

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: P675885

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675885  
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  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
SLL distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

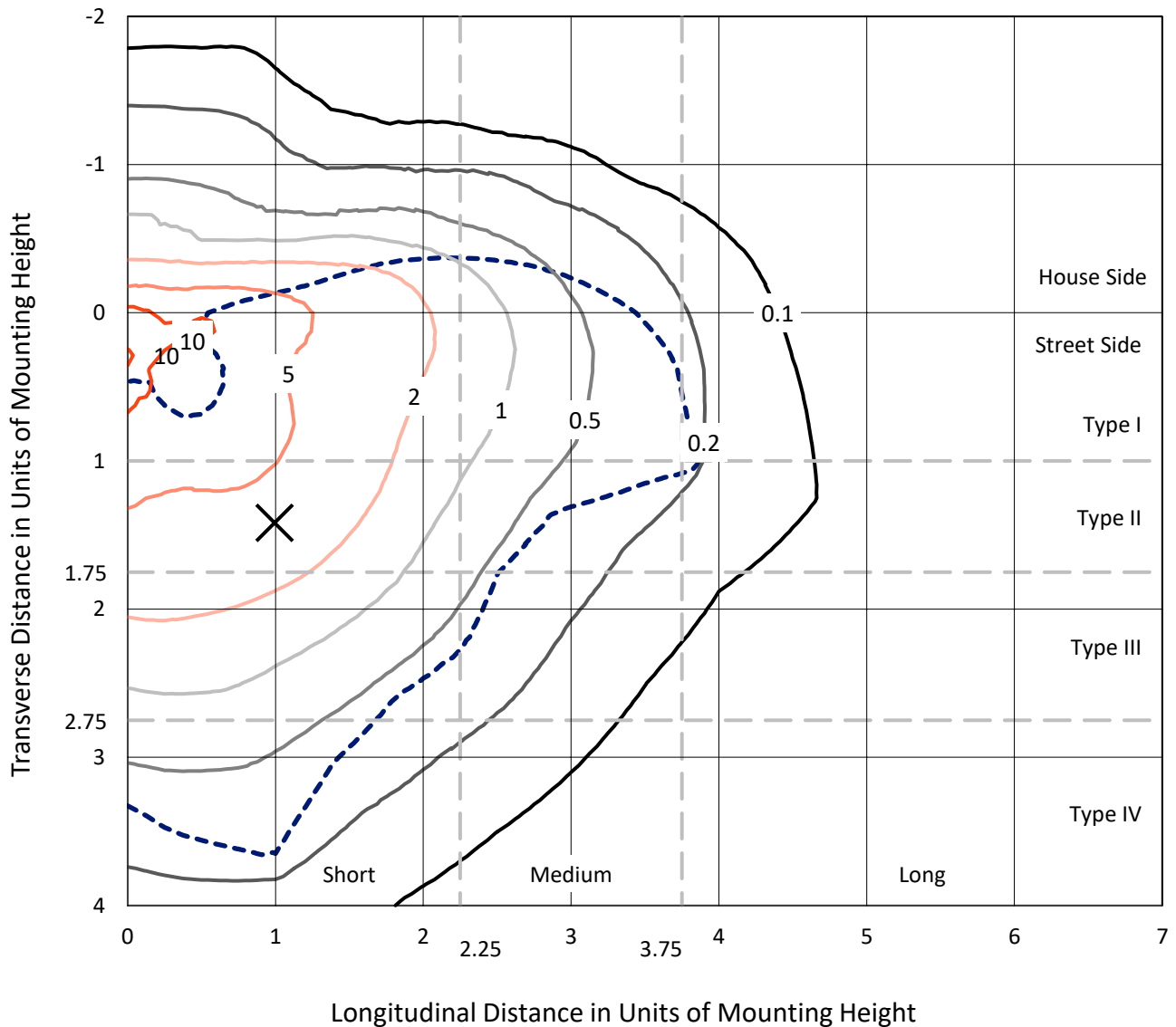
Lumens per Lamp: N/A  
Luminaire Lumens: 8339.7 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

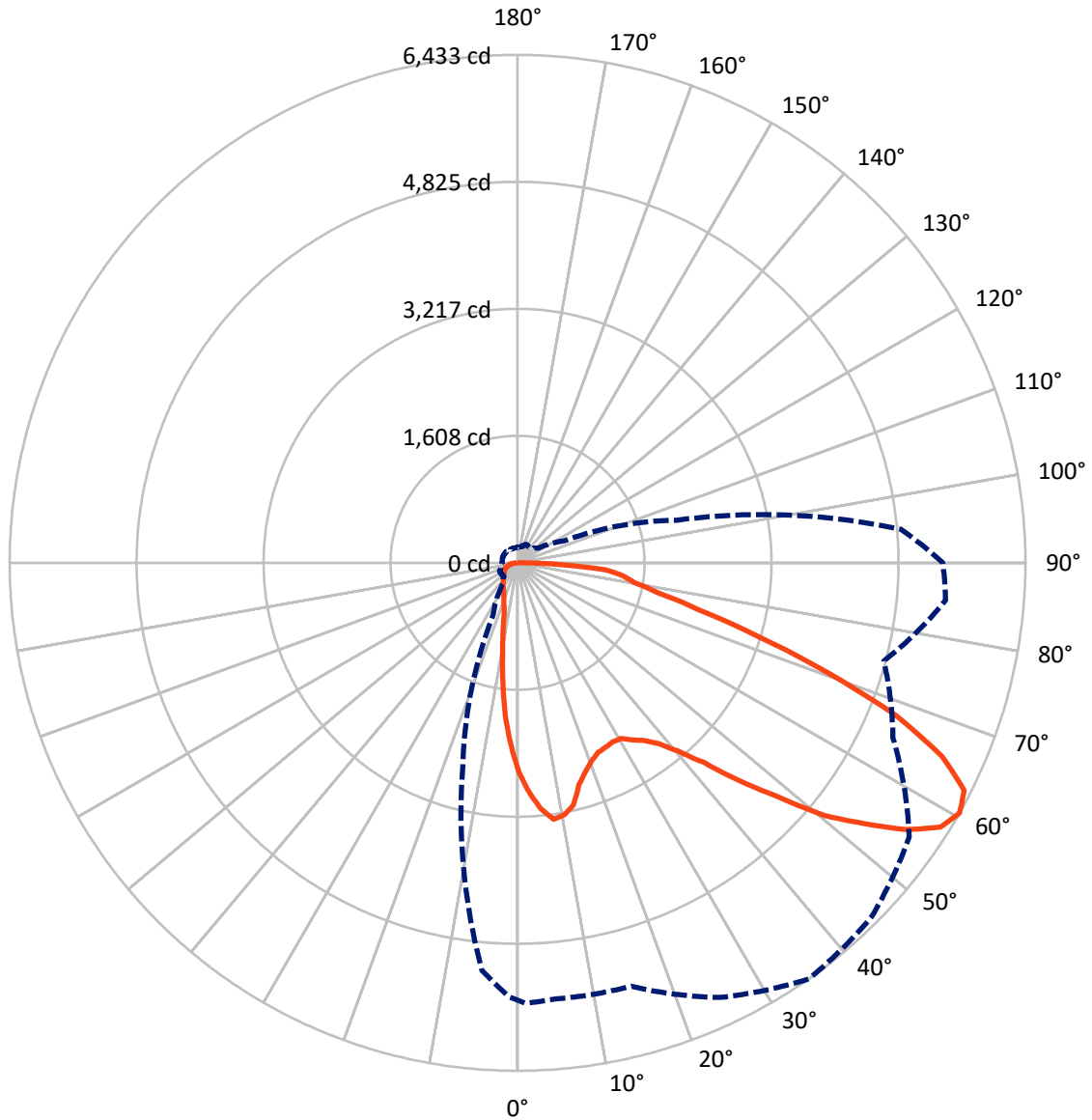
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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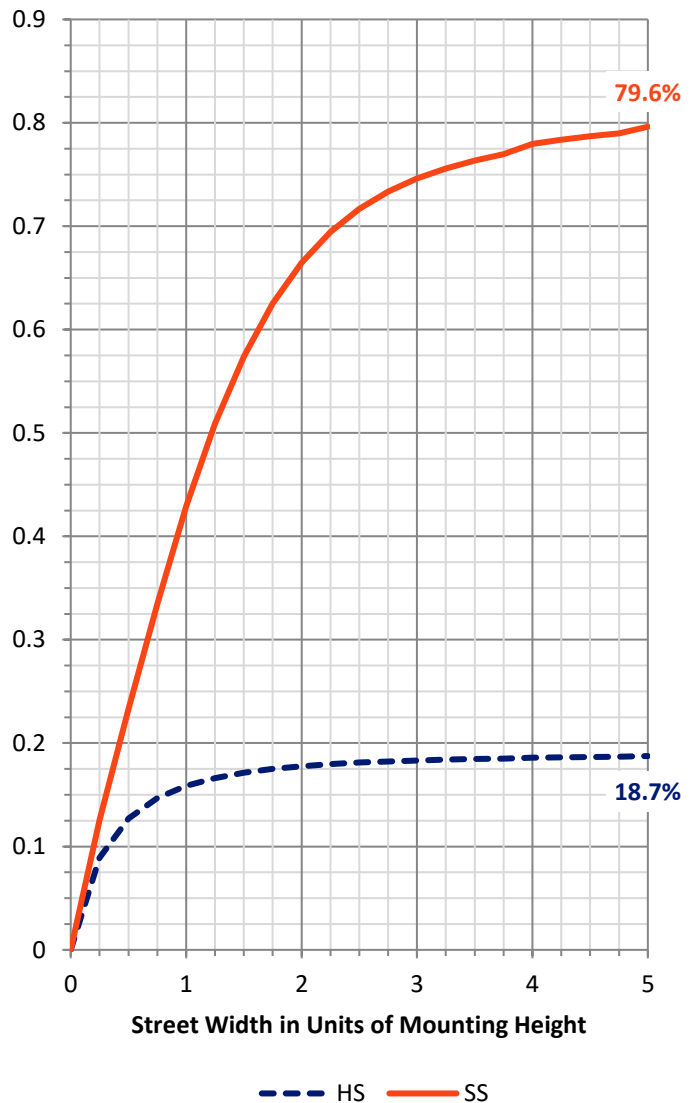
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1587.2	0.0	1587.2
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	6752.5	0.0	6752.5
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	8339.7	0.0	8339.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.9	2.5
10°-20°	436.9	5.2
20°-30°	639.2	7.7
30°-40°	900.6	10.8
40°-50°	1237.8	14.8
50°-60°	1686.9	20.2
60°-70°	1846.2	22.1
70°-80°	1065.9	12.8
80°-90°	319.2	3.8
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°	8339.7	100.0
0°-180°	8339.7	100.0

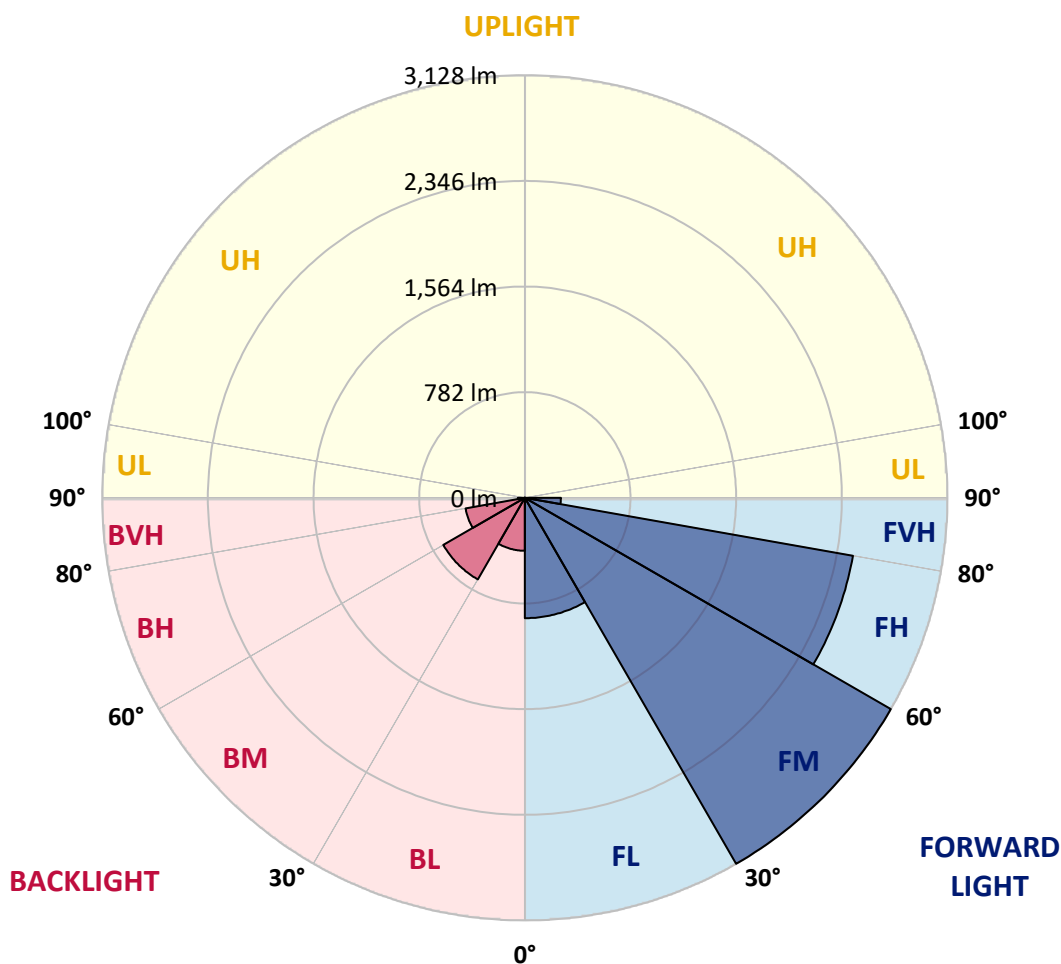


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.9	10.7			
FM (30°-60°)	3128.1	37.5			
FH (60°-80°)	2466.3	29.6			G2/5000
FVH (80°-90°)	267.2	3.2			G3/500
BL (0°-30°)	392.1	4.7	B1/500		
BM (30°-60°)	697.2	8.4	B1/1000		
BH (60°-80°)	445.8	5.3	B1/500		G1/500
BVH (80°-90°)	52.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6
