

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: P675929

Luminaire Tested: **CCW-SA-2E-850-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675929
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-850-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SLL distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

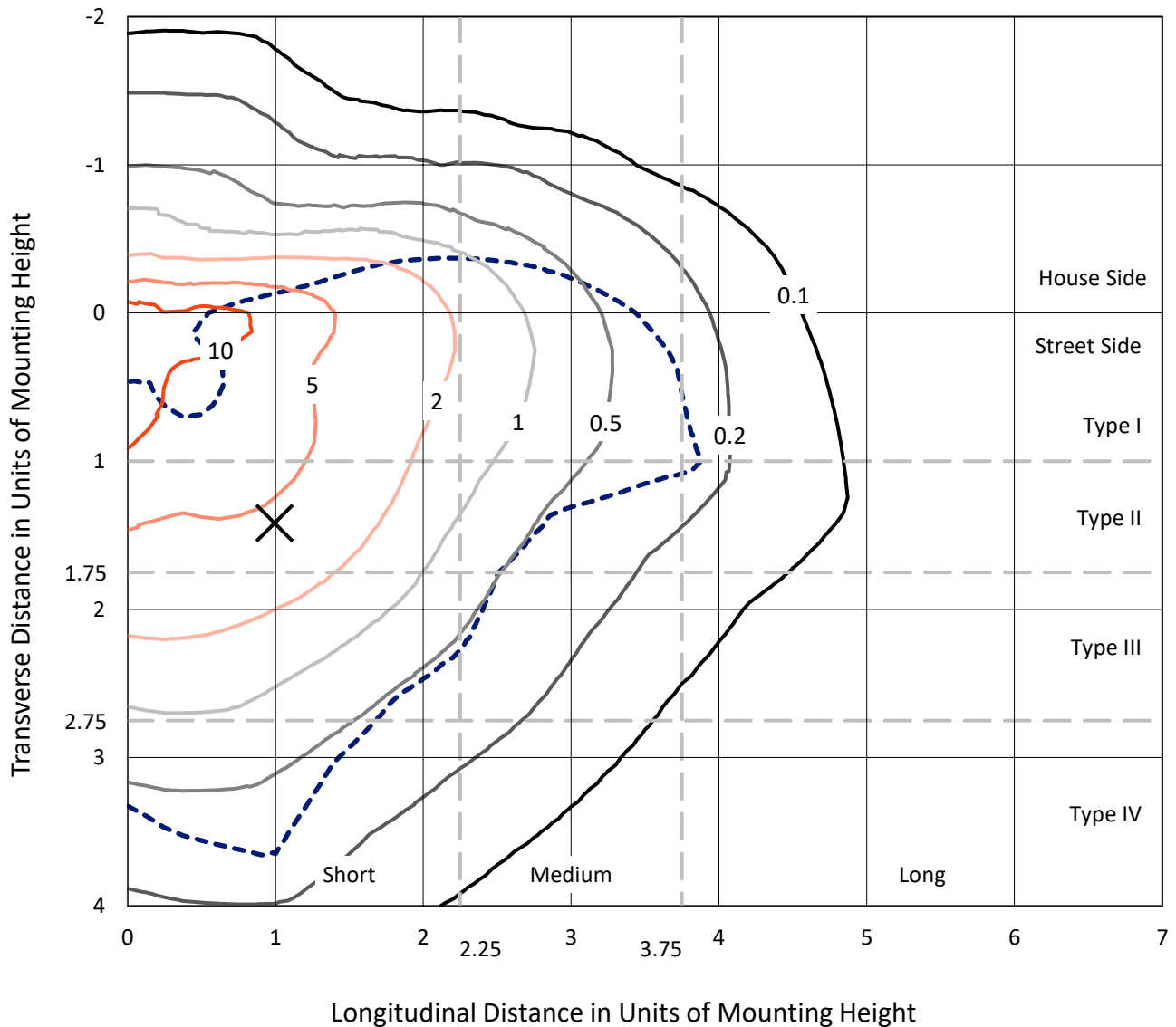
Lumens per Lamp: N/A
Luminaire Lumens: 9899.6 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

REPORT NUMBER: P675929
 CATALOG NUMBER: CCW-SA-2E-850-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

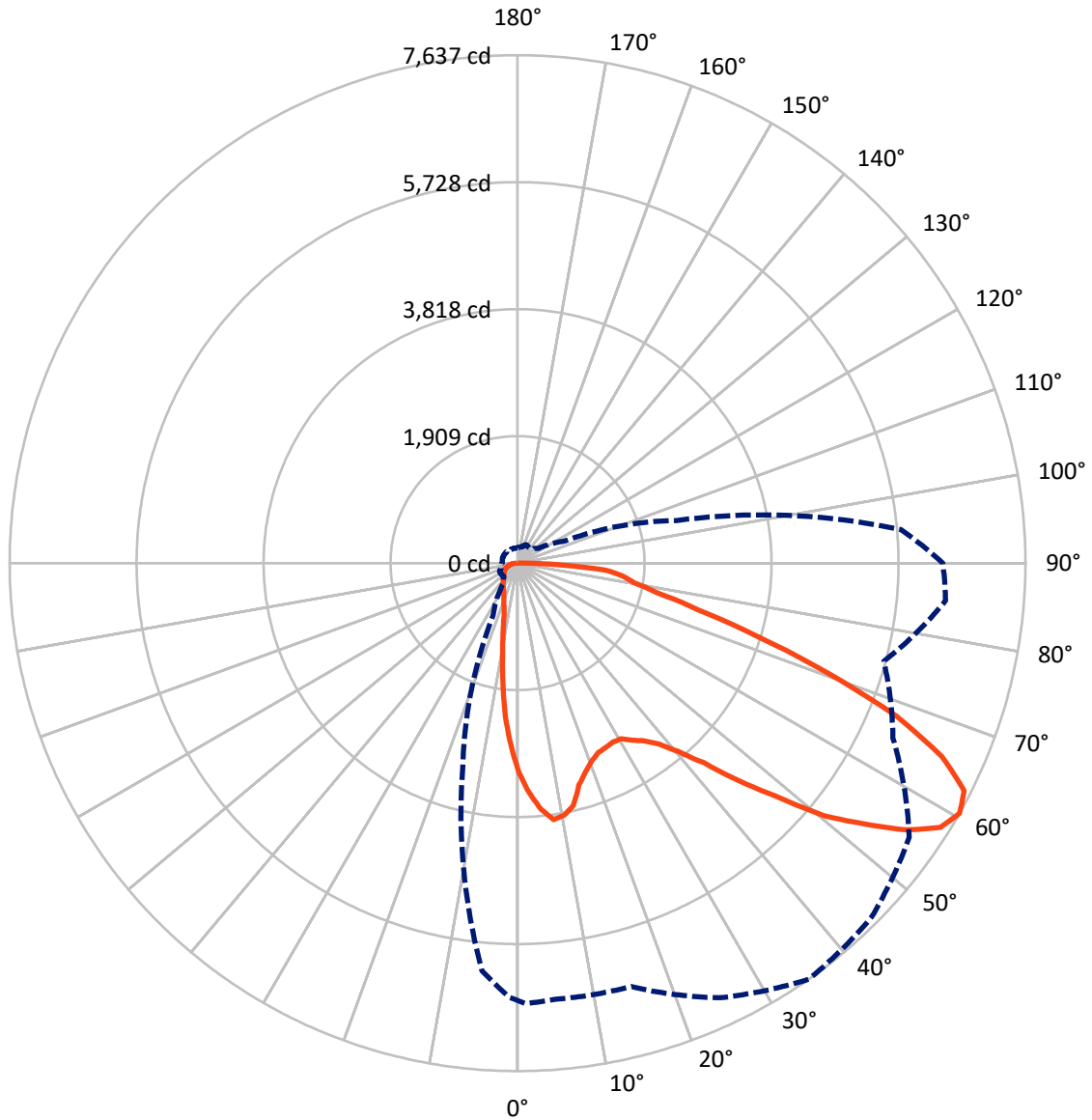
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 16 fc
 Type IV - Short - N/A

REPORT NUMBER: P675929
CATALOG NUMBER: CCW-SA-2E-850-U-SLL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P675929

CATALOG NUMBER: CCW-SA-2E-850-U-SLL

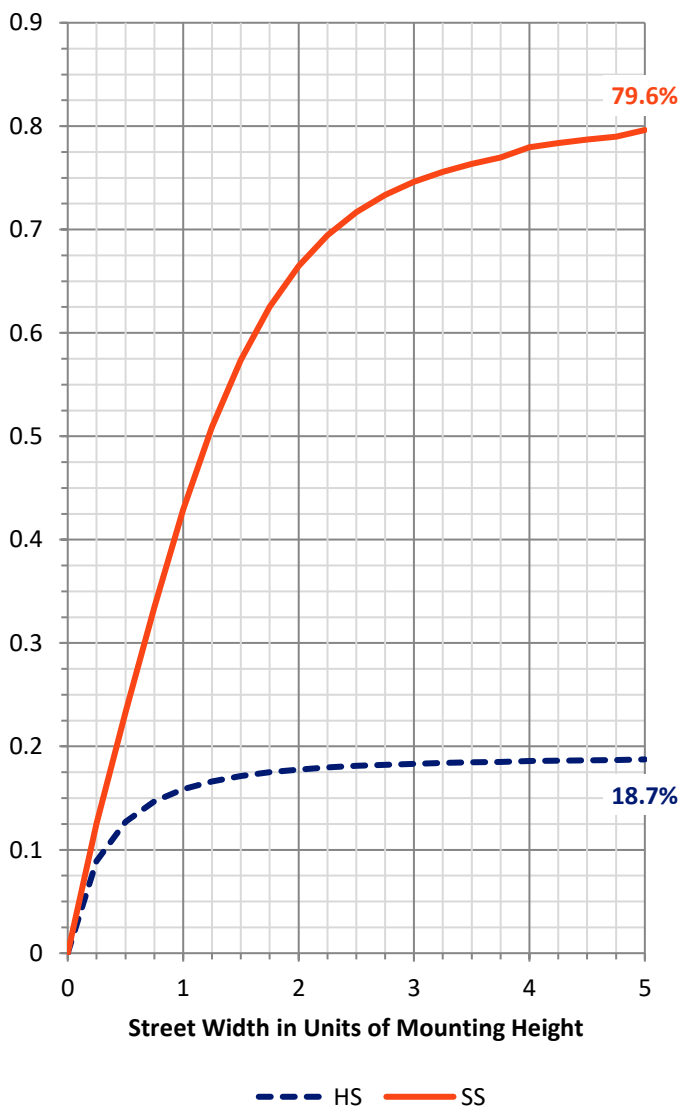
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1884.0	0.0	1884.0
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	8015.5	0.0	8015.5
	% Fixture	81.0	0.0	81.0
Total	Lumens	9899.6	0.0	9899.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	2.5
10°-20°	518.6	5.2
20°-30°	758.8	7.7
30°-40°	1069.1	10.8
40°-50°	1469.3	14.8
50°-60°	2002.4	20.2
60°-70°	2191.6	22.1
70°-80°	1265.3	12.8
80°-90°	378.9	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°	9899.6	100.0
0°-180°	9899.6	100.0



REPORT NUMBER: P675929

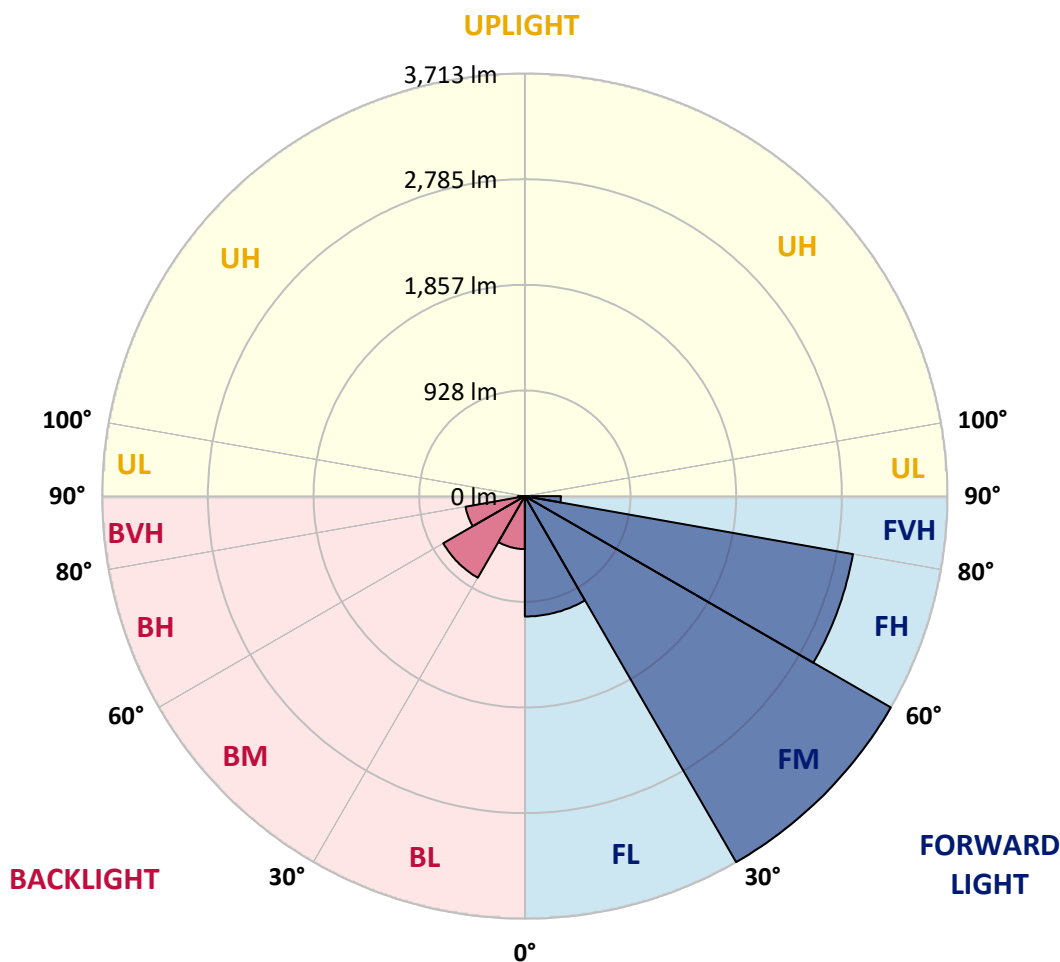
CATALOG NUMBER: CCW-SA-2E-850-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.6	10.7			
FM (30°-60°)	3713.1	37.5			
FH (60°-80°)	2927.7	29.6			G2/5000
