

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: P677325

Luminaire Tested: **CCW-SA-2E-827-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677325  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-827-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
SLL distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

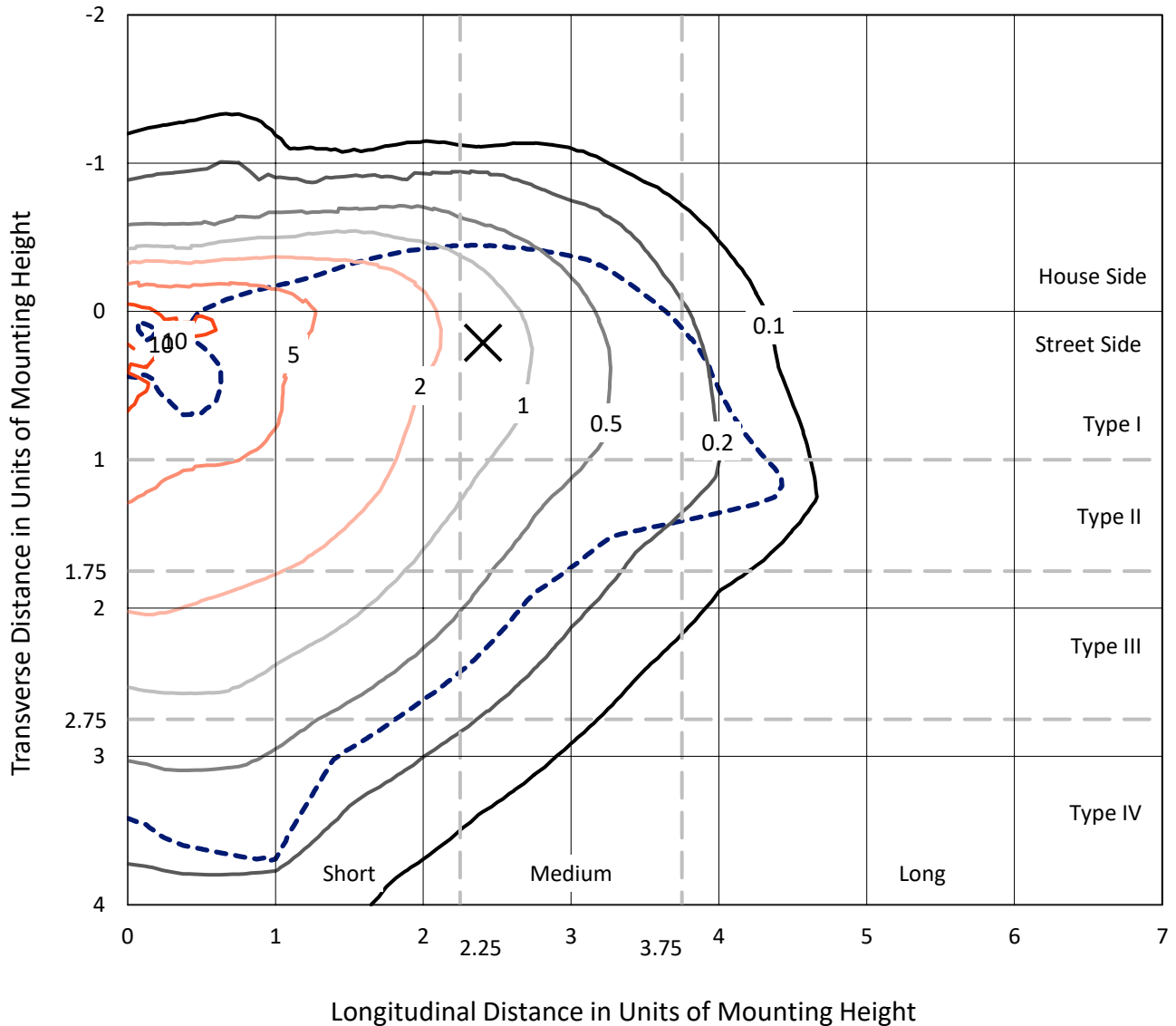
Lumens per Lamp: N/A  
Luminaire Lumens: 7292.4 lumens  
Efficiency: N/A  
Efficacy: 68.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P677325  
 CATALOG NUMBER: CCW-SA-2E-827-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

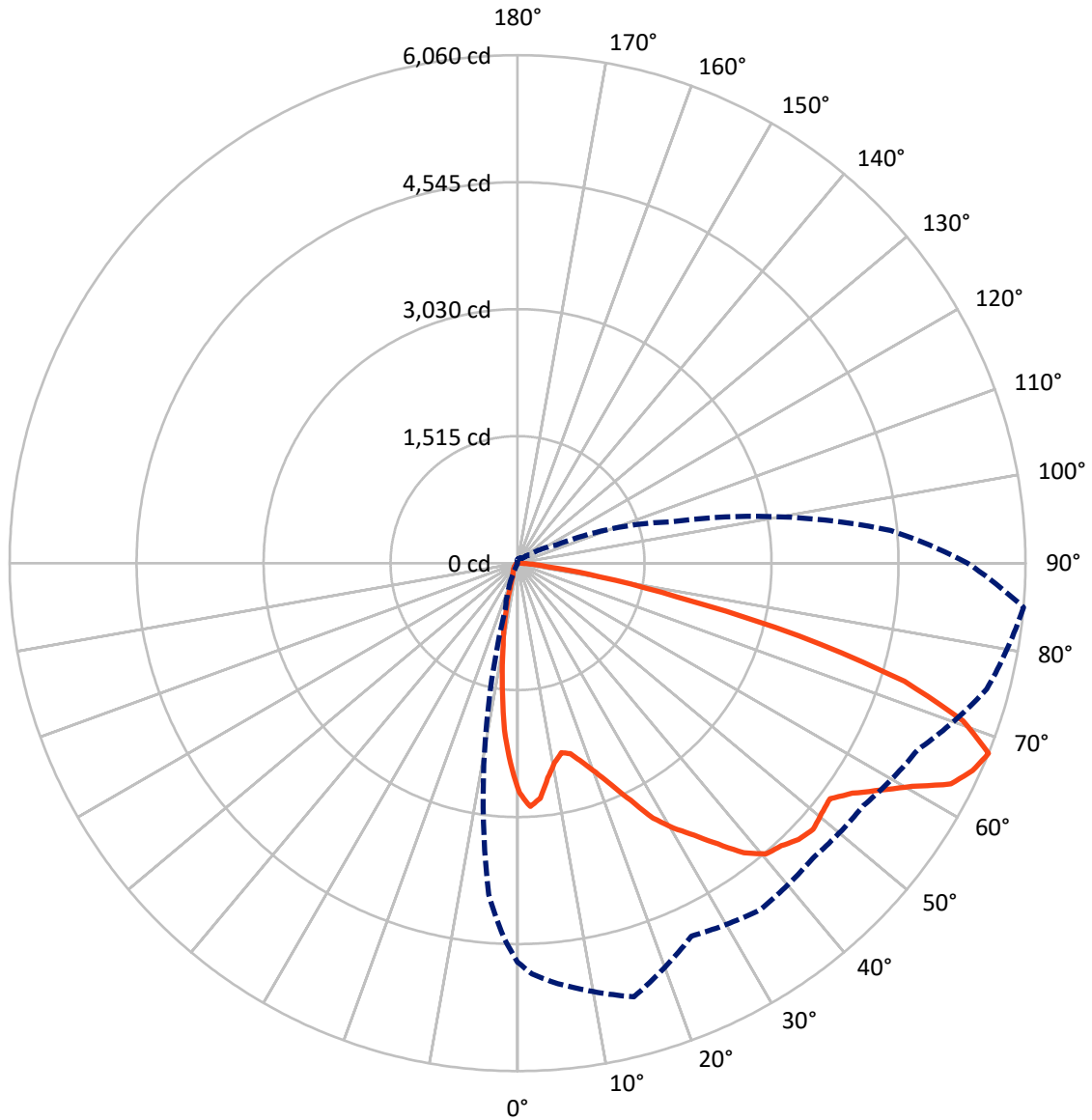
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P677325  
CATALOG NUMBER: CCW-SA-2E-827-U-SLL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P677325  
 CATALOG NUMBER: CCW-SA-2E-827-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1266.2	0.0	1266.2
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	6026.2	0.0	6026.2
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	7292.4	0.0	7292.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.3	2.9
10°-20°	408.5	5.6
20°-30°	565.3	7.8
30°-40°	798.9	11.0
40°-50°	1087.6	14.9
50°-60°	1440.5	19.8
60°-70°	1672.5	22.9
70°-80°	947.2	13.0
80°-90°	163.7	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°	7292.4	100.0
0°-180°	7292.4	100.0



REPORT NUMBER: P677325

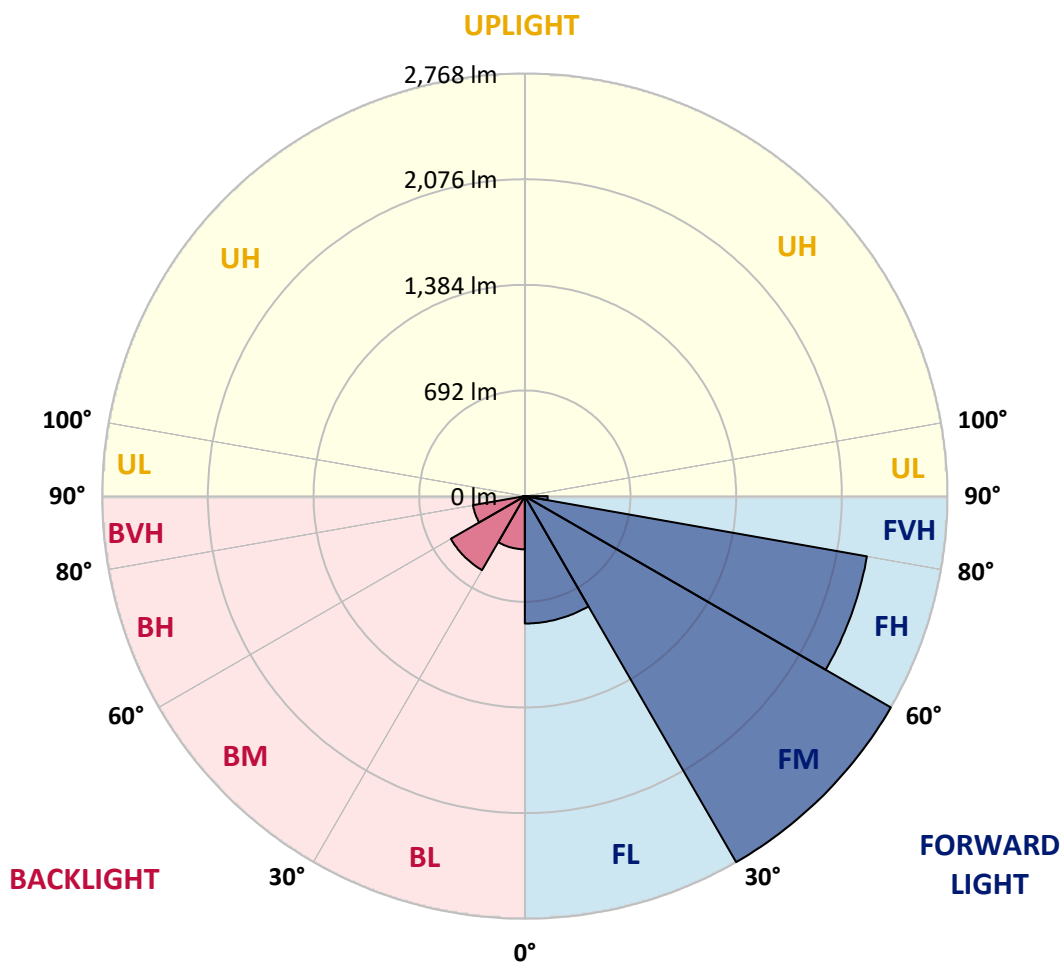
CATALOG NUMBER: CCW-SA-2E-827-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.9	11.4			
FM (30°-60°)	2767.6	38.0			
FH (60°-80°)	2274.9	31.2			G2/5000
FVH (80°-90°)	149.9	2.1			G2/225
BL (0°-30°)	348.1	4.8	B1/500		
BM (30°-60°)	559.5	7.7	B1/1000		
BH (60°-80°)	344.8	4.7	B1/500		G1/500
