

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: P677291

Luminaire Tested: **CCW-SA-2D-740-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677291  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-740-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SLL distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

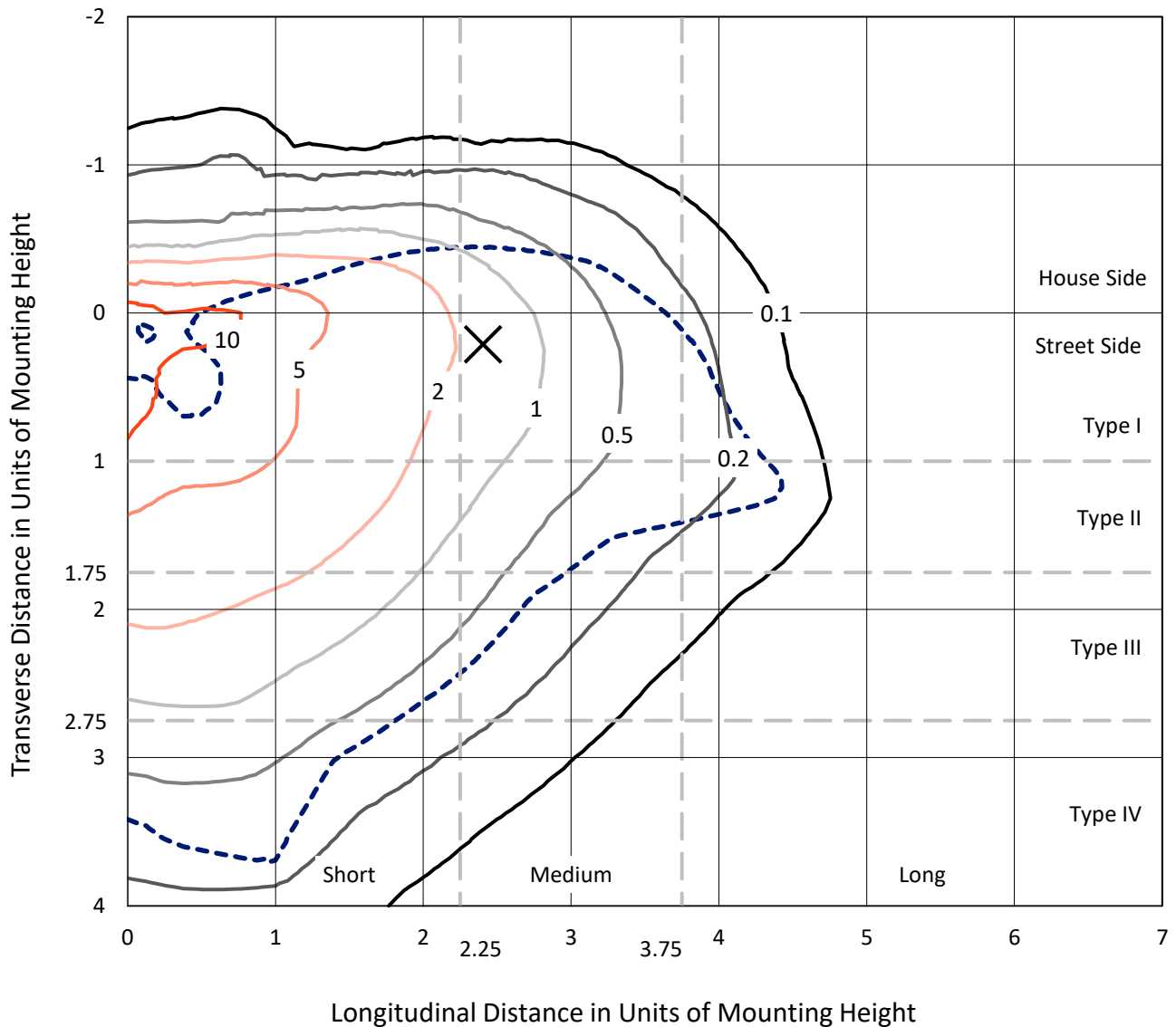
Lumens per Lamp: N/A  
Luminaire Lumens: 8091.8 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

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: P677291  
 CATALOG NUMBER: CCW-SA-2D-740-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

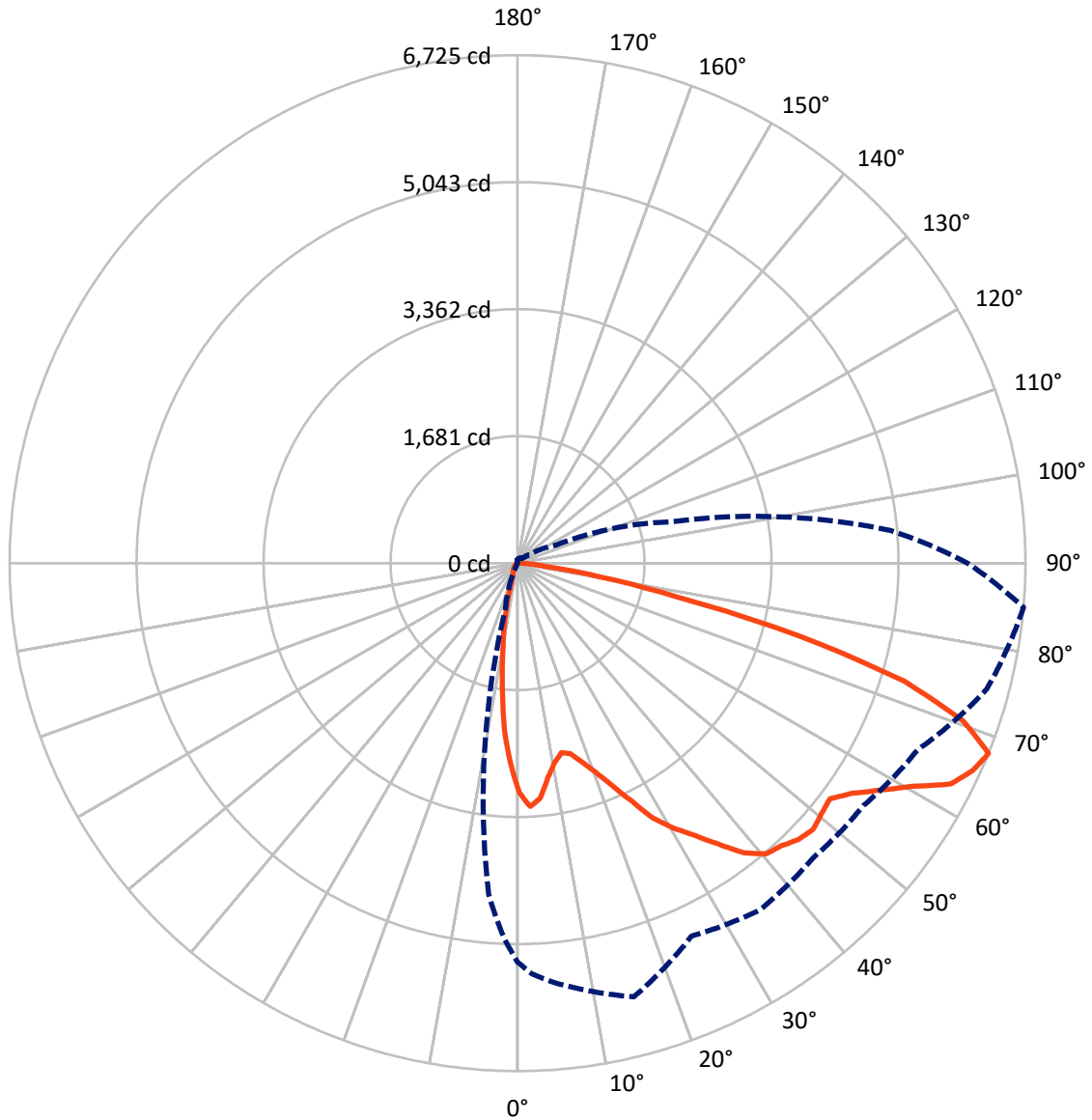
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 15.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P677291  
CATALOG NUMBER: CCW-SA-2D-740-U-SLL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P677291  
 CATALOG NUMBER: CCW-SA-2D-740-U-SLL-HSS

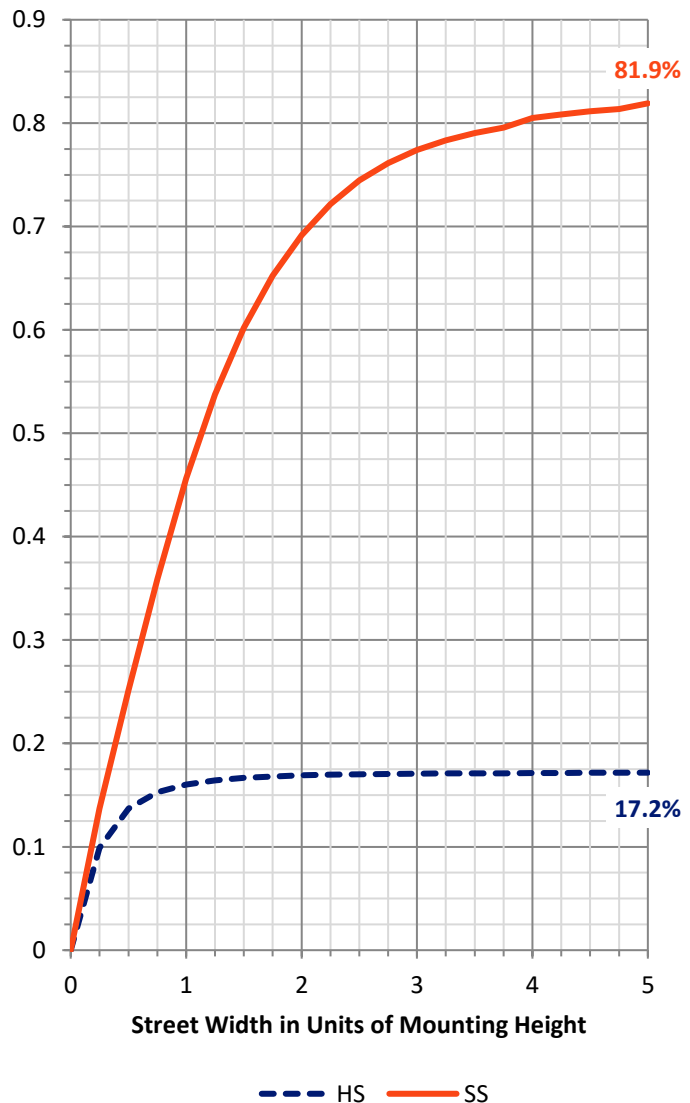
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1405.0	0.0	1405.0
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	6686.8	0.0	6686.8
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	8091.8	0.0	8091.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.1	2.9
10°-20°	453.2	5.6
20°-30°	627.2	7.8
30°-40°	886.4	11.0
40°-50°	1206.9	14.9
50°-60°	1598.4	19.8
60°-70°	1855.9	22.9
70°-80°	1051.0	13.0
80°-90°	181.6	2.2
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°	8091.8	100.0
0°-180°	8091.8	100.0



REPORT NUMBER: P677291

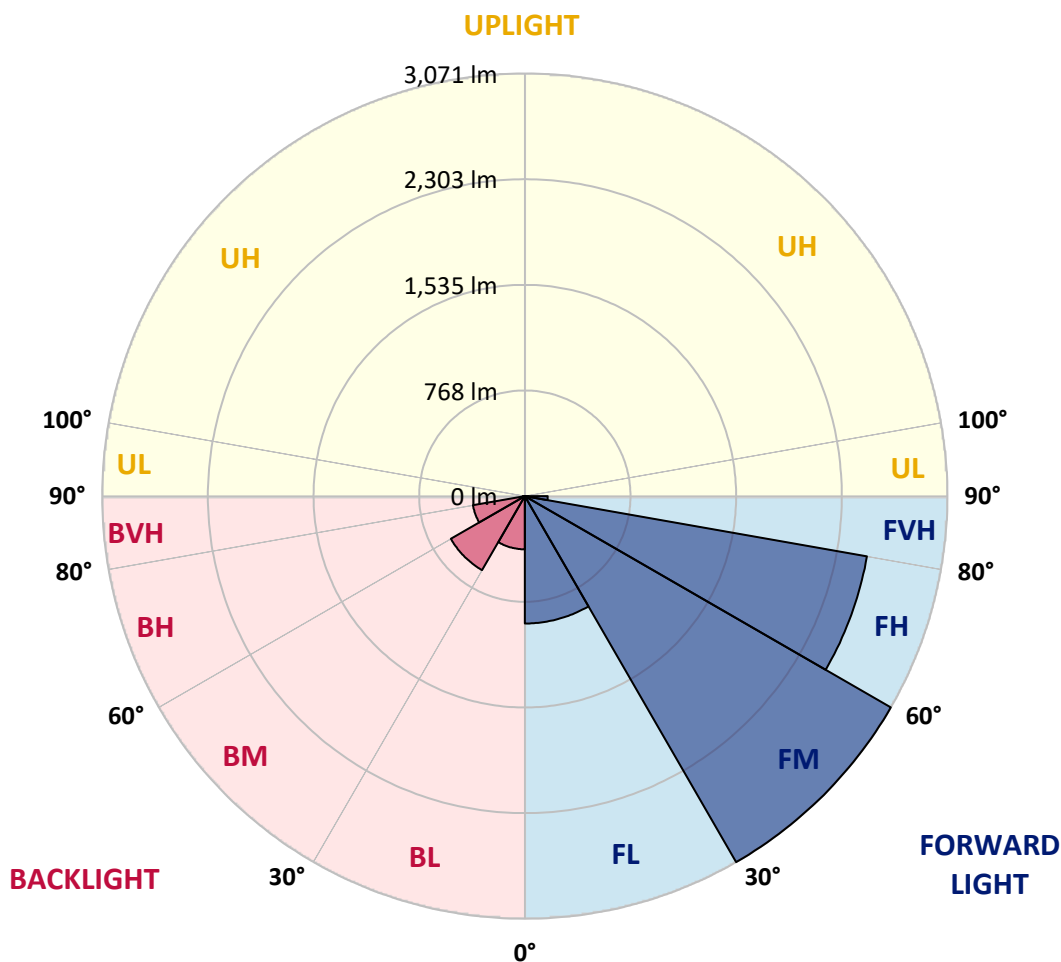
