

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: P677491

Luminaire Tested: **CCW-SA-2E-835-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677491
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-835-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

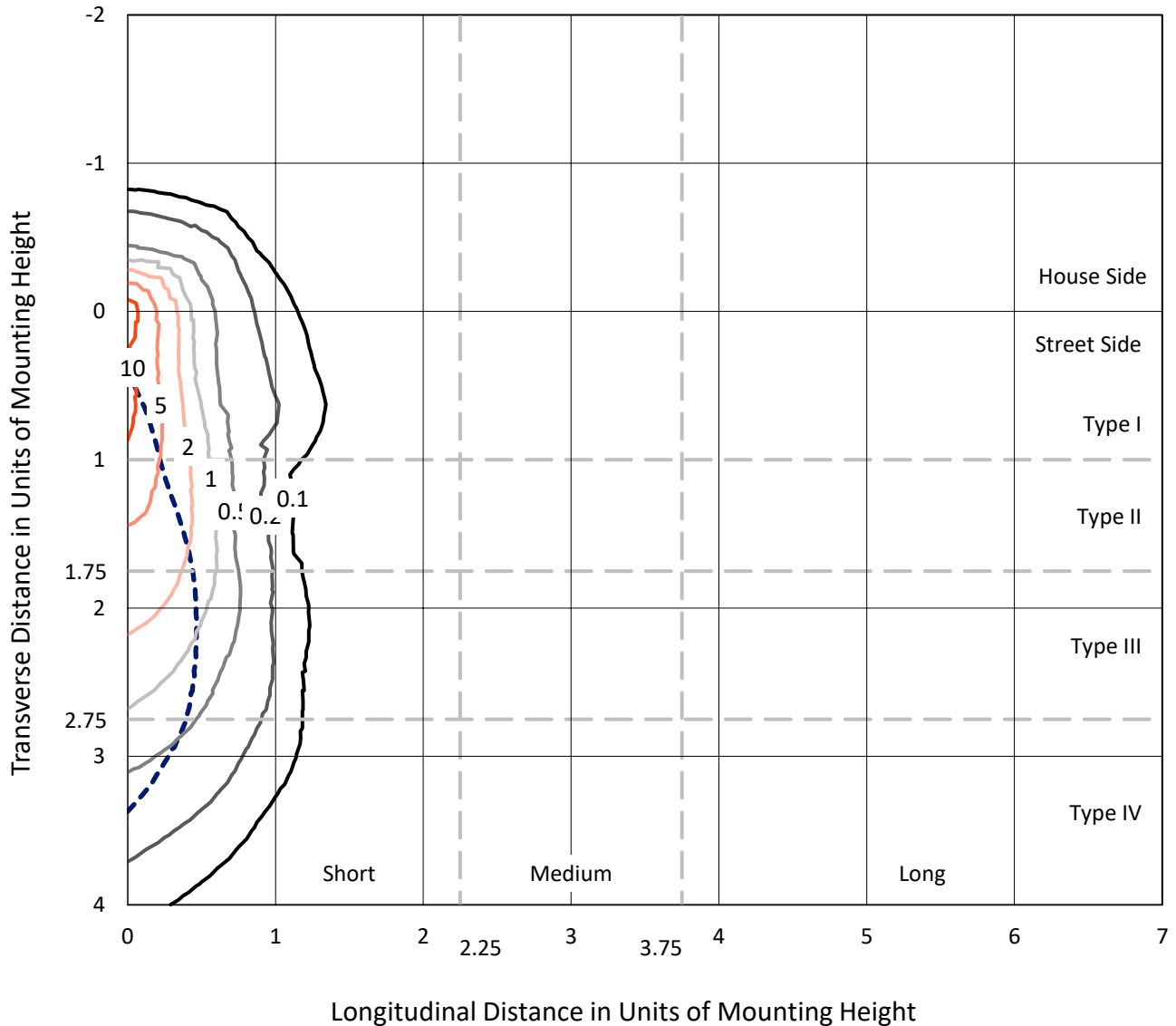
Lumens per Lamp: N/A
Luminaire Lumens: 8096.5 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P677491
 CATALOG NUMBER: CCW-SA-2E-835-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

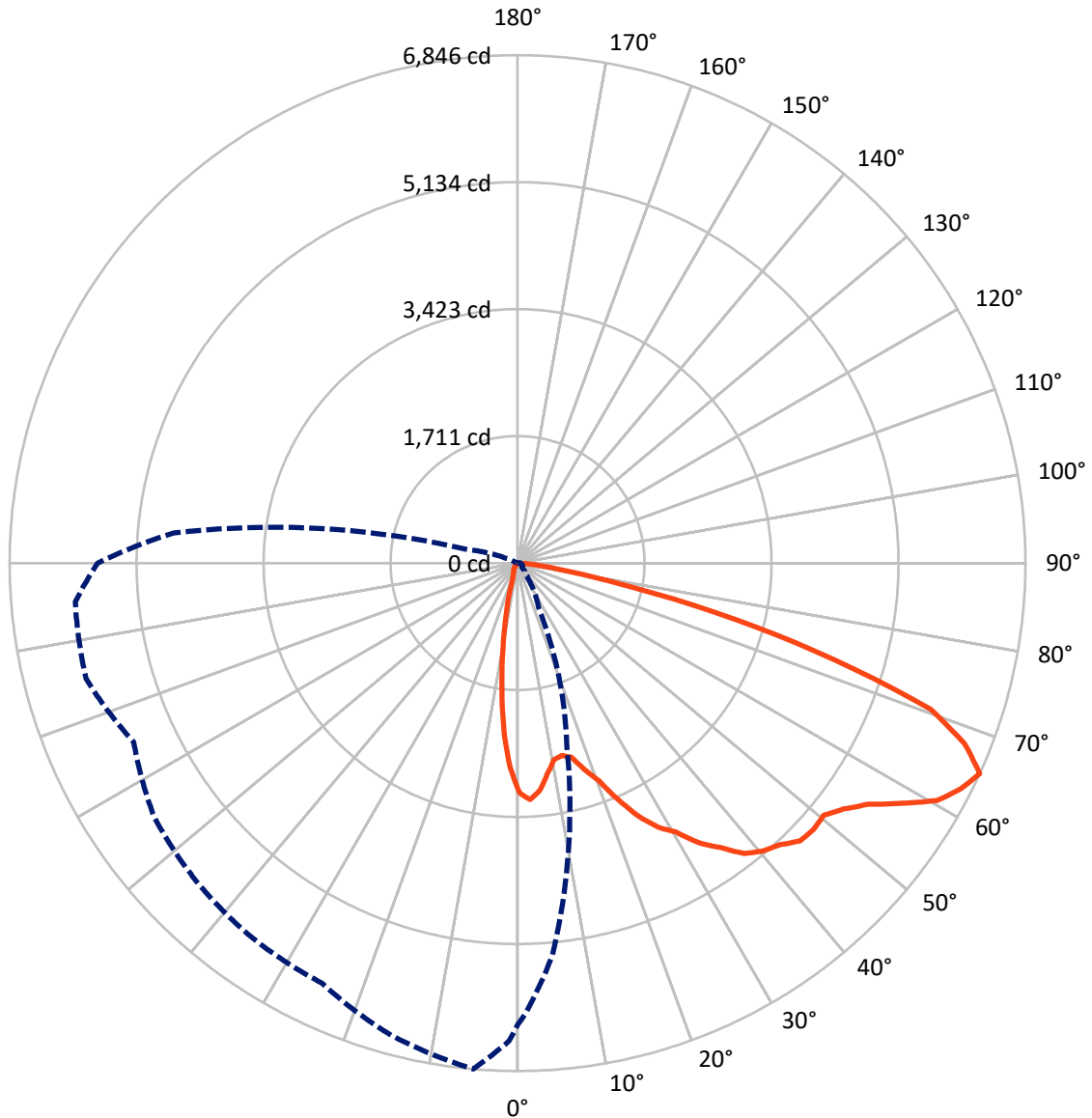
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P677491
CATALOG NUMBER: CCW-SA-2E-835-U-SLR-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P677491

CATALOG NUMBER: CCW-SA-2E-835-U-SLR-HSS

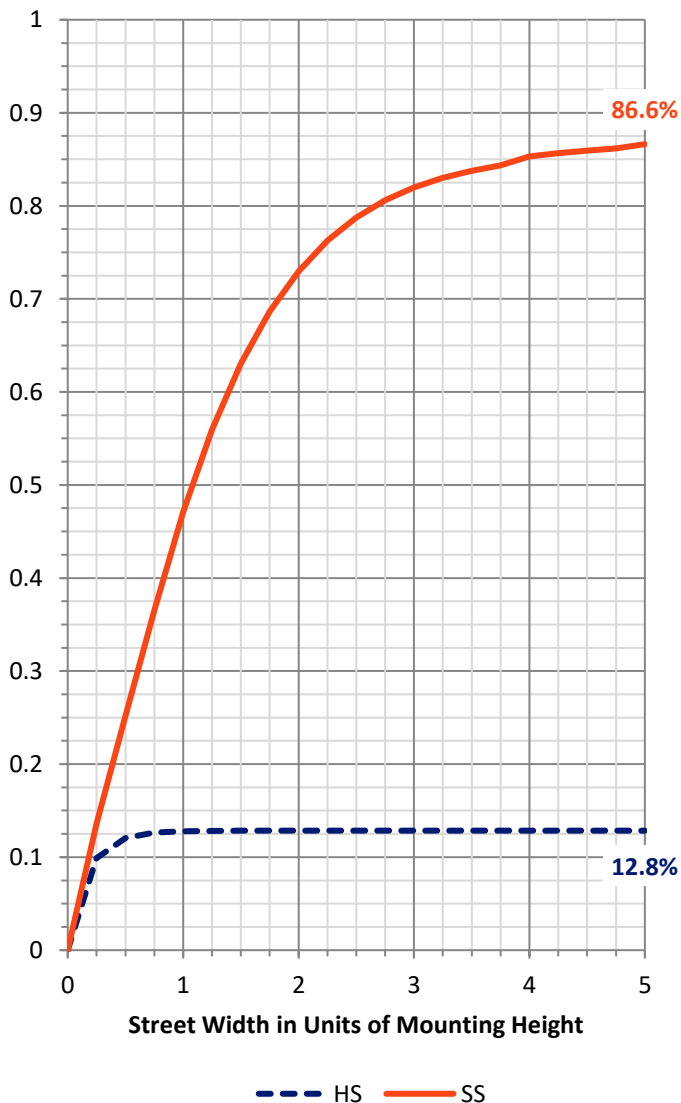
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1051.2	0.0	1051.2
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	7045.3	0.0	7045.3
	% Fixture	87.0	0.0	87.0
Total	Lumens	8096.5	0.0	8096.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.5	2.9
10°-20°	454.0	5.6
20°-30°	632.3	7.8
30°-40°	898.5	11.1
40°-50°	1245.9	15.4
50°-60°	1697.7	21.0
60°-70°	1866.5	23.1
70°-80°	917.3	11.3
80°-90°	149.8	1.9
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°	8096.5	100.0
0°-180°	8096.5	100.0

Coefficient of Utilization



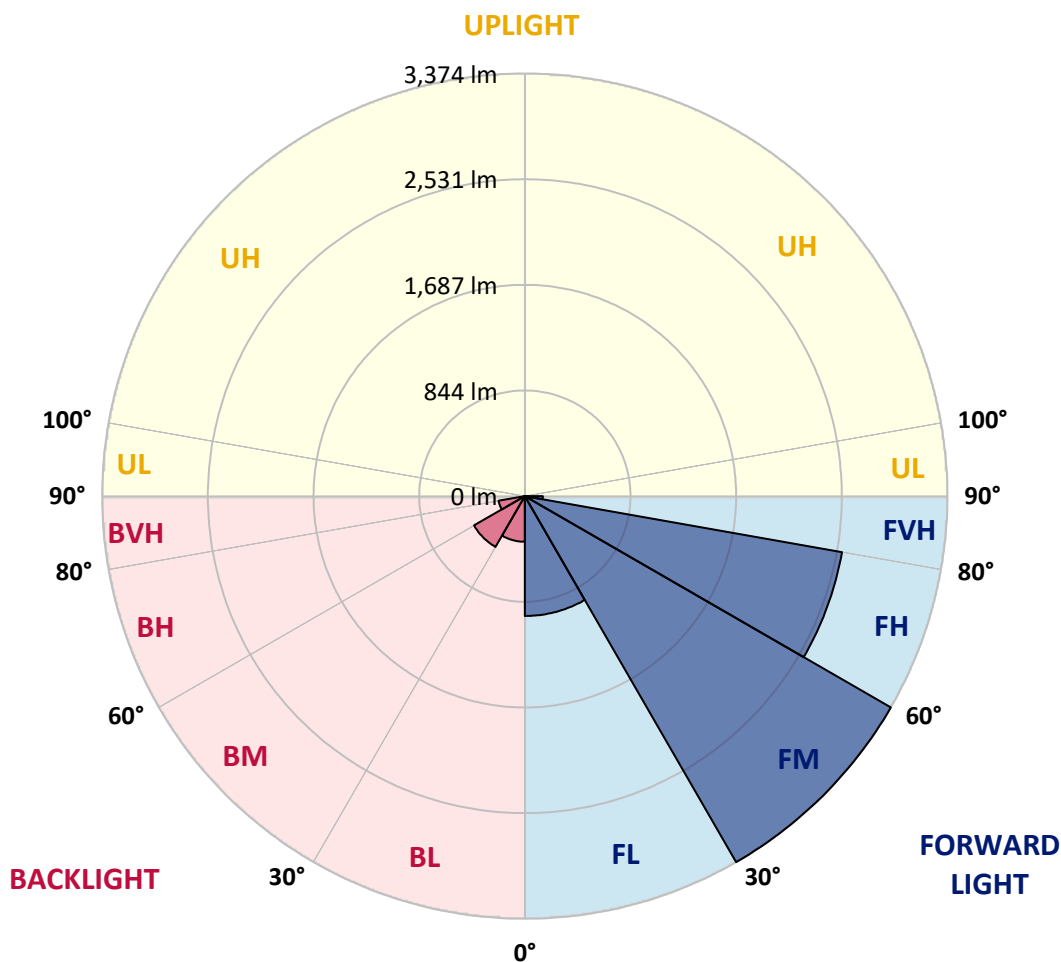
REPORT NUMBER: P677491
 CATALOG NUMBER: CCW-SA-2E-835-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.8	11.8			
FM (30°-60°)	3374.1	41.7			