2.5°	2852.3	2841.2	2852.3	2893.0	2904.1	2922.6	2922.6	2896.7	2848.6	2826.4	2789.4
5°	2915.2	2896.7	2989.2	3074.3	3140.9	3133.5	3070.6	3018.8	2922.6	2778.3	2641.4
7.5°	2789.4	2807.9	2874.5	3096.5	3251.9	3281.4	3181.6	3078.0	2870.8	2671.0	2486.1
10°	2552.6	2578.5	2722.8	2952.2	3196.4	3244.5	3181.6	3055.8	2807.9	2560.0	2345.5
12.5°	2438.0	2497.2	2582.2	2859.7	3033.6	3148.3	3118.7	3037.3	2759.8	2467.6	2260.4
15°	2438.0	2452.8	2578.5	2811.6	2911.5	2915.2	2926.3	2941.1	2774.6	2508.3	2230.8
17.5°	2515.7	2556.3	2663.6	2807.9	2826.4	2782.0	2782.0	2844.9	2804.2	2622.9	2338.1
20°	2704.3	2689.5	2830.1	2889.3	2789.4	2678.4	2667.3	2774.6	2837.5	2745.0	2534.1
22.5°	2893.0	2959.6	3074.3	2941.1	2756.1	2608.1	2593.3	2726.5	2937.4	2955.9	2759.8
25°	3177.9	3244.5	3303.6	3140.9	2752.4	2589.6	2600.7	2704.3	3059.5	3255.6	3137.2
27.5°	3484.9	3525.6	3610.7	3359.1	2841.2	2567.4	2578.5	2733.9	3174.2	3451.6	3433.1
30°	3658.8	3703.2	3684.7	3399.8	2900.4	2582.2	2552.6	2774.6	3111.3	3451.6	3625.5
32.5°	3829.0	3803.1	3792.0	3466.4	2974.4	2674.7	2600.7	2859.7	3148.3	3507.1	3873.4
35°	4036.1	3999.1	3969.6	3595.9	3096.5	2763.5	2730.2	2970.7	3229.7	3621.8	4073.1
37.5°	4265.5	4265.5	4121.2	3692.1	3240.8	2907.8	2870.8	3129.8	3359.1	3692.1	4346.9
40°	4535.6	4546.7	4291.4	3821.6	3403.5	3137.2	3126.1	3336.9	3484.9	3795.7	4609.6
42.5°	4735.3	4742.7	4439.4	3869.7	3592.2	3455.3	3503.4	3669.9	3629.2	3888.2	4628.1
45°	4872.2	4835.2	4543.0	4006.5	3799.4	3932.6	3947.4	3995.4	3817.9	3943.7	4702.1
47.5°	4938.8	4931.4	4587.4	4165.6	4235.9	4417.2	4502.3	4435.7	3991.7	3884.5	4702.1
