

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: P677413

Luminaire Tested: **CCW-SA-2D-730-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677413  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-730-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) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

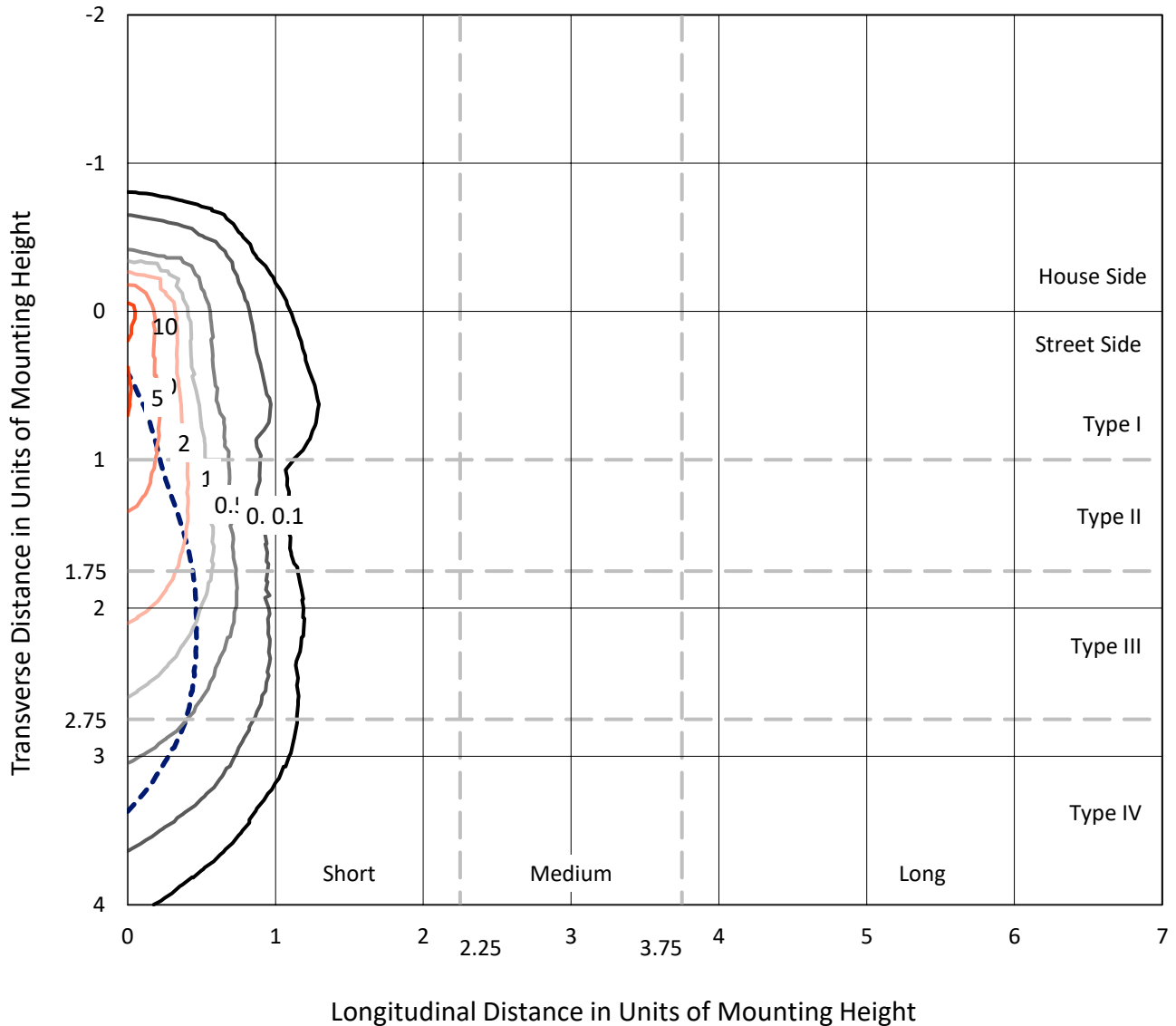
Lumens per Lamp: N/A  
Luminaire Lumens: 7298.2 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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: P677413  
 CATALOG NUMBER: CCW-SA-2D-730-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

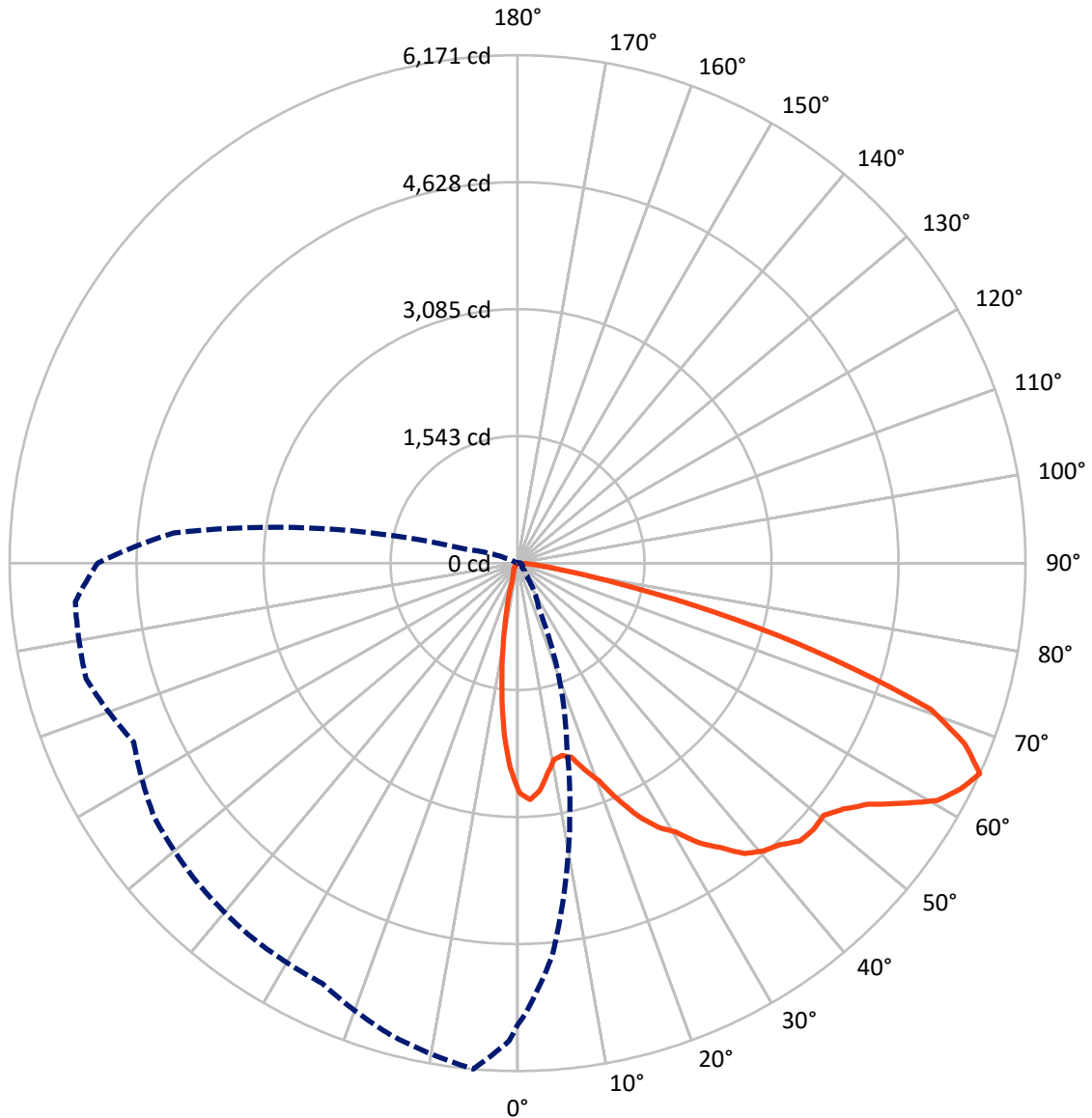
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P677413  
CATALOG NUMBER: CCW-SA-2D-730-U-SLR-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P677413  
 CATALOG NUMBER: CCW-SA-2D-730-U-SLR-HSS

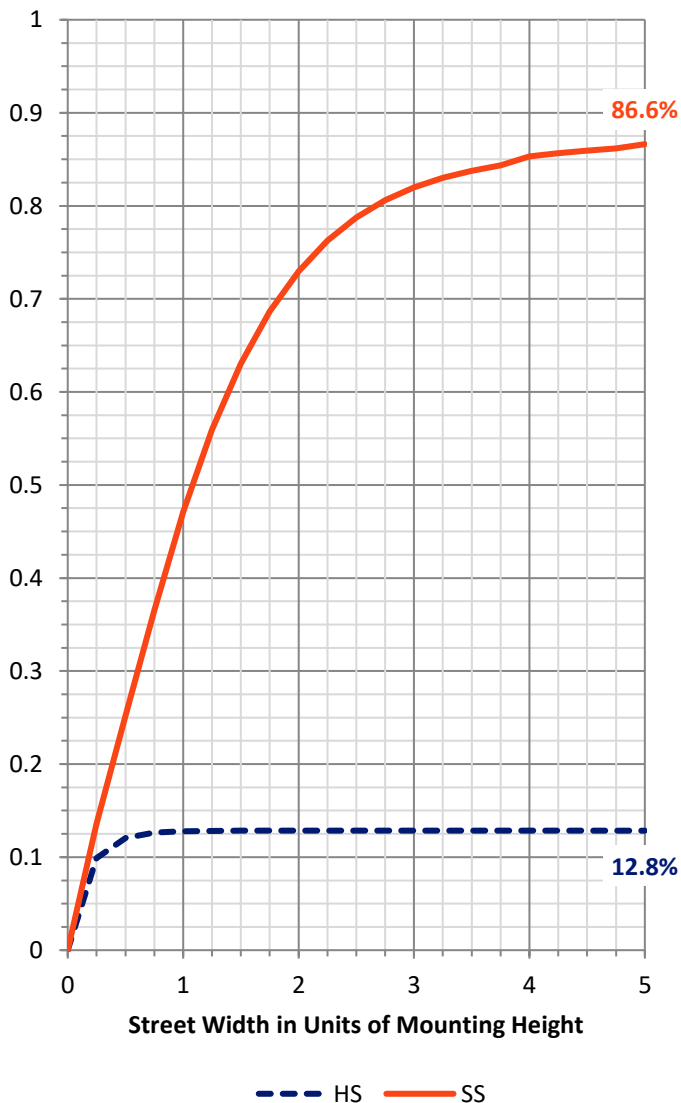
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	947.6	0.0	947.6
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	6350.6	0.0	6350.6
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	7298.2	0.0	7298.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.4	2.9
10°-20°	409.3	5.6
20°-30°	570.0	7.8
30°-40°	809.9	11.1
40°-50°	1123.1	15.4
50°-60°	1530.3	21.0
60°-70°	1682.4	23.1
70°-80°	826.9	11.3
80°-90°	135.0	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°	7298.2	100.0
0°-180°	7298.2	100.0



REPORT NUMBER: P677413

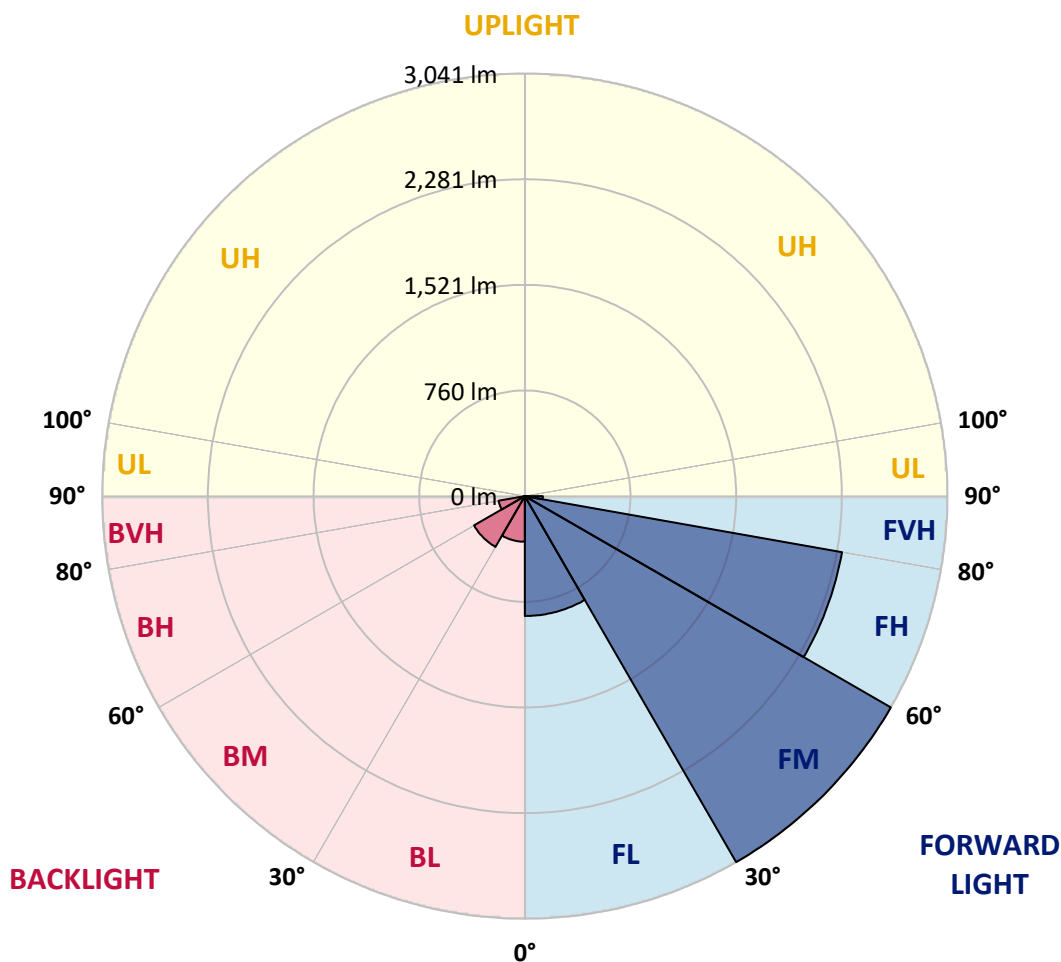
