.7	3125.4	3935.7	4469.2
42.5°	75.5	75.5	80.5	90.6	105.7	125.8	166.1	538.5	3392.1	4393.7	5088.2
45°	65.4	65.4	70.5	80.5	90.6	115.8	151.0	412.7	3684.0	4902.0	5631.7
47.5°	55.4	60.4	65.4	75.5	85.6	105.7	135.9	362.4	3970.9	5440.5	6235.7
50°	50.3	50.3	55.4	65.4	80.5	95.6	125.8	357.3	4262.8	5853.2	6854.7
52.5°	45.3	45.3	50.3	60.4	75.5	90.6	120.8	367.4	4504.4	6235.7	7287.5
55°	40.3	40.3	45.3	50.3	65.4	85.6	110.7	377.5	4675.5	6623.2	7634.8
57.5°	35.2	35.2	40.3	50.3	60.4	75.5	100.7	387.5	4952.3	7005.7	8138.1
60°	25.2	25.2	35.2	45.3	55.4	65.4	95.6	397.6	5395.2	7534.2	8565.9
62.5°	15.1	15.1	20.1	35.2	45.3	60.4	85.6	377.5	5807.9	8213.6	9220.2
65°	5.0	10.1	15.1	20.1	35.2	50.3	70.5	342.2	6155.2	8893.0	9824.1
67.5°	0.0	0.0	5.0	15.1	30.2	40.3	60.4	251.6	6210.5	9200.0	10443.1
70°	0.0	0.0	5.0	15.1	25.2	40.3	55.4	140.9	5289.5	8218.6	9572.5
72.5°	0.0	0.0	0.0	10.1	25.2	35.2	50.3	105.7	3900.4	6195.4	7564.4
75°	0.0	0.0	0.0	5.0	20.1	30.2	45.3	80.5	2370.5	4132.0	4937.2
77.5°	0.0	0.0	0.0	5.0	15.1	30.2	45.3	70.5	835.5	1967.8	2320.1
80°	0.0	0.0	0.0	10.1	20.1	30.2	40.3	60.4	201.3	493.2	664.3
82.5°	0.0	0.0	0.0	5.0	15.1	25.2	35.2	50.3	80.5	146.0	231.5
85°	0.0	0.0	0.0	5.0	10.1	25.2	35.2	45.3	55.4	70.5	100.7
87.5°	0.0	0.0	0.0	0.0	5.0	10.1	15.1	20.1	20.1	20.1	35.2
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: P676284
 CATALOG NUMBER: CCW-SA-2E-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0
2.5°	1550.1	1570.2	1580.3	1600.4	1610.5	1605.5	1600.4	1615.5	1605.5	1590.4
5°	1605.5	1605.5	1620.6	1625.6	1625.6	1610.5	1620.6	1615.5	1605.5	1605.5
7.5°	1665.9	1691.0	1691.0	1660.8	1655.8	1645.7	1645.7	1605.5	1590.4	1605.5
10°	1726.3	1746.4	1751.4	1716.2	1670.9	1650.8	1625.6	1575.3	1550.1	1560.2
12.5°	1852.1	1852.1	1796.7	1756.5	1696.1	1625.6	1565.2	1494.8	1459.5	1469.6
15°	1942.7	1962.8	1887.3	1796.7	1691.0	1560.2	1494.8	1439.4	1419.3	1404.2
17.5°	2118.8	2078.6	1957.8	1826.9	1675.9	1540.0	1494.8	1444.4	1429.3	1429.3
20°	2269.8	2249.7	2068.5	1832.0	1670.9	1580.3	1550.1	1524.9	1519.9	1504.8
22.5°	2476.2	2385.6	2154.1	1887.3	1726.3	1645.7	1635.7	1660.8	1645.7	1635.7
25°	2632.2	2556.7	2219.5	1967.8	1811.8	1786.7	1801.8	1826.9	1786.7	1771.6
27.5°	2843.6	2702.6	2345.3	2073.5	1927.6	1952.7	2003.1	2008.1	1982.9	1998.0
30°	3039.8	2888.8	2440.9	2194.3	2123.9	2149.0	2224.5	2279.9	2244.6	2224.5
32.5°	3321.7	3090.2	2632.2	2395.6	2370.5	2435.9	2521.5	2556.7	2511.4	2501.3
35°	3618.6	3321.7	2828.5	2622.1	2667.4	2758.0	2833.5	2893.9	2823.4	2853.6
37.5°	4081.6	3694.1	3160.6	2979.4	2999.6	3034.8	3175.7	3341.8	3377.0	3316.6
40°	4564.8	4096.7	3467.6	3326.7	3372.0	3467.6	3633.7	3789.7	3870.3	3789.7
42.5°	5123.4	4484.3	3940.7	3774.6	3819.9	3955.8	4177.3	4303.1	4293.0	4172.2
45°	5812.9	5022.8	4383.6	4177.3	4343.3	4464.1	4685.6	4700.7	4605.0	4574.8
47.5°	6341.4	5475.7	4861.7	4730.9	4957.3	4962.4	5012.7	5017.7	4912.0	4876.8
50°	6925.2	5999.1	5395.2	5204.0	5586.4	5410.3	5274.4	5183.8	5022.8	4947.3
52.5°	7498.9	6371.6	5888.4	5692.1	6089.7	5621.7	5375.1	5098.3	4861.7	4781.2
55°	7805.9	6985.6	6608.1	6150.1	6200.5	5682.1	5063.0	4715.8	4313.1	4293.0
57.5°	8168.3	7398.3	7217.1	6462.2	6014.2	5259.3	4413.8	3955.8	3523.0	3472.7
60°	8596.1	8052.5	7861.3	6411.8	5354.9	4418.8	3497.8	2909.0	2501.3	2466.1
62.5°	9074.2	8827.6	8258.9	5918.6	4252.7	3110.3	2310.1	1816.9	1439.4	1419.3
65°	9829.1	9476.8	8470.3	4982.5	2813.4	1993.0	1535.0	1177.7	951.2	941.1
67.5°	10302.2	9723.4	7997.2	3553.2	1560.2	1318.6	1077.0	855.6	659.3	619.0
70°	9632.8	8923.2	6326.3	2033.3	905.9	1001.5	830.4	573.7	453.0	442.9
72.5°	7695.2	6623.2	4257.8	956.2	563.7	785.1	603.9	387.5	271.8	261.7
75°	5249.2	4167.2	2672.4	442.9	397.6	573.7	442.9	226.5	191.2	191.2
77.5°	2345.3	2123.9	1368.9	271.8	296.9	437.9	256.7	156.0	140.9	135.9
80°	714.7	749.9	558.6	186.2	221.4	332.2	156.0	105.7	85.6	80.5
82.5°	241.6	281.8	251.6	110.7	151.0	236.5	105.7	70.5	60.4	60.4
85°	115.8	140.9	125.8	70.5	80.5	115.8	85.6	55.4	35.2	35.2
87.5°	45.3	65.4	45.3	30.2	45.3	60.4	35.2	25.2	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)