CATALOG NUMBER: CCW-SA-2D-740-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.3	11.4			
FM (30°-60°)	3070.9	38.0			
FH (60°-80°)	2524.3	31.2			G2/5000
FVH (80°-90°)	166.3	2.1			G2/225
BL (0°-30°)	386.3	4.8	B1/500		
BM (30°-60°)	620.8	7.7	B1/1000		
BH (60°-80°)	382.6	4.7	B1/500		G1/500
BVH (80°-90°)	15.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





REPORT NUMBER: P677291

CATALOG NUMBER: CCW-SA-2D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5
2.5°	3161.3	3228.3	3230.4	3260.7	3291.0	3291.0	3362.3	3345.0	3282.3	3271.5	3226.1
5°	3185.1	3208.8	3226.1	3379.5	3509.2	3496.2	3535.1	3509.2	3388.2	3232.6	3126.7
7.5°	2979.8	3005.7	3074.9	3336.3	3511.4	3569.7	3643.2	3481.1	3353.6	3072.7	2869.6
10°	2707.5	2757.2	2884.7	3182.9	3399.0	3584.8	3584.8	3455.2	3208.8	2934.4	2685.9
12.5°	2556.3	2655.7	2724.8	3027.3	3308.2	3435.7	3431.4	3362.3	3202.4	2856.6	2575.7
15°	2582.2	2610.3	2757.2	2992.8	3178.6	3172.1	3249.9	3228.3	3115.9	2925.8	2616.8
17.5°	2701.0	2744.3	2871.7	2992.8	3081.3	3055.4	3053.3	3157.0	3163.5	3042.5	2770.2
20°	2895.5	3023.0	3083.5	3120.2	3012.2	2902.0	2889.0	3033.8	3146.2	3191.6	2953.9
22.5°	3206.7	3291.0	3414.1	3226.1	2945.2	2806.9	2781.0	2940.9	3167.8	3368.7	3191.6
25°	3511.4	3576.2	3695.0	3453.0	3020.8	2787.5	2742.1	2880.4	3249.9	3615.1	3478.9
27.5°	3833.3	3889.5	3902.5	3619.4	3061.9	2748.6	2694.6	2880.4	3319.0	3744.7	3822.5
30°	4030.0	4096.9	4109.9	3766.3	3128.9	2781.0	2755.1	2893.4	3366.6	3854.9	4068.9
32.5°	4250.4	4267.6	4256.8	3792.3	3202.4	2876.1	2768.0	2979.8	3420.6	3986.7	4293.6