CATALOG NUMBER: CCW-SA-2D-730-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.5	11.8			
FM (30°-60°)	3041.4	41.7			
FH (60°-80°)	2317.8	31.8			G2/5000
FVH (80°-90°)	128.9	1.8			G2/225
BL (0°-30°)	328.1	4.5	B1/500		
BM (30°-60°)	421.9	5.8	B1/1000		
BH (60°-80°)	191.5	2.6	B1/500		G1/500
BVH (80°-90°)	6.1	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: P677413

CATALOG NUMBER: CCW-SA-2D-730-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1
2.5°	2847.2	2880.6	2849.1	2738.9	2719.3	2666.1	2585.5	2579.6	2495.0	2504.8	2459.5
5°	2676.0	2709.4	2642.5	2496.9	2361.2	2252.9	2188.0	2071.9	2046.3	1989.3	1989.3
7.5°	2500.9	2498.9	2384.8	2262.8	2060.1	1861.4	1770.9	1603.6	1505.2	1452.1	1401.0
10°	2355.3	2323.8	2252.9	2001.1	1780.7	1574.1	1462.0	1351.8	1249.4	1160.9	1072.4
12.5°	2252.9	2272.6	2160.5	1887.0	1601.7	1458.0	1338.0	1221.9	1099.9	999.6	901.2
15°	2306.1	2274.6	2142.8	1861.4	1572.1	1375.4	1216.0	1074.3	938.6	806.7	732.0
17.5°	2471.3	2390.7	2235.2	1861.4	1511.1	1249.4	1056.6	889.4	743.8	625.7	533.2
20°	2693.7	2601.2	2434.0	1930.2	1465.9	1157.0	893.3	682.8	531.3	421.1	350.2
22.5°	2921.9	2849.1	2597.3	1957.8	1412.8	1033.0	704.4	493.9	354.2	283.3	247.9
25°	3195.4	3093.1	2817.7	2068.0	1334.1	913.0	554.9	344.3	263.7	226.3	204.6
27.5°	3413.8	3396.1	3024.3	2134.9	1275.0	814.6	438.8	273.5	218.4	190.9	177.1
30°	3689.3	3592.9	3276.1	2268.7	1208.1	702.4	366.0	246.0	200.7	171.2	161.3
32.5°	3854.6	3809.3	3407.9	2343.5	1133.4	610.0	314.8	216.4	183.0	161.3	151.5
35°	4094.6	4004.1	3596.8	2390.7	1094.0	556.8	283.3	196.8	153.5	131.8	120.0
