

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: P677424

Luminaire Tested: **CCW-SA-2D-735-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677424  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-735-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SLR distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

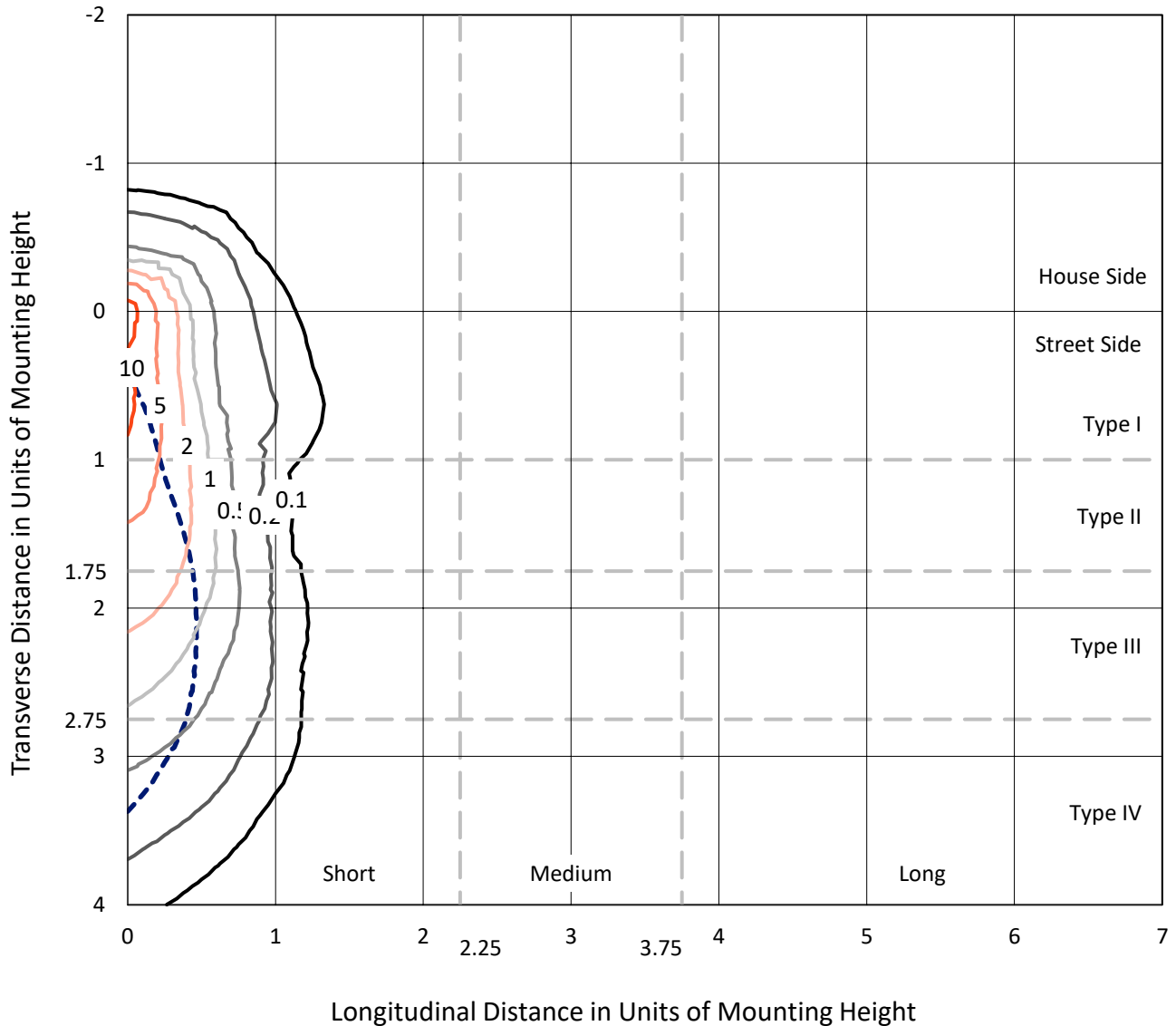
Lumens per Lamp: N/A  
Luminaire Lumens: 7904.9 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
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: P677424  
 CATALOG NUMBER: CCW-SA-2D-735-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

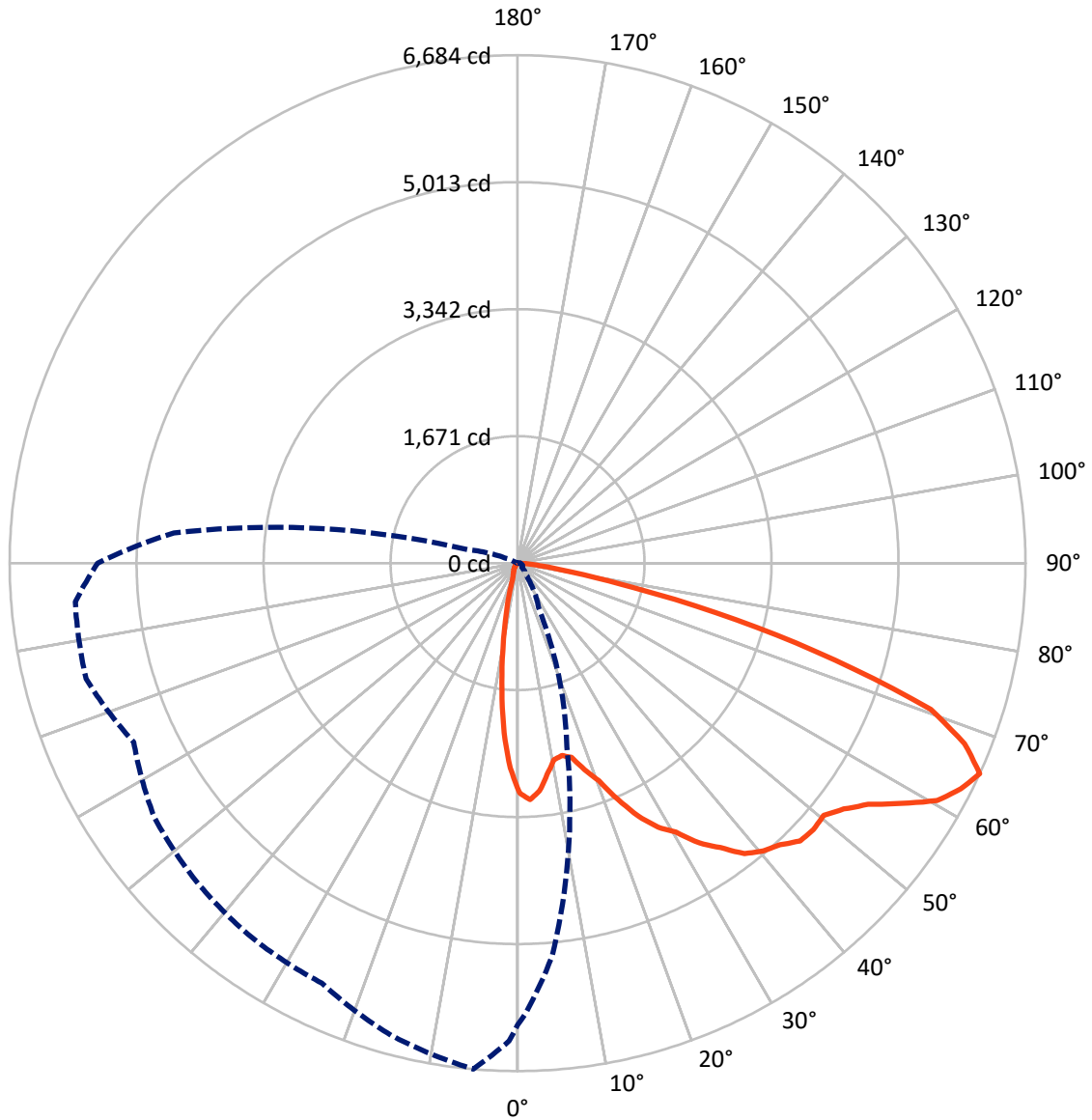
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P677424  
CATALOG NUMBER: CCW-SA-2D-735-U-SLR-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P677424  
 CATALOG NUMBER: CCW-SA-2D-735-U-SLR-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1026.4	0.0	1026.4
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	6878.6	0.0	6878.6
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	7904.9	0.0	7904.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.9	2.9
10°-20°	443.3	5.6
20°-30°	617.4	7.8
30°-40°	877.2	11.1
40°-50°	1216.5	15.4
50°-60°	1657.5	21.0
60°-70°	1822.3	23.1
70°-80°	895.6	11.3
80°-90°	146.3	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°	7904.9	100.0
0°-180°	7904.9	100.0



REPORT NUMBER: P677424

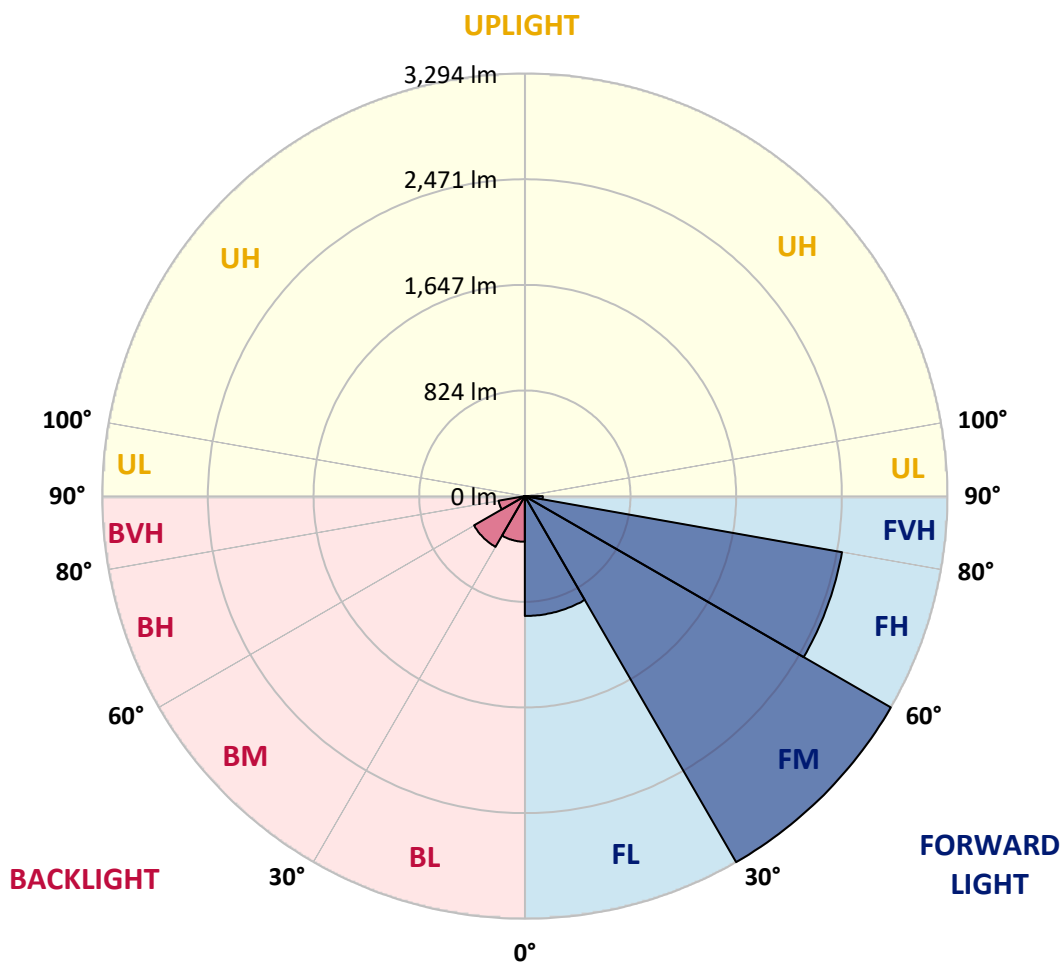
CATALOG NUMBER: CCW-SA-2D-735-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	934.2	11.8			
FM (30°-60°)	3294.2	41.7			
FH (60°-80°)	2510.5	31.8			G2/5000
FVH (80°-90°)	139.7	1.8			G2/225
BL (0°-30°)	355.4	4.5	B1/500		
BM (30°-60°)	457.0	5.8	B1/1000		
BH (60°-80°)	207.4	2.6	B1/500		G1/500