BVH (80°-90°)	13.8	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: P677325

CATALOG NUMBER: CCW-SA-2E-827-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9
2.5°	2849.0	2909.4	2911.3	2938.6	2965.9	2965.9	3030.1	3014.5	2958.1	2948.3	2907.4
5°	2870.4	2891.9	2907.4	3045.7	3162.5	3150.9	3185.9	3162.5	3053.5	2913.3	2817.9
7.5°	2685.4	2708.8	2771.1	3006.8	3164.5	3217.1	3283.3	3137.2	3022.3	2769.2	2586.1
10°	2440.1	2484.9	2599.8	2868.5	3063.2	3230.7	3230.7	3113.9	2891.9	2644.5	2420.6
12.5°	2303.7	2393.3	2455.6	2728.3	2981.4	3096.3	3092.4	3030.1	2886.0	2574.4	2321.3
15°	2327.1	2352.4	2484.9	2697.1	2864.6	2858.8	2928.9	2909.4	2808.1	2636.8	2358.3
17.5°	2434.2	2473.2	2588.1	2697.1	2777.0	2753.6	2751.6	2845.1	2851.0	2741.9	2496.5
20°	2609.5	2724.4	2778.9	2812.0	2714.6	2615.3	2603.6	2734.1	2835.4	2876.3	2662.1
22.5°	2889.9	2965.9	3076.9	2907.4	2654.3	2529.6	2506.3	2650.4	2854.9	3036.0	2876.3
25°	3164.5	3222.9	3330.0	3111.9	2722.4	2512.1	2471.2	2595.9	2928.9	3258.0	3135.3
27.5°	3454.6	3505.3	3517.0	3261.9	2759.4	2477.1	2428.4	2595.9	2991.2	3374.8	3444.9
30°	3631.9	3692.2	3703.9	3394.3	2819.8	2506.3	2482.9	2607.5	3034.0	3474.1	3666.9
32.5°	3830.5	3846.1	3836.3	3417.6	2886.0	2592.0	2494.6	2685.4	3082.7	3592.9	3869.4
35°	4068.1	4095.3	3996.0	3524.8	3034.0	2646.5	2611.4	2780.9	3166.4	3647.4	4114.8
37.5°	4249.2	4334.9	4110.9	3565.7	3063.2	2761.4	2767.2	2979.5	3224.9	3713.7	4385.5
40°	4590.0	4445.9	4305.7	3705.9	3174.2	2956.1	2925.0	3184.0	3421.5	3756.5	4562.7
42.5°	4776.9	4701.0	4381.6	3719.5	3345.6	3224.9	3232.6	3415.7	3524.8	3877.2	4611.4
45°	4823.7	4743.8	4484.8	3729.2	3515.0	3542.3	3676.7	3711.7	3676.7	3957.1	4702.9
47.5°	4942.4	4769.1	4473.1	3859.7	3789.6	3894.8	4066.1	4142.1	3883.1	3927.9	4745.8
