

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: P677356

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677356
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-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

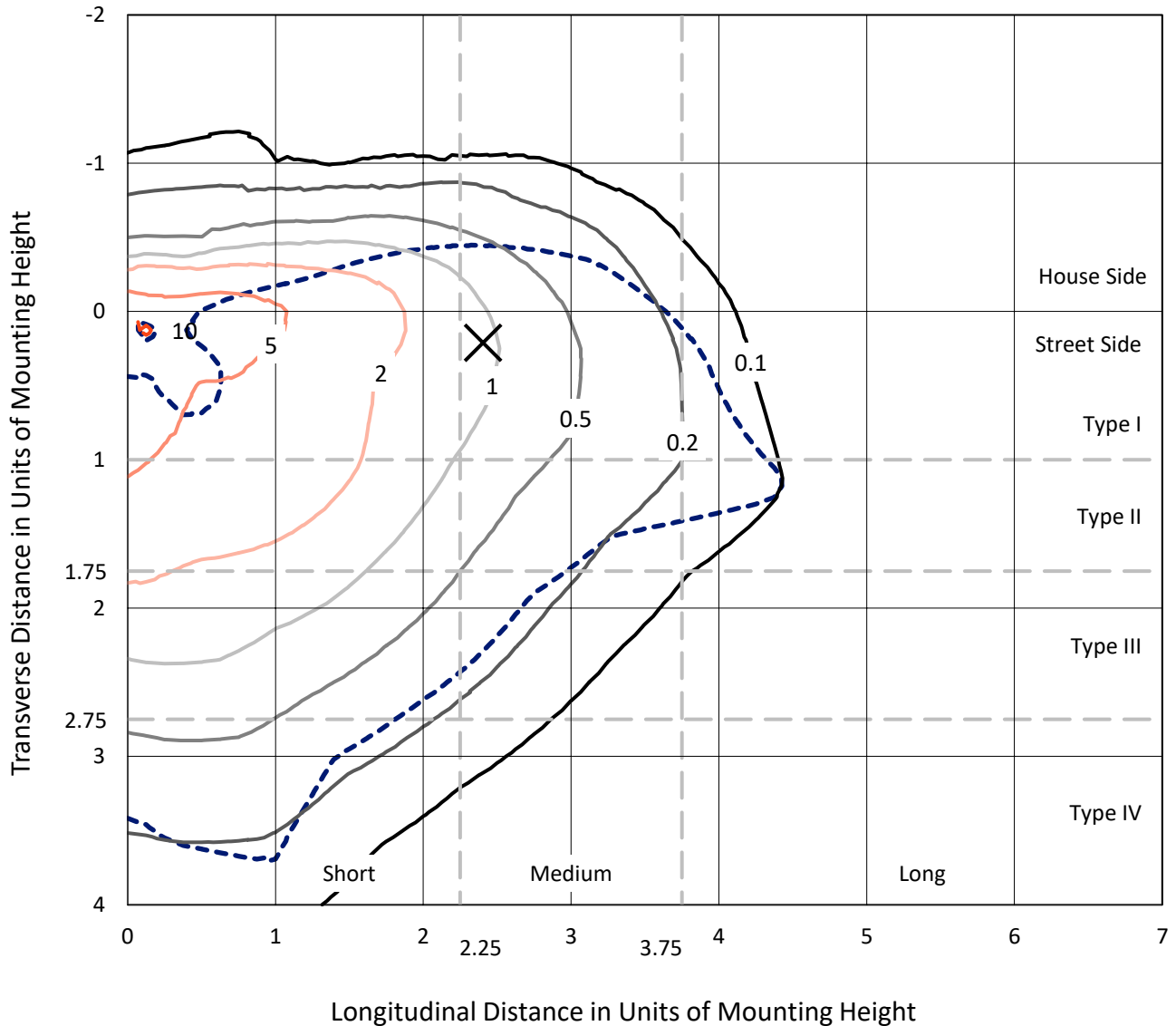
Lumens per Lamp: N/A
Luminaire Lumens: 5593 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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: P677356
 CATALOG NUMBER: CCW-SA-2C-840-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

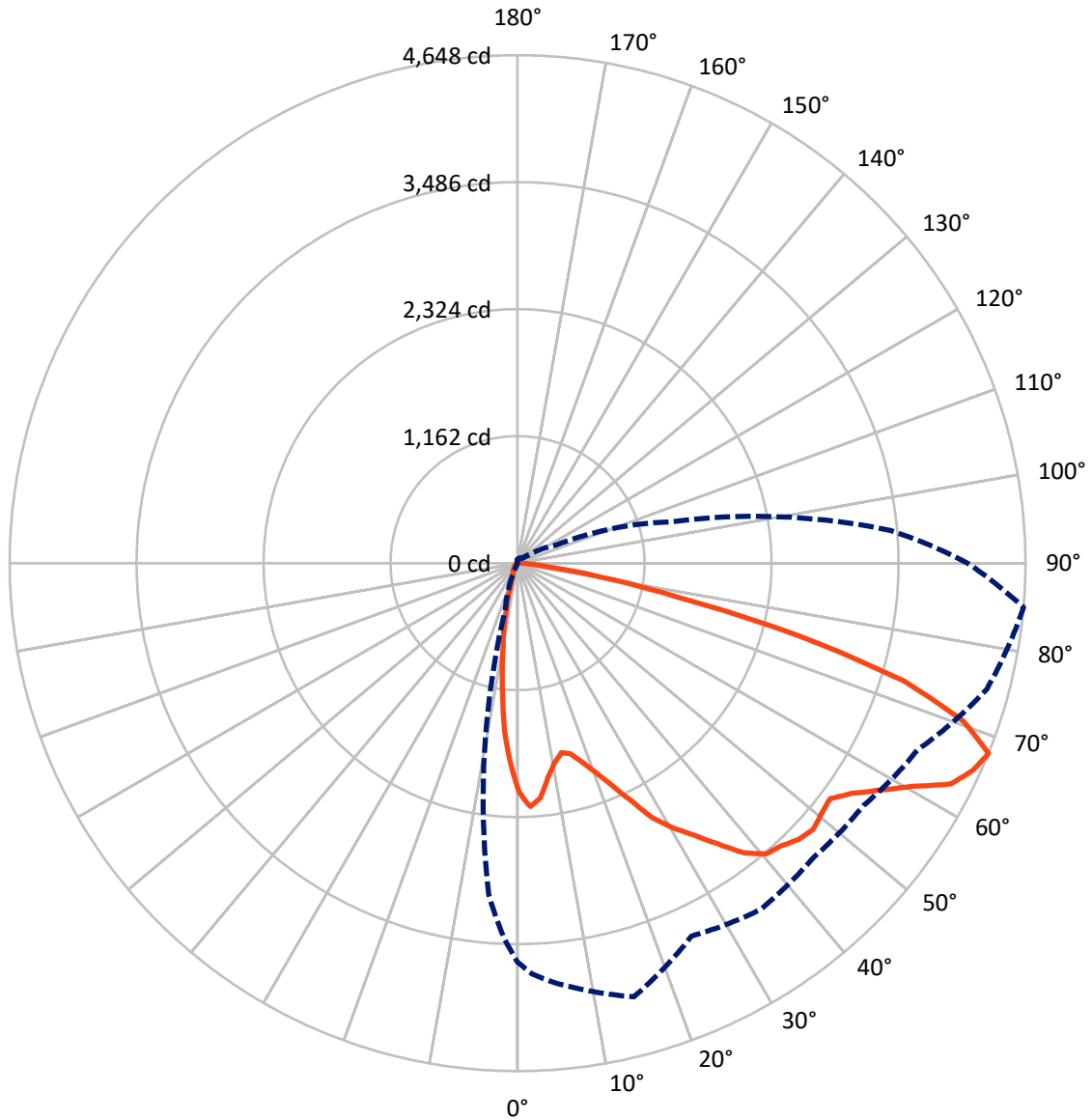
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P677356
CATALOG NUMBER: CCW-SA-2C-840-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P677356
 CATALOG NUMBER: CCW-SA-2C-840-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	971.1	0.0	971.1
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	4621.9	0.0	4621.9
	% Fixture	82.6	0.0	82.6
Total	Lumens	5593.0	0.0	5593.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	2.9
10°-20°	313.3	5.6
20°-30°	433.5	7.8
30°-40°	612.7	11.0
40°-50°	834.2	14.9
50°-60°	1104.8	19.8
60°-70°	1282.8	22.9
70°-80°	726.5	13.0
80°-90°	125.5	2.2
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°	5593.0	100.0
0°-180°	5593.0	100.0



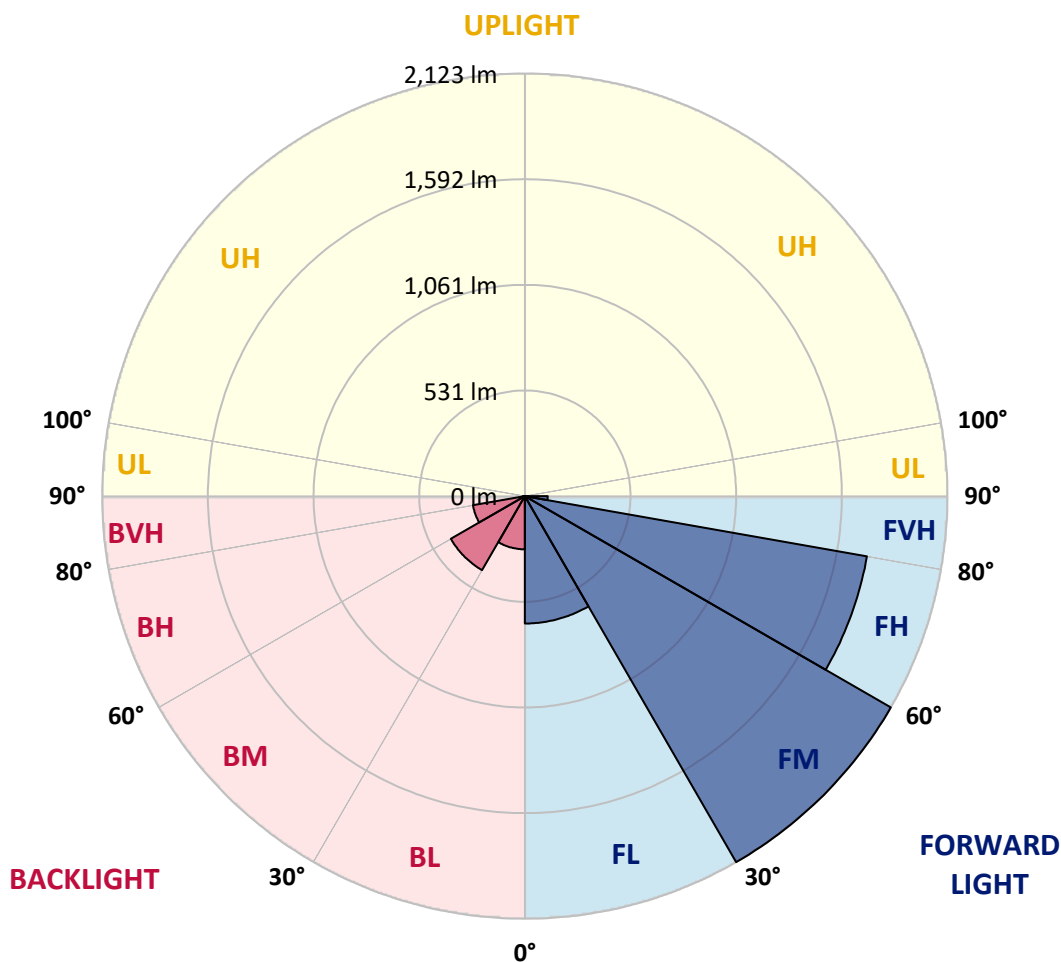
REPORT NUMBER: P677356
 CATALOG NUMBER: CCW-SA-2C-840-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	639.6	11.4			
FM (30°-60°)	2122.6	38.0			
FH (60°-80°)	1744.8	31.2			G1/1800
FVH (80°-90°)	114.9	2.1			G2/225
BL (0°-30°)	267.0	4.8	B1/500		
BM (30°-60°)	429.1	7.7	B1/1000		
BH (60°-80°)	264.5	4.7	B1/500		G1/500
BVH (80°-90°)	10.6	0.2			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 III Medium