FH (60°-80°)	2571.3	31.8			G2/5000
FVH (80°-90°)	143.1	1.8			G2/225
BL (0°-30°)	364.0	4.5	B1/500		
BM (30°-60°)	468.0	5.8	B1/1000		
BH (60°-80°)	212.5	2.6	B1/500		G1/500
BVH (80°-90°)	6.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P677491

CATALOG NUMBER: CCW-SA-2E-835-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3
2.5°	3158.6	3195.7	3160.8	3038.5	3016.7	2957.8	2868.3	2861.7	2767.9	2778.8	2728.6
5°	2968.7	3005.8	2931.6	2770.1	2619.4	2499.4	2427.3	2298.6	2270.2	2206.9	2206.9
7.5°	2774.4	2772.2	2645.6	2510.3	2285.5	2065.0	1964.6	1779.0	1669.9	1611.0	1554.2
10°	2612.9	2578.0	2499.4	2220.0	1975.5	1746.3	1621.9	1499.6	1386.1	1287.9	1189.7
12.5°	2499.4	2521.2	2396.8	2093.4	1776.9	1617.5	1484.3	1355.6	1220.2	1108.9	999.8
15°	2558.3	2523.4	2377.1	2065.0	1744.1	1525.8	1349.0	1191.8	1041.2	895.0	812.0
17.5°	2741.7	2652.2	2479.7	2065.0	1676.4	1386.1	1172.2	986.7	825.1	694.2	591.6
20°	2988.3	2885.7	2700.2	2141.4	1626.2	1283.5	991.0	757.5	589.4	467.1	388.5
22.5°	3241.6	3160.8	2881.4	2171.9	1567.3	1146.0	781.5	547.9	392.9	314.3	275.0
25°	3545.0	3431.5	3125.9	2294.2	1480.0	1012.8	615.6	382.0	292.5	251.0	227.0
27.5°	3787.3	3767.6	3355.1	2368.4	1414.5	903.7	486.8	303.4	242.3	211.7	196.5
30°	4092.9	3985.9	3634.5	2516.8	1340.3	779.3	406.0	272.9	222.7	189.9	179.0
32.5°	4276.2	4226.0	3780.7	2599.8	1257.3	676.7	349.3	240.1	203.0	179.0	168.1
35°	4542.5	4442.1	3990.3	2652.2	1213.7	617.8	314.3	218.3	170.3	146.3	133.2
37.5°	4839.4	4802.3	4241.3	2650.0	1150.4	582.8	290.3	203.0	161.5	135.3	120.1
