

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: P677403

Luminaire Tested: **CCW-SA-2E-727-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677403
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-727-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) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

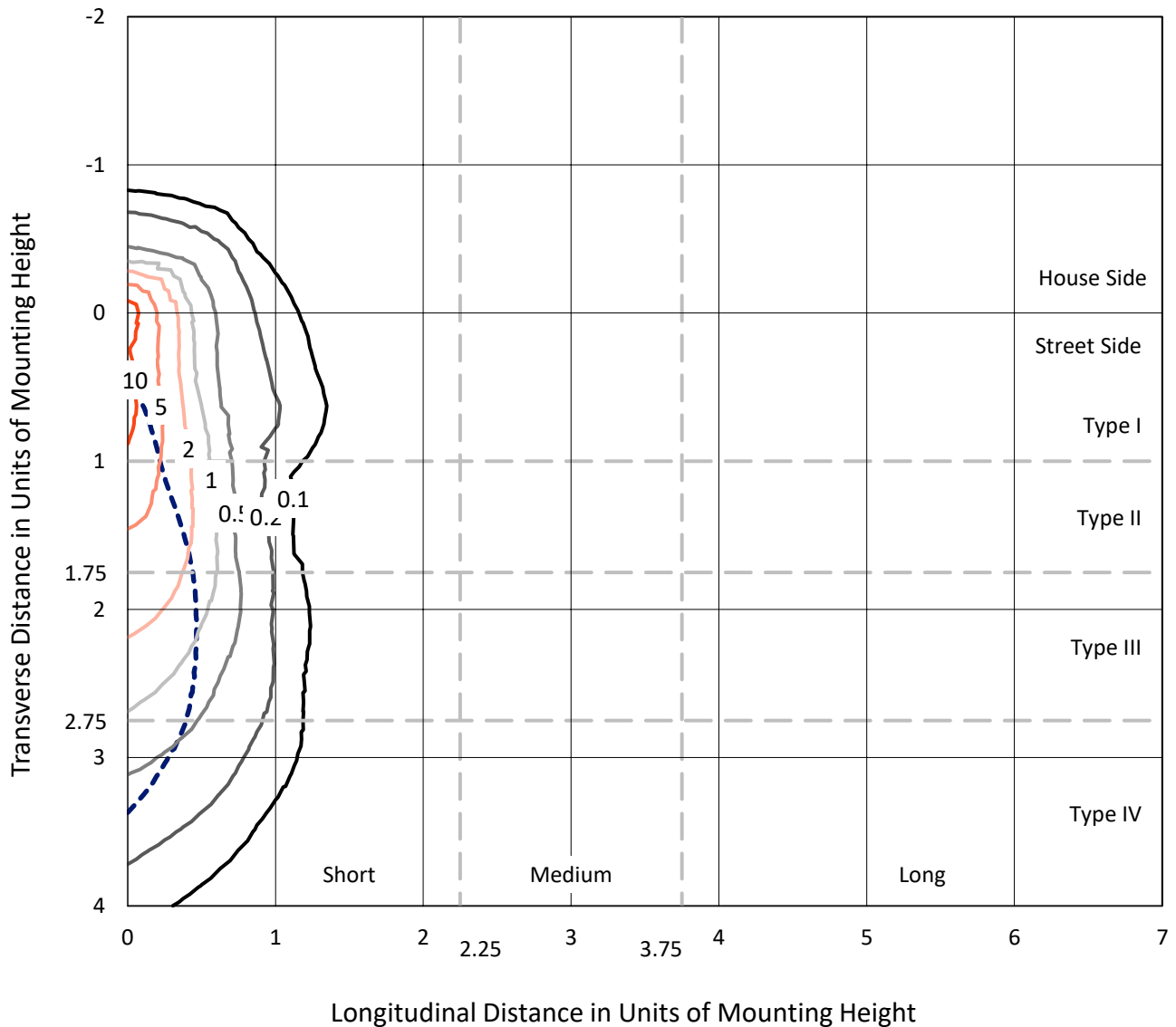
Lumens per Lamp: N/A
Luminaire Lumens: 8217.4 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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: P677403
 CATALOG NUMBER: CCW-SA-2E-727-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

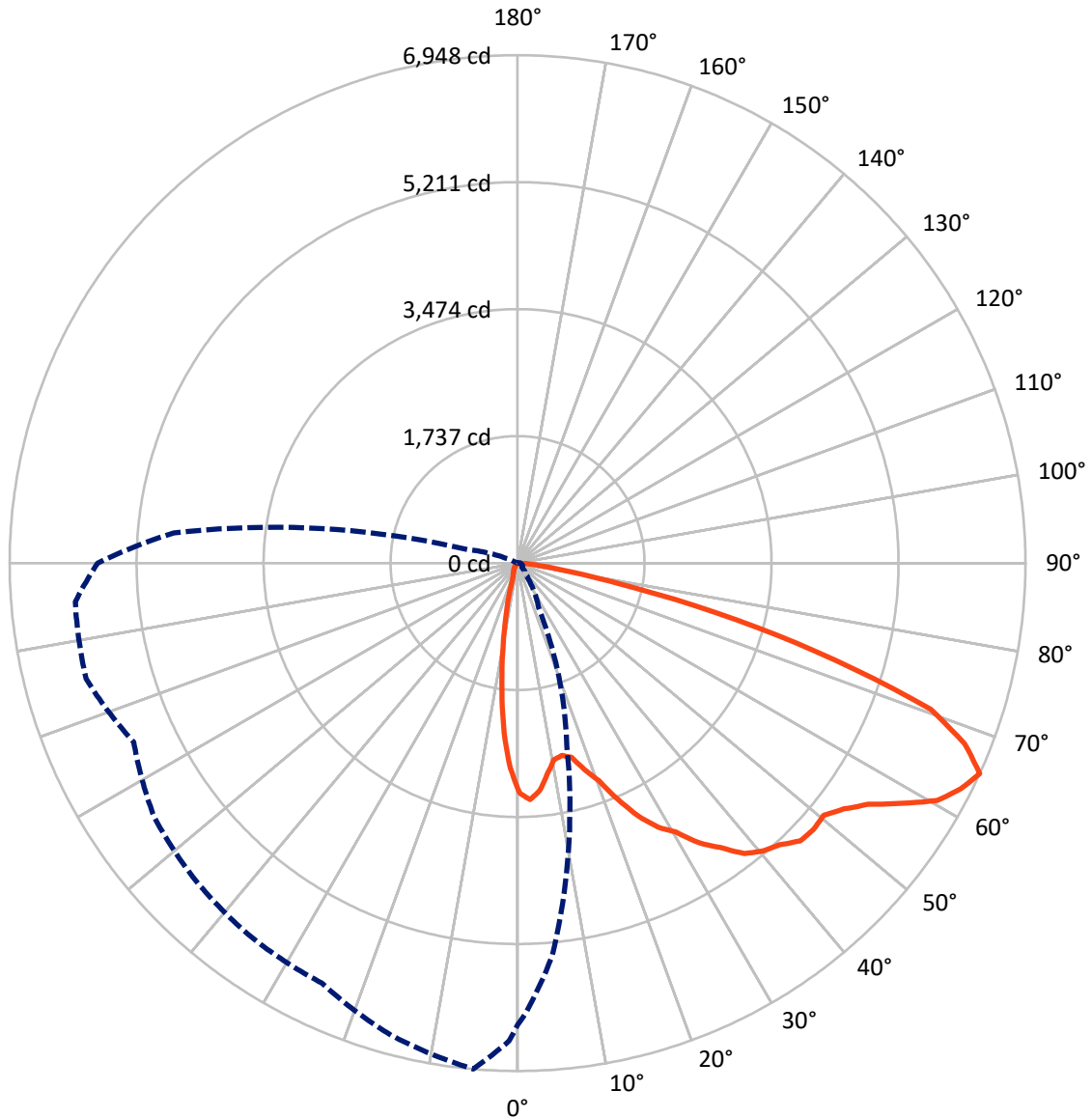
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Short - N/A

REPORT NUMBER: P677403
CATALOG NUMBER: CCW-SA-2E-727-U-SLR-HSS

Luminous Intensity Polar Plot



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



REPORT NUMBER: P677403
 CATALOG NUMBER: CCW-SA-2E-727-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1066.9	0.0	1066.9
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	7150.5	0.0	7150.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	8217.4	0.0	8217.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.0	2.9
10°-20°	460.8	5.6
20°-30°	641.8	7.8
30°-40°	911.9	11.1
40°-50°	1264.5	15.4
50°-60°	1723.0	21.0
60°-70°	1894.3	23.1
70°-80°	931.0	11.3
80°-90°	152.0	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°	8217.4	100.0
0°-180°	8217.4	100.0



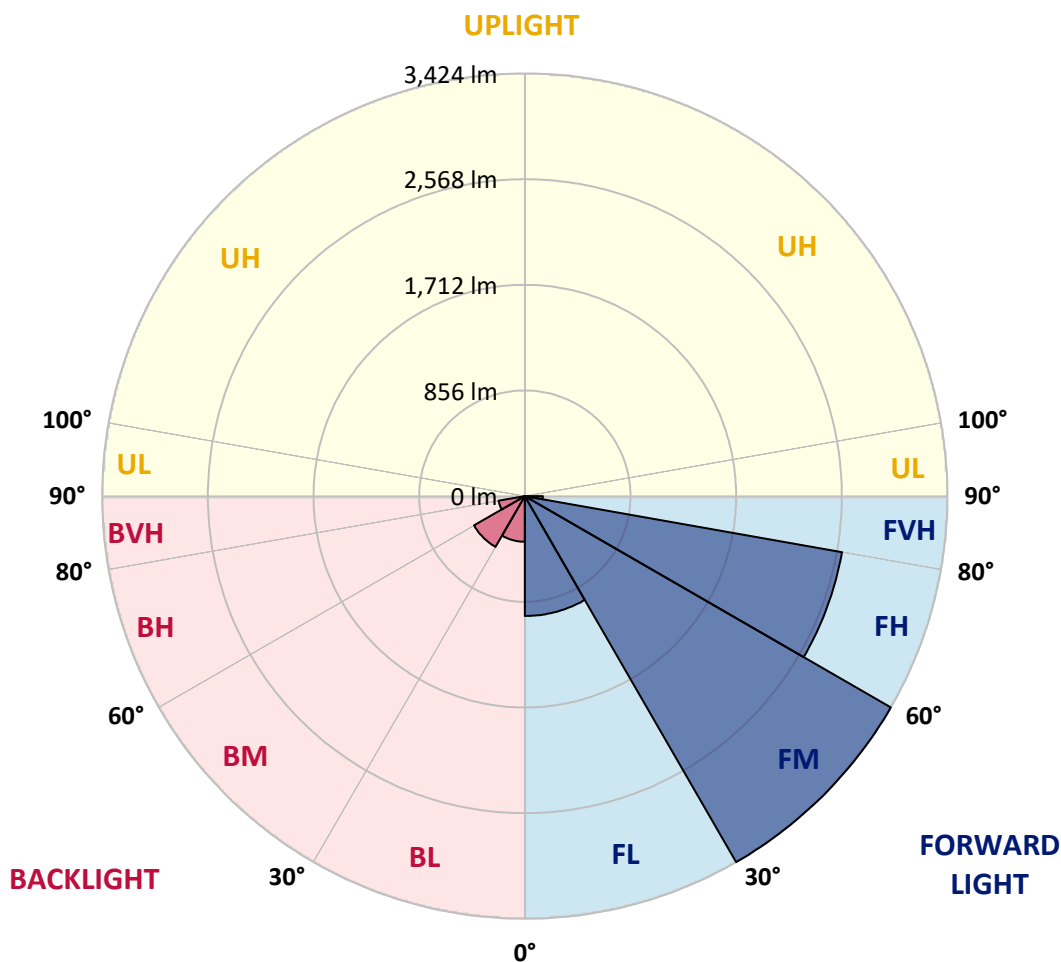
REPORT NUMBER: P677403
 CATALOG NUMBER: CCW-SA-2E-727-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	971.1	11.8			
FM (30°-60°)	3424.4	41.7			
FH (60°-80°)	2609.7	31.8			G2/5000
FVH (80°-90°)	145.2	1.8			G2/225
BL (0°-30°)	369.4	4.5	B1/500		
