

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: P677270

Luminaire Tested: **CCW-SA-2E-730-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677270  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-730-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) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

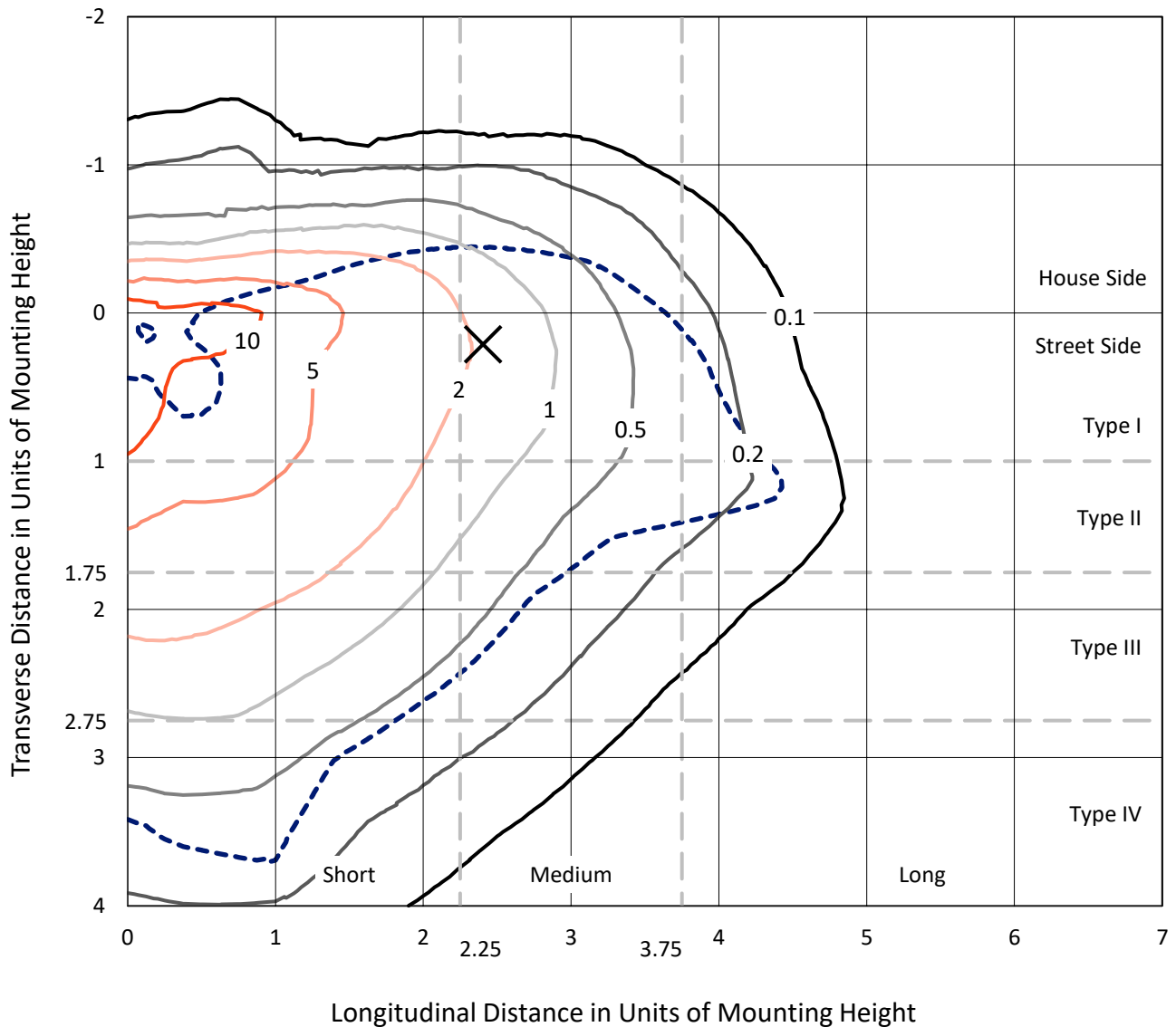
Lumens per Lamp: N/A  
Luminaire Lumens: 9033.5 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6  
Input Voltage (V): 120  
Input Current (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

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### Iso-Footcandle Lines of Horizontal Illumination

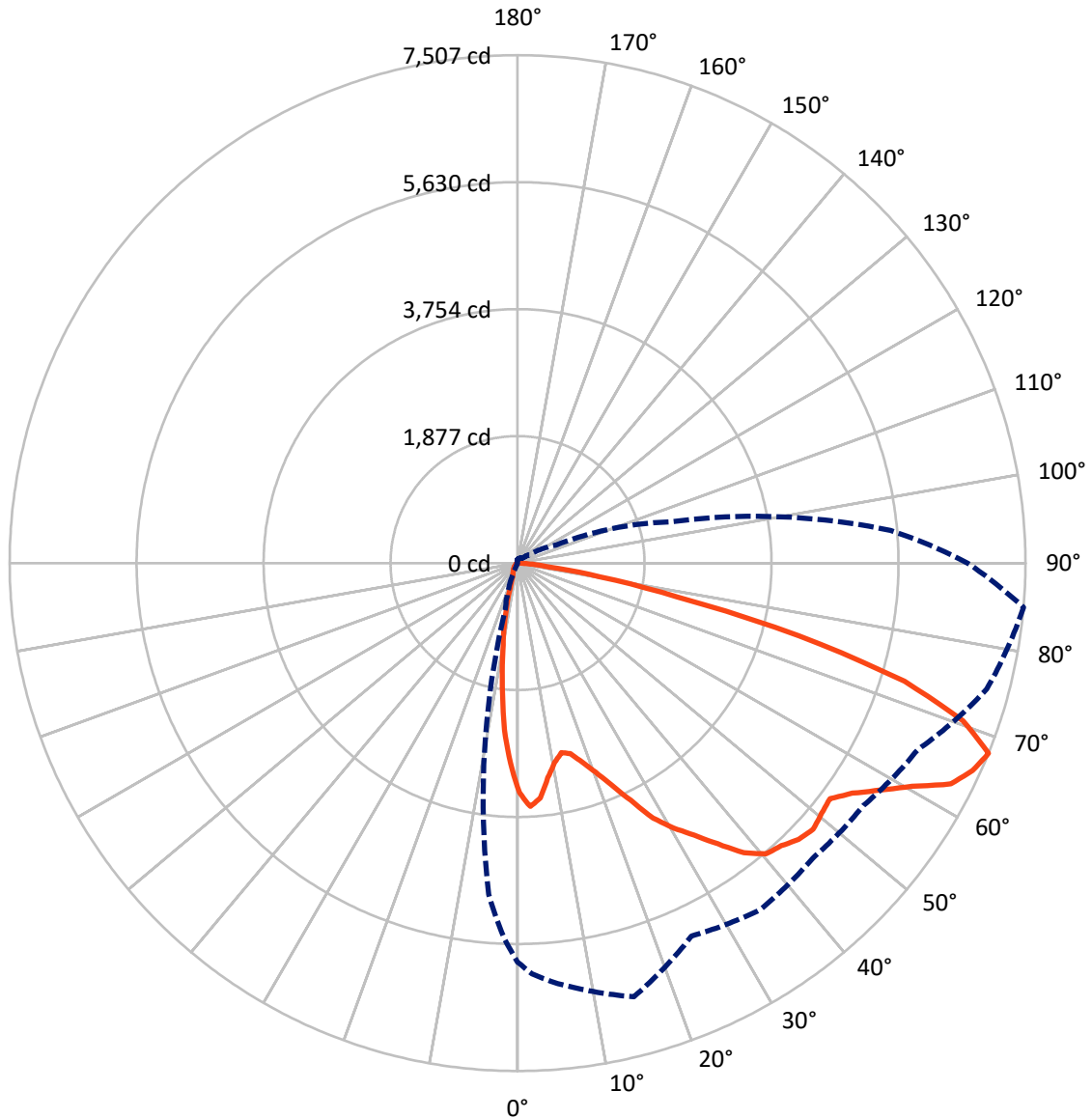
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 17 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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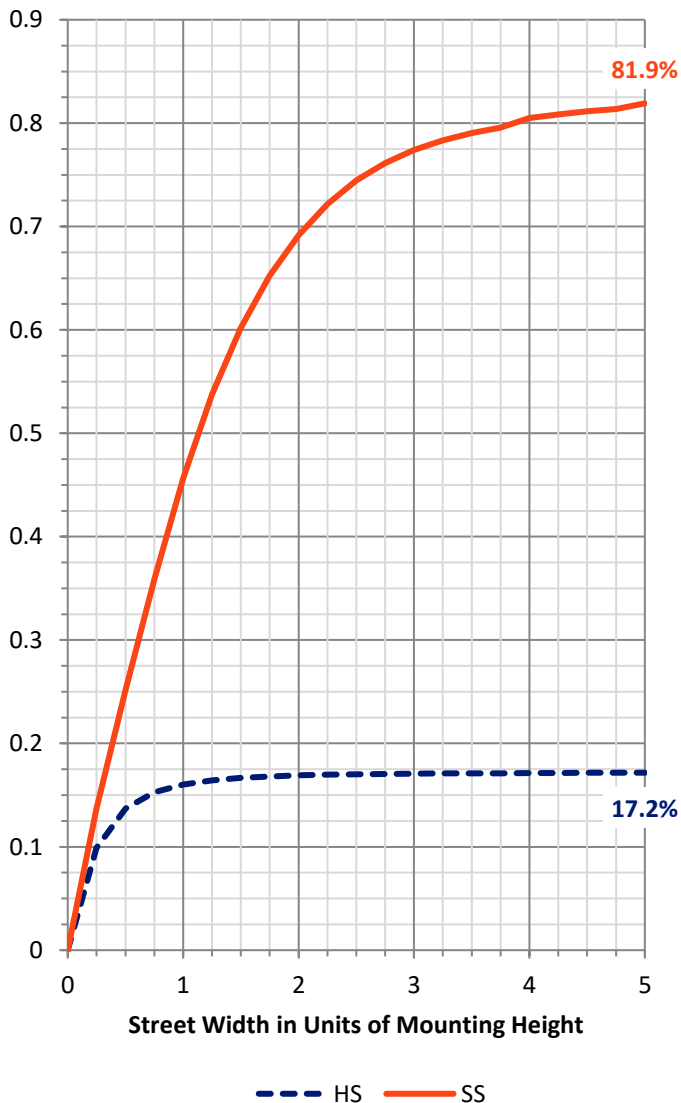
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1568.5	0.0	1568.5
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	7465.0	0.0	7465.0
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	9033.5	0.0	9033.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.0	2.9
10°-20°	506.0	5.6
20°-30°	700.2	7.8
30°-40°	989.6	11.0
40°-50°	1347.3	14.9
50°-60°	1784.4	19.8
60°-70°	2071.9	22.9
70°-80°	1173.3	13.0
80°-90°	202.7	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°	9033.5	100.0
0°-180°	9033.5	100.0



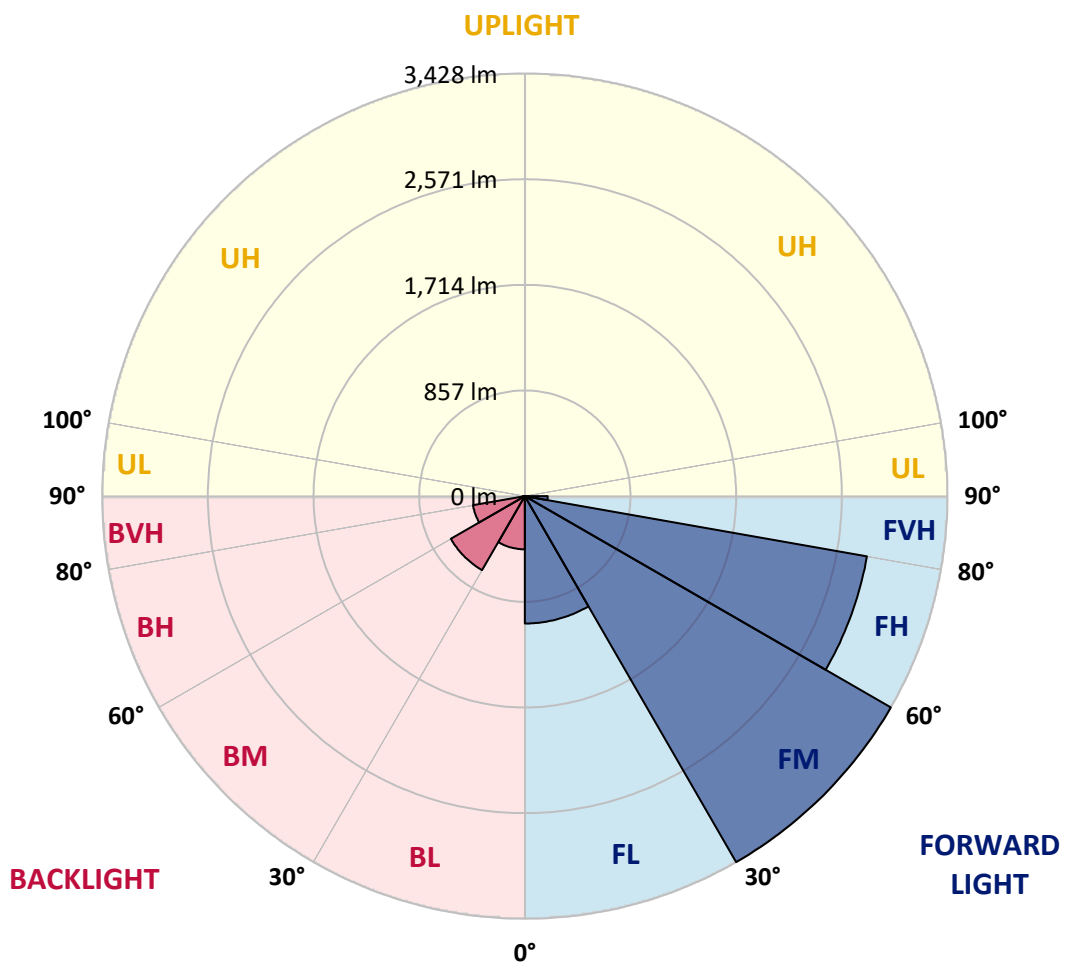