REPORT NUMBER: P677356

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

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9
2.5°	2185.1	2231.4	2232.9	2253.8	2274.7	2274.7	2324.0	2312.0	2268.7	2261.3	2229.9
5°	2201.5	2217.9	2229.9	2335.9	2425.6	2416.6	2443.5	2425.6	2341.9	2234.4	2161.2
7.5°	2059.6	2077.6	2125.3	2306.1	2427.0	2467.4	2518.2	2406.1	2318.0	2123.9	1983.5
10°	1871.4	1905.8	1993.9	2200.0	2349.4	2477.8	2477.8	2388.2	2217.9	2028.3	1856.5
12.5°	1766.9	1835.6	1883.4	2092.5	2286.7	2374.8	2371.8	2324.0	2213.5	1974.5	1780.3
15°	1784.8	1804.2	1905.8	2068.6	2197.0	2192.6	2246.3	2231.4	2153.7	2022.3	1808.7
17.5°	1867.0	1896.8	1985.0	2068.6	2129.8	2111.9	2110.4	2182.1	2186.6	2102.9	1914.8
20°	2001.4	2089.5	2131.3	2156.7	2082.0	2005.9	1996.9	2097.0	2174.6	2206.0	2041.7
22.5°	2216.5	2274.7	2359.8	2229.9	2035.7	1940.1	1922.2	2032.7	2189.6	2328.5	2206.0
25°	2427.0	2471.9	2554.0	2386.7	2088.0	1926.7	1895.3	1990.9	2246.3	2498.7	2404.6
27.5°	2649.6	2688.4	2697.4	2501.7	2116.4	1899.8	1862.5	1990.9	2294.1	2588.4	2642.1
30°	2785.5	2831.8	2840.8	2603.3	2162.7	1922.2	1904.3	1999.9	2327.0	2664.5	2812.4
32.5°	2937.8	2949.8	2942.3	2621.2	2213.5	1987.9	1913.3	2059.6	2364.3	2755.6	2967.7
35°	3120.1	3141.0	3064.8	2703.4	2327.0	2029.8	2002.9	2132.8	2428.5	2797.5	3155.9
37.5°	3259.0	3324.7	3152.9	2734.7	2349.4	2117.9	2122.4	2285.2	2473.3	2848.2	3363.5
40°	3520.3	3409.8	3302.3	2842.3	2434.5	2267.2	2243.3	2442.0	2624.2	2881.1	3499.4
42.5°	3663.7	3605.5	3360.5	2852.7	2566.0	2473.3	2479.3	2619.7	2703.4	2973.7	3536.8
45°	3699.6	3638.3	3439.7	2860.2	2695.9	2716.8	2819.9	2846.7	2819.9	3034.9	3607.0
47.5°	3790.7	3657.7	3430.7	2960.3	2906.5	2987.1	3118.6	3176.8	2978.2	3012.5	3639.8
