

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: STREETWORKS

Report Number: P1210457

Luminaire Tested: **ARCH3-130-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18155 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 132.6
Input Voltage (V): NR
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: 24 FT



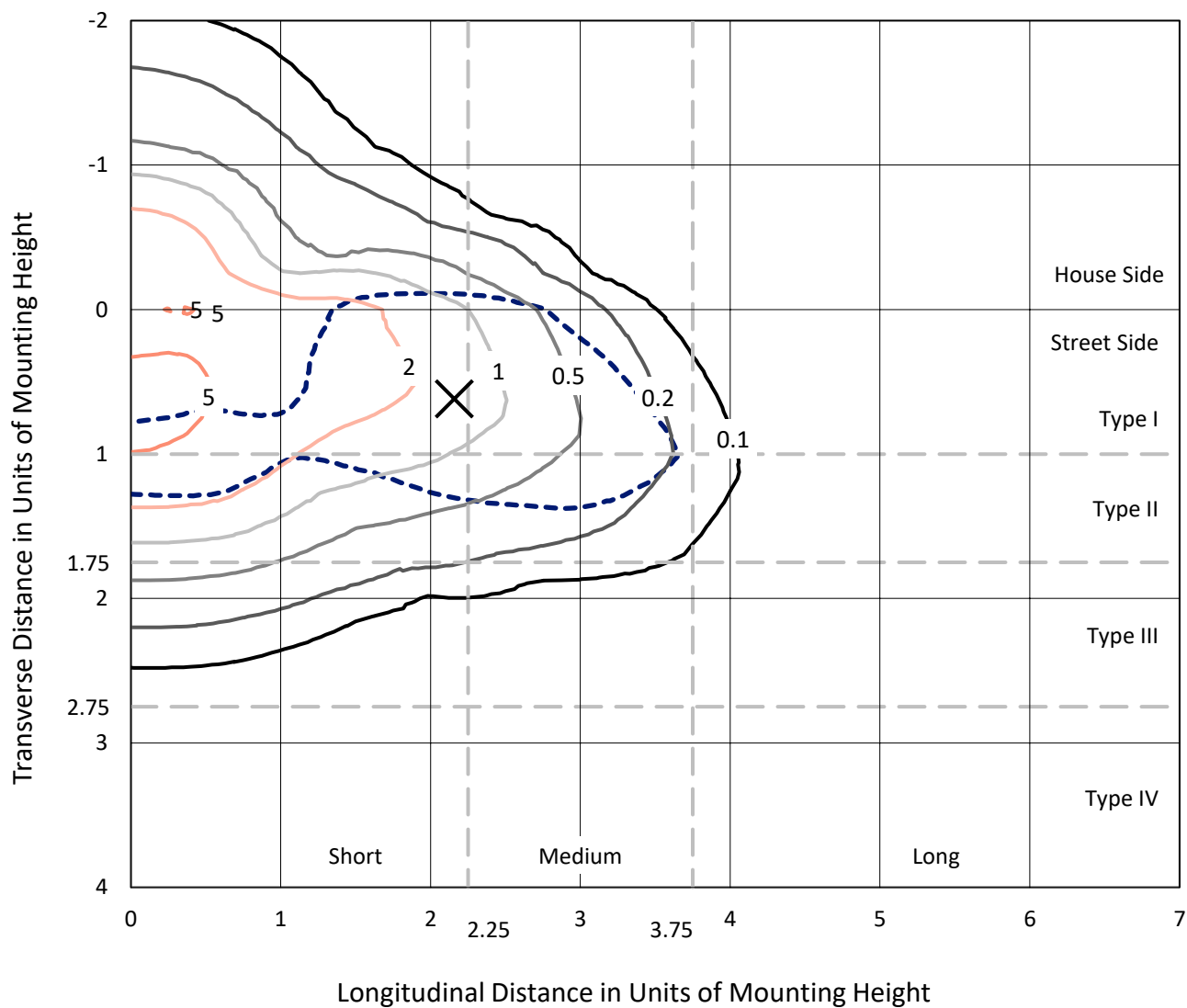
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

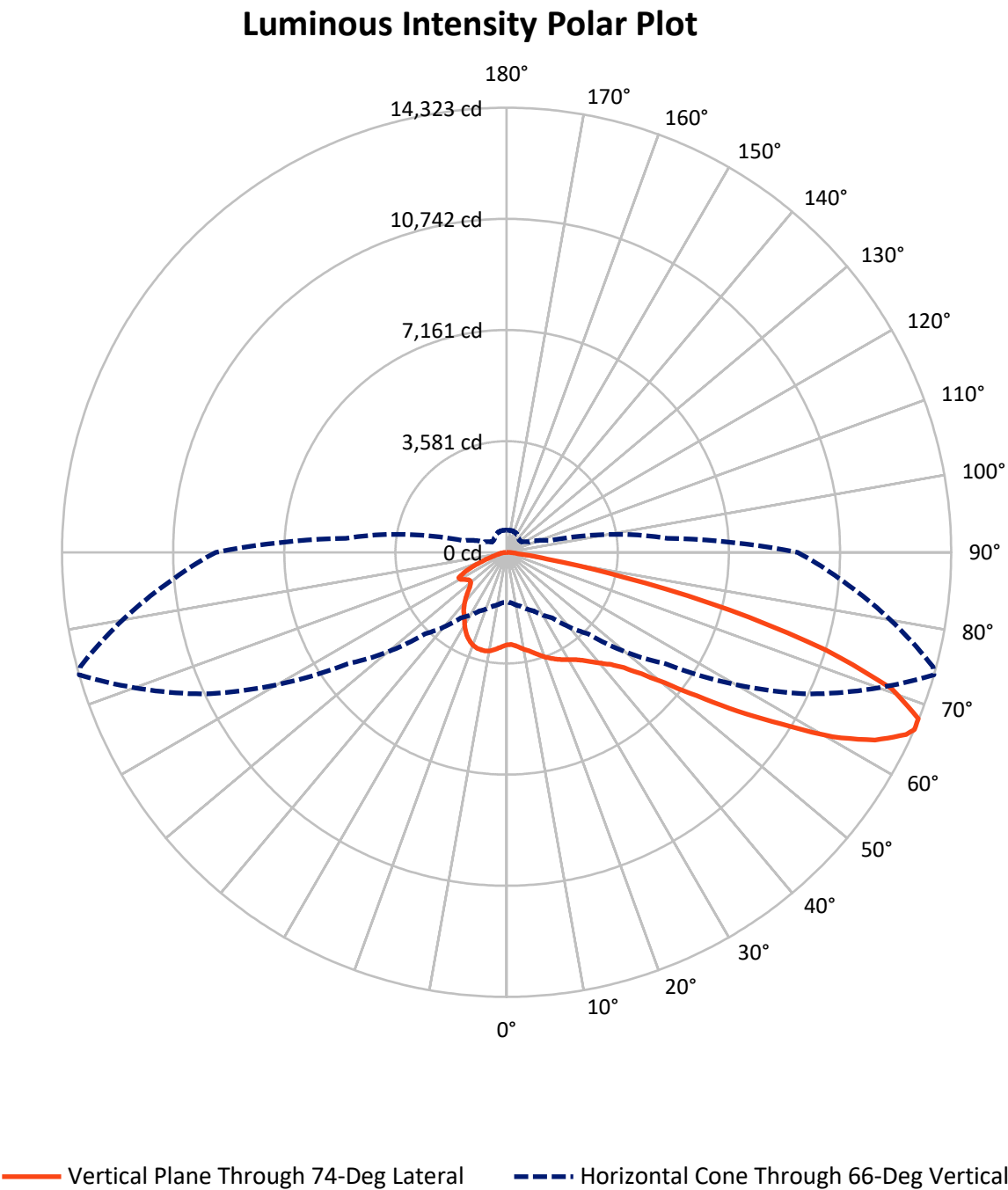
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc

Type II - Short - N/A

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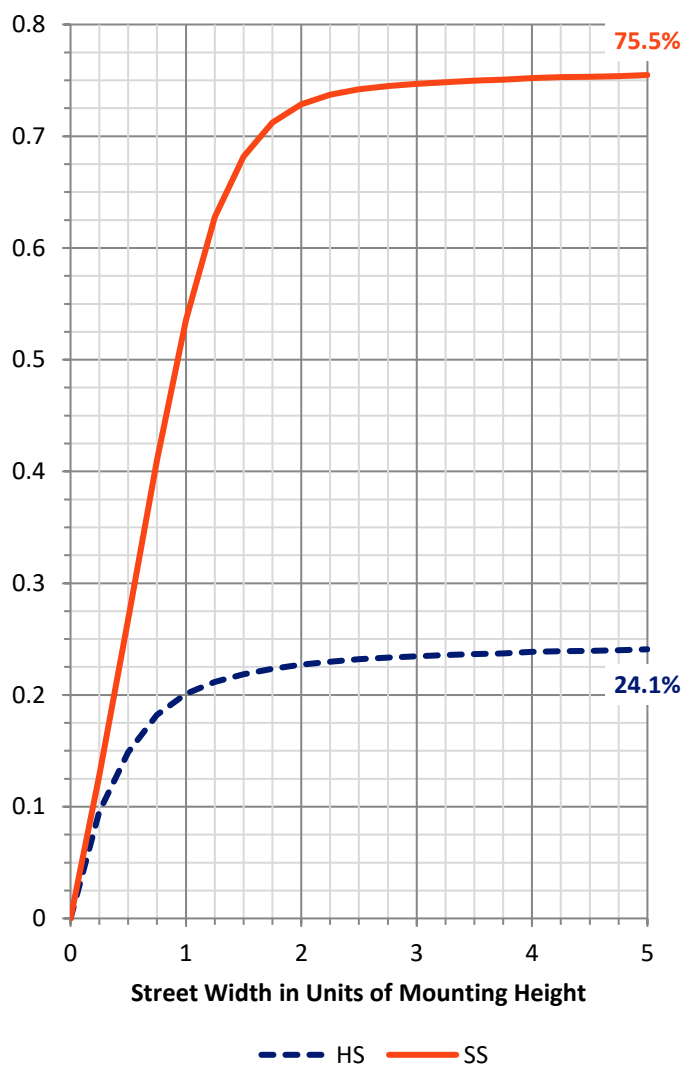
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4421.2	0.0	4421.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	13733.8	0.0	13733.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	18155.0	0.0	18155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.9	1.6
10°-20°	873.1	4.8
20°-30°	1638.3	9.0
30°-40°	2520.1	13.9
40°-50°	3389.8	18.7
50°-60°	4008.8	22.1
60°-70°	3708.4	20.4
70°-80°	1560.1	8.6
80°-90°	172.6	1.0
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°	18155.0	100.0
0°-180°	18155.0	100.0

Coefficient of Utilization



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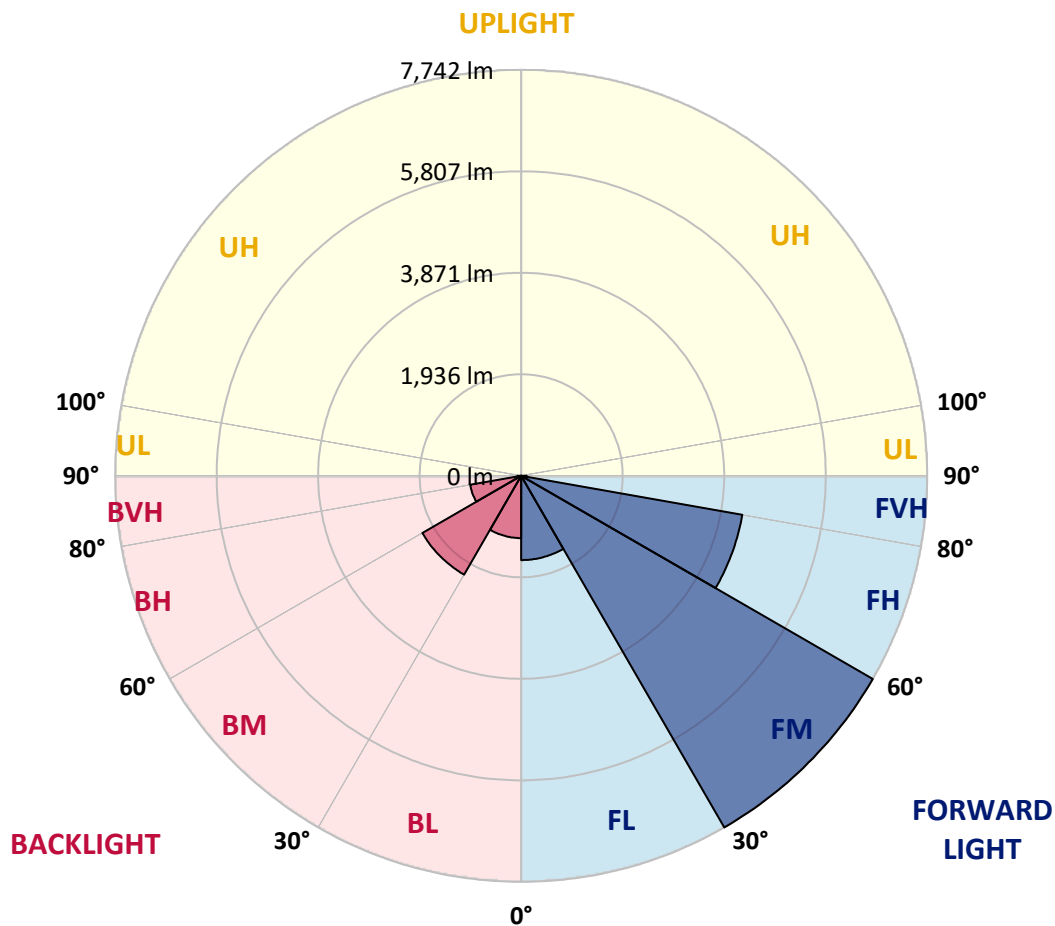