BM (30°-60°)	475.0	5.8	B1/1000		
BH (60°-80°)	215.6	2.6	B1/500		G1/500
BVH (80°-90°)	6.9	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: P677403

CATALOG NUMBER: CCW-SA-2E-727-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5
2.5°	3205.8	3243.4	3208.0	3083.9	3061.7	3001.9	2911.1	2904.5	2809.2	2820.3	2769.3
5°	3013.0	3050.7	2975.3	2811.4	2658.5	2536.7	2463.6	2332.9	2304.1	2239.8	2239.8
7.5°	2815.8	2813.6	2685.1	2547.8	2319.6	2095.8	1993.9	1805.6	1694.8	1635.0	1577.4
10°	2651.9	2616.4	2536.7	2253.1	2005.0	1772.4	1646.1	1522.0	1406.8	1307.1	1207.4
12.5°	2536.7	2558.8	2432.6	2124.6	1803.4	1641.6	1506.5	1375.8	1238.4	1125.4	1014.7
15°	2596.5	2561.1	2412.6	2095.8	1770.1	1548.6	1369.1	1209.6	1056.8	908.3	824.1
17.5°	2782.6	2691.8	2516.7	2095.8	1701.5	1406.8	1189.7	1001.4	837.4	704.5	600.4
20°	3032.9	2928.8	2740.5	2173.4	1650.5	1302.7	1005.8	768.8	598.2	474.1	394.3
22.5°	3289.9	3208.0	2924.4	2204.4	1590.7	1163.1	793.1	556.1	398.8	319.0	279.1
25°	3597.9	3482.7	3172.5	2328.4	1502.1	1028.0	624.8	387.7	296.9	254.8	230.4
27.5°	3843.8	3823.9	3405.1	2403.8	1435.6	917.2	494.0	307.9	245.9	214.9	199.4
30°	4154.0	4045.4	3688.7	2554.4	1360.3	790.9	412.1	276.9	226.0	192.7	181.7
32.5°	4340.1	4289.1	3837.2	2638.6	1276.1	686.8	354.5	243.7	206.0	181.7	170.6
35°	4610.3	4508.4	4049.8	2691.8	1231.8	627.0	319.0	221.5	172.8	148.4	135.1
37.5°	4911.6	4874.0	4304.6	2689.6	1167.5	591.5	294.7	206.0	163.9	137.4	121.8
40°	5219.6	5066.7	4459.7	2751.6	1134.3	564.9	276.9	197.2	155.1	130.7	110.8
42.5°	5450.0	5275.0	4639.1	2729.4	1094.4	518.4	270.3	183.9	148.4	119.6	101.9
45°	5512.0	5450.0	4800.9	2722.8	1065.6	480.8	259.2	181.7	144.0	113.0	95.3
47.5°	5631.7	5589.6	5000.3	2733.9	1043.5	452.0	232.6	186.1	137.4	106.3	90.8