50°	4919.1	4819.8	4447.8	3914.2	4124.5	4403.0	4517.9	4486.8	4112.9	3867.5	4699.0
52.5°	4821.7	4714.6	4525.7	4062.2	4438.1	4775.0	4934.7	4856.8	4317.3	4003.8	4667.9
55°	4963.9	4882.1	4627.0	4262.8	4673.7	5102.1	5215.1	5156.7	4568.6	4130.4	4845.1
57.5°	5117.7	5100.2	4901.6	4498.4	4952.2	5439.0	5439.0	5367.0	4786.7	4313.4	5108.0
60°	5339.7	5378.7	5104.1	4654.2	5047.6	5419.6	5701.9	5618.2	5006.7	4634.8	5405.9
62.5°	5267.7	5392.3	5365.0	4989.2	5156.7	5515.0	5668.8	5731.1	5279.3	5026.2	5803.2
65°	5035.9	5168.3	5363.1	5209.2	5074.9	5283.2	5361.1	5550.0	5415.7	5394.2	5966.8
67.5°	4759.4	4903.5	5024.2	5357.2	4909.3	5047.6	4979.4	5039.8	5267.7	5797.3	6060.2
70°	4155.7	4294.0	4484.8	5028.1	4471.2	4346.5	4329.0	4299.8	4654.2	5653.2	5635.7
72.5°	3417.6	3481.9	3797.4	4087.5	3308.6	3285.2	3312.5	3279.4	3690.3	5117.7	4827.6
75°	2558.9	2623.1	2802.3	3139.2	2253.1	2118.7	2274.5	2428.4	2817.9	3972.7	3468.3
77.5°	1924.0	2005.8	2118.7	2348.5	1653.3	1443.0	1464.4	1610.5	2037.0	3182.0	1943.5
80°	1248.3	1238.5	1456.6	1616.3	1244.4	1283.3	1228.8	1335.9	1476.1	1702.0	993.2
82.5°	720.5	730.3	821.8	927.0	866.6	991.2	714.7	1193.7	1053.5	693.3	370.0
85°	405.1	422.6	506.3	642.6	543.3	364.2	297.9	592.0	662.1	284.3	179.2
87.5°	40.9	35.1	68.2	243.4	148.0	60.4	89.6	142.2	159.7	107.1	52.6
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: P677325  
 CATALOG NUMBER: CCW-SA-2E-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9
2.5°	2849.0	2849.0	2800.3	2718.5	2685.4	2627.0	2547.2	2572.5	2545.2	2445.9	2420.6
5°	2732.2	2638.7	2537.4	2412.8	2340.7	2192.7	2146.0	2062.3	2075.9	1992.2	1996.1
7.5°	2488.8	2414.7	2243.4	2079.8	1937.6	1809.1	1628.0	1559.9	1493.6	1460.5	1499.5
10°	2346.6	2208.3	1974.6	1760.4	1571.5	1456.6	1335.9	1242.4	1156.7	1092.5	1078.8
