

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: P675918

Luminaire Tested: **CCW-SA-2E-840-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675918  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-840-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
SLL distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

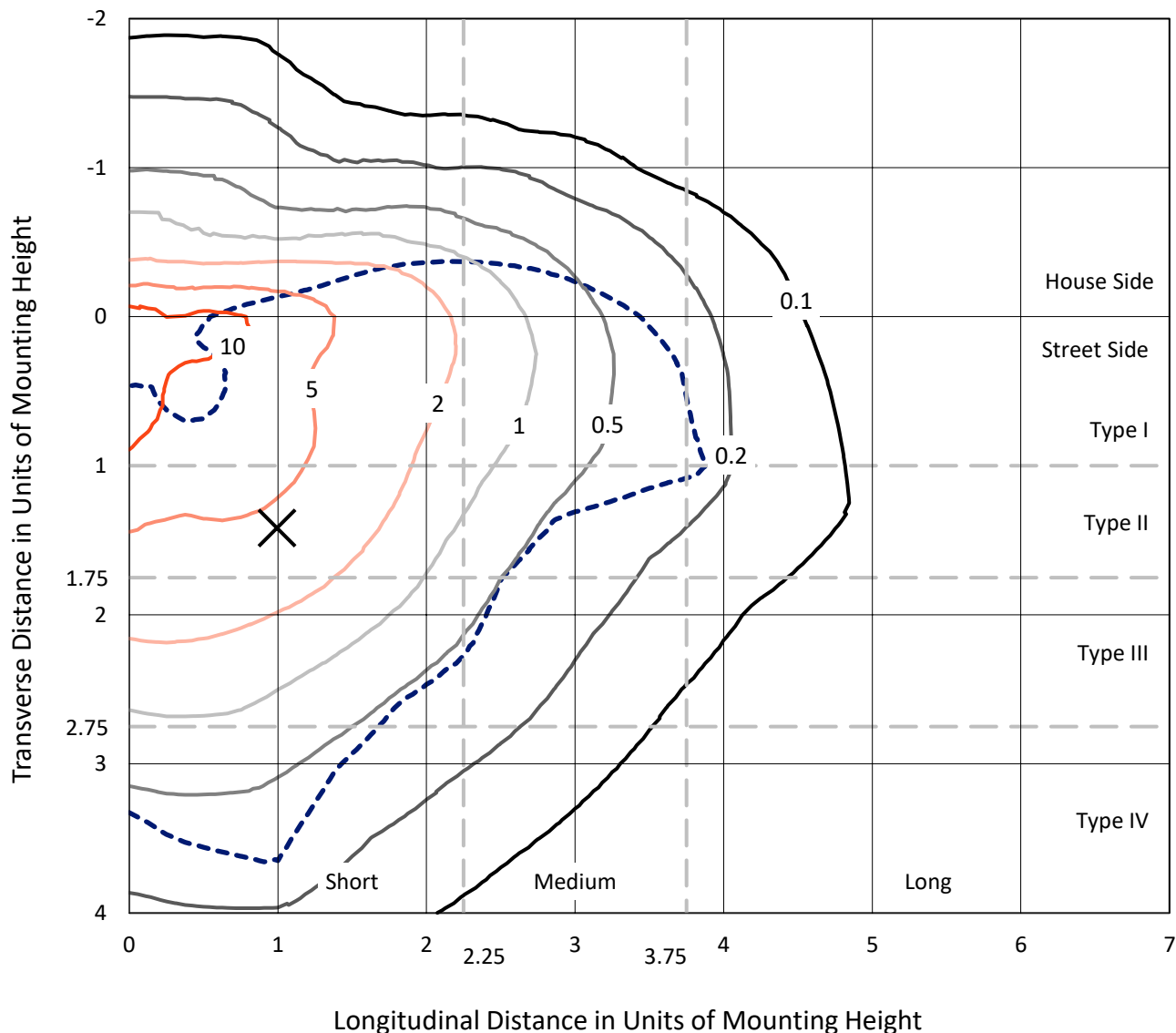
Lumens per Lamp: N/A  
Luminaire Lumens: 9672.7 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

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

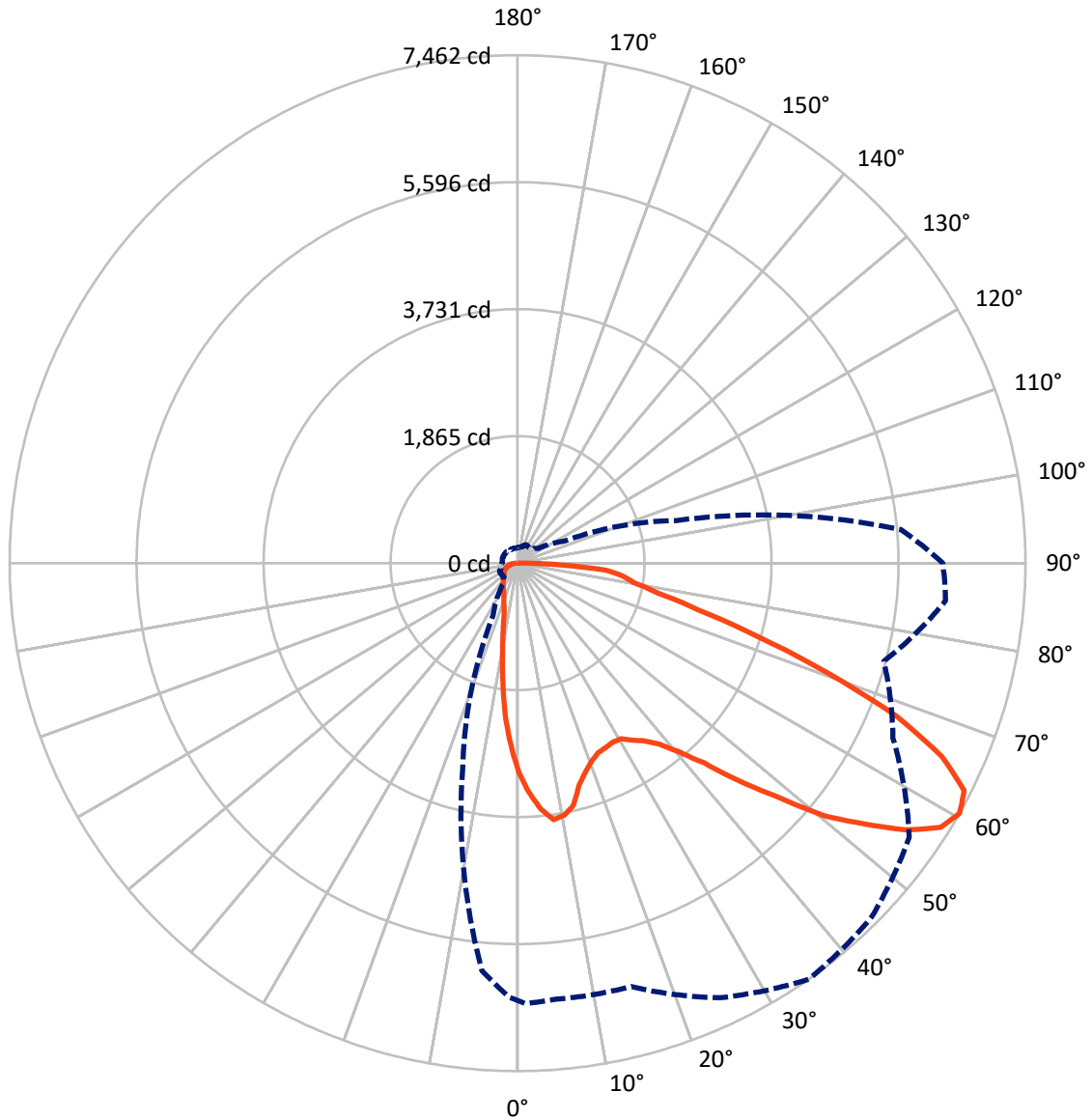
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 15.7 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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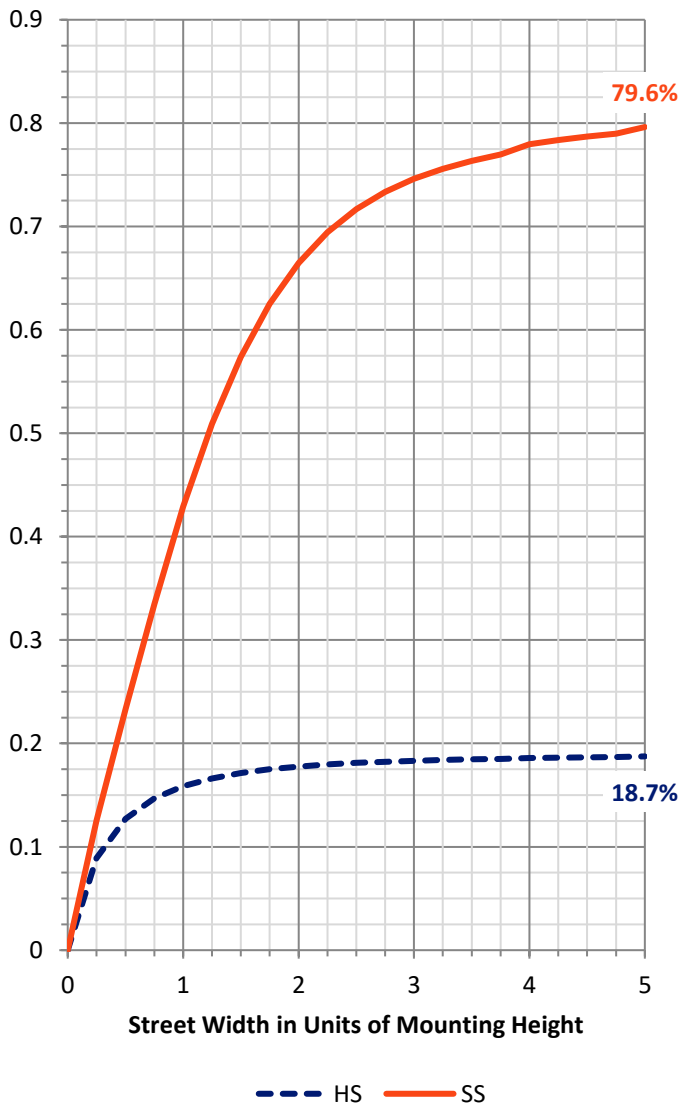
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1840.8	0.0	1840.8
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	7831.8	0.0	7831.8
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	9672.7	0.0	9672.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.0	2.5
10°-20°	506.7	5.2
20°-30°	741.4	7.7
30°-40°	1044.6	10.8
40°-50°	1435.6	14.8
50°-60°	1956.5	20.2
60°-70°	2141.3	22.1
70°-80°	1236.3	12.8
80°-90°	370.2	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°	9672.7	100.0
0°-180°	9672.7	100.0



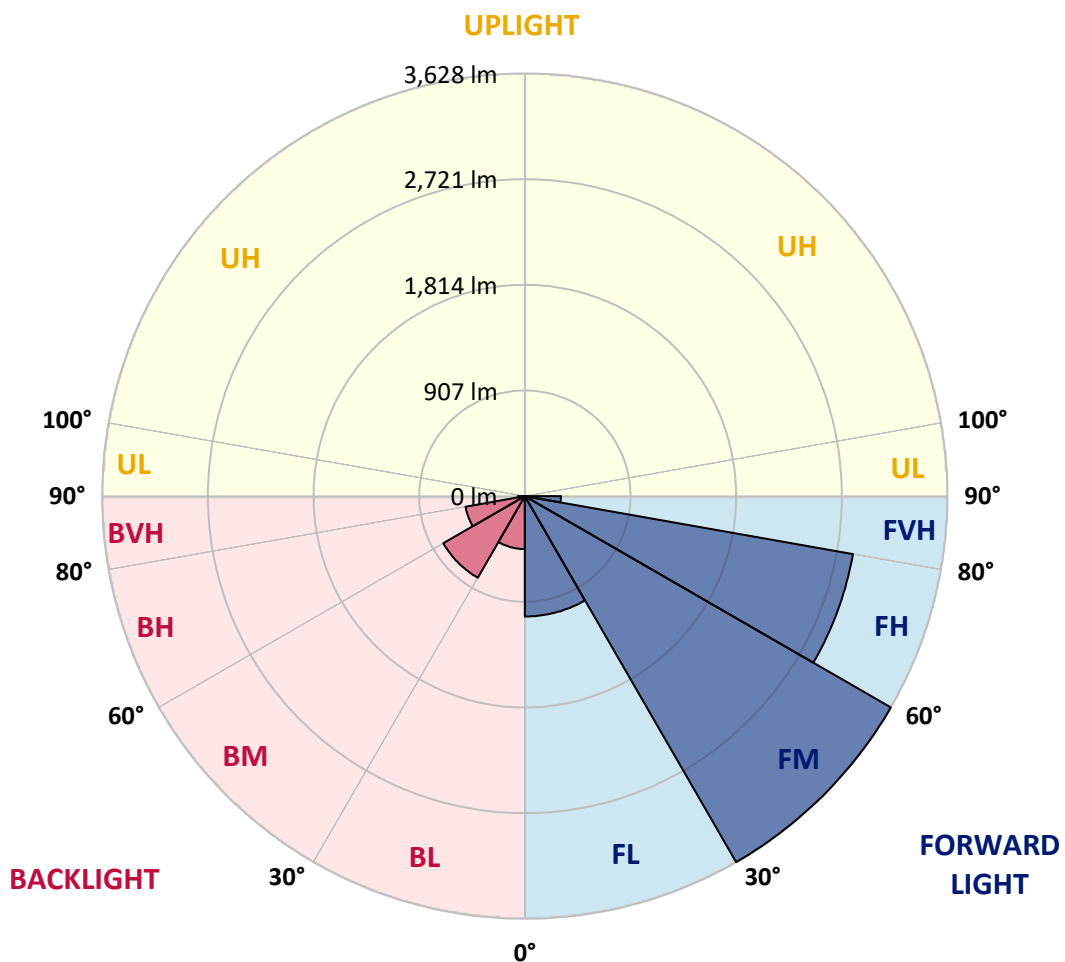
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1033.3	10.7			
FM (30°-60°)	3628.0	37.5			
FH (60°-80°)	2860.6	29.6			G2/5000
FVH (80°-90°)	309.9	3.2			G3/500
BL (0°-30°)	454.8	4.7	B1/500		
BM (30°-60°)	808.7	8.4	B1/1000		