FVH (80°-90°)	317.2	3.2			G3/500
BL (0°-30°)	465.5	4.7	B1/500		
BM (30°-60°)	827.6	8.4	B1/1000		
BH (60°-80°)	529.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	61.7	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





REPORT NUMBER: P675929

CATALOG NUMBER: CCW-SA-2E-850-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9
2.5°	3385.8	3372.7	3385.8	3434.1	3447.3	3469.3	3469.3	3438.5	3381.4	3355.1	3311.2
5°	3460.5	3438.5	3548.3	3649.3	3728.4	3719.6	3644.9	3583.4	3469.3	3298.0	3135.5
7.5°	3311.2	3333.1	3412.2	3675.7	3860.1	3895.2	3776.7	3653.7	3407.8	3170.6	2951.1
10°	3030.1	3060.9	3232.1	3504.4	3794.2	3851.3	3776.7	3627.4	3333.1	3038.9	2784.2
12.5°	2894.0	2964.2	3065.3	3394.6	3601.0	3737.1	3702.0	3605.4	3276.0	2929.1	2683.2
15°	2894.0	2911.5	3060.9	3337.5	3456.1	3460.5	3473.7	3491.2	3293.6	2977.4	2648.1
17.5°	2986.2	3034.5	3161.9	3333.1	3355.1	3302.4	3302.4	3377.0	3328.7	3113.6	2775.4
20°	3210.2	3192.6	3359.5	3429.7	3311.2	3179.4	3166.3	3293.6	3368.3	3258.5	3008.2
22.5°	3434.1	3513.2	3649.3	3491.2	3271.6	3096.0	3078.4	3236.5	3486.8	3508.8	3276.0
25°	3772.3	3851.3	3921.6	3728.4	3267.3	3074.0	3087.2	3210.2	3631.8	3864.5	3724.0
27.5°	4136.8	4185.1	4286.1	3987.5	3372.7	3047.7	3060.9	3245.3	3767.9	4097.2	4075.3
30°	4343.2	4395.9	4373.9	4035.8	3442.9	3065.3	3030.1	3293.6	3693.2	4097.2	4303.6
32.5°	4545.2	4514.4	4501.3	4114.8	3530.7	3175.0	3087.2	3394.6	3737.1	4163.1	4597.9
35°	4791.1	4747.2	4712.1	4268.5	3675.7	3280.4	3240.9	3526.4	3833.8	4299.3	4835.0
37.5°	5063.4	5063.4	4892.1	4382.7	3846.9	3451.7	3407.8	3715.2	3987.5	4382.7	5160.0