37.5°	4362.2	4328.8	3823.1	2388.7	1036.9	525.4	261.7	183.0	145.6	122.0	108.2
40°	4635.7	4500.0	3960.8	2443.8	1007.4	501.7	246.0	175.1	137.7	116.1	98.4
42.5°	4840.4	4684.9	4120.2	2424.1	972.0	460.4	240.1	163.3	131.8	106.3	90.5
45°	4895.5	4840.4	4263.9	2418.2	946.4	427.0	230.2	161.3	127.9	100.3	84.6
47.5°	5001.7	4964.3	4441.0	2428.1	926.8	401.4	206.6	165.3	122.0	94.4	80.7
50°	5049.0	4982.1	4584.6	2451.7	881.5	369.9	185.0	173.2	120.0	92.5	76.7
52.5°	5243.7	5184.7	4781.4	2518.6	844.1	328.6	163.3	165.3	124.0	86.6	72.8
55°	5434.6	5367.7	5084.4	2672.0	791.0	295.1	139.7	145.6	118.1	78.7	64.9
57.5°	5696.3	5586.1	5287.0	2735.0	743.8	249.9	124.0	120.0	110.2	70.8	57.1
60°	5735.7	5780.9	5257.5	2695.7	694.6	220.4	108.2	92.5	118.1	63.0	49.2
62.5°	5867.5	5678.6	5119.8	2605.1	659.2	202.7	96.4	76.7	102.3	55.1	41.3
65°	5613.7	5474.0	4797.1	2313.9	613.9	204.6	84.6	63.0	64.9	45.3	33.4
67.5°	5241.8	5131.6	4261.9	1997.1	568.6	200.7	74.8	55.1	49.2	39.4	29.5
70°	4600.3	4362.2	3620.4	1621.3	501.7	186.9	63.0	49.2	41.3	31.5	21.6
72.5°	3346.9	3250.5	2597.3	1253.4	450.6	169.2	59.0	41.3	35.4	23.6	17.7
75°	2252.9	2093.6	1639.0	822.5	362.0	147.6	49.2	37.4	27.5	17.7	13.8
77.5°	1190.4	1125.5	928.7	391.6	200.7	68.9	27.5	21.6	15.7	13.8	7.9
80°	515.5	458.5	401.4	159.4	70.8	31.5	17.7	11.8	9.8	7.9	3.9
82.5°	263.7	251.9	208.6	68.9	41.3	23.6	9.8	7.9	5.9	3.9	2.0
85°	129.9	133.8	110.2	21.6	23.6	13.8	2.0	2.0	0.0	0.0	0.0
87.5°	9.8	9.8	7.9	3.9	5.9	2.0	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: P677413  