BH (60°-80°)	517.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	60.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4
2.5°	3308.2	3295.4	3308.2	3355.4	3368.3	3389.8	3389.8	3359.7	3303.9	3278.2	3235.3
5°	3381.2	3359.7	3467.0	3565.7	3642.9	3634.3	3561.4	3501.3	3389.8	3222.4	3063.6
7.5°	3235.3	3256.7	3334.0	3591.4	3771.6	3806.0	3690.1	3570.0	3329.7	3098.0	2883.4
10°	2960.7	2990.7	3158.0	3424.1	3707.3	3763.1	3690.1	3544.2	3256.7	2969.2	2720.4
12.5°	2827.7	2896.3	2995.0	3316.8	3518.5	3651.5	3617.2	3522.8	3201.0	2862.0	2621.7
15°	2827.7	2844.8	2990.7	3261.0	3376.9	3381.2	3394.0	3411.2	3218.1	2909.2	2587.4
17.5°	2917.8	2965.0	3089.4	3256.7	3278.2	3226.7	3226.7	3299.6	3252.4	3042.2	2711.8
20°	3136.6	3119.4	3282.5	3351.1	3235.3	3106.6	3093.7	3218.1	3291.1	3183.8	2939.2
22.5°	3355.4	3432.7	3565.7	3411.2	3196.7	3025.0	3007.9	3162.3	3406.9	3428.4	3201.0
25°	3685.8	3763.1	3831.7	3642.9	3192.4	3003.6	3016.4	3136.6	3548.5	3775.9	3638.6
27.5°	4042.0	4089.2	4187.8	3896.1	3295.4	2977.8	2990.7	3170.9	3681.5	4003.3	3981.9
30°	4243.6	4295.1	4273.7	3943.3	3364.0	2995.0	2960.7	3218.1	3608.6	4003.3	4205.0
32.5°	4441.0	4411.0	4398.1	4020.5	3449.8	3102.3	3016.4	3316.8	3651.5	4067.7	4492.5
35°	4681.3	4638.4	4604.1	4170.7	3591.4	3205.2	3166.6	3445.5	3745.9	4200.7	4724.2
37.5°	4947.3	4947.3	4780.0	4282.2	3758.8	3372.6	3329.7	3630.0	3896.1	4282.2	5041.7
40°	5260.5	5273.4	4977.4	4432.4	3947.6	3638.6	3625.7	3870.3	4042.0	4402.4	5346.4
42.5°	5492.3	5500.8	5149.0	4488.2	4166.4	4007.6	4063.4	4256.5	4209.3	4509.7	5367.8
45°	5651.0	5608.1	5269.1	4647.0	4406.7	4561.1	4578.3	4634.1	4428.1	4574.0	5453.6