50°	5005.4	4942.5	4628.1	4383.9	4661.4	5027.6	5009.1	4887.0	4232.2	3958.5	4631.8
52.5°	5049.8	4994.3	4709.4	4580.0	5068.3	5482.6	5556.6	5331.0	4513.4	4095.3	4665.1
55°	5208.9	5164.5	4953.6	4846.3	5538.1	5963.6	5974.7	5660.2	4809.3	4321.0	4883.3
57.5°	5401.3	5427.2	5290.3	5223.7	5897.0	6315.0	6274.3	5904.4	5060.9	4594.8	5134.9
60°	5538.1	5578.8	5545.5	5552.9	6074.6	6433.4	6340.9	6056.1	5245.9	4801.9	5441.9
62.5°	5464.1	5545.5	5682.4	5652.8	6082.0	6348.3	6218.8	5856.3	5268.1	5072.0	5675.0
65°	5260.7	5268.1	5534.4	5697.2	5749.0	5908.1	5737.9	5438.2	5038.7	5238.5	5641.7
67.5°	4739.0	4798.2	5038.7	5356.9	5138.6	5175.6	5160.8	4727.9	4691.0	5123.8	5386.5
70°	4184.1	4224.8	4487.5	4861.1	4339.5	4165.6	4198.9	3877.1	4028.7	4768.6	4872.2
72.5°	3459.0	3484.9	3784.6	4113.8	3481.2	3170.5	3248.2	2985.5	3200.1	4173.0	4110.1
75°	2611.8	2659.9	2893.0	3281.4	2563.7	2364.0	2441.7	2334.4	2534.1	3436.8	3189.0
77.5°	1857.1	1820.1	2108.7	2567.4	1927.4	1809.1	1816.4	1834.9	2049.5	2896.7	2290.0
80°	1265.2	1276.3	1535.3	1883.0	1513.1	1494.6	1476.1	1624.1	1720.3	2293.7	1664.8
82.5°	751.0	751.0	1035.9	1339.2	1194.9	1346.6	1261.5	1394.7	1346.6	1687.0	1091.3
85°	351.5	351.5	532.7	965.6	924.9	1109.8	943.4	1054.4	995.2	1176.4	492.0
87.5°	59.2	51.8	107.3	473.5	381.0	432.8	170.2	562.3	625.2	821.3	122.1
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°	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6
2.5°	2748.7	2722.8	2671.0	2604.4	2548.9	2478.7	2456.5	2408.4	2341.8	2334.4	2304.8
5°	2589.6	2500.9	2389.9	2253.0	2160.5	2064.3	1982.9	1934.8	1879.3	1871.9	1857.1