12.5°	2243.4	2120.7	1838.3	1577.4	1429.4	1335.9	1224.9	1096.4	1012.6	901.6	868.5
15°	2212.2	2062.3	1764.3	1505.3	1361.2	1207.4	1080.8	954.2	845.2	728.3	687.4
17.5°	2319.3	2146.0	1762.4	1446.9	1244.4	1078.8	903.6	761.4	650.4	543.3	518.0
20°	2500.4	2235.6	1818.9	1411.8	1133.4	911.4	712.7	570.6	445.9	375.8	358.3
22.5°	2706.9	2387.5	1824.7	1318.4	1022.4	743.9	520.0	375.8	305.7	272.6	262.9
25°	2960.0	2630.9	1894.8	1242.4	891.9	564.7	370.0	288.2	247.3	227.8	223.9
27.5°	3168.4	2800.3	1970.7	1162.6	763.4	418.7	290.2	235.6	214.2	194.7	192.8
30°	3384.5	2995.1	1992.2	1113.9	652.4	344.7	249.3	208.4	185.0	175.3	173.3
32.5°	3573.4	3207.3	2060.3	1034.1	547.2	303.8	225.9	186.9	171.4	155.8	153.8
35°	3816.9	3330.0	2093.4	991.2	508.3	274.6	206.4	171.4	148.0	138.3	134.4
37.5°	4077.8	3448.8	2114.9	958.1	475.2	257.1	194.7	161.6	140.2	126.6	122.7
40°	4321.2	3616.3	2083.7	917.2	449.8	235.6	186.9	149.9	130.5	116.8	111.0
42.5°	4508.2	3779.9	2074.0	878.3	422.6	227.8	177.2	144.1	122.7	107.1	105.2
45°	4613.3	3890.9	2005.8	847.1	401.2	231.7	173.3	136.3	116.8	103.2	95.4
47.5°	4588.0	3976.5	2023.3	837.4	371.9	216.2	171.4	130.5	107.1	95.4	89.6
50°	4728.2	4149.9	1994.1	806.2	350.5	194.7	186.9	130.5	105.2	91.5	85.7
52.5°	4751.6	4307.6	2056.4	749.7	317.4	179.2	185.0	128.5	101.3	87.6	79.8
55°	4946.3	4490.7	2177.2	718.6	290.2	155.8	169.4	124.6	91.5	79.8	75.9
57.5°	5211.2	4870.4	2255.1	689.4	253.2	136.3	142.2	122.7	83.7	74.0	68.2
60°	5466.3	5022.3	2260.9	636.8	218.1	122.7	111.0	122.7	77.9	66.2	60.4
62.5°	5657.1	5022.3	2222.0	592.0	190.8	109.1	97.4	116.8	70.1	58.4	54.5
65°	5553.9	4887.9	2120.7	555.0	173.3	95.4	83.7	89.6	62.3	50.6	46.7
67.5°	5368.9	4469.2	1896.7	510.2	171.4	83.7	72.1	66.2	54.5	44.8	40.9
70°	5072.9	3904.5	1579.3	459.6	167.5	75.9	64.3	56.5	48.7	38.9	35.1