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1606.9	8.9			
FM	(30°-60°)	7742.1	42.6			
FH	(60°-80°)	4281.5	23.6			G2/5000
FVH	(80°-90°)	103.3	0.6			G2/225
BL	(0°-30°)	1188.3	6.5	B3/2500		
BM	(30°-60°)	2176.6	12.0	B2/2500		
BH	(60°-80°)	987.0	5.4	B2/1000		G2/1000
BVH	(80°-90°)	69.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2
2.5°	2966.9	2962.2	2971.5	2985.6	2992.6	2980.9	2976.2	2973.9	2973.9	2966.9	2978.5
5°	2826.7	2824.4	2845.4	2871.1	2920.1	2955.2	3001.9	3029.9	3020.6	3006.6	3015.9
7.5°	2644.5	2639.8	2665.5	2714.6	2782.3	2859.4	2973.9	3062.6	3097.7	3093.0	3090.7
10°	2714.6	2709.9	2707.6	2693.5	2716.9	2791.7	2910.8	3067.3	3186.5	3188.8	3191.1
12.5°	2957.5	2969.2	2957.5	2913.1	2861.7	2833.7	2903.8	3079.0	3261.2	3275.2	3333.6
15°	3289.2	3277.6	3254.2	3202.8	3123.4	3039.3	2987.9	3132.7	3368.7	3380.4	3508.8
17.5°	3581.3	3590.6	3576.6	3527.5	3434.1	3324.3	3167.8	3226.2	3483.1	3515.9	3695.7
20°	3899.0	3936.4	3917.7	3856.9	3779.8	3616.3	3420.1	3361.7	3609.3	3632.7	3889.6
22.5°	4265.7	4305.5	4270.4	4212.0	4148.9	3948.0	3695.7	3527.5	3714.4	3763.5	4076.5
25°	4704.9	4742.3	4709.6	4618.5	4539.1	4293.8	3992.4	3714.4	3817.2	3870.9	4228.4
