

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: P1210663

Luminaire Tested: **ARCH3-190-740-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-740-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25081 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.4
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

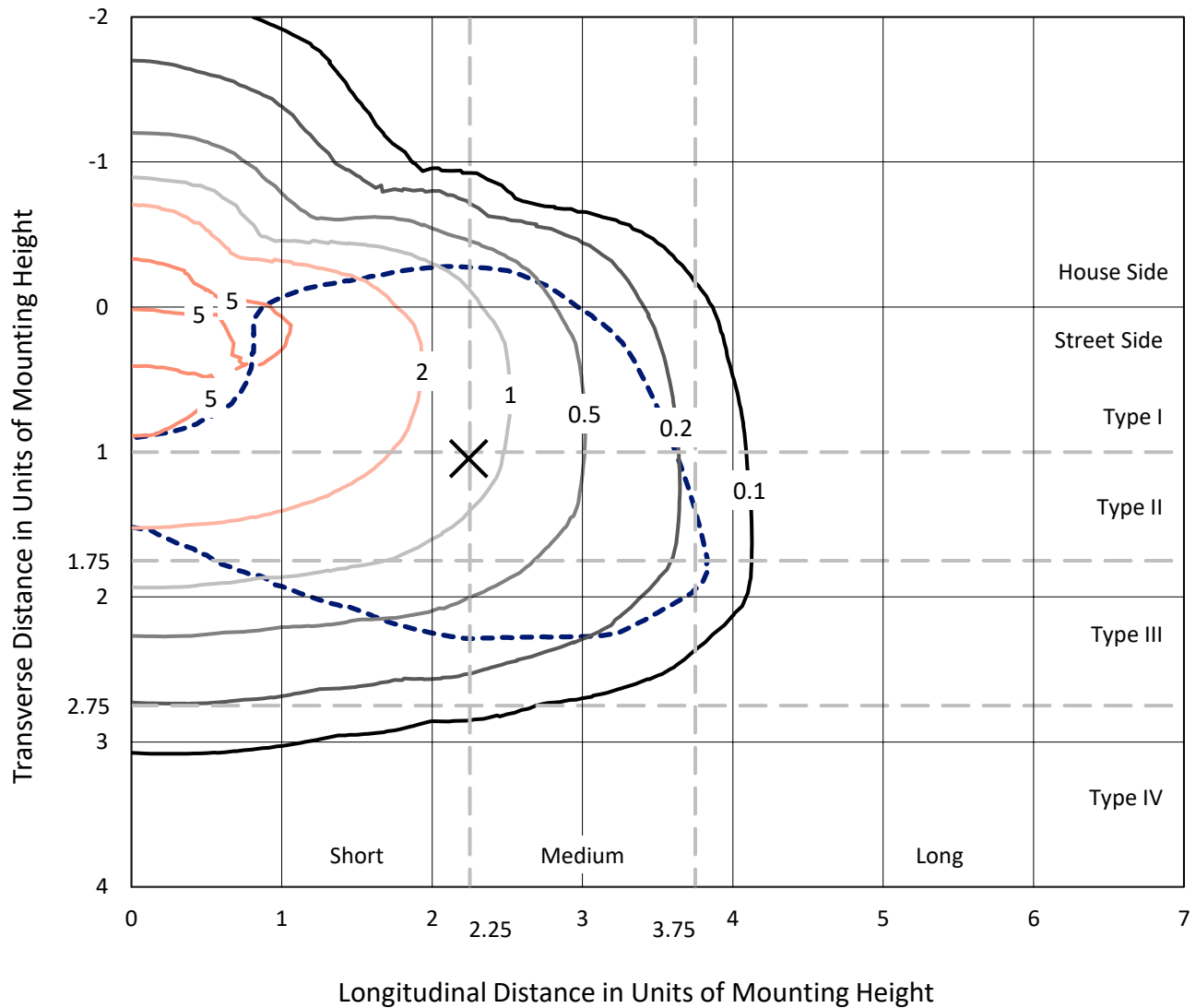


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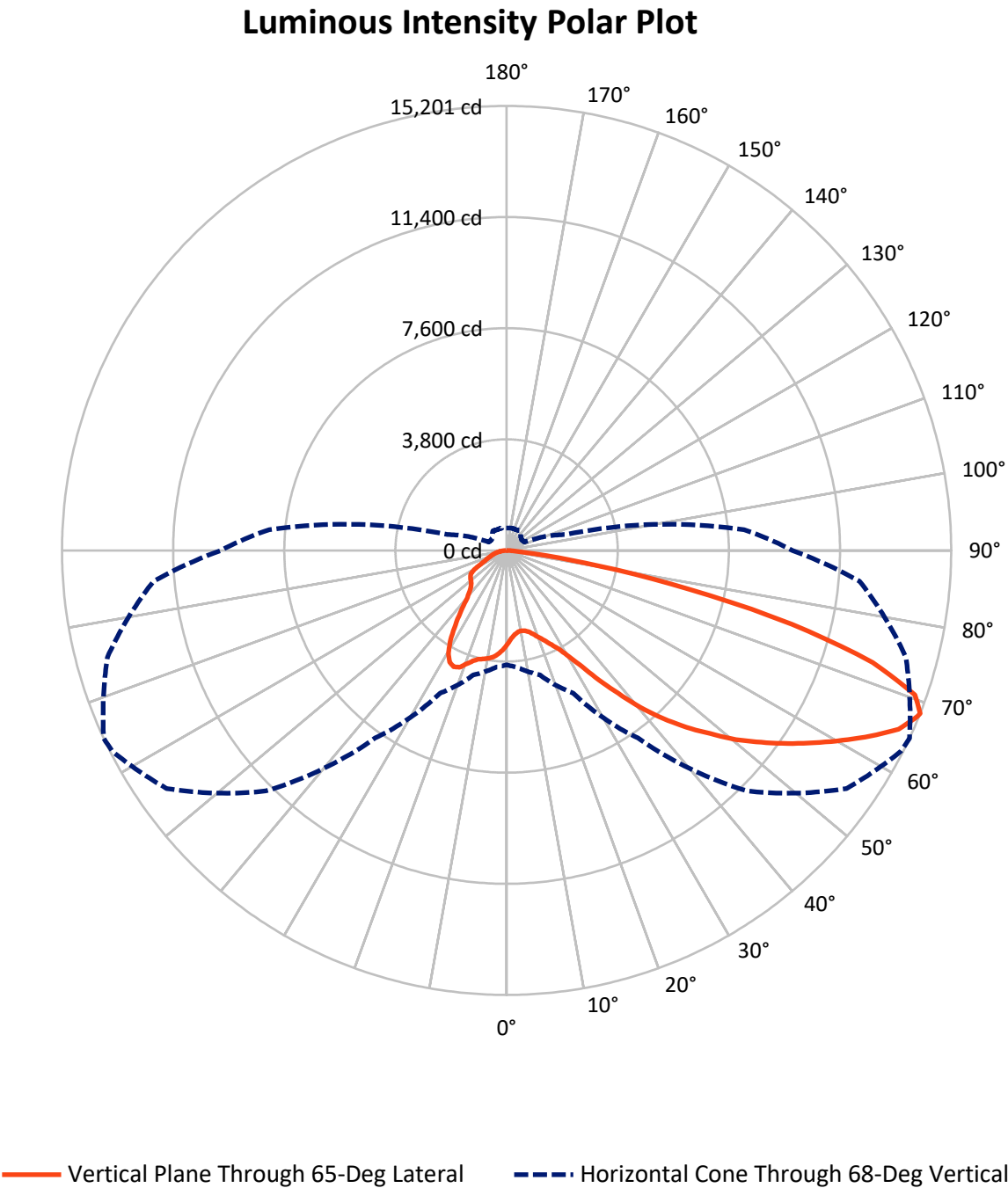
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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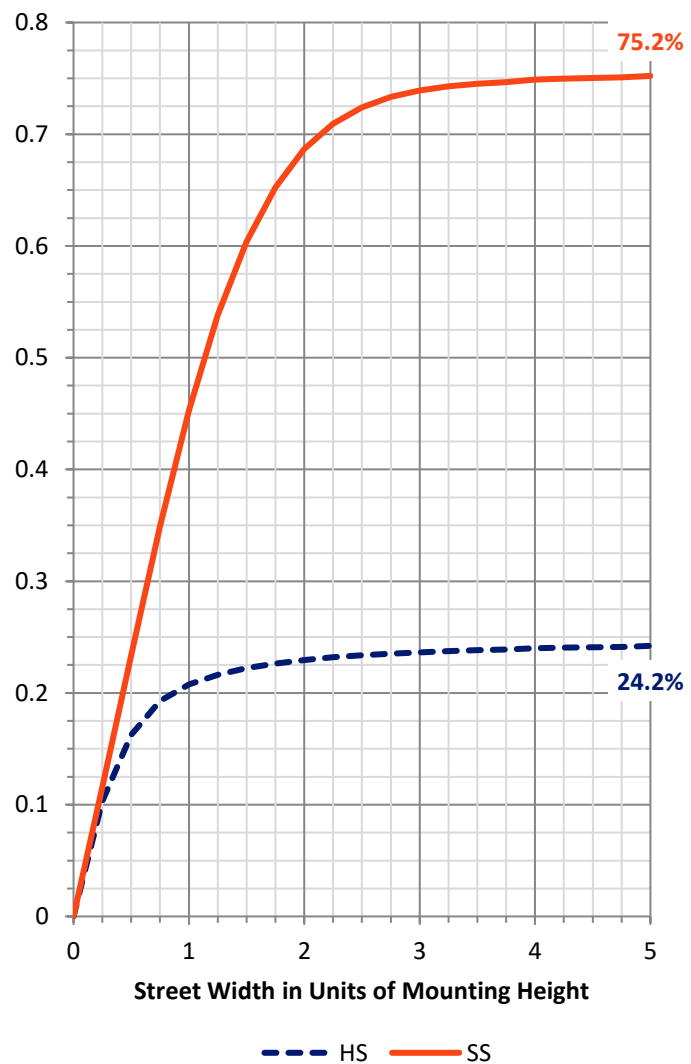
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6149.1	0.0	6149.1
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	18931.9	0.0	18931.9
	% Fixture	75.5	0.0	75.5
Total	Lumens	25081.0	0.0	25081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.3	1.2
10°-20°	997.3	4.0
20°-30°	1805.1	7.2
30°-40°	2839.6	11.3
40°-50°	4229.3	16.9
50°-60°	5547.9	22.1
60°-70°	6067.0	24.2
70°-80°	3002.1	12.0
80°-90°	286.4	1.1
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°	25081.0	100.0
0°-180°	25081.0	100.0

Coefficient of Utilization



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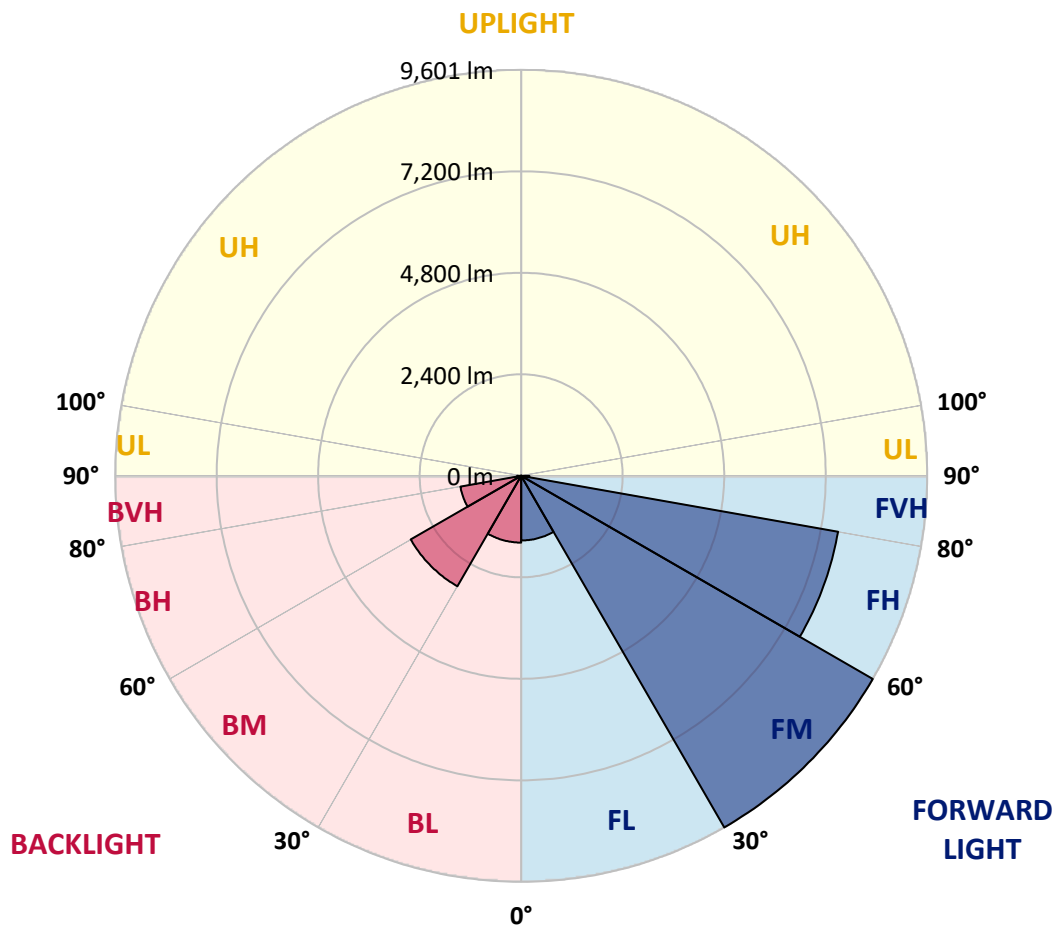