BVH (80°-90°)	6.6	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: P677424

CATALOG NUMBER: CCW-SA-2D-735-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1
2.5°	3083.9	3120.1	3086.0	2966.6	2945.3	2887.8	2800.4	2794.0	2702.4	2713.0	2664.0
5°	2898.4	2934.7	2862.2	2704.5	2557.5	2440.2	2369.9	2244.2	2216.5	2154.7	2154.7
7.5°	2708.8	2706.6	2583.0	2450.9	2231.4	2016.1	1918.1	1736.9	1630.4	1572.8	1517.4
10°	2551.1	2517.0	2440.2	2167.4	1928.7	1705.0	1583.5	1464.1	1353.3	1257.4	1161.5
12.5°	2440.2	2461.5	2340.1	2043.8	1734.8	1579.2	1449.2	1323.5	1191.3	1082.7	976.1
15°	2497.8	2463.7	2320.9	2016.1	1702.8	1489.7	1317.1	1163.6	1016.6	873.8	792.8
17.5°	2676.8	2589.4	2421.1	2016.1	1636.8	1353.3	1144.5	963.3	805.6	677.7	577.6
20°	2917.6	2817.5	2636.3	2090.7	1587.8	1253.2	967.6	739.5	575.4	456.1	379.4
22.5°	3164.8	3086.0	2813.2	2120.6	1530.2	1118.9	763.0	534.9	383.6	306.9	268.5
25°	3461.1	3350.3	3051.9	2239.9	1445.0	988.9	601.0	373.0	285.6	245.1	221.6
27.5°	3697.6	3678.5	3275.7	2312.4	1381.0	882.3	475.3	296.2	236.6	206.7	191.8
30°	3996.0	3891.6	3548.5	2457.3	1308.6	760.8	396.4	266.4	217.4	185.4	174.8
32.5°	4175.0	4126.0	3691.3	2538.3	1227.6	660.7	341.0	234.4	198.2	174.8	164.1
35°	4435.0	4337.0	3895.8	2589.4	1185.0	603.1	306.9	213.1	166.2	142.8	130.0
37.5°	4724.9	4688.7	4140.9	2587.3	1123.1	569.0	283.5	198.2	157.7	132.1	117.2
40°	5021.1	4874.1	4290.1	2647.0	1091.2	543.5	266.4	189.7	149.2	125.7	106.6
42.5°	5242.8	5074.4	4462.8	2625.6	1052.8	498.7	260.0	176.9	142.8	115.1	98.0
45°	5302.4	5242.8	4618.3	2619.3	1025.1	462.5	249.4	174.8	138.5	108.7	91.6
47.5°	5417.5	5377.0	4810.1	2629.9	1003.8	434.8	223.8	179.0	132.1	102.3	87.4
50°	5468.7	5396.2	4965.7	2655.5	954.8	400.7	200.3	187.5	130.0	100.2	83.1