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1033.0	11.4			
FM (30°-60°)	3428.3	38.0			
FH (60°-80°)	2818.0	31.2			G2/5000
FVH (80°-90°)	185.6	2.1			G2/225
BL (0°-30°)	431.2	4.8	B1/500		
BM (30°-60°)	693.1	7.7	B1/1000		
BH (60°-80°)	427.2	4.7	B1/500		G1/500
BVH (80°-90°)	17.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5
2.5°	3529.2	3604.0	3606.4	3640.2	3673.9	3673.9	3753.5	3734.2	3664.3	3652.2	3601.6
5°	3555.7	3582.3	3601.6	3772.8	3917.6	3903.1	3946.5	3917.6	3782.5	3608.8	3490.6
7.5°	3326.6	3355.5	3432.7	3724.6	3920.0	3985.1	4067.1	3886.2	3743.9	3430.3	3203.5
10°	3022.6	3078.1	3220.4	3553.3	3794.6	4002.0	4002.0	3857.3	3582.3	3275.9	2998.5
12.5°	2853.8	2964.7	3041.9	3379.6	3693.2	3835.6	3830.7	3753.5	3575.0	3189.1	2875.5
15°	2882.7	2914.1	3078.1	3341.0	3548.5	3541.3	3628.1	3604.0	3478.5	3266.3	2921.3
17.5°	3015.4	3063.6	3205.9	3341.0	3439.9	3411.0	3408.6	3524.4	3531.6	3396.5	3092.6
20°	3232.5	3374.8	3442.4	3483.4	3362.7	3239.7	3225.2	3386.9	3512.3	3563.0	3297.6
22.5°	3579.9	3673.9	3811.4	3601.6	3288.0	3133.6	3104.6	3283.1	3536.4	3760.8	3563.0
25°	3920.0	3992.4	4125.0	3854.9	3372.4	3111.9	3061.2	3215.6	3628.1	4035.8	3883.8
27.5°	4279.4	4342.1	4356.6	4040.6	3418.2	3068.4	3008.1	3215.6	3705.3	4180.5	4267.4
30°	4498.9	4573.7	4588.2	4204.6	3493.0	3104.6	3075.7	3230.1	3758.4	4303.5	4542.4
32.5°	4745.0	4764.3	4752.2	4233.6	3575.0	3210.8	3090.2	3326.6	3818.7	4450.7	4793.2
35°	5039.3	5073.1	4950.0	4366.3	3758.4	3278.3	3234.9	3444.8	3922.4	4518.2	5097.2
37.5°	5263.6	5369.8	5092.4	4416.9	3794.6	3420.6	3427.9	3690.8	3994.8	4600.3	5432.5