7.5°	2415.8	2304.8	2119.8	1957.0	1798.0	1646.3	1572.3	1479.8	1416.9	1368.8	1346.6
10°	2253.0	2149.4	1920.0	1698.1	1557.5	1457.6	1368.8	1272.6	1194.9	1135.7	1113.5
12.5°	2145.7	2023.6	1775.8	1564.9	1461.3	1346.6	1246.7	1143.1	1043.3	965.6	924.9
15°	2097.6	1982.9	1731.4	1498.3	1346.6	1187.5	1072.9	969.3	847.2	791.7	773.2
17.5°	2212.3	2042.1	1716.6	1420.6	1206.0	1024.8	884.2	773.2	684.4	628.9	606.7
20°	2360.3	2149.4	1742.5	1328.1	1072.9	869.4	714.0	595.6	536.4	495.7	492.0
22.5°	2548.9	2308.5	1783.2	1261.5	924.9	699.2	558.6	488.3	447.6	443.9	436.5
25°	2885.6	2597.0	1849.7	1172.7	806.5	577.1	477.2	436.5	418.0	406.9	414.3
27.5°	3174.2	2785.7	1897.8	1117.2	758.4	543.8	462.4	418.0	399.5	395.8	399.5
30°	3344.3	2959.6	1883.0	1013.7	662.2	517.9	492.0	477.2	440.2	410.6	410.6
32.5°	3499.7	3070.6	1879.3	921.2	566.0	432.8	410.6	399.5	421.7	436.5	425.4
35°	3714.3	3244.5	1868.2	869.4	525.3	399.5	362.5	333.0	318.2	310.8	321.9
37.5°	3943.7	3362.8	1838.6	862.0	503.1	381.0	351.5	321.9	307.1	299.7	296.0
40°	4195.2	3488.6	1805.4	825.0	492.0	369.9	340.4	314.5	296.0	284.9	281.2
42.5°	4358.0	3588.5	1772.1	806.5	469.8	362.5	329.3	307.1	288.6	273.8	273.8
45°	4450.5	3706.9	1738.8	788.0	443.9	366.2	329.3	299.7	277.5	270.1	262.7
47.5°	4491.2	3795.7	1727.7	758.4	421.7	351.5	321.9	292.3	270.1	255.3	251.6
50°	4598.5	3984.3	1768.4	736.2	395.8	336.7	340.4	288.6	266.4	247.9	244.2
52.5°	4661.4	4136.0	1857.1	702.9	377.3	318.2	333.0	281.2	255.3	236.8	236.8
55°	4890.7	4387.6	1953.3	677.0	355.2	292.3	307.1	266.4	236.8	225.7	225.7