50°	5684.8	5609.5	5162.0	2760.4	992.5	416.5	208.3	195.0	135.1	104.1	86.4
52.5°	5904.2	5837.7	5383.5	2835.8	950.4	370.0	183.9	186.1	139.6	97.5	82.0
55°	6119.1	6043.7	5724.7	3008.6	890.6	332.3	157.3	163.9	132.9	88.6	73.1
57.5°	6413.7	6289.7	5952.9	3079.5	837.4	281.4	139.6	135.1	124.1	79.8	64.2
60°	6458.0	6509.0	5919.7	3035.2	782.1	248.1	121.8	104.1	132.9	70.9	55.4
62.5°	6606.5	6393.8	5764.6	2933.3	742.2	228.2	108.6	86.4	115.2	62.0	46.5
65°	6320.7	6163.4	5401.3	2605.4	691.2	230.4	95.3	70.9	73.1	51.0	37.7
67.5°	5902.0	5777.9	4798.7	2248.7	640.3	226.0	84.2	62.0	55.4	44.3	33.2
70°	5179.7	4911.6	4076.4	1825.5	564.9	210.5	70.9	55.4	46.5	35.4	24.4
72.5°	3768.5	3659.9	2924.4	1411.2	507.3	190.5	66.5	46.5	39.9	26.6	19.9
75°	2536.7	2357.2	1845.5	926.1	407.6	166.2	55.4	42.1	31.0	19.9	15.5
77.5°	1340.3	1267.2	1045.7	440.9	226.0	77.5	31.0	24.4	17.7	15.5	8.9
80°	580.4	516.2	452.0	179.5	79.8	35.4	19.9	13.3	11.1	8.9	4.4
82.5°	296.9	283.6	234.8	77.5	46.5	26.6	11.1	8.9	6.6	4.4	2.2
85°	146.2	150.7	124.1	24.4	26.6	15.5	2.2	2.2	0.0	0.0	0.0
87.5°	11.1	11.1	8.9	4.4	6.6	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: P677403
 CATALOG NUMBER: CCW-SA-2E-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5
2.5°	2749.4	2780.4	2727.2	2760.4	2744.9	2751.6	2758.2	2740.5	2744.9	2807.0	2809.2
5°	2202.2	2262.0	2239.8	2270.8	2324.0	2297.4	2321.8	2317.4	2321.8	2330.7	2370.5
7.5°	1570.8	1553.0	1595.1	1677.1	1772.4	1830.0	1801.2	1785.7	1776.8	1754.6	1781.2
10°	1185.3	1176.4	1165.3	1189.7	1251.7	1316.0	1351.4	1291.6	1258.4	1216.3	1200.8
12.5°	983.7	928.3	897.3	859.6	877.3	934.9	937.1	879.5	826.4	804.2	828.6
15°	775.4	737.7	682.4	629.2	602.6	646.9	609.2	553.9	485.2	476.3	474.1
17.5°	553.9	531.7	491.8	469.7	438.7	427.6	387.7	303.5	254.8	241.5	245.9