40°	5685.8	5507.3	5333.6	4590.6	3932.1	3661.9	3623.3	3944.1	4238.4	4653.3	5652.0
42.5°	5917.4	5823.3	5427.7	4607.5	4144.3	3994.8	4004.4	4231.2	4366.3	4802.9	5712.3
45°	5975.3	5876.4	5555.5	4619.6	4354.2	4388.0	4554.4	4597.8	4554.4	4901.8	5825.7
47.5°	6122.4	5907.7	5541.1	4781.2	4694.3	4824.6	5036.9	5131.0	4810.1	4865.6	5878.8
50°	6093.5	5970.4	5509.7	4848.7	5109.3	5454.2	5596.5	5557.9	5094.8	4790.8	5820.9
52.5°	5972.9	5840.2	5606.2	5032.1	5497.6	5915.0	6112.8	6016.3	5348.1	4959.7	5782.3
55°	6149.0	6047.6	5731.6	5280.5	5789.5	6320.2	6460.1	6387.8	5659.3	5116.5	6001.8
57.5°	6339.5	6317.8	6071.8	5572.4	6134.5	6737.6	6737.6	6648.3	5929.4	5343.2	6327.5
60°	6614.5	6662.8	6322.6	5765.4	6252.7	6713.4	7063.2	6959.5	6202.0	5741.3	6696.5
62.5°	6525.3	6679.7	6645.9	6180.3	6387.8	6831.6	7022.2	7099.4	6539.8	6226.2	7188.7
65°	6238.2	6402.2	6643.5	6452.9	6286.5	6544.6	6641.1	6875.1	6708.6	6682.1	7391.3
67.5°	5895.7	6074.2	6223.7	6636.2	6081.4	6252.7	6168.3	6243.0	6525.3	7181.4	7507.1
70°	5147.9	5319.1	5555.5	6228.6	5538.6	5384.3	5362.5	5326.4	5765.4	7002.9	6981.2
72.5°	4233.6	4313.2	4704.0	5063.4	4098.5	4069.6	4103.3	4062.3	4571.3	6339.5	5980.1
75°	3169.8	3249.4	3471.3	3888.6	2791.0	2624.6	2817.6	3008.1	3490.6	4921.1	4296.3
77.5°	2383.4	2484.7	2624.6	2909.2	2048.0	1787.5	1814.1	1995.0	2523.3	3941.7	2407.5
80°	1546.3	1534.2	1804.4	2002.2	1541.5	1589.7	1522.2	1654.8	1828.5	2108.4	1230.3
82.5°	892.6	904.6	1018.0	1148.3	1073.5	1227.9	885.3	1478.7	1305.1	858.8	458.3