40°	5142.8	4992.2	4394.1	2711.1	1117.6	556.6	272.9	194.3	152.8	128.8	109.1
42.5°	5369.8	5197.4	4570.9	2689.3	1078.3	510.8	266.3	181.2	146.3	117.9	100.4
45°	5431.0	5369.8	4730.3	2682.7	1050.0	473.7	255.4	179.0	141.9	111.3	93.9
47.5°	5548.8	5507.4	4926.7	2693.7	1028.1	445.3	229.2	183.4	135.3	104.8	89.5
50°	5601.2	5527.0	5086.1	2719.8	977.9	410.4	205.2	192.1	133.2	102.6	85.1
52.5°	5817.3	5751.8	5304.4	2794.1	936.4	364.5	181.2	183.4	137.5	96.0	80.8
55°	6029.1	5954.9	5640.5	2964.3	877.5	327.4	155.0	161.5	131.0	87.3	72.0
57.5°	6319.4	6197.1	5865.4	3034.2	825.1	277.2	137.5	133.2	122.2	78.6	63.3
60°	6363.0	6413.3	5832.6	2990.5	770.6	244.5	120.1	102.6	131.0	69.9	54.6
62.5°	6509.3	6299.7	5679.8	2890.1	731.3	224.8	107.0	85.1	113.5	61.1	45.8
65°	6227.7	6072.7	5321.8	2567.0	681.1	227.0	93.9	69.9	72.0	50.2	37.1
67.5°	5815.1	5692.9	4728.1	2215.6	630.8	222.7	82.9	61.1	54.6	43.7	32.7
70°	5103.5	4839.4	4016.5	1798.7	556.6	207.4	69.9	54.6	45.8	34.9	24.0
72.5°	3713.1	3606.1	2881.4	1390.5	499.9	187.7	65.5	45.8	39.3	26.2	19.6
75°	2499.4	2322.6	1818.3	912.4	401.6	163.7	54.6	41.5	30.6	19.6	15.3
77.5°	1320.6	1248.6	1030.3	434.4	222.7	76.4	30.6	24.0	17.5	15.3	8.7
80°	571.9	508.6	445.3	176.8	78.6	34.9	19.6	13.1	10.9	8.7	4.4
82.5°	292.5	279.4	231.4	76.4	45.8	26.2	10.9	8.7	6.5	4.4	2.2
85°	144.1	148.4	122.2	24.0	26.2	15.3	2.2	2.2	0.0	0.0	0.0
87.5°	10.9	10.9	8.7	4.4	6.5	2.2	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: P677491