20°	376.6	358.9	356.7	336.7	323.5	314.6	250.3	195.0	179.5	181.7	183.9
22.5°	279.1	270.3	259.2	257.0	245.9	234.8	183.9	163.9	152.9	152.9	159.5
25°	228.2	223.8	212.7	208.3	203.8	188.3	155.1	139.6	135.1	130.7	137.4
27.5°	195.0	192.7	186.1	179.5	175.0	159.5	135.1	121.8	117.4	117.4	117.4
30°	175.0	175.0	166.2	152.9	152.9	135.1	115.2	106.3	101.9	101.9	99.7
32.5°	163.9	159.5	148.4	139.6	132.9	115.2	101.9	93.0	86.4	86.4	88.6
35°	132.9	132.9	130.7	124.1	115.2	97.5	86.4	77.5	73.1	70.9	73.1
37.5°	117.4	110.8	101.9	104.1	99.7	84.2	73.1	66.5	59.8	59.8	59.8
40°	106.3	99.7	90.8	84.2	82.0	75.3	64.2	53.2	46.5	44.3	44.3
42.5°	95.3	90.8	77.5	66.5	64.2	64.2	48.7	39.9	33.2	33.2	33.2
45°	88.6	82.0	70.9	57.6	46.5	48.7	39.9	28.8	24.4	22.2	22.2
47.5°	84.2	77.5	62.0	48.7	35.4	35.4	28.8	19.9	15.5	13.3	13.3
50°	77.5	70.9	55.4	39.9	26.6	22.2	17.7	11.1	6.6	4.4	4.4
52.5°	73.1	66.5	48.7	33.2	22.2	15.5	11.1	2.2	0.0	0.0	0.0
55°	66.5	57.6	42.1	26.6	17.7	8.9	2.2	0.0	0.0	0.0	0.0
57.5°	57.6	51.0	33.2	19.9	11.1	2.2	0.0	0.0	0.0	0.0	0.0
60°	48.7	42.1	26.6	15.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	39.9	35.4	19.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	33.2	26.6	15.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	28.8	22.2	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	22.2	15.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15.5	11.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.6	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: P677403
 CATALOG NUMBER: CCW-SA-2E-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5
2.5°	2818.0	2884.5	2946.5	2964.3	3013.0	3148.2	3148.2	3212.4	3327.6	3369.7	3378.6
5°	2377.2	2448.1	2461.4	2598.7	2663.0	2800.3	2891.2	3108.3	3239.0	3321.0	3371.9