35°	4514.0	4544.2	4434.0	3911.1	3366.6	2936.6	2897.7	3085.7	3513.5	4047.2	4565.8
37.5°	4714.9	4810.0	4561.5	3956.5	3399.0	3064.1	3070.5	3306.1	3578.3	4120.7	4866.2
40°	5093.1	4933.2	4777.6	4112.1	3522.2	3280.1	3245.6	3533.0	3796.6	4168.2	5062.8
42.5°	5300.5	5216.3	4861.9	4127.2	3712.3	3578.3	3587.0	3790.1	3911.1	4302.2	5116.9
45°	5352.4	5263.8	4976.4	4138.0	3900.3	3930.6	4079.7	4118.6	4079.7	4390.8	5218.4
47.5°	5484.2	5291.9	4963.4	4282.8	4205.0	4321.7	4511.8	4596.1	4308.7	4358.4	5266.0
50°	5458.3	5348.1	4935.3	4343.3	4576.6	4885.6	5013.1	4978.6	4563.7	4291.4	5214.1
52.5°	5350.2	5231.4	5021.8	4507.5	4924.5	5298.4	5475.6	5389.1	4790.6	4442.7	5179.5
55°	5508.0	5417.2	5134.1	4730.1	5186.0	5661.4	5786.7	5721.9	5069.3	4583.1	5376.2
57.5°	5678.7	5659.2	5438.8	4991.5	5495.0	6035.2	6035.2	5955.3	5311.3	4786.2	5667.9
60°	5925.0	5968.2	5663.5	5164.4	5600.9	6013.6	6326.9	6234.0	5555.5	5142.8	5998.5
62.5°	5845.1	5983.4	5953.1	5536.1	5721.9	6119.5	6290.2	6359.3	5858.0	5577.1	6439.3
65°	5587.9	5734.9	5950.9	5780.2	5631.1	5862.3	5948.8	6158.4	6009.3	5985.5	6620.8
67.5°	5281.1	5441.0	5575.0	5944.5	5447.5	5600.9	5525.3	5592.2	5845.1	6432.8	6724.5
70°	4611.2	4764.6	4976.4	5579.3	4961.3	4823.0	4803.5	4771.1	5164.4	6272.9	6253.5
72.5°	3792.3	3863.6	4213.6	4535.6	3671.3	3645.3	3675.6	3638.8	4094.8	5678.7	5356.7
75°	2839.3	2910.6	3109.4	3483.3	2500.1	2351.0	2523.9	2694.6	3126.7	4408.1	3848.4
77.5°	2134.9	2225.7	2351.0	2606.0	1834.5	1601.2	1624.9	1787.0	2260.2	3530.8	2156.5
80°	1385.1	1374.3	1616.3	1793.5	1380.8	1424.0	1363.5	1482.3	1637.9	1888.6	1102.0