40°	5383.9	5397.1	5094.1	4536.4	4040.2	3724.0	3710.8	3961.1	4136.8	4505.7	5471.8
42.5°	5621.1	5629.9	5269.8	4593.5	4264.1	4101.6	4158.7	4356.3	4308.0	4615.4	5493.7
45°	5783.6	5739.7	5392.7	4756.0	4510.0	4668.1	4685.7	4742.8	4532.0	4681.3	5581.6
47.5°	5862.6	5853.8	5445.4	4944.8	5028.2	5243.4	5344.4	5265.4	4738.4	4611.0	5581.6
50°	5941.7	5867.0	5493.7	5203.9	5533.3	5968.0	5946.1	5801.1	5023.8	4698.9	5498.1
52.5°	5994.4	5928.5	5590.3	5436.6	6016.3	6508.2	6596.0	6328.1	5357.6	4861.4	5537.7
55°	6183.2	6130.5	5880.2	5752.8	6574.0	7079.1	7092.2	6719.0	5708.9	5129.2	5796.7
57.5°	6411.6	6442.3	6279.8	6200.8	7000.0	7496.2	7447.9	7008.8	6007.5	5454.2	6095.4
60°	6574.0	6622.3	6582.8	6591.6	7210.8	7636.8	7527.0	7188.8	6227.1	5700.1	6459.9
62.5°	6486.2	6582.8	6745.3	6710.2	7219.6	7535.8	7382.1	6951.7	6253.5	6020.7	6736.5
65°	6244.7	6253.5	6569.6	6762.9	6824.4	7013.2	6811.2	6455.5	5981.2	6218.3	6697.0
67.5°	5625.5	5695.7	5981.2	6358.9	6099.8	6143.7	6126.1	5612.3	5568.4	6082.2	6394.0
70°	4966.8	5015.1	5326.9	5770.4	5151.2	4944.8	4984.3	4602.3	4782.3	5660.6	5783.6
72.5°	4106.0	4136.8	4492.5	4883.3	4132.4	3763.5	3855.7	3543.9	3798.6	4953.6	4878.9
75°	3100.4	3157.5	3434.1	3895.2	3043.3	2806.2	2898.4	2771.0	3008.2	4079.7	3785.5
77.5°	2204.5	2160.6	2503.1	3047.7	2288.0	2147.4	2156.2	2178.2	2432.9	3438.5	2718.3
80°	1501.9	1515.1	1822.5	2235.3	1796.1	1774.2	1752.2	1927.9	2042.0	2722.7	1976.2
82.5°	891.5	891.5	1229.6	1589.7	1418.4	1598.5	1497.5	1655.6	1598.5	2002.5	1295.5
85°	417.2	417.2	632.4	1146.2	1097.9	1317.4	1119.8	1251.6	1181.3	1396.5	584.1
87.5°	70.3	61.5	127.4	562.1	452.3	513.8	202.0	667.5	742.2	974.9	144.9