27.5°	5053.0	5081.0	5111.4	5057.7	4936.2	4681.6	4300.8	3908.3	3920.0	3976.1	4368.5
30°	5363.7	5433.8	5459.5	5466.5	5363.7	5078.7	4616.2	4109.2	4008.8	4067.2	4508.7
32.5°	5788.9	5894.0	5852.0	5894.0	5833.3	5452.5	4943.2	4317.1	4123.2	4177.0	4641.9
35°	6410.3	6494.4	6384.6	6351.9	6253.8	5830.9	5258.6	4532.1	4275.1	4333.5	4768.0
37.5°	7078.4	7174.2	7015.3	6884.5	6697.6	6204.7	5529.6	4814.7	4485.3	4532.1	4884.8
40°	7662.5	7741.9	7604.0	7431.2	7118.1	6534.1	5763.2	5013.3	4695.6	4754.0	5020.3
42.5°	8202.1	8253.5	8099.3	7933.4	7515.3	6830.8	6015.5	5223.5	4940.9	4996.9	5130.1
45°	8748.7	8788.5	8573.5	8337.6	7847.0	7101.8	6293.5	5517.9	5300.6	5375.4	5307.6
47.5°	8846.9	8858.5	8821.2	8662.3	8108.6	7361.1	6636.9	5912.7	5849.6	5931.4	5613.7
50°	8167.1	8272.2	8503.5	8660.0	8213.8	7578.4	6980.3	6478.0	6606.5	6711.7	6249.1
52.5°	6847.1	6947.6	7482.6	8075.9	7961.5	7627.4	7349.4	7195.2	7674.1	7800.3	7113.5
55°	5454.8	5543.6	6108.9	6964.0	7146.2	7403.1	7744.2	8111.0	9036.1	9120.2	8061.9
57.5°	4492.3	4541.4	4945.6	5767.9	6059.9	6686.0	7956.8	9199.6	10421.4	10549.9	8886.6
60°	3684.1	3737.8	4039.1	4716.6	5104.4	5660.4	7788.6	10274.2	12075.4	12075.4	9944.8
62.5°	2773.0	2819.7	3100.0	3630.3	4282.1	4791.4	7251.3	10986.7	13322.9	13266.8	10711.1