82.5°	799.5	810.3	911.9	1028.6	961.6	1099.9	793.0	1324.6	1169.0	769.3	410.6
85°	449.5	468.9	561.8	713.1	602.9	404.1	330.6	656.9	734.7	315.5	198.8
87.5°	45.4	38.9	75.6	270.1	164.2	67.0	99.4	157.7	177.2	118.8	58.3
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: P677291

CATALOG NUMBER: CCW-SA-2D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5
2.5°	3161.3	3161.3	3107.3	3016.5	2979.8	2915.0	2826.4	2854.5	2824.2	2714.0	2685.9
5°	3031.7	2927.9	2815.6	2677.3	2597.3	2433.1	2381.2	2288.3	2303.4	2210.5	2214.9
7.5°	2761.5	2679.4	2489.3	2307.8	2150.0	2007.4	1806.5	1730.8	1657.4	1620.6	1663.8
10°	2603.8	2450.4	2191.1	1953.4	1743.8	1616.3	1482.3	1378.6	1283.5	1212.2	1197.1
12.5°	2489.3	2353.1	2039.8	1750.3	1586.1	1482.3	1359.2	1216.5	1123.6	1000.5	963.7
15°	2454.7	2288.3	1957.7	1670.3	1510.4	1339.7	1199.3	1058.8	937.8	808.2	762.8
17.5°	2573.6	2381.2	1955.6	1605.5	1380.8	1197.1	1002.6	844.9	721.7	602.9	574.8
20°	2774.5	2480.6	2018.2	1566.6	1257.6	1011.3	790.9	633.1	494.8	417.0	397.6
22.5°	3003.6	2649.2	2024.7	1462.9	1134.4	825.4	576.9	417.0	339.3	302.5	291.7
25°	3284.5	2919.3	2102.5	1378.6	989.7	626.6	410.6	319.8	274.4	252.8	248.5
27.5°	3515.7	3107.3	2186.8	1290.0	847.0	464.6	322.0	261.5	237.7	216.1	213.9
30°	3755.5	3323.4	2210.5	1236.0	723.9	382.5	276.6	231.2	205.3	194.5	192.3
32.5°	3965.1	3558.9	2286.2	1147.4	607.2	337.1	250.7	207.4	190.2	172.9	170.7
35°	4235.2	3695.0	2322.9	1099.9	564.0	304.7	229.0	190.2	164.2	153.4	149.1
37.5°	4524.8	3826.8	2346.7	1063.1	527.2	285.2	216.1	179.3	155.6	140.5	136.1