52.5°	5679.7	5615.7	5178.8	2727.9	914.3	355.9	176.9	179.0	134.3	93.8	78.9
55°	5886.4	5813.9	5507.0	2894.2	856.7	319.7	151.3	157.7	127.9	85.2	70.3
57.5°	6169.8	6050.5	5726.6	2962.4	805.6	270.7	134.3	130.0	119.3	76.7	61.8
60°	6212.5	6261.5	5694.6	2919.8	752.3	238.7	117.2	100.2	127.9	68.2	53.3
62.5°	6355.3	6150.7	5545.4	2821.7	714.0	219.5	104.4	83.1	110.8	59.7	44.8
65°	6080.3	5929.0	5195.9	2506.3	664.9	221.6	91.6	68.2	70.3	49.0	36.2
67.5°	5677.5	5558.2	4616.2	2163.2	615.9	217.4	81.0	59.7	53.3	42.6	32.0
70°	4982.8	4724.9	3921.4	1756.1	543.5	202.5	68.2	53.3	44.8	34.1	23.4
72.5°	3625.2	3520.8	2813.2	1357.6	488.0	183.3	63.9	44.8	38.4	25.6	19.2
75°	2440.2	2267.6	1775.3	890.8	392.1	159.8	53.3	40.5	29.8	19.2	14.9
77.5°	1289.4	1219.1	1005.9	424.1	217.4	74.6	29.8	23.4	17.0	14.9	8.5
80°	558.4	496.6	434.8	172.6	76.7	34.1	19.2	12.8	10.7	8.5	4.3
82.5°	285.6	272.8	225.9	74.6	44.8	25.6	10.7	8.5	6.4	4.3	2.1
85°	140.7	144.9	119.3	23.4	25.6	14.9	2.1	2.1	0.0	0.0	0.0
87.5°	10.7	10.7	8.5	4.3	6.4	2.1	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: P677424  
 CATALOG NUMBER: CCW-SA-2D-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1
2.5°	2644.8	2674.7	2623.5	2655.5	2640.6	2647.0	2653.4	2636.3	2640.6	2700.2	2702.4
5°	2118.4	2176.0	2154.7	2184.5	2235.6	2210.1	2233.5	2229.2	2233.5	2242.0	2280.4
7.5°	1511.0	1494.0	1534.5	1613.3	1705.0	1760.4	1732.7	1717.8	1709.2	1687.9	1713.5
10°	1140.2	1131.7	1121.0	1144.5	1204.1	1265.9	1300.0	1242.5	1210.5	1170.0	1155.1
12.5°	946.3	893.0	863.1	826.9	844.0	899.4	901.5	846.1	794.9	773.6	797.1
15°	745.9	709.7	656.4	605.3	579.7	622.3	586.1	532.8	466.7	458.2	456.1
17.5°	532.8	511.5	473.1	451.8	422.0	411.3	373.0	292.0	245.1	232.3	236.6
20°	362.3	345.3	343.1	323.9	311.2	302.6	240.8	187.5	172.6	174.8	176.9