 CATALOG NUMBER: CCW-SA-2D-730-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1
2.5°	2441.8	2469.4	2422.2	2451.7	2437.9	2443.8	2449.7	2434.0	2437.9	2493.0	2495.0
5°	1955.8	2009.0	1989.3	2016.8	2064.0	2040.4	2062.1	2058.1	2062.1	2070.0	2105.4
7.5°	1395.1	1379.3	1416.7	1489.5	1574.1	1625.3	1599.7	1585.9	1578.0	1558.4	1582.0
10°	1052.7	1044.8	1035.0	1056.6	1111.7	1168.8	1200.3	1147.1	1117.6	1080.2	1066.5
12.5°	873.6	824.4	796.9	763.4	779.2	830.3	832.3	781.2	733.9	714.3	735.9
15°	688.7	655.2	606.0	558.8	535.2	574.5	541.1	491.9	430.9	423.0	421.1
17.5°	491.9	472.2	436.8	417.1	389.6	379.8	344.3	269.6	226.3	214.5	218.4
20°	334.5	318.8	316.8	299.1	287.3	279.4	222.3	173.2	159.4	161.3	163.3
22.5°	247.9	240.1	230.2	228.2	218.4	208.6	163.3	145.6	135.8	135.8	141.7
25°	202.7	198.7	188.9	185.0	181.0	167.2	137.7	124.0	120.0	116.1	122.0
27.5°	173.2	171.2	165.3	159.4	155.4	141.7	120.0	108.2	104.3	104.3	104.3
30°	155.4	155.4	147.6	135.8	135.8	120.0	102.3	94.4	90.5	90.5	88.5
32.5°	145.6	141.7	131.8	124.0	118.1	102.3	90.5	82.6	76.7	76.7	78.7
35°	118.1	118.1	116.1	110.2	102.3	86.6	76.7	68.9	64.9	63.0	64.9
37.5°	104.3	98.4	90.5	92.5	88.5	74.8	64.9	59.0	53.1	53.1	53.1
40°	94.4	88.5	80.7	74.8	72.8	66.9	57.1	47.2	41.3	39.4	39.4
42.5°	84.6	80.7	68.9	59.0	57.1	57.1	43.3	35.4	29.5	29.5	29.5
45°	78.7	72.8	63.0	51.2	41.3	43.3	35.4	25.6	21.6	19.7	19.7
47.5°	74.8	68.9	55.1	43.3	31.5	31.5	25.6	17.7	13.8	11.8	11.8
50°	68.9	63.0	49.2	35.4	23.6	19.7	15.7	9.8	5.9	3.9	3.9
