

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: P1210437

Luminaire Tested: **ARCH3-120-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210437
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: ARCH3-120-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18694 lumens
Efficiency: N/A
Efficacy: 152.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.7
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

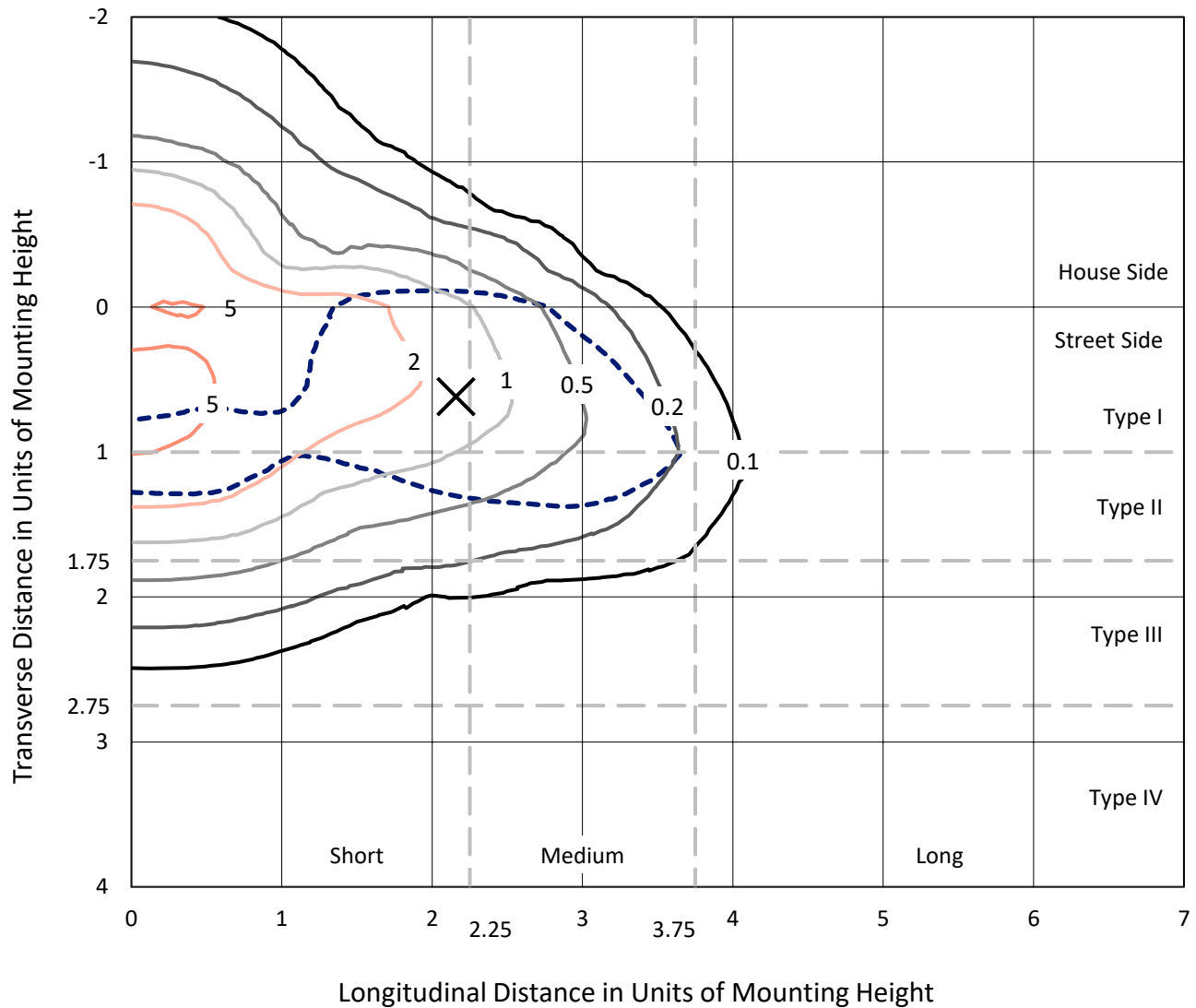


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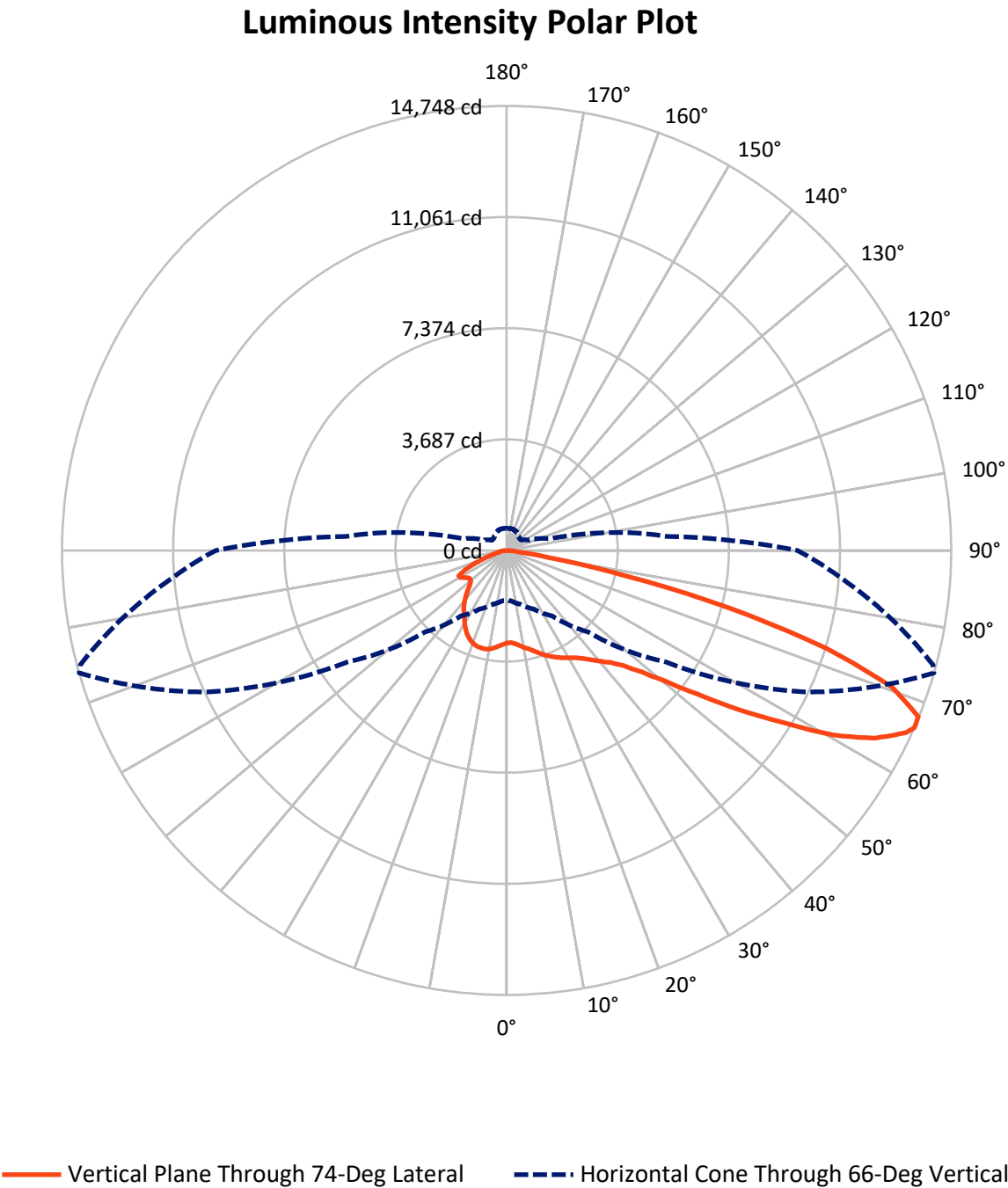
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Short - N/A