72.5°	4087.5	3224.9	1297.0	430.4	163.6	66.2	54.5	48.7	40.9	33.1	29.2
75°	2831.5	2060.3	999.0	368.1	159.7	60.4	50.6	42.8	35.1	27.3	25.3
77.5°	1698.1	1376.8	644.6	276.5	105.2	48.7	42.8	33.1	29.2	23.4	21.4
80°	794.5	650.4	260.9	107.1	50.6	35.1	29.2	25.3	23.4	19.5	17.5
82.5°	311.6	274.6	126.6	62.3	40.9	27.3	23.4	21.4	19.5	15.6	13.6
85°	167.5	148.0	60.4	42.8	29.2	19.5	19.5	17.5	15.6	13.6	11.7
87.5°	37.0	27.3	25.3	25.3	21.4	15.6	15.6	13.6	11.7	9.7	7.8
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: P677325  
 CATALOG NUMBER: CCW-SA-2E-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9
2.5°	2407.0	2436.2	2389.4	2418.6	2377.7	2408.9	2412.8	2383.6	2391.4	2430.3	2447.9
5°	2050.6	2031.1	1988.3	1974.6	1976.6	1951.3	1961.0	1974.6	1996.1	2007.7	2042.8
7.5°	1478.1	1522.9	1520.9	1554.0	1556.0	1552.1	1524.8	1466.4	1485.8	1470.3	1489.7
10°	1057.4	1076.9	1113.9	1135.3	1174.3	1152.8	1090.5	1067.2	1055.5	1053.5	1073.0
12.5°	845.2	798.4	794.5	802.3	821.8	796.5	765.3	738.1	751.7	779.0	800.4
15°	654.3	615.4	564.7	557.0	560.8	549.2	516.1	481.0	490.7	518.0	533.6
17.5°	502.4	457.6	422.6	399.2	391.4	350.5	301.8	272.6	264.8	262.9	276.5
20°	338.8	331.1	325.2	296.0	296.0	237.6	196.7	175.3	175.3	179.2	181.1
22.5°	253.2	243.4	245.4	239.5	223.9	177.2	155.8	149.9	149.9	153.8	153.8
25°	220.1	206.4	202.5	200.6	185.0	151.9	136.3	130.5	130.5	134.4	134.4
27.5°	186.9	183.1	177.2	169.4	155.8	130.5	120.7	114.9	116.8	118.8	116.8
30°	171.4	161.6	153.8	153.8	138.3	116.8	109.1	105.2	101.3	105.2	107.1
32.5°	151.9	146.1	142.2	136.3	118.8	103.2	95.4	91.5	89.6	89.6	91.5
35°	130.5	130.5	126.6	118.8	103.2	93.5	83.7	79.8	77.9	79.8	79.8
37.5°	116.8	111.0	112.9	105.2	91.5	81.8	72.1	68.2	68.2	66.2	68.2
40°	109.1	99.3	93.5	89.6	81.8	70.1	62.3	58.4	56.5	56.5	56.5