52.5°	64.9	59.0	43.3	29.5	19.7	13.8	9.8	2.0	0.0	0.0	0.0
55°	59.0	51.2	37.4	23.6	15.7	7.9	2.0	0.0	0.0	0.0	0.0
57.5°	51.2	45.3	29.5	17.7	9.8	2.0	0.0	0.0	0.0	0.0	0.0
60°	43.3	37.4	23.6	13.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	35.4	31.5	17.7	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	29.5	23.6	13.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	25.6	19.7	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	19.7	13.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13.8	9.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.0	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: P677413  
 CATALOG NUMBER: CCW-SA-2D-730-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1
2.5°	2502.8	2561.9	2617.0	2632.7	2676.0	2796.0	2796.0	2853.1	2955.4	2992.8	3000.6
5°	2111.3	2174.2	2186.0	2308.0	2365.1	2487.1	2567.8	2760.6	2876.7	2949.5	2994.7
7.5°	1605.6	1627.2	1672.5	1786.6	1898.8	2046.3	2199.8	2445.8	2650.4	2733.0	2886.5
10°	1103.8	1168.8	1267.2	1369.5	1544.6	1707.9	1906.6	2138.8	2390.7	2493.0	2624.8
12.5°	743.8	834.3	991.7	1137.3	1298.6	1463.9	1652.8	1963.7	2249.0	2390.7	2522.5
15°	434.8	545.0	680.8	916.9	1131.4	1316.3	1505.2	1820.1	2166.4	2349.4	2510.7
17.5°	220.4	253.8	366.0	570.6	854.0	1157.0	1438.3	1839.7	2229.3	2453.6	2587.4
20°	165.3	175.1	206.6	303.0	584.4	956.3	1375.4	1869.3	2404.4	2678.0	2750.8
22.5°	143.6	151.5	165.3	196.8	328.6	732.0	1286.8	1942.1	2642.5	2900.3	3053.8
25°	122.0	129.9	141.7	161.3	210.5	497.8	1178.6	2018.8	2855.0	3179.7	3323.3