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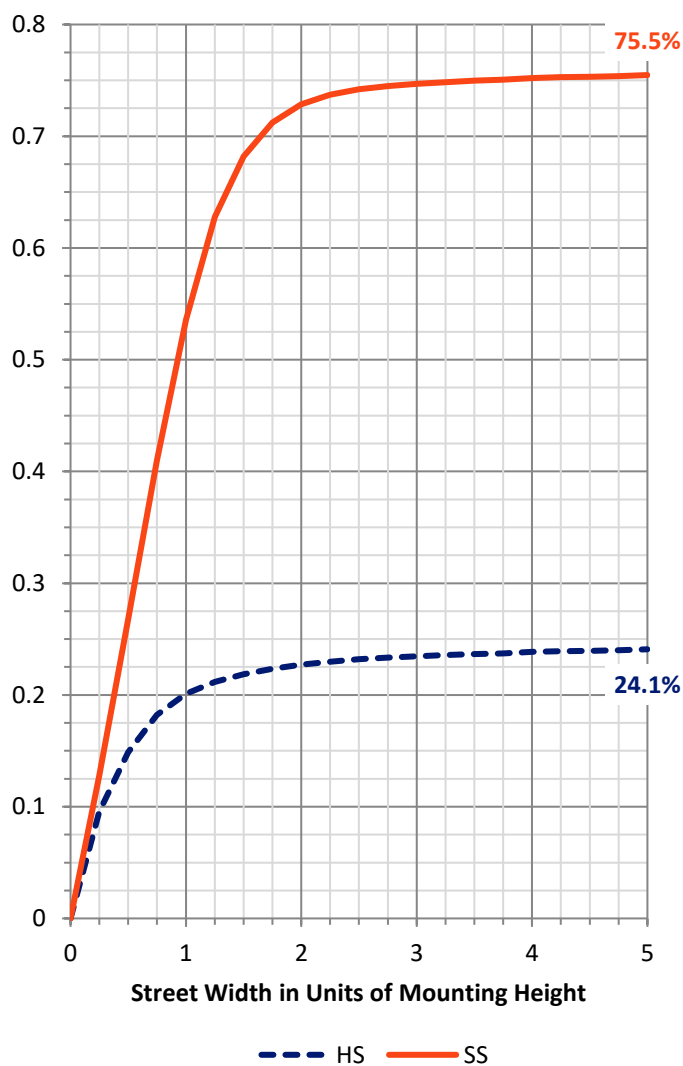
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4552.5	0.0	4552.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	14141.5	0.0	14141.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	18694.0	0.0	18694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.3	1.6
10°-20°	899.0	4.8
20°-30°	1686.9	9.0
30°-40°	2594.9	13.9
40°-50°	3490.4	18.7
50°-60°	4127.8	22.1
60°-70°	3818.4	20.4
70°-80°	1606.4	8.6
80°-90°	177.8	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°	18694.0	100.0
0°-180°	18694.0	100.0