57.5°	5183.0	4654.0	2034.7	665.9	340.4	273.8	273.8	259.0	225.7	210.9	207.2
60°	5386.5	4872.2	2082.8	658.5	325.6	255.3	244.2	259.0	214.6	199.8	196.1
62.5°	5408.7	4746.4	2034.7	654.8	321.9	236.8	222.0	247.9	203.5	188.7	181.3
65°	5268.1	4491.2	1901.5	640.0	318.2	218.3	207.2	214.6	188.7	177.6	170.2
67.5°	4986.9	4076.8	1709.2	632.6	314.5	203.5	188.7	185.0	173.9	162.8	155.4
70°	4332.1	3536.7	1483.5	599.3	307.1	192.4	170.2	166.5	155.4	148.0	144.3
72.5°	3636.6	2893.0	1224.5	554.9	292.3	173.9	155.4	148.0	144.3	133.2	129.5
75°	2785.7	2227.1	980.4	492.0	255.3	155.4	136.9	129.5	125.8	118.4	114.7
77.5°	1957.0	1657.4	725.1	399.5	214.6	140.6	122.1	114.7	111.0	99.9	99.9
80°	1328.1	1161.6	492.0	277.5	166.5	114.7	107.3	99.9	92.5	85.1	85.1
82.5°	825.0	813.9	355.2	181.3	122.1	92.5	85.1	85.1	74.0	66.6	66.6
85°	377.3	499.4	247.9	125.8	92.5	70.3	70.3	66.6	59.2	48.1	48.1
87.5°	118.4	166.5	129.5	55.5	51.8	40.7	40.7	37.0	37.0	29.6	29.6
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°	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6
2.5°	2334.4	2330.7	2330.7	2315.9	2352.9	2352.9	2375.1	2356.6	2367.7	2371.4	2401.0
5°	1853.4	1883.0	1905.2	1949.6	1975.5	1986.6	1986.6	2016.2	2005.1	2027.3	2071.7
7.5°	1357.7	1394.7	1461.3	1516.8	1561.2	1576.0	1572.3	1579.7	1590.8	1564.9	1572.3
10°	1098.7	1072.9	1095.0	1146.8	1187.5	1235.6	1198.6	1194.9	1206.0	1194.9	1217.1
12.5°	917.5	887.9	869.4	869.4	899.0	921.2	910.1	928.6	969.3	980.4	1006.3
15°	743.6	717.7	702.9	684.4	714.0	721.4	732.5	758.4	788.0	802.8	832.4
17.5°	595.6	595.6	595.6	580.8	591.9	603.0	606.7	640.0	643.7	658.5	669.6