CATALOG NUMBER: CCW-SA-2E-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3
2.5°	2708.9	2739.5	2687.1	2719.8	2704.6	2711.1	2717.7	2700.2	2704.6	2765.7	2767.9
5°	2169.8	2228.7	2206.9	2237.4	2289.8	2263.6	2287.6	2283.3	2287.6	2296.4	2335.7
7.5°	1547.7	1530.2	1571.7	1652.4	1746.3	1803.0	1774.7	1759.4	1750.7	1728.8	1755.0
10°	1167.8	1159.1	1148.2	1172.2	1233.3	1296.6	1331.5	1272.6	1239.9	1198.4	1183.1
12.5°	969.2	914.6	884.1	847.0	864.4	921.2	923.4	866.6	814.2	792.4	816.4
15°	764.0	726.9	672.3	619.9	593.7	637.4	600.3	545.7	478.0	469.3	467.1
17.5°	545.7	523.9	484.6	462.8	432.2	421.3	382.0	299.1	251.0	237.9	242.3
20°	371.1	353.6	351.4	331.8	318.7	310.0	246.7	192.1	176.8	179.0	181.2
22.5°	275.0	266.3	255.4	253.2	242.3	231.4	181.2	161.5	150.6	150.6	157.2
25°	224.8	220.5	209.6	205.2	200.8	185.5	152.8	137.5	133.2	128.8	135.3
27.5°	192.1	189.9	183.4	176.8	172.4	157.2	133.2	120.1	115.7	115.7	115.7
30°	172.4	172.4	163.7	150.6	150.6	133.2	113.5	104.8	100.4	100.4	98.2
32.5°	161.5	157.2	146.3	137.5	131.0	113.5	100.4	91.7	85.1	85.1	87.3
35°	131.0	131.0	128.8	122.2	113.5	96.0	85.1	76.4	72.0	69.9	72.0
37.5°	115.7	109.1	100.4	102.6	98.2	82.9	72.0	65.5	58.9	58.9	58.9
40°	104.8	98.2	89.5	82.9	80.8	74.2	63.3	52.4	45.8	43.7	43.7
42.5°	93.9	89.5	76.4	65.5	63.3	63.3	48.0	39.3	32.7	32.7	32.7
45°	87.3	80.8	69.9	56.8	45.8	48.0	39.3	28.4	24.0	21.8	21.8
47.5°	82.9	76.4	61.1	48.0	34.9	34.9	28.4	19.6	15.3	13.1	13.1
50°	76.4	69.9	54.6	39.3	26.2	21.8	17.5	10.9	6.5	4.4	4.4
52.5°	72.0	65.5	48.0	32.7	21.8	15.3	10.9	2.2	0.0	0.0	0.0