22.5°	268.5	260.0	249.4	247.2	236.6	225.9	176.9	157.7	147.1	147.1	153.4
25°	219.5	215.3	204.6	200.3	196.1	181.2	149.2	134.3	130.0	125.7	132.1
27.5°	187.5	185.4	179.0	172.6	168.4	153.4	130.0	117.2	113.0	113.0	113.0
30°	168.4	168.4	159.8	147.1	147.1	130.0	110.8	102.3	98.0	98.0	95.9
32.5°	157.7	153.4	142.8	134.3	127.9	110.8	98.0	89.5	83.1	83.1	85.2
35°	127.9	127.9	125.7	119.3	110.8	93.8	83.1	74.6	70.3	68.2	70.3
37.5°	113.0	106.6	98.0	100.2	95.9	81.0	70.3	63.9	57.5	57.5	57.5
40°	102.3	95.9	87.4	81.0	78.9	72.5	61.8	51.1	44.8	42.6	42.6
42.5°	91.6	87.4	74.6	63.9	61.8	61.8	46.9	38.4	32.0	32.0	32.0
45°	85.2	78.9	68.2	55.4	44.8	46.9	38.4	27.7	23.4	21.3	21.3
47.5°	81.0	74.6	59.7	46.9	34.1	34.1	27.7	19.2	14.9	12.8	12.8
50°	74.6	68.2	53.3	38.4	25.6	21.3	17.0	10.7	6.4	4.3	4.3
52.5°	70.3	63.9	46.9	32.0	21.3	14.9	10.7	2.1	0.0	0.0	0.0
55°	63.9	55.4	40.5	25.6	17.0	8.5	2.1	0.0	0.0	0.0	0.0
57.5°	55.4	49.0	32.0	19.2	10.7	2.1	0.0	0.0	0.0	0.0	0.0
60°	46.9	40.5	25.6	14.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	38.4	34.1	19.2	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	32.0	25.6	14.9	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	27.7	21.3	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	21.3	14.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14.9	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.7	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.1	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: P677424  
 CATALOG NUMBER: CCW-SA-2D-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1
2.5°	2710.9	2774.8	2834.5	2851.6	2898.4	3028.4	3028.4	3090.3	3201.1	3241.6	3250.1
5°	2286.8	2355.0	2367.8	2499.9	2561.7	2693.8	2781.2	2990.1	3115.8	3194.7	3243.7