20°	488.3	499.4	517.9	525.3	536.4	536.4	529.0	547.5	532.7	543.8	551.2
22.5°	440.2	455.0	462.4	466.1	480.9	484.6	466.1	469.8	473.5	462.4	466.1
25°	414.3	421.7	414.3	418.0	421.7	414.3	418.0	425.4	421.7	429.1	425.4
27.5°	403.2	395.8	392.1	388.4	388.4	381.0	384.7	384.7	392.1	395.8	395.8
30°	403.2	392.1	377.3	366.2	366.2	355.2	362.5	369.9	373.6	381.0	381.0
32.5°	414.3	392.1	366.2	355.2	344.1	336.7	344.1	355.2	369.9	373.6	377.3
35°	329.3	340.4	336.7	321.9	318.2	318.2	314.5	314.5	303.4	303.4	299.7
37.5°	296.0	292.3	299.7	303.4	307.1	296.0	296.0	281.2	277.5	281.2	281.2
40°	277.5	277.5	277.5	288.6	292.3	284.9	273.8	266.4	266.4	266.4	270.1
42.5°	270.1	262.7	259.0	266.4	277.5	270.1	259.0	255.3	255.3	259.0	259.0
45°	259.0	255.3	251.6	247.9	262.7	251.6	247.9	244.2	244.2	244.2	247.9
47.5°	247.9	244.2	236.8	236.8	240.5	236.8	233.1	233.1	233.1	240.5	240.5
50°	240.5	236.8	229.4	229.4	229.4	229.4	225.7	225.7	225.7	229.4	233.1
52.5°	229.4	225.7	222.0	218.3	218.3	218.3	218.3	218.3	218.3	222.0	225.7
55°	218.3	214.6	210.9	210.9	214.6	214.6	210.9	214.6	210.9	214.6	218.3
57.5°	207.2	203.5	199.8	203.5	207.2	203.5	203.5	203.5	203.5	203.5	207.2
60°	192.4	192.4	192.4	192.4	199.8	199.8	199.8	199.8	192.4	196.1	199.8
62.5°	185.0	181.3	181.3	185.0	188.7	188.7	192.4	188.7	185.0	188.7	188.7
65°	170.2	170.2	170.2	173.9	173.9	177.6	177.6	177.6	173.9	177.6	177.6
67.5°	159.1	159.1	159.1	159.1	166.5	166.5	166.5	166.5	162.8	162.8	166.5
70°	140.6	144.3	140.6	148.0	155.4	151.7	155.4	155.4	151.7	148.0	155.4
72.5°	129.5	129.5	129.5	129.5	140.6	140.6	140.6	144.3	140.6	136.9	140.6