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: P675929

CATALOG NUMBER: CCW-SA-2E-850-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9
2.5°	3262.9	3232.1	3170.6	3091.6	3025.7	2942.3	2915.9	2858.9	2779.8	2771.0	2735.9
5°	3074.0	2968.6	2836.9	2674.4	2564.6	2450.4	2353.8	2296.7	2230.9	2222.1	2204.5
7.5°	2867.6	2735.9	2516.3	2323.1	2134.3	1954.2	1866.4	1756.6	1681.9	1624.8	1598.5
10°	2674.4	2551.4	2279.2	2015.7	1848.8	1730.2	1624.8	1510.7	1418.4	1348.2	1321.8
12.5°	2547.1	2402.1	2107.9	1857.6	1734.6	1598.5	1479.9	1357.0	1238.4	1146.2	1097.9
15°	2490.0	2353.8	2055.2	1778.5	1598.5	1409.7	1273.5	1150.6	1005.6	939.8	917.8
17.5°	2626.1	2424.1	2037.6	1686.3	1431.6	1216.4	1049.6	917.8	812.4	746.6	720.2
20°	2801.8	2551.4	2068.4	1576.5	1273.5	1032.0	847.6	707.0	636.8	588.5	584.1
22.5°	3025.7	2740.3	2116.7	1497.5	1097.9	830.0	663.1	579.7	531.4	527.0	518.2
25°	3425.4	3082.8	2195.7	1392.1	957.3	685.1	566.5	518.2	496.2	483.1	491.8
27.5°	3767.9	3306.8	2252.8	1326.2	900.3	645.5	548.9	496.2	474.3	469.9	474.3
30°	3969.9	3513.2	2235.3	1203.3	786.1	614.8	584.1	566.5	522.6	487.5	487.5
32.5°	4154.3	3644.9	2230.9	1093.5	671.9	513.8	487.5	474.3	500.6	518.2	505.0
35°	4409.0	3851.3	2217.7	1032.0	623.6	474.3	430.4	395.2	377.7	368.9	382.1
37.5°	4681.3	3991.9	2182.6	1023.2	597.2	452.3	417.2	382.1	364.5	355.7	351.3
40°	4979.9	4141.2	2143.0	979.3	584.1	439.1	404.0	373.3	351.3	338.1	333.8
42.5°	5173.2	4259.7	2103.5	957.3	557.7	430.4	390.8	364.5	342.5	325.0	325.0
45°	5282.9	4400.3	2064.0	935.4	527.0	434.8	390.8	355.7	329.4	320.6	311.8
47.5°	5331.3	4505.7	2050.8	900.3	500.6	417.2	382.1	346.9	320.6	303.0	298.6