27.5°	106.3	112.2	124.0	139.7	171.2	316.8	991.7	2121.1	3179.7	3518.1	3555.5
30°	90.5	96.4	106.3	124.0	145.6	224.3	728.0	2134.9	3358.8	3665.7	3770.0
32.5°	78.7	80.7	92.5	108.2	122.0	177.1	511.6	2148.7	3490.6	3856.6	3878.2
35°	64.9	68.9	80.7	90.5	106.3	139.7	387.6	2079.8	3661.8	4053.3	4047.4
37.5°	53.1	59.0	66.9	74.8	86.6	118.1	308.9	1951.9	3876.2	4358.3	4173.4
40°	41.3	47.2	55.1	64.9	72.8	106.3	232.2	1759.1	4100.6	4507.9	4311.1
42.5°	29.5	33.4	41.3	51.2	64.9	88.5	167.2	1530.8	4189.1	4683.0	4476.4
45°	21.6	25.6	31.5	43.3	66.9	70.8	116.1	1322.3	4283.5	4759.7	4439.0
47.5°	11.8	15.7	23.6	37.4	59.0	53.1	82.6	1135.3	4391.8	4828.6	4468.5
50°	3.9	5.9	13.8	39.4	47.2	41.3	64.9	1035.0	4498.0	4842.3	4527.5
52.5°	0.0	0.0	7.9	41.3	35.4	31.5	57.1	995.6	4470.5	4885.6	4490.1
55°	0.0	0.0	2.0	17.7	19.7	23.6	47.2	993.7	4665.3	4899.4	4694.8
57.5°	0.0	0.0	0.0	5.9	11.8	19.7	41.3	930.7	4789.2	5241.8	4970.2
60°	0.0	0.0	0.0	2.0	7.9	13.8	31.5	875.6	4915.2	5395.3	5265.4
62.5°	0.0	0.0	0.0	0.0	2.0	5.9	21.6	791.0	4661.3	5383.4	5550.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	13.8	625.7	4193.0	5102.1	5393.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.9	432.9	3671.6	4747.9	5104.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	261.7	2963.3	4163.5	4328.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.2	2115.2	3305.6	3551.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.3	1308.5	2416.3	2719.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	848.1	1829.9	2064.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	452.6	1147.1	1334.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	196.8	696.5	802.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	423.0	482.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.9	86.6