40°	4794.9	4012.7	2312.1	1017.8	499.2	261.5	207.4	166.4	144.8	129.7	123.2
42.5°	5002.3	4194.2	2301.3	974.5	468.9	252.8	196.6	159.9	136.1	118.8	116.7
45°	5119.0	4317.3	2225.7	940.0	445.1	257.1	192.3	151.3	129.7	114.5	105.9
47.5°	5090.9	4412.4	2245.1	929.2	412.7	239.9	190.2	144.8	118.8	105.9	99.4
50°	5246.5	4604.7	2212.7	894.6	389.0	216.1	207.4	144.8	116.7	101.6	95.1
52.5°	5272.4	4779.8	2281.8	831.9	352.2	198.8	205.3	142.6	112.4	97.2	88.6
55°	5488.5	4982.9	2415.8	797.3	322.0	172.9	188.0	138.3	101.6	88.6	84.3
57.5°	5782.4	5404.2	2502.2	764.9	280.9	151.3	157.7	136.1	92.9	82.1	75.6
60°	6065.5	5572.8	2508.7	706.6	242.0	136.1	123.2	136.1	86.4	73.5	67.0
62.5°	6277.2	5572.8	2465.5	656.9	211.8	121.0	108.0	129.7	77.8	64.8	60.5
65°	6162.7	5423.7	2353.1	615.8	192.3	105.9	92.9	99.4	69.1	56.2	51.9
67.5°	5957.4	4959.1	2104.7	566.1	190.2	92.9	80.0	73.5	60.5	49.7	45.4
70°	5629.0	4332.5	1752.4	510.0	185.8	84.3	71.3	62.7	54.0	43.2	38.9
72.5°	4535.6	3578.3	1439.1	477.5	181.5	73.5	60.5	54.0	45.4	36.7	32.4
75°	3141.9	2286.2	1108.5	408.4	177.2	67.0	56.2	47.5	38.9	30.3	28.1
77.5°	1884.2	1527.7	715.2	306.8	116.7	54.0	47.5	36.7	32.4	25.9	23.8
80°	881.6	721.7	289.6	118.8	56.2	38.9	32.4	28.1	25.9	21.6	19.4
82.5°	345.7	304.7	140.5	69.1	45.4	30.3	25.9	23.8	21.6	17.3	15.1
85°	185.8	164.2	67.0	47.5	32.4	21.6	21.6	19.4	17.3	15.1	13.0
87.5°	41.1	30.3	28.1	28.1	23.8	17.3	17.3	15.1	13.0	10.8	8.6
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: P677291  
 CATALOG NUMBER: CCW-SA-2D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5