50°	5458.6	4729.6	2099.1	873.9	469.9	399.6	404.0	342.5	316.2	294.2	289.8
52.5°	5533.3	4909.7	2204.5	834.4	447.9	377.7	395.2	333.8	303.0	281.1	281.1
55°	5805.5	5208.3	2318.7	803.6	421.6	346.9	364.5	316.2	281.1	267.9	267.9
57.5°	6152.5	5524.5	2415.3	790.5	404.0	325.0	325.0	307.4	267.9	250.3	245.9
60°	6394.0	5783.6	2472.4	781.7	386.4	303.0	289.8	307.4	254.7	237.1	232.7
62.5°	6420.3	5634.3	2415.3	777.3	382.1	281.1	263.5	294.2	241.5	224.0	215.2
65°	6253.5	5331.3	2257.2	759.7	377.7	259.1	245.9	254.7	224.0	210.8	202.0
67.5°	5919.7	4839.4	2028.9	750.9	373.3	241.5	224.0	219.6	206.4	193.2	184.4
70°	5142.4	4198.3	1761.0	711.4	364.5	228.4	202.0	197.6	184.4	175.7	171.3
72.5°	4316.8	3434.1	1453.6	658.7	346.9	206.4	184.4	175.7	171.3	158.1	153.7
75°	3306.8	2643.7	1163.7	584.1	303.0	184.4	162.5	153.7	149.3	140.5	136.1
77.5°	2323.1	1967.4	860.7	474.3	254.7	166.9	144.9	136.1	131.7	118.6	118.6
80°	1576.5	1378.9	584.1	329.4	197.6	136.1	127.4	118.6	109.8	101.0	101.0
82.5°	979.3	966.1	421.6	215.2	144.9	109.8	101.0	101.0	87.8	79.0	79.0
85°	447.9	592.8	294.2	149.3	109.8	83.4	83.4	79.0	70.3	57.1	57.1
87.5°	140.5	197.6	153.7	65.9	61.5	48.3	48.3	43.9	43.9	35.1	35.1
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: P675929
 CATALOG NUMBER: CCW-SA-2E-850-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9
2.5°	2771.0	2766.6	2766.6	2749.1	2793.0	2793.0	2819.3	2797.4	2810.5	2814.9	2850.1
5°	2200.1	2235.3	2261.6	2314.3	2345.0	2358.2	2358.2	2393.4	2380.2	2406.5	2459.2
7.5°	1611.7	1655.6	1734.6	1800.5	1853.2	1870.8	1866.4	1875.2	1888.3	1857.6	1866.4
10°	1304.3	1273.5	1299.9	1361.4	1409.7	1466.8	1422.8	1418.4	1431.6	1418.4	1444.8