65°	1903.9	1941.3	2144.6	2497.3	3083.7	4083.5	6517.8	10996.1	14149.8	14075.1	11038.1
66°	1597.9	1630.6	1803.5	2088.5	2581.4	3705.1	6258.4	10797.5	14322.7	14217.6	10900.3
67.5°	1261.5	1284.9	1399.3	1567.5	1892.3	2999.6	5849.6	10234.5	14306.4	14243.3	10549.9
70°	901.7	918.1	1002.2	1037.2	1119.0	1735.7	4646.5	8963.7	13159.3	13178.0	9171.6
72.5°	698.5	724.2	775.6	782.6	763.9	922.8	2819.7	7477.9	10764.8	10757.8	6807.4
75°	563.0	577.0	602.7	616.7	612.1	595.7	1193.8	5578.6	7410.2	7496.6	3812.5
77.5°	443.9	441.5	464.9	483.6	497.6	467.2	546.7	3270.6	3885.0	3775.2	1432.0
80°	327.1	327.1	359.8	366.8	387.8	392.5	364.4	1261.5	1333.9	1212.4	371.4
82.5°	214.9	214.9	250.0	254.6	275.7	306.0	264.0	378.5	369.1	350.4	168.2
85°	116.8	112.1	123.8	140.2	151.8	179.9	158.9	189.2	193.9	191.6	112.1
87.5°	23.4	21.0	32.7	37.4	42.1	56.1	51.4	77.1	107.5	105.1	49.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2
2.5°	2994.9	2992.6	3018.3	3048.6	3083.7	3104.7	3114.0	3130.4	3118.7	3123.4	3137.4
5°	3039.3	3046.3	3083.7	3123.4	3139.7	3128.1	3102.4	3093.0	3072.0	3067.3	3062.6
7.5°	3104.7	3116.4	3153.8	3163.1	3114.0	3032.3	2973.9	2941.2	2906.1	2896.8	2892.1
10°	3212.2	3219.2	3228.5	3132.7	3011.2	2901.5	2829.0	2798.7	2775.3	2756.6	2761.3
12.5°	3347.7	3343.0	3270.6	3072.0	2899.1	2787.0	2737.9	2719.2	2702.9	2691.2	2688.9