85°	501.8	523.5	627.2	796.1	673.0	451.1	369.1	733.3	820.2	352.2	221.9
87.5°	50.7	43.4	84.4	301.5	183.3	74.8	111.0	176.1	197.8	132.7	65.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5
2.5°	3529.2	3529.2	3468.9	3367.6	3326.6	3254.2	3155.3	3186.7	3152.9	3029.9	2998.5
5°	3384.5	3268.7	3143.2	2988.8	2899.6	2716.3	2658.4	2554.6	2571.5	2467.8	2472.6
7.5°	3082.9	2991.3	2779.0	2576.3	2400.2	2241.0	2016.7	1932.3	1850.2	1809.2	1857.5
10°	2906.8	2735.6	2446.1	2180.7	1946.7	1804.4	1654.8	1539.0	1432.9	1353.3	1336.4
12.5°	2779.0	2627.0	2277.2	1954.0	1770.6	1654.8	1517.3	1358.1	1254.4	1116.9	1075.9
15°	2740.4	2554.6	2185.5	1864.7	1686.2	1495.6	1338.8	1182.0	1046.9	902.2	851.5
17.5°	2873.1	2658.4	2183.1	1792.3	1541.5	1336.4	1119.3	943.2	805.7	673.0	641.7
20°	3097.4	2769.3	2253.1	1748.9	1404.0	1129.0	882.9	706.8	552.4	465.6	443.9
22.5°	3353.1	2957.5	2260.3	1633.1	1266.5	921.5	644.1	465.6	378.7	337.7	325.7
25°	3666.7	3259.0	2347.2	1539.0	1104.8	699.6	458.3	357.0	306.4	282.2	277.4
27.5°	3924.8	3468.9	2441.2	1440.1	945.6	518.6	359.4	291.9	265.4	241.2	238.8
30°	4192.6	3710.1	2467.8	1379.8	808.1	427.0	308.8	258.1	229.2	217.1	214.7
32.5°	4426.6	3973.1	2552.2	1280.9	677.9	376.3	279.8	231.6	212.3	193.0	190.6
35°	4728.1	4125.0	2593.2	1227.9	629.6	340.1	255.7	212.3	183.3	171.3	166.4
37.5°	5051.4	4272.2	2619.8	1186.9	588.6	318.4	241.2	200.2	173.7	156.8	152.0
40°	5352.9	4479.6	2581.2	1136.2	557.2	291.9	231.6	185.7	161.6	144.7	137.5
42.5°	5584.5	4682.3	2569.1	1087.9	523.5	282.2	219.5	178.5	152.0	132.7	130.3