12.5°	1089.1	1054.0	1032.0	1032.0	1067.1	1093.5	1080.3	1102.3	1150.6	1163.7	1194.5
15°	882.7	851.9	834.4	812.4	847.6	856.3	869.5	900.3	935.4	953.0	988.1
17.5°	707.0	707.0	707.0	689.5	702.6	715.8	720.2	759.7	764.1	781.7	794.9
20°	579.7	592.8	614.8	623.6	636.8	636.8	628.0	649.9	632.4	645.5	654.3
22.5°	522.6	540.2	548.9	553.3	570.9	575.3	553.3	557.7	562.1	548.9	553.3
25°	491.8	500.6	491.8	496.2	500.6	491.8	496.2	505.0	500.6	509.4	505.0
27.5°	478.7	469.9	465.5	461.1	461.1	452.3	456.7	456.7	465.5	469.9	469.9
30°	478.7	465.5	447.9	434.8	434.8	421.6	430.4	439.1	443.5	452.3	452.3
32.5°	491.8	465.5	434.8	421.6	408.4	399.6	408.4	421.6	439.1	443.5	447.9
35°	390.8	404.0	399.6	382.1	377.7	377.7	373.3	373.3	360.1	360.1	355.7
37.5°	351.3	346.9	355.7	360.1	364.5	351.3	351.3	333.8	329.4	333.8	333.8
40°	329.4	329.4	329.4	342.5	346.9	338.1	325.0	316.2	316.2	316.2	320.6
42.5°	320.6	311.8	307.4	316.2	329.4	320.6	307.4	303.0	303.0	307.4	307.4
45°	307.4	303.0	298.6	294.2	311.8	298.6	294.2	289.8	289.8	289.8	294.2
47.5°	294.2	289.8	281.1	281.1	285.4	281.1	276.7	276.7	276.7	285.4	285.4
50°	285.4	281.1	272.3	272.3	272.3	272.3	267.9	267.9	267.9	272.3	276.7
52.5°	272.3	267.9	263.5	259.1	259.1	259.1	259.1	259.1	259.1	263.5	267.9
55°	259.1	254.7	250.3	250.3	254.7	254.7	250.3	254.7	250.3	254.7	259.1
57.5°	245.9	241.5	237.1	241.5	245.9	241.5	241.5	241.5	241.5	241.5	245.9
60°	228.4	228.4	228.4	228.4	237.1	237.1	237.1	237.1	228.4	232.7	237.1
62.5°	219.6	215.2	215.2	219.6	224.0	224.0	228.4	224.0	219.6	224.0	224.0
65°	202.0	202.0	202.0	206.4	206.4	210.8	210.8	210.8	206.4	210.8	210.8