75°	114.7	114.7	114.7	118.4	125.8	125.8	125.8	125.8	125.8	122.1	122.1
77.5°	99.9	103.6	99.9	103.6	111.0	107.3	111.0	114.7	111.0	107.3	107.3
80°	85.1	85.1	85.1	88.8	92.5	92.5	92.5	96.2	92.5	88.8	88.8
82.5°	66.6	66.6	70.3	70.3	74.0	74.0	74.0	77.7	74.0	70.3	70.3
85°	51.8	51.8	51.8	55.5	55.5	59.2	59.2	62.9	62.9	59.2	59.2
87.5°	33.3	29.6	33.3	33.3	37.0	37.0	33.3	29.6	33.3	29.6	25.9
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: P675885  
 CATALOG NUMBER: CCW-SA-2E-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6
2.5°	2430.6	2497.2	2545.2	2578.5	2626.6	2719.1	2756.1	2822.7	2841.2	2852.3
5°	2090.2	2160.5	2264.1	2338.1	2423.2	2597.0	2730.2	2830.1	2874.5	2915.2
7.5°	1638.9	1731.4	1838.6	1934.8	2075.4	2290.0	2463.9	2671.0	2748.7	2789.4
10°	1280.0	1365.1	1483.5	1601.9	1798.0	1979.2	2227.1	2415.8	2523.1	2552.6
12.5°	1080.3	1180.1	1320.7	1465.0	1587.1	1794.3	2045.8	2319.6	2419.5	2438.0
15°	917.5	1054.4	1198.6	1346.6	1487.2	1668.5	1938.5	2271.5	2419.5	2438.0
17.5°	758.4	880.5	1050.7	1209.7	1372.5	1620.4	1957.0	2312.2	2460.2	2515.7
20°	603.0	721.4	854.6	1054.4	1276.3	1539.0	1997.7	2449.1	2645.1	2704.3
22.5°	499.4	551.2	680.7	873.1	1135.7	1483.5	2038.4	2663.6	2870.8	2893.0
25°	436.5	473.5	554.9	736.2	1024.8	1446.5	2134.6	2911.5	3177.9	3177.9
27.5°	406.9	421.7	477.2	640.0	947.1	1413.2	2230.8	3185.3	3433.1	3484.9
30°	399.5	436.5	466.1	569.7	862.0	1320.7	2319.6	3399.8	3655.1	3658.8
32.5°	392.1	384.7	406.9	495.7	758.4	1224.5	2393.6	3618.1	3817.9	3829.0
35°	307.1	321.9	358.9	436.5	680.7	1154.2	2430.6	3736.5	4025.0	4036.1