47.5°	5728.2	5719.7	5320.6	4831.5	4913.0	5123.2	5221.9	5144.7	4629.8	4505.4	5453.6
50°	5805.5	5732.5	5367.8	5084.6	5406.4	5831.2	5809.8	5668.2	4908.7	4591.2	5372.1
52.5°	5857.0	5792.6	5462.2	5312.0	5878.4	6359.0	6444.8	6183.1	5234.8	4749.9	5410.7
55°	6041.5	5990.0	5745.4	5621.0	6423.4	6916.8	6929.7	6565.0	5578.1	5011.7	5663.9
57.5°	6264.6	6294.6	6135.9	6058.6	6839.6	7324.4	7277.2	6848.2	5869.8	5329.2	5955.7
60°	6423.4	6470.6	6431.9	6440.5	7045.5	7461.7	7354.5	7024.1	6084.4	5569.5	6311.8
62.5°	6337.5	6431.9	6590.7	6556.4	7054.1	7363.1	7212.9	6792.4	6110.1	5882.7	6582.1
65°	6101.6	6110.1	6419.1	6607.9	6667.9	6852.4	6655.1	6307.5	5844.1	6075.8	6543.5
67.5°	5496.5	5565.2	5844.1	6213.1	5960.0	6002.9	5985.7	5483.7	5440.8	5942.8	6247.4
70°	4852.9	4900.1	5204.8	5638.1	5033.1	4831.5	4870.1	4496.8	4672.7	5530.9	5651.0
72.5°	4011.9	4042.0	4389.5	4771.4	4037.7	3677.2	3767.3	3462.7	3711.6	4840.0	4767.1
75°	3029.3	3085.1	3355.4	3806.0	2973.5	2741.8	2831.9	2707.5	2939.2	3986.2	3698.7
77.5°	2154.0	2111.1	2445.8	2977.8	2235.5	2098.2	2106.8	2128.2	2377.1	3359.7	2656.0
80°	1467.5	1480.3	1780.7	2184.0	1754.9	1733.5	1712.0	1883.7	1995.2	2660.3	1930.9
82.5°	871.0	871.0	1201.4	1553.3	1385.9	1561.9	1463.2	1617.6	1561.9	1956.6	1265.8
85°	407.6	407.6	617.9	1119.9	1072.7	1287.2	1094.2	1222.9	1154.2	1364.5	570.7
87.5°	68.7	60.1	124.4	549.2	442.0	502.0	197.4	652.2	725.1	952.6	141.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4
2.5°	3188.1	3158.0	3098.0	3020.7	2956.4	2874.9	2849.1	2793.3	2716.1	2707.5	2673.2