67.5°	188.8	188.8	188.8	188.8	197.6	197.6	197.6	197.6	193.2	193.2	197.6
70°	166.9	171.3	166.9	175.7	184.4	180.1	184.4	184.4	180.1	175.7	184.4
72.5°	153.7	153.7	153.7	153.7	166.9	166.9	166.9	171.3	166.9	162.5	166.9
75°	136.1	136.1	136.1	140.5	149.3	149.3	149.3	149.3	149.3	144.9	144.9
77.5°	118.6	123.0	118.6	123.0	131.7	127.4	131.7	136.1	131.7	127.4	127.4
80°	101.0	101.0	101.0	105.4	109.8	109.8	109.8	114.2	109.8	105.4	105.4
82.5°	79.0	79.0	83.4	83.4	87.8	87.8	87.8	92.2	87.8	83.4	83.4
85°	61.5	61.5	61.5	65.9	65.9	70.3	70.3	74.7	74.7	70.3	70.3
87.5°	39.5	35.1	39.5	39.5	43.9	43.9	39.5	35.1	39.5	35.1	30.7
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: P675929
 CATALOG NUMBER: CCW-SA-2E-850-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9	3161.9
2.5°	2885.2	2964.2	3021.3	3060.9	3117.9	3227.7	3271.6	3350.7	3372.7	3385.8
5°	2481.2	2564.6	2687.6	2775.4	2876.4	3082.8	3240.9	3359.5	3412.2	3460.5
7.5°	1945.4	2055.2	2182.6	2296.7	2463.6	2718.3	2924.7	3170.6	3262.9	3311.2
10°	1519.5	1620.5	1761.0	1901.5	2134.3	2349.4	2643.7	2867.6	2995.0	3030.1
12.5°	1282.3	1400.9	1567.8	1739.0	1883.9	2129.9	2428.5	2753.5	2872.0	2894.0
15°	1089.1	1251.6	1422.8	1598.5	1765.4	1980.6	2301.1	2696.4	2872.0	2894.0
17.5°	900.3	1045.2	1247.2	1436.0	1629.2	1923.5	2323.1	2744.7	2920.3	2986.2
20°	715.8	856.3	1014.4	1251.6	1515.1	1826.9	2371.4	2907.2	3139.9	3210.2
22.5°	592.8	654.3	808.0	1036.4	1348.2	1761.0	2419.7	3161.9	3407.8	3434.1
25°	518.2	562.1	658.7	873.9	1216.4	1717.1	2533.9	3456.1	3772.3	3772.3
27.5°	483.1	500.6	566.5	759.7	1124.2	1677.5	2648.1	3781.1	4075.3	4136.8
30°	474.3	518.2	553.3	676.3	1023.2	1567.8	2753.5	4035.8	4338.8	4343.2