7.5°	1739.1	1762.5	1811.5	1935.1	2056.6	2216.5	2382.7	2649.1	2870.7	2960.2	3126.5
10°	1195.6	1265.9	1372.5	1483.3	1673.0	1849.9	2065.1	2316.6	2589.4	2700.2	2843.0
12.5°	805.6	903.6	1074.1	1231.8	1406.6	1585.6	1790.2	2126.9	2436.0	2589.4	2732.2
15°	471.0	590.3	737.4	993.1	1225.4	1425.8	1630.4	1971.4	2346.5	2544.7	2719.4
17.5°	238.7	274.9	396.4	618.1	924.9	1253.2	1557.9	1992.7	2414.7	2657.6	2802.5
20°	179.0	189.7	223.8	328.2	633.0	1035.8	1489.7	2024.6	2604.3	2900.6	2979.4
22.5°	155.6	164.1	179.0	213.1	355.9	792.8	1393.8	2103.5	2862.2	3141.4	3307.6
25°	132.1	140.7	153.4	174.8	228.0	539.2	1276.6	2186.6	3092.4	3444.0	3599.6
27.5°	115.1	121.5	134.3	151.3	185.4	343.1	1074.1	2297.4	3444.0	3810.6	3851.1
30°	98.0	104.4	115.1	134.3	157.7	243.0	788.5	2312.4	3638.0	3970.4	4083.4
32.5°	85.2	87.4	100.2	117.2	132.1	191.8	554.1	2327.3	3780.8	4177.2	4200.6
35°	70.3	74.6	87.4	98.0	115.1	151.3	419.8	2252.7	3966.2	4390.3	4383.9
37.5°	57.5	63.9	72.5	81.0	93.8	127.9	334.6	2114.2	4198.5	4720.6	4520.3
40°	44.8	51.1	59.7	70.3	78.9	115.1	251.5	1905.3	4441.4	4882.6	4669.5
42.5°	32.0	36.2	44.8	55.4	70.3	95.9	181.2	1658.1	4537.3	5072.3	4848.5
45°	23.4	27.7	34.1	46.9	72.5	76.7	125.7	1432.2	4639.6	5155.4	4808.0
47.5°	12.8	17.0	25.6	40.5	63.9	57.5	89.5	1229.7	4756.9	5230.0	4840.0
50°	4.3	6.4	14.9	42.6	51.1	44.8	70.3	1121.0	4871.9	5244.9	4903.9
52.5°	0.0	0.0	8.5	44.8	38.4	34.1	61.8	1078.4	4842.1	5291.8	4863.4
55°	0.0	0.0	2.1	19.2	21.3	25.6	51.1	1076.3	5053.1	5306.7	5085.1
57.5°	0.0	0.0	0.0	6.4	12.8	21.3	44.8	1008.1	5187.4	5677.5	5383.4
60°	0.0	0.0	0.0	2.1	8.5	14.9	34.1	948.4	5323.8	5843.8	5703.1