45°	5714.7	4819.8	2484.7	1049.4	496.9	287.1	214.7	168.9	144.7	127.9	118.2
47.5°	5683.4	4925.9	2506.4	1037.3	460.7	267.8	212.3	161.6	132.7	118.2	111.0
50°	5857.1	5140.6	2470.2	998.7	434.2	241.2	231.6	161.6	130.3	113.4	106.1
52.5°	5886.0	5336.0	2547.4	928.7	393.2	221.9	229.2	159.2	125.4	108.6	98.9
55°	6127.2	5562.8	2697.0	890.1	359.4	193.0	209.9	154.4	113.4	98.9	94.1
57.5°	6455.3	6033.2	2793.4	854.0	313.6	168.9	176.1	152.0	103.7	91.7	84.4
60°	6771.3	6221.3	2800.7	788.8	270.2	152.0	137.5	152.0	96.5	82.0	74.8
62.5°	7007.7	6221.3	2752.4	733.3	236.4	135.1	120.6	144.7	86.8	72.4	67.5
65°	6879.9	6054.9	2627.0	687.5	214.7	118.2	103.7	111.0	77.2	62.7	57.9
67.5°	6650.7	5536.2	2349.6	632.0	212.3	103.7	89.3	82.0	67.5	55.5	50.7
70°	6284.0	4836.7	1956.4	569.3	207.5	94.1	79.6	70.0	60.3	48.2	43.4
72.5°	5063.4	3994.8	1606.6	533.1	202.6	82.0	67.5	60.3	50.7	41.0	36.2
75°	3507.5	2552.2	1237.5	455.9	197.8	74.8	62.7	53.1	43.4	33.8	31.4
77.5°	2103.5	1705.5	798.5	342.5	130.3	60.3	53.1	41.0	36.2	28.9	26.5
80°	984.2	805.7	323.2	132.7	62.7	43.4	36.2	31.4	28.9	24.1	21.7
82.5°	386.0	340.1	156.8	77.2	50.7	33.8	28.9	26.5	24.1	19.3	16.9
85°	207.5	183.3	74.8	53.1	36.2	24.1	24.1	21.7	19.3	16.9	14.5
87.5°	45.8	33.8	31.4	31.4	26.5	19.3	19.3	16.9	14.5	12.1	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5
2.5°	2981.6	3017.8	2959.9	2996.1	2945.4	2984.0	2988.8	2952.7	2962.3	3010.6	3032.3
5°	2540.2	2516.0	2463.0	2446.1	2448.5	2417.1	2429.2	2446.1	2472.6	2487.1	2530.5
7.5°	1830.9	1886.4	1884.0	1925.0	1927.4	1922.6	1888.8	1816.5	1840.6	1821.3	1845.4