5°	3003.6	2900.6	2771.9	2613.1	2505.8	2394.3	2299.9	2244.1	2179.7	2171.2	2154.0
7.5°	2801.9	2673.2	2458.6	2269.8	2085.3	1909.4	1823.6	1716.3	1643.4	1587.6	1561.9
10°	2613.1	2493.0	2226.9	1969.5	1806.4	1690.6	1587.6	1476.0	1385.9	1317.3	1291.5
12.5°	2488.7	2347.1	2059.6	1815.0	1694.9	1561.9	1446.0	1325.9	1210.0	1119.9	1072.7
15°	2432.9	2299.9	2008.1	1737.8	1561.9	1377.4	1244.3	1124.2	982.6	918.2	896.8
17.5°	2565.9	2368.5	1990.9	1647.7	1398.8	1188.6	1025.5	896.8	793.8	729.4	703.7
20°	2737.5	2493.0	2021.0	1540.4	1244.3	1008.3	828.1	690.8	622.2	575.0	570.7
22.5°	2956.4	2677.5	2068.2	1463.2	1072.7	811.0	647.9	566.4	519.2	514.9	506.3
25°	3346.8	3012.2	2145.4	1360.2	935.4	669.4	553.5	506.3	484.9	472.0	480.6
27.5°	3681.5	3231.0	2201.2	1295.8	879.6	630.8	536.4	484.9	463.4	459.1	463.4
30°	3878.9	3432.7	2184.0	1175.7	768.1	600.7	570.7	553.5	510.6	476.3	476.3
32.5°	4059.1	3561.4	2179.7	1068.4	656.5	502.0	476.3	463.4	489.2	506.3	493.4
35°	4308.0	3763.1	2166.9	1008.3	609.3	463.4	420.5	386.2	369.0	360.4	373.3
37.5°	4574.0	3900.4	2132.5	999.8	583.6	442.0	407.6	373.3	356.1	347.6	343.3
40°	4865.8	4046.2	2093.9	956.9	570.7	429.1	394.8	364.7	343.3	330.4	326.1
42.5°	5054.6	4162.1	2055.3	935.4	544.9	420.5	381.9	356.1	334.7	317.5	317.5
45°	5161.9	4299.4	2016.7	913.9	514.9	424.8	381.9	347.6	321.8	313.2	304.6
47.5°	5209.1	4402.4	2003.8	879.6	489.2	407.6	373.3	339.0	313.2	296.1	291.8
50°	5333.5	4621.2	2051.0	853.9	459.1	390.5	394.8	334.7	308.9	287.5	283.2
52.5°	5406.4	4797.1	2154.0	815.3	437.7	369.0	386.2	326.1	296.1	274.6	274.6
55°	5672.5	5088.9	2265.6	785.2	411.9	339.0	356.1	308.9	274.6	261.7	261.7