32.5°	465.5	456.7	483.1	588.5	900.3	1453.6	2841.3	4294.9	4532.0	4545.2
35°	364.5	382.1	426.0	518.2	808.0	1370.1	2885.2	4435.4	4777.9	4791.1
37.5°	342.5	364.5	399.6	478.7	746.6	1299.9	2898.4	4707.7	5037.0	5063.4
40°	333.8	351.3	377.7	443.5	698.2	1212.0	2924.7	4988.7	5419.1	5383.9
42.5°	316.2	338.1	364.5	426.0	658.7	1146.2	2929.1	5142.4	5621.1	5621.1
45°	311.8	325.0	355.7	426.0	614.8	1089.1	2858.9	5296.1	5853.8	5783.6
47.5°	294.2	320.6	346.9	412.8	562.1	1032.0	2775.4	5375.2	5884.6	5862.6
50°	289.8	316.2	360.1	390.8	531.4	1005.6	2757.8	5572.8	5946.1	5941.7
52.5°	281.1	307.4	373.3	373.3	491.8	970.5	2841.3	5660.6	5959.2	5994.4
55°	267.9	307.4	346.9	342.5	456.7	926.6	2933.5	5889.0	6192.0	6183.2
57.5°	259.1	298.6	329.4	311.8	417.2	895.9	3069.6	6108.5	6473.0	6411.6
60°	245.9	298.6	294.2	289.8	386.4	869.5	3183.8	6152.5	6534.5	6574.0
62.5°	237.1	311.8	259.1	267.9	360.1	856.3	3135.5	5823.1	6451.1	6486.2
65°	228.4	267.9	237.1	245.9	351.3	830.0	2946.7	5427.9	6091.0	6244.7
67.5°	210.8	219.6	219.6	228.4	342.5	768.5	2560.2	4716.4	5542.0	5625.5
70°	193.2	197.6	197.6	210.8	333.8	698.2	2112.3	4079.7	4808.7	4966.8
72.5°	175.7	175.7	175.7	193.2	307.4	641.2	1739.0	3135.5	3996.2	4106.0
75°	153.7	153.7	153.7	171.3	276.7	584.1	1370.1	2331.9	2942.3	3100.4
77.5°	136.1	136.1	131.7	153.7	241.5	474.3	988.1	1646.8	2072.8	2204.5
80°	114.2	109.8	109.8	123.0	188.8	342.5	636.8	1163.7	1444.8	1501.9
82.5°	92.2	87.8	83.4	92.2	136.1	215.2	395.2	812.4	926.6	891.5
85°	87.8	92.2	74.7	70.3	96.6	140.5	250.3	500.6	417.2	417.2
87.5°	35.1	30.7	30.7	26.3	48.3	52.7	109.8	92.2	70.3	70.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)