50°	3772.8	3696.6	3411.3	3002.1	3163.4	3377.0	3465.1	3441.2	3154.4	2966.2	3604.0
52.5°	3698.1	3615.9	3471.1	3115.6	3403.8	3662.2	3784.7	3725.0	3311.2	3070.8	3580.1
55°	3807.1	3744.4	3548.7	3269.4	3584.6	3913.1	3999.8	3955.0	3503.9	3167.9	3716.0
57.5°	3925.1	3911.7	3759.3	3450.1	3798.1	4171.5	4171.5	4116.3	3671.2	3308.3	3917.6
60°	4095.4	4125.2	3914.6	3569.6	3871.3	4156.6	4373.2	4308.9	3840.0	3554.7	4146.1
62.5°	4040.1	4135.7	4114.8	3826.5	3955.0	4229.8	4347.8	4395.6	4049.1	3854.9	4450.8
65°	3862.4	3963.9	4113.3	3995.3	3892.2	4052.1	4111.8	4256.7	4153.6	4137.2	4576.3
67.5°	3650.3	3760.8	3853.4	4108.8	3765.3	3871.3	3819.1	3865.4	4040.1	4446.4	4648.0
70°	3187.3	3293.3	3439.7	3856.4	3429.2	3333.6	3320.2	3297.8	3569.6	4335.8	4322.4
72.5°	2621.2	2670.5	2912.5	3135.0	2537.6	2519.7	2540.6	2515.2	2830.3	3925.1	3702.6
75°	1962.5	2011.8	2149.2	2407.6	1728.1	1625.0	1744.5	1862.5	2161.2	3046.9	2660.0
77.5°	1475.6	1538.4	1625.0	1801.2	1268.0	1106.7	1123.2	1235.2	1562.3	2440.5	1490.6
80°	957.4	949.9	1117.2	1239.7	954.4	984.3	942.4	1024.6	1132.1	1305.4	761.7
82.5°	552.6	560.1	630.3	710.9	664.6	760.2	548.1	915.6	808.0	531.7	283.8
85°	310.7	324.1	388.3	492.9	416.7	279.3	228.5	454.0	507.8	218.1	137.4
87.5°	31.4	26.9	52.3	186.7	113.5	46.3	68.7	109.0	122.5	82.1	40.3
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: P677356

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9
2.5°	2185.1	2185.1	2147.8	2085.0	2059.6	2014.8	1953.6	1973.0	1952.1	1875.9	1856.5
5°	2095.5	2023.8	1946.1	1850.5	1795.3	1681.8	1645.9	1581.7	1592.1	1527.9	1530.9
7.5°	1908.8	1852.0	1720.6	1595.1	1486.1	1387.5	1248.6	1196.3	1145.6	1120.2	1150.0
10°	1799.8	1693.7	1514.5	1350.2	1205.3	1117.2	1024.6	952.9	887.2	837.9	827.4