57.5°	6011.4	5397.9	2360.0	772.3	394.8	317.5	317.5	300.4	261.7	244.6	240.3
60°	6247.4	5651.0	2415.7	763.8	377.6	296.1	283.2	300.4	248.9	231.7	227.4
62.5°	6273.2	5505.1	2360.0	759.5	373.3	274.6	257.4	287.5	236.0	218.8	210.3
65°	6110.1	5209.1	2205.5	742.3	369.0	253.2	240.3	248.9	218.8	206.0	197.4
67.5°	5784.0	4728.5	1982.4	733.7	364.7	236.0	218.8	214.5	201.7	188.8	180.2
70°	5024.6	4102.0	1720.6	695.1	356.1	223.1	197.4	193.1	180.2	171.6	167.3
72.5°	4217.9	3355.4	1420.3	643.6	339.0	201.7	180.2	171.6	167.3	154.5	150.2
75°	3231.0	2583.1	1137.1	570.7	296.1	180.2	158.8	150.2	145.9	137.3	133.0
77.5°	2269.8	1922.3	841.0	463.4	248.9	163.1	141.6	133.0	128.7	115.9	115.9
80°	1540.4	1347.3	570.7	321.8	193.1	133.0	124.4	115.9	107.3	98.7	98.7
82.5°	956.9	944.0	411.9	210.3	141.6	107.3	98.7	98.7	85.8	77.2	77.2
85°	437.7	579.3	287.5	145.9	107.3	81.5	81.5	77.2	68.7	55.8	55.8
87.5°	137.3	193.1	150.2	64.4	60.1	47.2	47.2	42.9	42.9	34.3	34.3
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°	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4
2.5°	2707.5	2703.2	2703.2	2686.1	2729.0	2729.0	2754.7	2733.3	2746.1	2750.4	2784.7
5°	2149.7	2184.0	2209.8	2261.3	2291.3	2304.2	2304.2	2338.5	2325.6	2351.4	2402.9
7.5°	1574.7	1617.6	1694.9	1759.2	1810.7	1827.9	1823.6	1832.2	1845.1	1815.0	1823.6
10°	1274.4	1244.3	1270.1	1330.2	1377.4	1433.1	1390.2	1385.9	1398.8	1385.9	1411.7
12.5°	1064.1	1029.8	1008.3	1008.3	1042.7	1068.4	1055.5	1077.0	1124.2	1137.1	1167.1
15°	862.5	832.4	815.3	793.8	828.1	836.7	849.6	879.6	913.9	931.1	965.4