7.5°	1807.8	1832.2	1883.1	2011.6	2137.9	2304.1	2476.9	2753.8	2984.2	3077.3	3250.1
10°	1242.9	1316.0	1426.7	1542.0	1739.1	1923.0	2146.8	2408.2	2691.8	2807.0	2955.4
12.5°	837.4	939.3	1116.6	1280.5	1462.2	1648.3	1861.0	2211.0	2532.3	2691.8	2840.2
15°	489.6	613.7	766.5	1032.4	1273.9	1482.1	1694.8	2049.3	2439.2	2645.2	2826.9
17.5°	248.1	285.8	412.1	642.5	961.5	1302.7	1619.5	2071.4	2510.1	2762.7	2913.3
20°	186.1	197.2	232.6	341.2	658.0	1076.7	1548.6	2104.7	2707.3	3015.2	3097.2
22.5°	161.7	170.6	186.1	221.5	370.0	824.1	1448.9	2186.6	2975.3	3265.6	3438.4
25°	137.4	146.2	159.5	181.7	237.1	560.5	1327.1	2273.0	3214.6	3580.2	3741.9
27.5°	119.6	126.3	139.6	157.3	192.7	356.7	1116.6	2388.3	3580.2	3961.2	4003.3
30°	101.9	108.6	119.6	139.6	163.9	252.6	819.7	2403.8	3781.8	4127.4	4244.8
32.5°	88.6	90.8	104.1	121.8	137.4	199.4	576.0	2419.3	3930.2	4342.3	4366.6
35°	73.1	77.5	90.8	101.9	119.6	157.3	436.4	2341.7	4122.9	4563.8	4557.2
37.5°	59.8	66.5	75.3	84.2	97.5	132.9	347.8	2197.7	4364.4	4907.2	4699.0
40°	46.5	53.2	62.0	73.1	82.0	119.6	261.4	1980.6	4617.0	5075.6	4854.0
42.5°	33.2	37.7	46.5	57.6	73.1	99.7	188.3	1723.6	4716.7	5272.8	5040.1
45°	24.4	28.8	35.4	48.7	75.3	79.8	130.7	1488.8	4823.0	5359.2	4998.0
47.5°	13.3	17.7	26.6	42.1	66.5	59.8	93.0	1278.3	4944.9	5436.7	5031.3
50°	4.4	6.6	15.5	44.3	53.2	46.5	73.1	1165.3	5064.5	5452.2	5097.7
52.5°	0.0	0.0	8.9	46.5	39.9	35.4	64.2	1121.0	5033.5	5501.0	5055.7
55°	0.0	0.0	2.2	19.9	22.2	26.6	53.2	1118.8	5252.8	5516.5	5286.1
57.5°	0.0	0.0	0.0	6.6	13.3	22.2	46.5	1047.9	5392.4	5902.0	5596.2
60°	0.0	0.0	0.0	2.2	8.9	15.5	35.4	985.9	5534.2	6074.8	5928.5