10°	1309.9	1334.0	1379.8	1406.4	1454.6	1428.1	1350.9	1321.9	1307.5	1305.1	1329.2
12.5°	1046.9	989.0	984.2	993.9	1018.0	986.6	948.0	914.3	931.1	964.9	991.5
15°	810.5	762.3	699.6	689.9	694.7	680.3	639.3	595.8	607.9	641.7	661.0
17.5°	622.4	566.9	523.5	494.5	484.9	434.2	373.9	337.7	328.1	325.7	342.5
20°	419.7	410.1	402.9	366.7	366.7	294.3	243.6	217.1	217.1	221.9	224.3
22.5°	313.6	301.5	304.0	296.7	277.4	219.5	193.0	185.7	185.7	190.6	190.6
25°	272.6	255.7	250.9	248.5	229.2	188.2	168.9	161.6	161.6	166.4	166.4
27.5°	231.6	226.8	219.5	209.9	193.0	161.6	149.6	142.3	144.7	147.2	144.7
30°	212.3	200.2	190.6	190.6	171.3	144.7	135.1	130.3	125.4	130.3	132.7
32.5°	188.2	180.9	176.1	168.9	147.2	127.9	118.2	113.4	111.0	111.0	113.4
35°	161.6	161.6	156.8	147.2	127.9	115.8	103.7	98.9	96.5	98.9	98.9
37.5°	144.7	137.5	139.9	130.3	113.4	101.3	89.3	84.4	84.4	82.0	84.4
40°	135.1	123.0	115.8	111.0	101.3	86.8	77.2	72.4	70.0	70.0	70.0
42.5°	120.6	111.0	96.5	94.1	91.7	74.8	62.7	60.3	57.9	55.5	55.5
45°	113.4	98.9	86.8	74.8	74.8	62.7	53.1	48.2	45.8	43.4	45.8
47.5°	103.7	89.3	74.8	62.7	60.3	50.7	41.0	36.2	33.8	33.8	33.8
50°	98.9	79.6	65.1	53.1	45.8	41.0	31.4	26.5	24.1	24.1	24.1
52.5°	91.7	74.8	57.9	45.8	36.2	31.4	24.1	19.3	16.9	16.9	16.9
55°	82.0	67.5	50.7	38.6	31.4	24.1	16.9	12.1	9.6	9.6	9.6
57.5°	77.2	60.3	43.4	33.8	24.1	16.9	9.6	7.2	7.2	4.8	7.2
60°	70.0	53.1	36.2	26.5	19.3	12.1	7.2	2.4	2.4	2.4	2.4
62.5°	60.3	45.8	31.4	21.7	14.5	7.2	2.4	0.0	0.0	0.0	0.0
65°	50.7	36.2	24.1	16.9	9.6	2.4	0.0	0.0	0.0	0.0	0.0