2.5°	2670.8	2703.2	2651.3	2683.8	2638.4	2673.0	2677.3	2644.9	2653.5	2696.7	2716.2
5°	2275.4	2253.8	2206.2	2191.1	2193.2	2165.2	2176.0	2191.1	2214.9	2227.8	2266.7
7.5°	1640.1	1689.8	1687.6	1724.3	1726.5	1722.2	1691.9	1627.1	1648.7	1631.4	1653.0
10°	1173.3	1194.9	1236.0	1259.8	1303.0	1279.2	1210.1	1184.1	1171.2	1169.0	1190.6
12.5°	937.8	885.9	881.6	890.3	911.9	883.8	849.2	819.0	834.1	864.3	888.1
15°	726.0	682.8	626.6	618.0	622.3	609.4	572.6	533.7	544.5	574.8	592.1
17.5°	557.5	507.8	468.9	443.0	434.3	389.0	334.9	302.5	293.9	291.7	306.8
20°	376.0	367.3	360.9	328.4	328.4	263.6	218.2	194.5	194.5	198.8	201.0
22.5°	280.9	270.1	272.3	265.8	248.5	196.6	172.9	166.4	166.4	170.7	170.7
25°	244.2	229.0	224.7	222.6	205.3	168.5	151.3	144.8	144.8	149.1	149.1
27.5°	207.4	203.1	196.6	188.0	172.9	144.8	134.0	127.5	129.7	131.8	129.7
30°	190.2	179.3	170.7	170.7	153.4	129.7	121.0	116.7	112.4	116.7	118.8
32.5°	168.5	162.1	157.7	151.3	131.8	114.5	105.9	101.6	99.4	99.4	101.6
35°	144.8	144.8	140.5	131.8	114.5	103.7	92.9	88.6	86.4	88.6	88.6
37.5°	129.7	123.2	125.3	116.7	101.6	90.8	80.0	75.6	75.6	73.5	75.6
40°	121.0	110.2	103.7	99.4	90.8	77.8	69.1	64.8	62.7	62.7	62.7
42.5°	108.0	99.4	86.4	84.3	82.1	67.0	56.2	54.0	51.9	49.7	49.7
45°	101.6	88.6	77.8	67.0	67.0	56.2	47.5	43.2	41.1	38.9	41.1
47.5°	92.9	80.0	67.0	56.2	54.0	45.4	36.7	32.4	30.3	30.3	30.3
50°	88.6	71.3	58.3	47.5	41.1	36.7	28.1	23.8	21.6	21.6	21.6
52.5°	82.1	67.0	51.9	41.1	32.4	28.1	21.6	17.3	15.1	15.1	15.1
55°	73.5	60.5	45.4	34.6	28.1	21.6	15.1	10.8	8.6	8.6	8.6
57.5°	69.1	54.0	38.9	30.3	21.6	15.1	8.6	6.5	6.5	4.3	6.5