12.5°	1720.6	1626.5	1409.9	1209.8	1096.3	1024.6	939.5	840.9	776.7	691.5	666.1
15°	1696.7	1581.7	1353.2	1154.5	1044.0	926.0	828.9	731.8	648.2	558.6	527.2
17.5°	1778.8	1645.9	1351.7	1109.7	954.4	827.4	693.0	584.0	498.9	416.7	397.3
20°	1917.7	1714.6	1395.0	1082.8	869.3	699.0	546.6	437.6	342.0	288.3	274.8
22.5°	2076.1	1831.1	1399.5	1011.1	784.1	570.5	398.8	288.3	234.5	209.1	201.6
25°	2270.2	2017.8	1453.2	952.9	684.1	433.1	283.8	221.0	189.7	174.7	171.8
27.5°	2430.0	2147.8	1511.5	891.7	585.5	321.1	222.5	180.7	164.3	149.4	147.9
30°	2595.8	2297.1	1527.9	854.3	500.3	264.4	191.2	159.8	141.9	134.4	132.9
32.5°	2740.7	2459.9	1580.2	793.1	419.7	233.0	173.3	143.4	131.4	119.5	118.0
35°	2927.4	2554.0	1605.6	760.2	389.8	210.6	158.3	131.4	113.5	106.0	103.1
37.5°	3127.5	2645.1	1622.0	734.8	364.4	197.2	149.4	124.0	107.5	97.1	94.1
40°	3314.2	2773.6	1598.1	703.5	345.0	180.7	143.4	115.0	100.1	89.6	85.1
42.5°	3457.6	2899.0	1590.7	673.6	324.1	174.7	135.9	110.5	94.1	82.1	80.7
45°	3538.3	2984.2	1538.4	649.7	307.7	177.7	132.9	104.5	89.6	79.2	73.2
47.5°	3518.8	3049.9	1551.8	642.2	285.3	165.8	131.4	100.1	82.1	73.2	68.7
50°	3626.4	3182.8	1529.4	618.3	268.8	149.4	143.4	100.1	80.7	70.2	65.7
52.5°	3644.3	3303.8	1577.2	575.0	243.5	137.4	141.9	98.6	77.7	67.2	61.2
55°	3793.7	3444.2	1669.8	551.1	222.5	119.5	129.9	95.6	70.2	61.2	58.2
57.5°	3996.8	3735.4	1729.6	528.7	194.2	104.5	109.0	94.1	64.2	56.8	52.3
60°	4192.4	3851.9	1734.0	488.4	167.3	94.1	85.1	94.1	59.7	50.8	46.3
62.5°	4338.8	3851.9	1704.2	454.0	146.4	83.6	74.7	89.6	53.8	44.8	41.8
65°	4259.7	3748.9	1626.5	425.7	132.9	73.2	64.2	68.7	47.8	38.8	35.8
67.5°	4117.8	3427.7	1454.7	391.3	131.4	64.2	55.3	50.8	41.8	34.4	31.4
70°	3890.7	2994.6	1211.3	352.5	128.4	58.2	49.3	43.3	37.3	29.9	26.9