42.5°	97.4	89.6	77.9	75.9	74.0	60.4	50.6	48.7	46.7	44.8	44.8
45°	91.5	79.8	70.1	60.4	60.4	50.6	42.8	38.9	37.0	35.1	37.0
47.5°	83.7	72.1	60.4	50.6	48.7	40.9	33.1	29.2	27.3	27.3	27.3
50°	79.8	64.3	52.6	42.8	37.0	33.1	25.3	21.4	19.5	19.5	19.5
52.5°	74.0	60.4	46.7	37.0	29.2	25.3	19.5	15.6	13.6	13.6	13.6
55°	66.2	54.5	40.9	31.2	25.3	19.5	13.6	9.7	7.8	7.8	7.8
57.5°	62.3	48.7	35.1	27.3	19.5	13.6	7.8	5.8	5.8	3.9	5.8
60°	56.5	42.8	29.2	21.4	15.6	9.7	5.8	1.9	1.9	1.9	1.9
62.5°	48.7	37.0	25.3	17.5	11.7	5.8	1.9	0.0	0.0	0.0	0.0
65°	40.9	29.2	19.5	13.6	7.8	1.9	0.0	0.0	0.0	0.0	0.0
67.5°	35.1	25.3	15.6	9.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	31.2	21.4	11.7	7.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	25.3	17.5	9.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.4	13.6	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.5	9.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.6	7.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	1.9	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: P677325  
 CATALOG NUMBER: CCW-SA-2E-827-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9
2.5°	2473.2	2461.5	2519.9	2615.3	2664.0	2759.4	2782.8	2843.2	2827.6	2849.0
5°	2046.7	2070.1	2155.7	2296.0	2346.6	2484.9	2615.3	2745.8	2829.5	2870.4
7.5°	1519.0	1596.9	1702.0	1830.5	1961.0	2142.1	2364.1	2516.0	2597.8	2685.4
10°	1131.4	1215.2	1335.9	1462.5	1674.7	1877.3	2099.3	2288.2	2358.3	2440.1
12.5°	890.0	1020.4	1160.6	1297.0	1423.5	1616.3	1890.9	2165.5	2241.4	2303.7
15°	619.3	779.0	979.5	1156.7	1334.0	1501.4	1785.7	2118.7	2222.0	2327.1
17.5°	342.7	469.3	699.1	948.4	1209.3	1466.4	1820.8	2204.4	2360.2	2434.2
20°	198.6	249.3	412.8	708.8	1053.5	1390.4	1838.3	2366.1	2572.5	2609.5