60°	62.7	47.5	32.4	23.8	17.3	10.8	6.5	2.2	2.2	2.2	2.2
62.5°	54.0	41.1	28.1	19.4	13.0	6.5	2.2	0.0	0.0	0.0	0.0
65°	45.4	32.4	21.6	15.1	8.6	2.2	0.0	0.0	0.0	0.0	0.0
67.5°	38.9	28.1	17.3	10.8	6.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	34.6	23.8	13.0	8.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	28.1	19.4	10.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.8	15.1	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.4	10.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.1	8.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.2	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: P677291  
 CATALOG NUMBER: CCW-SA-2D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5	3042.5
2.5°	2744.3	2731.3	2796.1	2902.0	2956.0	3061.9	3087.8	3154.8	3137.5	3161.3
5°	2271.0	2297.0	2392.0	2547.6	2603.8	2757.2	2902.0	3046.8	3139.7	3185.1
7.5°	1685.5	1771.9	1888.6	2031.2	2176.0	2376.9	2623.3	2791.8	2882.6	2979.8
10°	1255.4	1348.4	1482.3	1622.8	1858.3	2083.0	2329.4	2539.0	2616.8	2707.5
12.5°	987.5	1132.3	1287.9	1439.1	1579.6	1793.5	2098.2	2402.8	2487.1	2556.3
15°	687.1	864.3	1086.9	1283.5	1480.2	1666.0	1981.5	2351.0	2465.5	2582.2
17.5°	380.3	520.8	775.7	1052.3	1341.9	1627.1	2020.4	2446.1	2618.9	2701.0
20°	220.4	276.6	458.1	786.5	1169.0	1542.8	2039.8	2625.4	2854.5	2895.5
22.5°	181.5	201.0	259.3	492.7	957.2	1488.8	2139.2	2876.1	3109.4	3206.7
25°	155.6	170.7	201.0	296.0	723.9	1374.3	2201.9	3189.4	3405.5	3511.4
27.5°	138.3	153.4	177.2	218.2	492.7	1216.5	2305.6	3472.5	3688.5	3833.3