62.5°	0.0	0.0	0.0	0.0	2.1	6.4	23.4	856.7	5048.8	5831.0	6012.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	14.9	677.7	4541.6	5526.2	5841.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.5	468.9	3976.8	5142.6	5528.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	283.5	3209.6	4509.6	4688.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	121.5	2291.0	3580.4	3846.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.0	1417.3	2617.1	2945.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	918.6	1982.0	2235.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	490.2	1242.5	1445.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	213.1	754.4	869.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.2	458.2	522.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.3	93.8
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: P677424

CATALOG NUMBER: CCW-SA-2D-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1
2.5°	3254.4	3316.2	3339.6	3303.4	3307.6	3233.0	3222.4	3118.0	3075.3	3083.9
5°	3403.5	3493.1	3542.1	3501.6	3409.9	3267.1	3137.1	3013.5	2936.8	2898.4
7.5°	3369.4	3469.6	3531.4	3569.8	3465.3	3235.2	3037.0	2804.7	2706.6	2708.8
10°	3181.9	3390.8	3516.5	3467.5	3418.5	3188.3	2881.4	2629.9	2542.5	2551.1
12.5°	3030.6	3262.9	3337.5	3375.8	3275.7	3092.4	2885.7	2597.9	2499.9	2440.2
15°	2936.8	3109.4	3113.7	3173.4	3132.9	3132.9	2930.4	2649.1	2563.8	2497.8
17.5°	2936.8	2975.2	2970.9	2992.2	3060.4	3141.4	3043.4	2855.8	2687.5	2676.8
20°	3002.9	2883.5	2855.8	2864.3	2921.9	3162.7	3292.7	3058.3	2951.7	2917.6
22.5°	3156.3	2894.2	2725.8	2696.0	2872.9	3160.6	3452.6	3378.0	3192.6	3164.8
25°	3367.3	2875.0	2691.7	2653.4	2787.6	3237.3	3672.1	3687.0	3518.6	3461.1
27.5°	3567.6	2960.2	2687.5	2678.9	2855.8	3220.3	3823.4	3934.2	3744.5	3697.6
30°	3635.8	3045.5	2766.3	2653.4	2881.4	3282.1	3819.1	4109.0	3985.4	3996.0