22.5°	163.6	181.1	233.7	444.0	862.7	1341.7	1927.9	2592.0	2802.3	2889.9
25°	140.2	153.8	181.1	266.8	652.4	1238.5	1984.4	2874.3	3069.1	3164.5
27.5°	124.6	138.3	159.7	196.7	444.0	1096.4	2077.9	3129.4	3324.2	3454.6
30°	109.1	120.7	142.2	167.5	307.7	936.7	2157.7	3316.4	3591.0	3631.9
32.5°	97.4	107.1	122.7	144.1	227.8	710.8	2222.0	3509.2	3740.9	3830.5
35°	83.7	95.4	105.2	122.7	173.3	535.5	2183.0	3659.1	3961.0	4068.1
37.5°	74.0	81.8	91.5	103.2	146.1	418.7	2103.2	3838.3	4149.9	4249.2
40°	62.3	68.2	79.8	91.5	132.4	323.3	2011.6	4054.4	4414.7	4590.0
42.5°	52.6	58.4	66.2	85.7	109.1	239.5	1826.6	4221.9	4628.9	4776.9
45°	40.9	48.7	60.4	85.7	87.6	177.2	1635.8	4346.5	4749.7	4823.7
47.5°	31.2	38.9	58.4	74.0	70.1	122.7	1409.9	4488.7	4874.3	4942.4
50°	23.4	31.2	66.2	64.3	58.4	93.5	1267.7	4588.0	4882.1	4919.1
52.5°	15.6	23.4	54.5	48.7	48.7	81.8	1228.8	4584.1	4901.6	4821.7
55°	11.7	17.5	31.2	35.1	42.8	72.1	1193.7	4730.2	4907.4	4963.9
57.5°	7.8	13.6	21.4	27.3	37.0	62.3	1121.7	4905.4	5088.5	5117.7
60°	3.9	9.7	15.6	21.4	31.2	54.5	1020.4	5034.0	5308.6	5339.7
62.5°	1.9	5.8	11.7	17.5	25.3	42.8	915.3	4829.5	5213.1	5267.7
65°	0.0	3.9	7.8	11.7	15.6	31.2	743.9	4360.2	4835.3	5035.9
67.5°	0.0	0.0	3.9	7.8	9.7	23.4	560.8	3966.8	4486.8	4759.4
70°	0.0	0.0	1.9	1.9	5.8	17.5	358.3	3285.2	4005.8	4155.7
72.5°	0.0	0.0	0.0	0.0	1.9	11.7	208.4	2440.1	3139.2	3417.6
75°	0.0	0.0	0.0	0.0	0.0	9.7	105.2	1569.6	2185.0	2558.9
77.5°	0.0	0.0	0.0	0.0	0.0	7.8	56.5	1012.6	1610.5	1924.0
80°	0.0	0.0	0.0	0.0	0.0	1.9	33.1	588.1	1030.2	1248.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	13.6	288.2	615.4	720.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	153.8	307.7	405.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	21.4	40.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)