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1529.0	6.1			
FM	(30°-60°)	9600.7	38.3			
FH	(60°-80°)	7609.6	30.3			G4/12000
FVH	(80°-90°)	192.6	0.8			G2/225
BL	(0°-30°)	1579.8	6.3	B3/2500		
BM	(30°-60°)	3016.1	12.0	B3/5000		
BH	(60°-80°)	1459.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	93.8	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0
2.5°	2797.5	2791.1	2807.2	2823.4	2859.0	2901.0	2959.3	3007.8	3014.2	3104.8	3175.9
5°	2632.6	2622.9	2639.1	2658.5	2674.6	2726.4	2787.8	2859.0	2888.1	3020.7	3172.7
7.5°	2648.8	2645.5	2652.0	2645.5	2645.5	2668.2	2710.2	2781.4	2813.7	2972.2	3188.9
10°	2742.6	2749.0	2752.3	2732.9	2713.5	2703.8	2716.7	2765.2	2787.8	2975.4	3260.0
12.5°	2897.8	2907.5	2910.7	2875.2	2849.3	2807.2	2784.6	2804.0	2820.2	3007.8	3360.3
15°	3108.0	3114.5	3091.9	3069.2	3004.5	2952.8	2897.8	2881.6	2888.1	3075.7	3473.5
17.5°	3353.8	3344.1	3344.1	3289.1	3205.0	3124.2	3033.6	3020.7	3020.7	3185.6	3635.2
20°	3622.3	3632.0	3602.8	3528.5	3444.4	3318.2	3227.7	3169.5	3175.9	3311.8	3832.5
22.5°	4010.4	4026.5	3948.9	3842.2	3712.8	3567.3	3437.9	3344.1	3347.3	3476.7	4036.2
25°	4427.6	4434.0	4385.5	4243.2	4068.6	3861.6	3690.2	3570.5	3567.3	3661.1	4298.2
27.5°	4854.5	4883.6	4786.5	4650.7	4489.0	4230.3	4003.9	3842.2	3816.3	3942.4	4624.8