55°	65.5	56.8	41.5	26.2	17.5	8.7	2.2	0.0	0.0	0.0	0.0
57.5°	56.8	50.2	32.7	19.6	10.9	2.2	0.0	0.0	0.0	0.0	0.0
60°	48.0	41.5	26.2	15.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	39.3	34.9	19.6	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	32.7	26.2	15.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	28.4	21.8	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	21.8	15.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15.3	10.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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: P677491
 CATALOG NUMBER: CCW-SA-2E-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3
2.5°	2776.6	2842.1	2903.2	2920.7	2968.7	3101.8	3101.8	3165.2	3278.7	3320.1	3328.9
5°	2342.2	2412.1	2425.2	2560.5	2623.8	2759.1	2848.6	3062.6	3191.3	3272.1	3322.3
7.5°	1781.2	1805.2	1855.4	1982.0	2106.5	2270.2	2440.4	2713.3	2940.3	3032.0	3202.3
10°	1224.6	1296.6	1405.8	1519.3	1713.5	1894.7	2115.2	2372.8	2652.2	2765.7	2911.9
12.5°	825.1	925.5	1100.2	1261.7	1440.7	1624.1	1833.6	2178.5	2495.0	2652.2	2798.4
15°	482.4	604.7	755.3	1017.2	1255.1	1460.3	1669.9	2019.1	2403.3	2606.3	2785.3
17.5°	244.5	281.6	406.0	633.0	947.4	1283.5	1595.7	2041.0	2473.2	2722.0	2870.5
20°	183.4	194.3	229.2	336.2	648.3	1060.9	1525.8	2073.7	2667.5	2970.9	3051.6
22.5°	159.3	168.1	183.4	218.3	364.5	812.0	1427.6	2154.5	2931.6	3217.5	3387.8
25°	135.3	144.1	157.2	179.0	233.6	552.3	1307.5	2239.6	3167.3	3527.5	3686.9
27.5°	117.9	124.4	137.5	155.0	189.9	351.4	1100.2	2353.1	3527.5	3903.0	3944.4