67.5°	43.4	31.4	19.3	12.1	7.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	38.6	26.5	14.5	9.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	31.4	21.7	12.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	26.5	16.9	7.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	21.7	12.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.9	9.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.5	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.4	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: P677270  
 CATALOG NUMBER: CCW-SA-2E-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5	3396.5
2.5°	3063.6	3049.1	3121.5	3239.7	3300.0	3418.2	3447.2	3522.0	3502.7	3529.2
5°	2535.3	2564.3	2670.4	2844.1	2906.8	3078.1	3239.7	3401.3	3505.1	3555.7
7.5°	1881.6	1978.1	2108.4	2267.6	2429.2	2653.5	2928.5	3116.7	3218.0	3326.6
10°	1401.5	1505.3	1654.8	1811.6	2074.6	2325.5	2600.5	2834.5	2921.3	3022.6
12.5°	1102.4	1264.0	1437.7	1606.6	1763.4	2002.2	2342.3	2682.5	2776.6	2853.8
15°	767.1	964.9	1213.4	1432.9	1652.4	1859.9	2212.1	2624.6	2752.4	2882.7
17.5°	424.6	581.4	866.0	1174.8	1498.0	1816.5	2255.5	2730.7	2923.7	3015.4
20°	246.1	308.8	511.4	878.1	1305.1	1722.4	2277.2	2930.9	3186.7	3232.5
22.5°	202.6	224.3	289.5	550.0	1068.6	1662.1	2388.2	3210.8	3471.3	3579.9
25°	173.7	190.6	224.3	330.5	808.1	1534.2	2458.1	3560.6	3801.8	3920.0
27.5°	154.4	171.3	197.8	243.6	550.0	1358.1	2573.9	3876.6	4117.8	4279.4
30°	135.1	149.6	176.1	207.5	381.1	1160.3	2672.8	4108.2	4448.3	4498.9