30°	5294.3	5329.9	5236.1	5103.5	4903.0	4683.1	4414.6	4227.0	4210.9	4379.0	5061.5
32.5°	5737.4	5747.1	5672.7	5562.7	5381.6	5174.6	4958.0	4751.0	4734.8	5009.7	5627.4
35°	6099.6	6128.7	6077.0	6051.1	5918.5	5727.7	5517.5	5397.8	5439.8	5792.4	6361.6
37.5°	6536.2	6565.3	6507.1	6500.6	6458.6	6293.7	6148.1	6157.8	6199.9	6678.5	7134.5
40°	7166.9	7199.2	7050.5	6985.8	6985.8	6824.1	6775.6	7005.2	7060.2	7551.8	7939.8
42.5°	7700.5	7752.3	7664.9	7622.9	7496.8	7383.6	7441.8	7765.2	7859.0	8386.2	8641.7
45°	7959.3	7998.1	8101.6	8224.5	8101.6	7904.3	8124.2	8489.7	8622.3	9155.9	9343.5
47.5°	8098.3	8133.9	8253.6	8583.4	8667.5	8502.6	8813.1	9269.1	9359.6	9919.2	10012.9
50°	8117.7	8230.9	8386.2	8716.0	9100.9	9123.5	9505.2	10061.5	10168.2	10669.5	10601.6
52.5°	7959.3	8004.5	8324.7	8881.0	9307.9	9696.0	10258.7	10821.5	10899.1	11374.5	11122.3
55°	7700.5	7765.2	8085.4	8842.2	9508.4	10239.3	11025.2	11568.6	11655.9	12060.2	11604.1
57.5°	7467.7	7500.0	7842.8	8729.0	9708.9	10782.7	11707.6	12348.0	12406.2	12661.7	11959.9
60°	7208.9	7244.5	7587.3	8486.4	9857.7	11193.4	12419.2	13133.9	13185.6	13295.6	12373.9
62.5°	6539.5	6633.3	7063.4	8085.4	9818.9	11662.4	13179.2	13910.1	13974.8	13855.1	12700.5
65°	5310.5	5443.1	5970.2	7176.6	9456.7	11966.4	13800.1	14624.8	14734.8	14275.6	12787.8