72.5°	3135.0	2473.3	994.7	330.1	125.5	50.8	41.8	37.3	31.4	25.4	22.4
75°	2171.6	1580.2	766.2	282.3	122.5	46.3	38.8	32.9	26.9	20.9	19.4
77.5°	1302.4	1056.0	494.4	212.1	80.7	37.3	32.9	25.4	22.4	17.9	16.4
80°	609.4	498.9	200.1	82.1	38.8	26.9	22.4	19.4	17.9	14.9	13.4
82.5°	239.0	210.6	97.1	47.8	31.4	20.9	17.9	16.4	14.9	11.9	10.5
85°	128.4	113.5	46.3	32.9	22.4	14.9	14.9	13.4	11.9	10.5	9.0
87.5°	28.4	20.9	19.4	19.4	16.4	11.9	11.9	10.5	9.0	7.5	6.0
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: P677356
 CATALOG NUMBER: CCW-SA-2C-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9
2.5°	1846.1	1868.5	1832.6	1855.0	1823.6	1847.5	1850.5	1828.1	1834.1	1864.0	1877.4
5°	1572.7	1557.8	1524.9	1514.5	1516.0	1496.6	1504.0	1514.5	1530.9	1539.9	1566.8
7.5°	1133.6	1168.0	1166.5	1191.9	1193.4	1190.4	1169.5	1124.7	1139.6	1127.6	1142.6
10°	811.0	825.9	854.3	870.8	900.6	884.2	836.4	818.5	809.5	808.0	823.0
12.5°	648.2	612.4	609.4	615.4	630.3	610.9	587.0	566.1	576.5	597.4	613.9
15°	501.8	472.0	433.1	427.2	430.1	421.2	395.8	368.9	376.4	397.3	409.2
17.5°	385.3	351.0	324.1	306.2	300.2	268.8	231.5	209.1	203.1	201.6	212.1
20°	259.9	253.9	249.4	227.0	227.0	182.2	150.9	134.4	134.4	137.4	138.9
22.5°	194.2	186.7	188.2	183.7	171.8	135.9	119.5	115.0	115.0	118.0	118.0
25°	168.8	158.3	155.3	153.8	141.9	116.5	104.5	100.1	100.1	103.1	103.1
27.5°	143.4	140.4	135.9	129.9	119.5	100.1	92.6	88.1	89.6	91.1	89.6
30°	131.4	124.0	118.0	118.0	106.0	89.6	83.6	80.7	77.7	80.7	82.1
32.5°	116.5	112.0	109.0	104.5	91.1	79.2	73.2	70.2	68.7	68.7	70.2
35°	100.1	100.1	97.1	91.1	79.2	71.7	64.2	61.2	59.7	61.2	61.2
37.5°	89.6	85.1	86.6	80.7	70.2	62.7	55.3	52.3	52.3	50.8	52.3
40°	83.6	76.2	71.7	68.7	62.7	53.8	47.8	44.8	43.3	43.3	43.3