30°	100.4	107.0	117.9	137.5	161.5	248.8	807.7	2368.4	3726.1	4066.7	4182.4
32.5°	87.3	89.5	102.6	120.1	135.3	196.5	567.5	2383.7	3872.4	4278.4	4302.4
35°	72.0	76.4	89.5	100.4	117.9	155.0	430.0	2307.3	4062.3	4496.7	4490.2
37.5°	58.9	65.5	74.2	82.9	96.0	131.0	342.7	2165.4	4300.2	4835.0	4629.9
40°	45.8	52.4	61.1	72.0	80.8	117.9	257.6	1951.5	4549.1	5000.9	4782.7
42.5°	32.7	37.1	45.8	56.8	72.0	98.2	185.5	1698.3	4647.3	5195.2	4966.0
45°	24.0	28.4	34.9	48.0	74.2	78.6	128.8	1466.9	4752.1	5280.3	4924.5
47.5°	13.1	17.5	26.2	41.5	65.5	58.9	91.7	1259.5	4872.2	5356.7	4957.3
50°	4.4	6.5	15.3	43.7	52.4	45.8	72.0	1148.2	4990.0	5372.0	5022.8
52.5°	0.0	0.0	8.7	45.8	39.3	34.9	63.3	1104.5	4959.5	5420.1	4981.3
55°	0.0	0.0	2.2	19.6	21.8	26.2	52.4	1102.3	5175.6	5435.3	5208.3
57.5°	0.0	0.0	0.0	6.5	13.1	21.8	45.8	1032.5	5313.1	5815.1	5513.9
60°	0.0	0.0	0.0	2.2	8.7	15.3	34.9	971.4	5452.8	5985.4	5841.3
62.5°	0.0	0.0	0.0	0.0	2.2	6.5	24.0	877.5	5171.2	5972.3	6157.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	15.3	694.2	4651.7	5660.2	5983.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.7	480.2	4073.2	5267.3	5662.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	290.3	3287.4	4618.9	4802.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.4	2346.6	3667.2	3940.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.2	1451.6	2680.6	3016.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.6	940.8	2030.1	2289.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	502.1	1272.6	1480.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	218.3	772.7	890.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.9	469.3	534.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.0	96.0