67.5°	4123.5	4217.3	4641.0	5695.3	8185.6	11814.4	14201.2	15116.4	15148.8	14207.6	12302.7
68°	3910.1	4003.9	4408.2	5384.9	7833.1	11633.3	14191.5	15129.4	15200.5	14133.3	12115.1
70°	2991.6	3098.3	3483.2	4265.8	6313.1	10481.9	13599.6	14818.9	14809.2	13234.2	10950.8
72.5°	1869.3	1930.8	2196.0	2690.8	4175.3	7975.4	11542.7	13069.2	13095.1	10789.1	8399.1
75°	1186.9	1186.9	1174.0	1303.4	2141.0	4544.0	8580.2	10061.5	10080.9	7555.0	5294.3
77.5°	1031.7	1002.6	863.5	730.9	853.8	1765.8	5077.6	6497.4	6390.7	4068.6	2512.9
80°	870.0	821.5	708.3	588.6	549.8	553.0	1950.2	3298.8	3156.5	1465.1	834.4
82.5°	627.4	585.4	533.6	462.5	423.7	329.9	407.5	954.1	931.4	423.7	271.7
85°	339.6	307.2	300.8	304.0	255.5	203.8	171.4	210.2	210.2	184.3	155.2
87.5°	119.7	87.3	103.5	116.4	100.3	84.1	67.9	80.9	84.1	80.9	74.4
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°	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0
2.5°	3218.0	3250.3	3327.9	3395.9	3444.4	3486.4	3509.1	3518.8	3541.4	3544.6	3538.2
5°	3243.9	3327.9	3444.4	3544.6	3599.6	3622.3	3628.7	3632.0	3622.3	3628.7	3622.3
7.5°	3311.8	3418.5	3583.4	3670.8	3680.5	3644.9	3648.1	3635.2	3648.1	3661.1	3661.1
10°	3415.3	3551.1	3706.3	3738.7	3696.6	3677.2	3716.0	3793.7	3819.5	3855.1	3855.1