42.5°	74.7	68.7	59.7	58.2	56.8	46.3	38.8	37.3	35.8	34.4	34.4
45°	70.2	61.2	53.8	46.3	46.3	38.8	32.9	29.9	28.4	26.9	28.4
47.5°	64.2	55.3	46.3	38.8	37.3	31.4	25.4	22.4	20.9	20.9	20.9
50°	61.2	49.3	40.3	32.9	28.4	25.4	19.4	16.4	14.9	14.9	14.9
52.5°	56.8	46.3	35.8	28.4	22.4	19.4	14.9	11.9	10.5	10.5	10.5
55°	50.8	41.8	31.4	23.9	19.4	14.9	10.5	7.5	6.0	6.0	6.0
57.5°	47.8	37.3	26.9	20.9	14.9	10.5	6.0	4.5	4.5	3.0	4.5
60°	43.3	32.9	22.4	16.4	11.9	7.5	4.5	1.5	1.5	1.5	1.5
62.5°	37.3	28.4	19.4	13.4	9.0	4.5	1.5	0.0	0.0	0.0	0.0
65°	31.4	22.4	14.9	10.5	6.0	1.5	0.0	0.0	0.0	0.0	0.0
67.5°	26.9	19.4	11.9	7.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	23.9	16.4	9.0	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	19.4	13.4	7.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.4	10.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.4	7.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.5	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	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: P677356
 CATALOG NUMBER: CCW-SA-2C-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9	2102.9
2.5°	1896.8	1887.9	1932.7	2005.9	2043.2	2116.4	2134.3	2180.6	2168.7	2185.1
5°	1569.7	1587.7	1653.4	1760.9	1799.8	1905.8	2005.9	2105.9	2170.2	2201.5
7.5°	1165.0	1224.7	1305.4	1404.0	1504.0	1642.9	1813.2	1929.7	1992.4	2059.6
10°	867.8	932.0	1024.6	1121.7	1284.5	1439.8	1610.1	1754.9	1808.7	1871.4
12.5°	682.6	782.6	890.2	994.7	1091.8	1239.7	1450.3	1660.8	1719.1	1766.9
15°	475.0	597.4	751.3	887.2	1023.1	1151.5	1369.6	1625.0	1704.2	1784.8
17.5°	262.9	360.0	536.2	727.4	927.5	1124.7	1396.5	1690.7	1810.2	1867.0
20°	152.3	191.2	316.6	543.7	808.0	1066.4	1409.9	1814.7	1973.0	2001.4