15°	3518.2	3485.5	3277.6	2987.9	2794.0	2700.5	2665.5	2658.5	2639.8	2639.8	2637.5
17.5°	3691.1	3607.0	3272.9	2899.1	2693.5	2642.1	2621.1	2616.4	2611.8	2609.4	2616.4
20°	3863.9	3714.4	3235.5	2789.3	2623.5	2593.1	2588.4	2590.7	2586.1	2593.1	2588.4
22.5°	4015.8	3784.5	3165.4	2672.5	2574.4	2572.1	2560.4	2565.1	2581.4	2583.7	2590.7
25°	4132.6	3810.2	3062.6	2565.1	2539.4	2534.7	2548.7	2567.4	2581.4	2583.7	2595.4
27.5°	4228.4	3796.2	2934.2	2481.0	2478.6	2504.3	2546.4	2553.4	2555.7	2555.7	2546.4
30°	4300.8	3765.8	2770.6	2387.5	2399.2	2462.3	2502.0	2502.0	2483.3	2478.6	2492.6
32.5°	4317.1	3726.1	2593.1	2291.7	2310.4	2385.2	2434.2	2417.9	2396.9	2396.9	2406.2
35°	4331.2	3672.4	2450.6	2160.9	2188.9	2277.7	2324.4	2291.7	2268.4	2261.4	2259.0
37.5°	4326.5	3651.3	2322.1	1995.0	2032.4	2118.9	2149.2	2118.9	2083.8	2067.5	2088.5
40°	4331.2	3637.3	2160.9	1812.8	1850.2	1901.6	1941.3	1917.9	1885.2	1843.2	1864.2
42.5°	4359.2	3656.0	1983.4	1635.3	1635.3	1663.3	1731.1	1714.7	1635.3	1618.9	1637.6
45°	4508.7	3756.5	1805.8	1457.7	1432.0	1450.7	1520.8	1450.7	1401.7	1401.7	1418.0
47.5°	4870.8	3943.4	1649.3	1301.2	1240.5	1277.9	1296.5	1231.1	1193.8	1184.4	1200.8
50°	5609.0	4317.1	1555.9	1172.7	1098.0	1126.0	1114.3	1112.0	1074.6	1079.3	1088.6