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: P677413

CATALOG NUMBER: CCW-SA-2D-730-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1	2790.1
2.5°	3004.6	3061.6	3083.3	3049.8	3053.8	2984.9	2975.1	2878.6	2839.3	2847.2
5°	3142.3	3225.0	3270.2	3232.8	3148.2	3016.4	2896.4	2782.2	2711.4	2676.0
7.5°	3110.8	3203.3	3260.4	3295.8	3199.4	2986.9	2803.9	2589.4	2498.9	2500.9
10°	2937.7	3130.5	3246.6	3201.3	3156.1	2943.6	2660.2	2428.1	2347.4	2355.3
12.5°	2798.0	3012.4	3081.3	3116.7	3024.3	2855.0	2664.2	2398.5	2308.0	2252.9
15°	2711.4	2870.8	2874.7	2929.8	2892.4	2892.4	2705.5	2445.8	2367.1	2306.1
17.5°	2711.4	2746.8	2742.9	2762.6	2825.5	2900.3	2809.8	2636.6	2481.2	2471.3
20°	2772.4	2662.2	2636.6	2644.5	2697.6	2920.0	3040.0	2823.6	2725.2	2693.7
22.5°	2914.1	2672.0	2516.6	2489.1	2652.4	2918.0	3187.6	3118.7	2947.5	2921.9
25°	3108.9	2654.3	2485.1	2449.7	2573.7	2988.8	3390.2	3404.0	3248.6	3195.4
27.5°	3293.8	2733.0	2481.2	2473.3	2636.6	2973.1	3529.9	3632.3	3457.1	3413.8
30°	3356.8	2811.8	2554.0	2449.7	2660.2	3030.2	3526.0	3793.6	3679.5	3689.3
32.5°	3431.6	2890.5	2561.9	2520.5	2760.6	3122.6	3638.2	4053.3	3970.7	3854.6
35°	3541.7	2996.7	2636.6	2599.2	2831.4	3205.3	3661.8	4244.2	4230.4	4094.6
37.5°	3636.2	3101.0	2792.1	2798.0	3047.9	3339.1	3766.1	4478.3	4454.7	4362.2