12.5°	3551.1	3712.8	3822.8	3793.7	3754.9	3819.5	3932.7	4010.4	4036.2	4049.2	4039.5
15°	3706.3	3881.0	3936.0	3838.9	3910.1	4049.2	4088.0	4042.7	3978.0	3948.9	3965.1
17.5°	3903.6	4049.2	4016.8	3952.1	4113.8	4133.2	4007.1	3861.6	3758.1	3719.3	3745.2
20°	4110.6	4236.7	4088.0	4117.1	4217.3	4010.4	3771.0	3583.4	3492.9	3476.7	3502.6
22.5°	4330.5	4411.4	4159.1	4307.9	4159.1	3738.7	3450.8	3353.8	3331.2	3357.1	3379.7
25°	4579.6	4569.9	4282.0	4366.1	3942.4	3405.6	3234.2	3227.7	3227.7	3243.9	3276.2
27.5°	4860.9	4708.9	4404.9	4288.5	3567.3	3130.7	3098.3	3101.6	3091.9	3095.1	3111.3
30°	5187.6	4896.5	4540.8	4033.0	3146.8	2923.7	2910.7	2901.0	2878.4	2871.9	2878.4
32.5°	5598.3	5093.8	4679.8	3612.6	2778.1	2710.2	2703.8	2652.0	2597.0	2590.6	2613.2
35°	6119.0	5452.8	4751.0	3085.4	2474.1	2470.9	2448.3	2367.4	2296.2	2296.2	2280.1
37.5°	6714.1	5915.3	4780.1	2571.2	2221.9	2238.0	2173.4	2069.9	2014.9	1982.5	1992.2
40°	7322.1	6442.4	4776.8	2121.6	2001.9	2005.2	1956.7	1830.5	1694.7	1613.8	1633.2
42.5°	7907.5	6921.1	4692.8	1882.3	1824.1	1814.4	1775.6	1604.1	1490.9	1426.3	1429.5
45°	8376.5	7415.9	4563.4	1740.0	1662.4	1678.5	1591.2	1487.7	1384.2	1326.0	1322.8
47.5°	8845.4	7791.1	4356.4	1652.7	1542.7	1513.6	1478.0	1406.9	1329.2	1264.6	1267.8
50°	9272.3	8111.3	4162.4	1594.4	1432.7	1358.3	1364.8	1322.8	1254.9	1196.6	1193.4