17.5°	690.8	690.8	690.8	673.7	686.5	699.4	703.7	742.3	746.6	763.8	776.6
20°	566.4	579.3	600.7	609.3	622.2	622.2	613.6	635.0	617.9	630.8	639.3
22.5°	510.6	527.8	536.4	540.6	557.8	562.1	540.6	544.9	549.2	536.4	540.6
25°	480.6	489.2	480.6	484.9	489.2	480.6	484.9	493.4	489.2	497.7	493.4
27.5°	467.7	459.1	454.8	450.5	450.5	442.0	446.2	446.2	454.8	459.1	459.1
30°	467.7	454.8	437.7	424.8	424.8	411.9	420.5	429.1	433.4	442.0	442.0
32.5°	480.6	454.8	424.8	411.9	399.0	390.5	399.0	411.9	429.1	433.4	437.7
35°	381.9	394.8	390.5	373.3	369.0	369.0	364.7	364.7	351.8	351.8	347.6
37.5°	343.3	339.0	347.6	351.8	356.1	343.3	343.3	326.1	321.8	326.1	326.1
40°	321.8	321.8	321.8	334.7	339.0	330.4	317.5	308.9	308.9	308.9	313.2
42.5°	313.2	304.6	300.4	308.9	321.8	313.2	300.4	296.1	296.1	300.4	300.4
45°	300.4	296.1	291.8	287.5	304.6	291.8	287.5	283.2	283.2	283.2	287.5
47.5°	287.5	283.2	274.6	274.6	278.9	274.6	270.3	270.3	270.3	278.9	278.9
50°	278.9	274.6	266.0	266.0	266.0	266.0	261.7	261.7	261.7	266.0	270.3
52.5°	266.0	261.7	257.4	253.2	253.2	253.2	253.2	253.2	253.2	257.4	261.7
55°	253.2	248.9	244.6	244.6	248.9	248.9	244.6	248.9	244.6	248.9	253.2
57.5°	240.3	236.0	231.7	236.0	240.3	236.0	236.0	236.0	236.0	236.0	240.3
60°	223.1	223.1	223.1	223.1	231.7	231.7	231.7	231.7	223.1	227.4	231.7
62.5°	214.5	210.3	210.3	214.5	218.8	218.8	223.1	218.8	214.5	218.8	218.8
65°	197.4	197.4	197.4	201.7	201.7	206.0	206.0	206.0	201.7	206.0	206.0
67.5°	184.5	184.5	184.5	184.5	193.1	193.1	193.1	193.1	188.8	188.8	193.1
70°	163.1	167.3	163.1	171.6	180.2	175.9	180.2	180.2	175.9	171.6	180.2