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: P677491

CATALOG NUMBER: CCW-SA-2E-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3
2.5°	3333.2	3396.5	3420.5	3383.4	3387.8	3311.4	3300.5	3193.5	3149.9	3158.6
5°	3486.0	3577.7	3627.9	3586.4	3492.6	3346.3	3213.2	3086.6	3008.0	2968.7
7.5°	3451.1	3553.7	3617.0	3656.3	3549.3	3313.6	3110.6	2872.6	2772.2	2774.4
10°	3259.0	3472.9	3601.7	3551.5	3501.3	3265.6	2951.2	2693.7	2604.2	2612.9
12.5°	3104.0	3342.0	3418.4	3457.7	3355.1	3167.3	2955.6	2660.9	2560.5	2499.4
15°	3008.0	3184.8	3189.2	3250.3	3208.8	3208.8	3001.4	2713.3	2626.0	2558.3
17.5°	3008.0	3047.3	3042.9	3064.7	3134.6	3217.5	3117.1	2925.0	2752.6	2741.7
20°	3075.7	2953.4	2925.0	2933.8	2992.7	3239.4	3372.5	3132.4	3023.3	2988.3
22.5°	3232.8	2964.3	2791.9	2761.3	2942.5	3237.2	3536.2	3459.8	3269.9	3241.6
25°	3448.9	2944.7	2757.0	2717.7	2855.2	3315.8	3761.1	3776.4	3603.9	3545.0
27.5°	3654.1	3032.0	2752.6	2743.9	2925.0	3298.3	3916.1	4029.6	3835.3	3787.3
30°	3724.0	3119.3	2833.4	2717.7	2951.2	3361.6	3911.7	4208.6	4082.0	4092.9
32.5°	3806.9	3206.6	2842.1	2796.2	3062.6	3464.2	4036.1	4496.7	4405.0	4276.2
35°	3929.2	3324.5	2925.0	2883.6	3141.1	3555.9	4062.3	4708.4	4693.2	4542.5
37.5°	4033.9	3440.2	3097.5	3104.0	3381.3	3704.3	4178.0	4968.2	4942.0	4839.4