40°	3703.1	3246.6	3034.1	3049.8	3236.8	3488.6	3951.0	4596.4	4771.5	4635.7
42.5°	3712.9	3376.5	3311.5	3437.5	3612.6	3720.8	4025.8	4677.1	4928.9	4840.4
45°	3750.3	3583.1	3764.1	3856.6	4000.2	3925.4	4021.8	4814.8	4940.7	4895.5
47.5°	3895.9	3958.9	4187.1	4468.5	4519.7	4273.7	4116.3	4836.4	5007.6	5001.7
50°	4047.4	4362.2	4683.0	4869.9	4934.8	4513.8	4204.8	4818.7	5096.2	5049.0
52.5°	4216.6	4712.5	5174.9	5405.1	5369.7	4779.4	4305.2	4962.4	5259.5	5243.7
55°	4322.9	4869.9	5491.7	5812.4	5784.8	5076.5	4623.9	5169.0	5474.0	5434.6
57.5°	4604.3	5125.7	5806.5	5956.0	6028.8	5466.1	4846.3	5507.4	5653.0	5696.3
60°	4836.4	5292.9	5889.1	6105.6	6131.2	5698.3	5235.9	5855.7	5881.3	5735.7
62.5°	5176.8	5357.9	5714.0	5908.8	6040.6	5830.1	5586.1	6042.6	5877.3	5867.5
65°	5426.7	5145.4	5387.4	5495.6	5580.2	5629.4	5938.3	6170.5	5804.5	5613.7
67.5°	5287.0	4744.0	4698.7	4704.6	4730.2	5027.3	5820.3	5857.6	5399.2	5241.8
70°	4653.5	3892.0	3831.0	3878.2	3750.3	4108.4	5342.1	5324.4	4763.6	4600.3
72.5°	3764.1	2837.3	2733.0	2798.0	2827.5	3207.2	4494.1	4037.6	3474.8	3346.9
75°	2990.8	2079.8	1755.1	1912.5	2012.9	2335.6	3510.3	2742.9	2426.1	2252.9
77.5°	2349.4	1574.1	1365.5	1302.6	1395.1	1698.1	2554.0	1440.3	1271.1	1190.4
80°	1489.5	1157.0	1255.4	1164.8	1204.2	1212.1	1330.1	655.2	521.4	515.5
82.5°	897.2	791.0	940.5	517.5	942.5	842.1	552.9	297.1	263.7	263.7
85°	635.5	489.9	324.7	210.5	419.1	462.4	214.5	153.5	133.8	129.9
87.5°	318.8	151.5	72.8	47.2	53.1	86.6	25.6	11.8	11.8	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)