72.5°	150.2	150.2	150.2	150.2	163.1	163.1	163.1	167.3	163.1	158.8	163.1
75°	133.0	133.0	133.0	137.3	145.9	145.9	145.9	145.9	145.9	141.6	141.6
77.5°	115.9	120.1	115.9	120.1	128.7	124.4	128.7	133.0	128.7	124.4	124.4
80°	98.7	98.7	98.7	103.0	107.3	107.3	107.3	111.6	107.3	103.0	103.0
82.5°	77.2	77.2	81.5	81.5	85.8	85.8	85.8	90.1	85.8	81.5	81.5
85°	60.1	60.1	60.1	64.4	64.4	68.7	68.7	72.9	72.9	68.7	68.7
87.5°	38.6	34.3	38.6	38.6	42.9	42.9	38.6	34.3	38.6	34.3	30.0
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: P675918  
 CATALOG NUMBER: CCW-SA-2E-840-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4
2.5°	2819.1	2896.3	2952.1	2990.7	3046.5	3153.8	3196.7	3273.9	3295.4	3308.2
5°	2424.3	2505.8	2626.0	2711.8	2810.5	3012.2	3166.6	3282.5	3334.0	3381.2
7.5°	1900.8	2008.1	2132.5	2244.1	2407.2	2656.0	2857.7	3098.0	3188.1	3235.3
10°	1484.6	1583.3	1720.6	1857.9	2085.3	2295.6	2583.1	2801.9	2926.3	2960.7
12.5°	1252.9	1368.8	1531.8	1699.2	1840.8	2081.0	2372.8	2690.3	2806.2	2827.7
15°	1064.1	1222.9	1390.2	1561.9	1724.9	1935.2	2248.4	2634.6	2806.2	2827.7
17.5°	879.6	1021.2	1218.6	1403.1	1591.9	1879.4	2269.8	2681.8	2853.4	2917.8
20°	699.4	836.7	991.2	1222.9	1480.3	1785.0	2317.0	2840.5	3067.9	3136.6
22.5°	579.3	639.3	789.5	1012.6	1317.3	1720.6	2364.2	3089.4	3329.7	3355.4
25°	506.3	549.2	643.6	853.9	1188.6	1677.7	2475.8	3376.9	3685.8	3685.8
27.5°	472.0	489.2	553.5	742.3	1098.5	1639.1	2587.4	3694.4	3981.9	4042.0
30°	463.4	506.3	540.6	660.8	999.8	1531.8	2690.3	3943.3	4239.3	4243.6
32.5°	454.8	446.2	472.0	575.0	879.6	1420.3	2776.2	4196.4	4428.1	4441.0