32.5°	3716.8	3130.7	2774.8	2730.1	2990.1	3382.2	3940.6	4390.3	4300.8	4175.0
35°	3836.2	3245.8	2855.8	2815.3	3066.8	3471.7	3966.2	4597.0	4582.1	4435.0
37.5°	3938.5	3358.8	3024.2	3030.6	3301.2	3616.7	4079.1	4850.6	4825.1	4724.9
40°	4010.9	3516.5	3286.3	3303.4	3505.8	3778.6	4279.5	4978.5	5168.2	5021.1
42.5°	4021.6	3657.2	3586.8	3723.2	3912.9	4030.1	4360.5	5065.9	5338.7	5242.8
45°	4062.1	3880.9	4077.0	4177.2	4332.7	4251.8	4356.2	5215.1	5351.5	5302.4
47.5°	4219.8	4288.0	4535.2	4840.0	4895.4	4629.0	4458.5	5238.5	5423.9	5417.5
50°	4383.9	4724.9	5072.3	5274.7	5345.1	4889.0	4554.4	5219.3	5519.8	5468.7
52.5°	4567.2	5104.2	5605.1	5854.4	5816.1	5176.7	4663.1	5374.9	5696.7	5679.7
55°	4682.3	5274.7	5948.2	6295.6	6265.8	5498.5	5008.3	5598.7	5929.0	5886.4
57.5°	4987.0	5551.8	6289.2	6451.2	6530.0	5920.5	5249.2	5965.3	6123.0	6169.8
60°	5238.5	5733.0	6378.7	6613.1	6640.8	6172.0	5671.1	6342.5	6370.2	6212.5
62.5°	5607.2	5803.3	6189.0	6400.0	6542.8	6314.8	6050.5	6544.9	6365.9	6355.3
65°	5877.9	5573.1	5835.2	5952.5	6044.1	6097.4	6432.0	6683.5	6287.1	6080.3
67.5°	5726.6	5138.3	5089.3	5095.7	5123.4	5445.2	6304.1	6344.6	5848.0	5677.5
70°	5040.3	4215.5	4149.5	4200.6	4062.1	4450.0	5786.2	5767.0	5159.7	4982.8
72.5°	4077.0	3073.2	2960.2	3030.6	3062.5	3473.9	4867.7	4373.2	3763.7	3625.2
75°	3239.4	2252.7	1901.0	2071.5	2180.2	2529.7	3802.1	2970.9	2627.8	2440.2
77.5°	2544.7	1705.0	1479.1	1410.9	1511.0	1839.2	2766.3	1560.0	1376.8	1289.4
80°	1613.3	1253.2	1359.7	1261.7	1304.3	1312.8	1440.7	709.7	564.8	558.4
82.5°	971.8	856.7	1018.7	560.5	1020.8	912.2	598.9	321.8	285.6	285.6
85°	688.4	530.7	351.6	228.0	453.9	500.8	232.3	166.2	144.9	140.7
87.5°	345.3	164.1	78.9	51.1	57.5	93.8	27.7	12.8	12.8	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)