62.5°	0.0	0.0	0.0	0.0	2.2	6.6	24.4	890.6	5248.4	6061.5	6249.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	15.5	704.5	4721.1	5744.7	6072.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.9	487.4	4134.0	5345.9	5746.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	294.7	3336.5	4687.9	4874.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	126.3	2381.6	3722.0	3998.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.0	1473.3	2720.6	3061.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	954.9	2060.4	2324.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	509.6	1291.6	1502.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	221.5	784.3	903.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.9	476.3	542.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.1	97.5
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: P677403

CATALOG NUMBER: CCW-SA-2E-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5
2.5°	3383.0	3447.2	3471.6	3433.9	3438.4	3360.8	3349.8	3241.2	3196.9	3205.8
5°	3538.1	3631.1	3682.1	3640.0	3544.7	3396.3	3261.1	3132.6	3052.9	3013.0
7.5°	3502.6	3606.7	3671.0	3710.9	3602.3	3363.0	3157.0	2915.5	2813.6	2815.8
10°	3307.7	3524.8	3655.5	3604.5	3553.6	3314.3	2995.3	2733.9	2643.0	2651.9
12.5°	3150.4	3391.9	3469.4	3509.3	3405.1	3214.6	2999.7	2700.6	2598.7	2536.7
15°	3052.9	3232.3	3236.8	3298.8	3256.7	3256.7	3046.2	2753.8	2665.2	2596.5
17.5°	3052.9	3092.8	3088.3	3110.5	3181.4	3265.6	3163.7	2968.7	2793.7	2782.6
20°	3121.6	2997.5	2968.7	2977.6	3037.4	3287.7	3422.9	3179.2	3068.4	3032.9
22.5°	3281.1	3008.6	2833.6	2802.5	2986.4	3285.5	3589.0	3511.5	3318.7	3289.9
25°	3500.4	2988.6	2798.1	2758.2	2897.8	3365.3	3817.2	3832.7	3657.7	3597.9
27.5°	3708.7	3077.3	2793.7	2784.8	2968.7	3347.5	3974.5	4089.7	3892.5	3843.8
30°	3779.6	3165.9	2875.7	2758.2	2995.3	3411.8	3970.1	4271.4	4142.9	4154.0