52.5°	9573.1	8321.5	4055.6	1562.1	1300.1	1219.3	1241.9	1219.3	1154.6	1112.5	1109.3
55°	9873.9	8483.2	4091.2	1520.1	1154.6	1089.9	1128.7	1122.3	1086.7	1073.7	1077.0
57.5°	10116.4	8606.1	4217.3	1442.4	1015.5	976.7	1041.4	1022.0	996.1	999.4	999.4
60°	10352.5	8764.6	4366.1	1264.6	895.9	899.1	960.5	925.0	908.8	937.9	941.1
62.5°	10598.3	8936.0	4243.2	1005.8	792.4	815.0	886.2	857.1	863.5	905.6	918.5
65°	10569.2	8919.8	3457.3	824.7	701.8	747.1	853.8	844.1	847.3	863.5	870.0
67.5°	9974.1	8350.6	2377.1	701.8	637.1	692.1	827.9	789.1	792.4	782.7	785.9
68°	9773.6	8150.1	2095.7	682.4	624.2	679.2	815.0	779.4	782.7	773.0	769.7
70°	8680.5	6979.3	1326.0	601.6	578.9	643.6	750.3	737.4	734.2	727.7	727.7
72.5°	6617.1	5152.0	698.6	520.7	527.2	588.6	669.5	695.3	679.2	682.4	701.8
75°	4382.3	3098.3	485.1	446.3	462.5	504.5	595.1	646.8	630.7	640.4	630.7
77.5°	2318.9	1668.8	388.1	378.4	378.4	407.5	491.6	572.4	572.4	566.0	556.3
80°	760.0	588.6	310.5	297.5	304.0	320.2	394.6	469.0	478.7	465.7	459.2
82.5°	255.5	271.7	232.9	216.7	223.2	236.1	297.5	359.0	362.2	336.4	329.9
85°	158.5	181.1	145.5	142.3	142.3	145.5	181.1	197.3	181.1	161.7	168.2
87.5°	74.4	90.6	67.9	58.2	48.5	42.0	32.3	12.9	12.9	6.5	6.5
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)