37.5°	288.6	307.1	336.7	403.2	628.9	1095.0	2441.7	3965.9	4243.3	4265.5
40°	281.2	296.0	318.2	373.6	588.2	1021.1	2463.9	4202.6	4565.2	4535.6
42.5°	266.4	284.9	307.1	358.9	554.9	965.6	2467.6	4332.1	4735.3	4735.3
45°	262.7	273.8	299.7	358.9	517.9	917.5	2408.4	4461.6	4931.4	4872.2
47.5°	247.9	270.1	292.3	347.8	473.5	869.4	2338.1	4528.2	4957.3	4938.8
50°	244.2	266.4	303.4	329.3	447.6	847.2	2323.3	4694.7	5009.1	5005.4
52.5°	236.8	259.0	314.5	314.5	414.3	817.6	2393.6	4768.6	5020.2	5049.8
55°	225.7	259.0	292.3	288.6	384.7	780.6	2471.3	4961.0	5216.3	5208.9
57.5°	218.3	251.6	277.5	262.7	351.5	754.7	2585.9	5146.0	5453.0	5401.3
60°	207.2	251.6	247.9	244.2	325.6	732.5	2682.1	5183.0	5504.8	5538.1
62.5°	199.8	262.7	218.3	225.7	303.4	721.4	2641.4	4905.5	5434.5	5464.1
65°	192.4	225.7	199.8	207.2	296.0	699.2	2482.4	4572.6	5131.2	5260.7
67.5°	177.6	185.0	185.0	192.4	288.6	647.4	2156.8	3973.3	4668.8	4739.0
70°	162.8	166.5	166.5	177.6	281.2	588.2	1779.5	3436.8	4050.9	4184.1
72.5°	148.0	148.0	148.0	162.8	259.0	540.1	1465.0	2641.4	3366.5	3459.0
75°	129.5	129.5	129.5	144.3	233.1	492.0	1154.2	1964.4	2478.7	2611.8
77.5°	114.7	114.7	111.0	129.5	203.5	399.5	832.4	1387.3	1746.2	1857.1
80°	96.2	92.5	92.5	103.6	159.1	288.6	536.4	980.4	1217.1	1265.2
82.5°	77.7	74.0	70.3	77.7	114.7	181.3	333.0	684.4	780.6	751.0
85°	74.0	77.7	62.9	59.2	81.4	118.4	210.9	421.7	351.5	351.5
87.5°	29.6	25.9	25.9	22.2	40.7	44.4	92.5	77.7	59.2	59.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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