35°	356.1	373.3	416.2	506.3	789.5	1338.7	2819.1	4333.7	4668.4	4681.3
37.5°	334.7	356.1	390.5	467.7	729.4	1270.1	2831.9	4599.8	4921.6	4947.3
40°	326.1	343.3	369.0	433.4	682.2	1184.3	2857.7	4874.4	5294.9	5260.5
42.5°	308.9	330.4	356.1	416.2	643.6	1119.9	2862.0	5024.6	5492.3	5492.3
45°	304.6	317.5	347.6	416.2	600.7	1064.1	2793.3	5174.7	5719.7	5651.0
47.5°	287.5	313.2	339.0	403.3	549.2	1008.3	2711.8	5252.0	5749.7	5728.2
50°	283.2	308.9	351.8	381.9	519.2	982.6	2694.6	5445.1	5809.8	5805.5
52.5°	274.6	300.4	364.7	364.7	480.6	948.3	2776.2	5530.9	5822.6	5857.0
55°	261.7	300.4	339.0	334.7	446.2	905.4	2866.3	5754.0	6050.1	6041.5
57.5°	253.2	291.8	321.8	304.6	407.6	875.3	2999.3	5968.5	6324.7	6264.6
60°	240.3	291.8	287.5	283.2	377.6	849.6	3110.8	6011.4	6384.7	6423.4
62.5°	231.7	304.6	253.2	261.7	351.8	836.7	3063.6	5689.6	6303.2	6337.5
65°	223.1	261.7	231.7	240.3	343.3	811.0	2879.1	5303.5	5951.4	6101.6
67.5°	206.0	214.5	214.5	223.1	334.7	750.9	2501.6	4608.3	5415.0	5496.5
70°	188.8	193.1	193.1	206.0	326.1	682.2	2063.9	3986.2	4698.5	4852.9
72.5°	171.6	171.6	171.6	188.8	300.4	626.5	1699.2	3063.6	3904.6	4011.9
75°	150.2	150.2	150.2	167.3	270.3	570.7	1338.7	2278.4	2874.9	3029.3
77.5°	133.0	133.0	128.7	150.2	236.0	463.4	965.4	1609.1	2025.3	2154.0
80°	111.6	107.3	107.3	120.1	184.5	334.7	622.2	1137.1	1411.7	1467.5
82.5°	90.1	85.8	81.5	90.1	133.0	210.3	386.2	793.8	905.4	871.0
85°	85.8	90.1	72.9	68.7	94.4	137.3	244.6	489.2	407.6	407.6
87.5°	34.3	30.0	30.0	25.7	47.2	51.5	107.3	90.1	68.7	68.7
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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