32.5°	3863.7	3254.5	2884.5	2838.0	3108.3	3515.9	4096.4	4563.8	4470.8	4340.1
35°	3987.8	3374.1	2968.7	2926.6	3188.0	3609.0	4122.9	4778.7	4763.2	4610.3
37.5°	4094.1	3491.5	3143.7	3150.4	3431.7	3759.6	4240.4	5042.4	5015.8	4911.6
40°	4169.5	3655.5	3416.2	3433.9	3644.4	3928.0	4448.6	5175.3	5372.5	5219.6
42.5°	4180.5	3801.7	3728.6	3870.4	4067.6	4189.4	4532.8	5266.1	5549.7	5450.0
45°	4222.6	4034.3	4238.2	4342.3	4504.0	4419.8	4528.4	5421.2	5563.0	5512.0
47.5°	4386.6	4457.5	4714.5	5031.3	5088.9	4812.0	4634.7	5445.6	5638.3	5631.7
50°	4557.2	4911.6	5272.8	5483.2	5556.3	5082.2	4734.4	5425.6	5738.0	5684.8
52.5°	4747.7	5306.0	5826.6	6085.8	6046.0	5381.3	4847.4	5587.4	5921.9	5904.2
55°	4867.3	5483.2	6183.3	6544.4	6513.4	5715.9	5206.3	5820.0	6163.4	6119.1
57.5°	5184.1	5771.2	6537.8	6706.2	6788.1	6154.5	5456.6	6201.0	6365.0	6413.7
60°	5445.6	5959.6	6630.8	6874.5	6903.3	6415.9	5895.3	6593.2	6622.0	6458.0
62.5°	5828.8	6032.7	6433.7	6653.0	6801.4	6564.4	6289.7	6803.6	6617.5	6606.5
65°	6110.2	5793.4	6065.9	6187.7	6283.0	6338.4	6686.2	6947.6	6535.6	6320.7
67.5°	5952.9	5341.4	5290.5	5297.1	5325.9	5660.5	6553.3	6595.4	6079.2	5902.0
70°	5239.5	4382.2	4313.5	4366.6	4222.6	4625.9	6014.9	5995.0	5363.6	5179.7
72.5°	4238.2	3194.7	3077.3	3150.4	3183.6	3611.2	5060.1	4546.1	3912.5	3768.5
75°	3367.5	2341.7	1976.2	2153.4	2266.4	2629.7	3952.4	3088.3	2731.6	2536.7
77.5°	2645.2	1772.4	1537.5	1466.6	1570.8	1911.9	2875.7	1621.7	1431.2	1340.3
80°	1677.1	1302.7	1413.5	1311.5	1355.9	1364.7	1497.6	737.7	587.1	580.4
82.5°	1010.2	890.6	1059.0	582.7	1061.2	948.2	622.5	334.5	296.9	296.9
85°	715.6	551.6	365.5	237.1	471.9	520.6	241.5	172.8	150.7	146.2
87.5°	358.9	170.6	82.0	53.2	59.8	97.5	28.8	13.3	13.3	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)