30°	121.0	134.0	157.7	185.8	341.4	1039.4	2394.2	3679.9	3984.6	4030.0
32.5°	108.0	118.8	136.1	159.9	252.8	788.7	2465.5	3893.8	4151.0	4250.4
35°	92.9	105.9	116.7	136.1	192.3	594.2	2422.3	4060.2	4395.1	4514.0
37.5°	82.1	90.8	101.6	114.5	162.1	464.6	2333.7	4259.0	4604.7	4714.9
40°	69.1	75.6	88.6	101.6	146.9	358.7	2232.1	4498.9	4898.6	5093.1
42.5°	58.3	64.8	73.5	95.1	121.0	265.8	2026.9	4684.7	5136.3	5300.5
45°	45.4	54.0	67.0	95.1	97.2	196.6	1815.1	4823.0	5270.3	5352.4
47.5°	34.6	43.2	64.8	82.1	77.8	136.1	1564.4	4980.7	5408.6	5484.2
50°	25.9	34.6	73.5	71.3	64.8	103.7	1406.7	5090.9	5417.2	5458.3
52.5°	17.3	25.9	60.5	54.0	54.0	90.8	1363.5	5086.6	5438.8	5350.2
55°	13.0	19.4	34.6	38.9	47.5	80.0	1324.6	5248.7	5445.3	5508.0
57.5°	8.6	15.1	23.8	30.3	41.1	69.1	1244.6	5443.1	5646.3	5678.7
60°	4.3	10.8	17.3	23.8	34.6	60.5	1132.3	5585.8	5890.4	5925.0
62.5°	2.2	6.5	13.0	19.4	28.1	47.5	1015.6	5358.9	5784.6	5845.1
65°	0.0	4.3	8.6	13.0	17.3	34.6	825.4	4838.1	5365.4	5587.9
67.5°	0.0	0.0	4.3	8.6	10.8	25.9	622.3	4401.6	4978.6	5281.1
70°	0.0	0.0	2.2	2.2	6.5	19.4	397.6	3645.3	4444.8	4611.2
72.5°	0.0	0.0	0.0	0.0	2.2	13.0	231.2	2707.5	3483.3	3792.3
75°	0.0	0.0	0.0	0.0	0.0	10.8	116.7	1741.6	2424.5	2839.3
77.5°	0.0	0.0	0.0	0.0	0.0	8.6	62.7	1123.6	1787.0	2134.9
80°	0.0	0.0	0.0	0.0	0.0	2.2	36.7	652.6	1143.1	1385.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.1	319.8	682.8	799.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	170.7	341.4	449.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	23.8	45.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)