52.5°	6730.3	5046.0	1527.8	1109.7	1016.2	1023.2	1011.5	1016.2	1009.2	1032.6	1039.6
55°	7952.1	5814.6	1562.9	1119.0	960.1	911.1	915.8	939.1	967.2	1004.5	1011.5
57.5°	8865.5	6200.0	1654.0	1182.1	890.1	815.3	827.0	871.4	925.1	955.5	971.8
60°	9545.4	6153.3	1787.1	1198.4	806.0	728.9	749.9	815.3	862.0	887.7	904.1
62.5°	9767.3	5861.3	1819.8	1079.3	696.2	647.1	698.5	766.2	787.3	815.3	827.0
65°	9585.1	5447.8	1581.5	876.0	612.1	586.4	661.1	712.5	740.5	754.6	756.9
66°	9370.1	5200.2	1453.1	796.6	581.7	567.7	647.1	689.2	717.2	714.9	717.2
67.5°	8898.3	4681.6	1245.1	684.5	537.3	539.6	623.7	651.8	661.1	654.1	654.1
70°	7293.3	3296.3	892.4	518.6	471.9	504.6	560.7	567.7	588.7	579.4	579.4
72.5°	4497.0	1618.9	598.0	397.1	420.5	471.9	469.6	492.9	542.0	556.0	565.3
75°	2210.0	656.4	394.8	336.4	376.1	394.8	390.1	448.5	518.6	579.4	600.4
77.5°	838.7	327.1	275.7	294.4	303.7	296.7	310.7	406.5	518.6	628.4	649.4
80°	259.3	226.6	217.3	243.0	228.9	217.3	233.6	336.4	439.2	476.6	476.6
82.5°	156.5	177.5	168.2	165.9	154.2	156.5	168.2	240.6	338.7	355.1	355.1
85°	109.8	116.8	95.8	91.1	88.8	86.4	86.4	140.2	200.9	198.6	205.6
87.5°	42.1	46.7	35.0	35.0	32.7	23.4	18.7	23.4	23.4	16.4	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)