40°	4108.1	3601.7	3366.0	3383.4	3590.8	3870.2	4383.2	5099.2	5293.4	5142.8
42.5°	4119.1	3745.8	3673.8	3813.5	4007.7	4127.8	4466.1	5188.7	5468.1	5369.8
45°	4160.5	3975.0	4175.8	4278.4	4437.8	4354.8	4461.8	5341.5	5481.2	5431.0
47.5°	4322.1	4391.9	4645.1	4957.3	5014.0	4741.2	4566.6	5365.5	5555.4	5548.8
50°	4490.2	4839.4	5195.2	5402.6	5474.6	5007.5	4664.8	5345.8	5653.6	5601.2
52.5°	4677.9	5228.0	5740.9	5996.3	5957.0	5302.2	4776.1	5505.2	5834.8	5817.3
55°	4795.8	5402.6	6092.4	6448.2	6417.6	5631.8	5129.7	5734.4	6072.7	6029.1
57.5°	5107.9	5686.4	6441.6	6607.5	6688.3	6064.0	5376.4	6109.8	6271.4	6319.4
60°	5365.5	5871.9	6533.3	6773.4	6801.8	6321.6	5808.6	6496.2	6524.6	6363.0
62.5°	5743.1	5943.9	6339.0	6555.1	6701.4	6467.8	6197.1	6703.6	6520.2	6509.3
65°	6020.3	5708.2	5976.7	6096.7	6190.6	6245.2	6587.9	6845.5	6439.4	6227.7
67.5°	5865.4	5262.9	5212.7	5219.2	5247.6	5577.2	6456.9	6498.4	5989.8	5815.1
70°	5162.5	4317.7	4250.0	4302.4	4160.5	4557.8	5926.5	5906.8	5284.7	5103.5
72.5°	4175.8	3147.7	3032.0	3104.0	3136.8	3558.1	4985.7	4479.2	3854.9	3713.1
75°	3318.0	2307.3	1947.1	2121.7	2233.1	2591.1	3894.2	3042.9	2691.5	2499.4
77.5°	2606.3	1746.3	1514.9	1445.1	1547.7	1883.8	2833.4	1597.9	1410.1	1320.6
80°	1652.4	1283.5	1392.7	1292.3	1335.9	1344.6	1475.6	726.9	578.5	571.9
82.5°	995.4	877.5	1043.4	574.1	1045.6	934.3	613.4	329.6	292.5	292.5
85°	705.1	543.5	360.2	233.6	464.9	513.0	237.9	170.3	148.4	144.1
87.5°	353.6	168.1	80.8	52.4	58.9	96.0	28.4	13.1	13.1	10.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)