22.5°	125.5	138.9	179.2	340.5	661.7	1029.1	1478.6	1987.9	2149.2	2216.5
25°	107.5	118.0	138.9	204.6	500.3	949.9	1521.9	2204.5	2353.9	2427.0
27.5°	95.6	106.0	122.5	150.9	340.5	840.9	1593.6	2400.2	2549.5	2649.6
30°	83.6	92.6	109.0	128.4	236.0	718.4	1654.9	2543.5	2754.1	2785.5
32.5°	74.7	82.1	94.1	110.5	174.7	545.2	1704.2	2691.4	2869.1	2937.8
35°	64.2	73.2	80.7	94.1	132.9	410.7	1674.3	2806.4	3037.9	3120.1
37.5°	56.8	62.7	70.2	79.2	112.0	321.1	1613.1	2943.8	3182.8	3259.0
40°	47.8	52.3	61.2	70.2	101.6	247.9	1542.9	3109.6	3385.9	3520.3
42.5°	40.3	44.8	50.8	65.7	83.6	183.7	1401.0	3238.1	3550.2	3663.7
45°	31.4	37.3	46.3	65.7	67.2	135.9	1254.6	3333.6	3642.8	3699.6
47.5°	23.9	29.9	44.8	56.8	53.8	94.1	1081.3	3442.7	3738.4	3790.7
50°	17.9	23.9	50.8	49.3	44.8	71.7	972.3	3518.8	3744.4	3772.8
52.5°	11.9	17.9	41.8	37.3	37.3	62.7	942.4	3515.9	3759.3	3698.1
55°	9.0	13.4	23.9	26.9	32.9	55.3	915.6	3627.9	3763.8	3807.1
57.5°	6.0	10.5	16.4	20.9	28.4	47.8	860.3	3762.3	3902.7	3925.1
60°	3.0	7.5	11.9	16.4	23.9	41.8	782.6	3860.9	4071.5	4095.4
62.5°	1.5	4.5	9.0	13.4	19.4	32.9	702.0	3704.1	3998.3	4040.1
65°	0.0	3.0	6.0	9.0	11.9	23.9	570.5	3344.1	3708.5	3862.4
67.5°	0.0	0.0	3.0	6.0	7.5	17.9	430.1	3042.4	3441.2	3650.3
70°	0.0	0.0	1.5	1.5	4.5	13.4	274.8	2519.7	3072.3	3187.3
72.5°	0.0	0.0	0.0	0.0	1.5	9.0	159.8	1871.4	2407.6	2621.2
75°	0.0	0.0	0.0	0.0	0.0	7.5	80.7	1203.8	1675.8	1962.5
77.5°	0.0	0.0	0.0	0.0	0.0	6.0	43.3	776.7	1235.2	1475.6
80°	0.0	0.0	0.0	0.0	0.0	1.5	25.4	451.1	790.1	957.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.5	221.0	472.0	552.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	118.0	236.0	310.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	16.4	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)