32.5°	120.6	132.7	152.0	178.5	282.2	880.5	2752.4	4347.0	4634.0	4745.0
35°	103.7	118.2	130.3	152.0	214.7	663.4	2704.2	4532.7	4906.6	5039.3
37.5°	91.7	101.3	113.4	127.9	180.9	518.6	2605.3	4754.6	5140.6	5263.6
40°	77.2	84.4	98.9	113.4	164.0	400.4	2491.9	5022.4	5468.7	5685.8
42.5°	65.1	72.4	82.0	106.1	135.1	296.7	2262.7	5229.9	5734.0	5917.4
45°	50.7	60.3	74.8	106.1	108.6	219.5	2026.3	5384.3	5883.6	5975.3
47.5°	38.6	48.2	72.4	91.7	86.8	152.0	1746.5	5560.4	6038.0	6122.4
50°	28.9	38.6	82.0	79.6	72.4	115.8	1570.4	5683.4	6047.6	6093.5
52.5°	19.3	28.9	67.5	60.3	60.3	101.3	1522.2	5678.6	6071.8	5972.9
55°	14.5	21.7	38.6	43.4	53.1	89.3	1478.7	5859.5	6079.0	6149.0
57.5°	9.6	16.9	26.5	33.8	45.8	77.2	1389.5	6076.6	6303.3	6339.5
60°	4.8	12.1	19.3	26.5	38.6	67.5	1264.0	6235.8	6575.9	6614.5
62.5°	2.4	7.2	14.5	21.7	31.4	53.1	1133.8	5982.5	6457.7	6525.3
65°	0.0	4.8	9.6	14.5	19.3	38.6	921.5	5401.1	5989.7	6238.2
67.5°	0.0	0.0	4.8	9.6	12.1	28.9	694.7	4913.9	5557.9	5895.7
70°	0.0	0.0	2.4	2.4	7.2	21.7	443.9	4069.6	4962.1	5147.9
72.5°	0.0	0.0	0.0	0.0	2.4	14.5	258.1	3022.6	3888.6	4233.6
75°	0.0	0.0	0.0	0.0	0.0	12.1	130.3	1944.3	2706.6	3169.8
77.5°	0.0	0.0	0.0	0.0	0.0	9.6	70.0	1254.4	1995.0	2383.4
80°	0.0	0.0	0.0	0.0	0.0	2.4	41.0	728.5	1276.1	1546.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	16.9	357.0	762.3	892.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	190.6	381.1	501.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	26.5	50.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)