Coefficient of Utilization



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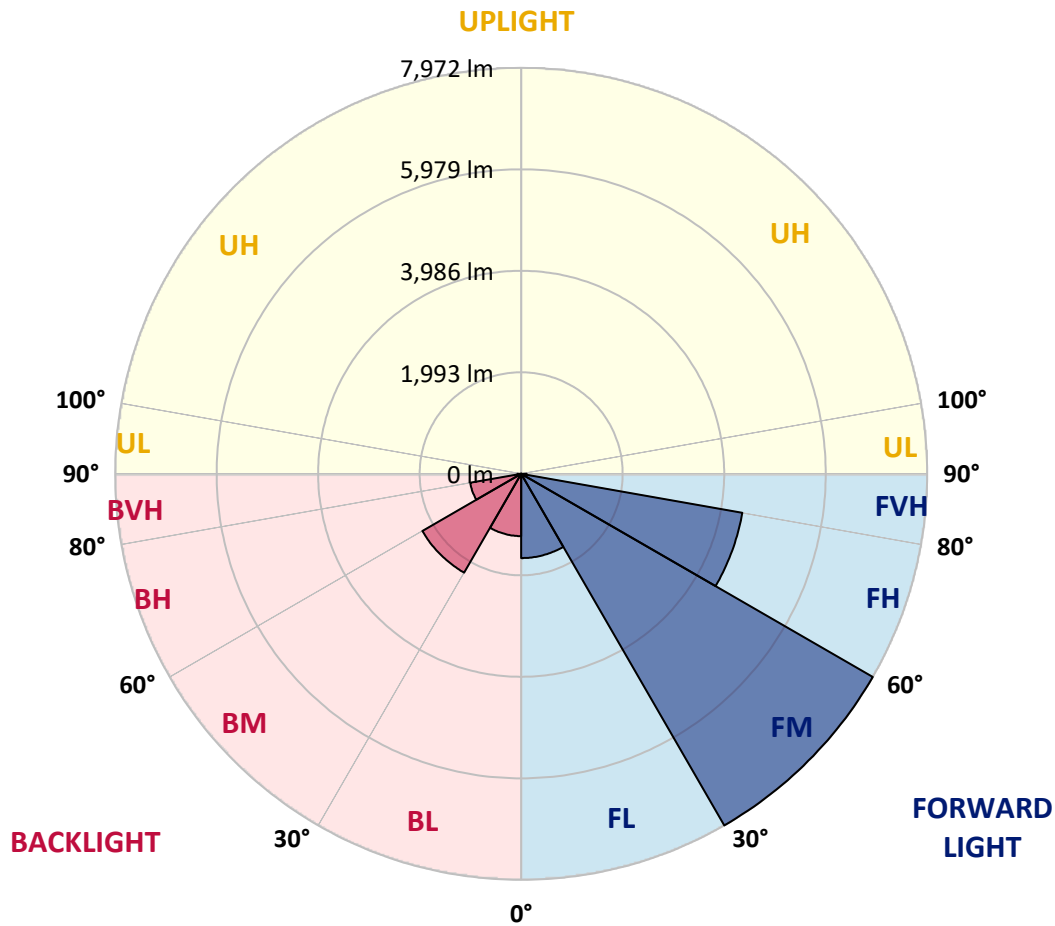
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1654.6	8.9			
FM	(30°-60°)	7971.9	42.6			
FH	(60°-80°)	4408.6	23.6			G2/5000
FVH	(80°-90°)	106.4	0.6			G2/225
BL	(0°-30°)	1223.6	6.5	B3/2500		
BM	(30°-60°)	2241.2	12.0	B2/2500		
BH	(60°-80°)	1016.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	71.4	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3064.6	3064.6	3064.6	3064.6	3064.6	3064.6	3064.6	3064.6	3064.6	3064.6	3064.6
2.5°	3054.9	3050.1	3059.8	3074.2	3081.4	3069.4	3064.6	3062.2	3062.2	3054.9	3067.0
5°	2910.6	2908.2	2929.9	2956.3	3006.8	3042.9	3091.0	3119.9	3110.3	3095.8	3105.5
7.5°	2723.0	2718.2	2744.6	2795.2	2864.9	2944.3	3062.2	3153.6	3189.7	3184.8	3182.4
10°	2795.2	2790.3	2787.9	2773.5	2797.6	2874.5	2997.2	3158.4	3281.1	3283.5	3285.9
12.5°	3045.3	3057.4	3045.3	2999.6	2946.7	2917.8	2990.0	3170.4	3358.0	3372.5	3432.6
15°	3386.9	3374.9	3350.8	3297.9	3216.1	3129.5	3076.6	3225.7	3468.7	3480.7	3613.0
17.5°	3687.6	3697.2	3682.8	3632.3	3536.0	3423.0	3261.8	3322.0	3586.6	3620.2	3805.5
20°	4014.7	4053.2	4034.0	3971.4	3892.0	3723.7	3521.6	3461.5	3716.5	3740.5	4005.1
22.5°	4392.4	4433.3	4397.2	4337.1	4272.1	4065.2	3805.5	3632.3	3824.7	3875.2	4197.5
25°	4844.6	4883.1	4849.4	4755.6	4673.8	4421.3	4110.9	3824.7	3930.5	3985.9	4353.9
27.5°	5203.0	5231.9	5263.2	5207.8	5082.8	4820.6	4428.5	4024.4	4036.4	4094.1	4498.2
30°	5523.0	5595.1	5621.6	5628.8	5523.0	5229.5	4753.2	4231.2	4127.8	4187.9	4642.6
32.5°	5960.8	6069.0	6025.7	6069.0	6006.5	5614.4	5090.0	4445.3	4245.7	4301.0	4779.7
35°	6600.6	6687.2	6574.1	6540.5	6439.4	6004.1	5414.7	4666.6	4402.0	4462.1	4909.6
37.5°	7288.6	7387.2	7223.6	7088.9	6896.5	6388.9	5693.7	4957.7	4618.5	4666.6	5029.8
40°	7889.9	7971.7	7829.8	7651.8	7329.5	6728.1	5934.3	5162.1	4835.0	4895.1	5169.4
42.5°	8445.6	8498.5	8339.8	8169.0	7738.4	7033.6	6194.1	5378.6	5087.6	5145.3	5282.4
45°	9008.5	9049.4	8828.1	8585.1	8080.0	7312.6	6480.3	5681.7	5458.0	5535.0	5465.2
47.5°	9109.5	9121.5	9083.1	8919.5	8349.4	7579.6	6833.9	6088.2	6023.3	6107.5	5780.3
50°	8409.5	8517.8	8755.9	8917.1	8457.6	7803.3	7187.5	6670.4	6802.7	6910.9	6434.6
52.5°	7050.4	7153.9	7704.7	8315.7	8197.8	7853.9	7567.6	7408.8	7902.0	8031.9	7324.7
55°	5616.8	5708.2	6290.3	7170.7	7358.3	7622.9	7974.1	8351.8	9304.4	9391.0	8301.3
57.5°	4625.7	4676.2	5092.4	5939.1	6239.8	6884.5	8193.0	9472.7	10730.8	10863.1	9150.4
60°	3793.4	3848.8	4159.1	4856.6	5256.0	5828.5	8019.8	10579.3	12433.9	12433.9	10240.1
62.5°	2855.3	2903.4	3192.1	3738.1	4409.2	4933.6	7466.6	11312.9	13718.4	13660.7	11029.1
65°	1960.5	1998.9	2208.2	2571.4	3175.2	4204.8	6711.3	11322.5	14569.9	14493.0	11365.8
66°	1645.3	1679.0	1857.0	2150.5	2658.0	3815.1	6444.3	11118.1	14747.9	14639.7	11223.9
67.5°	1299.0	1323.0	1440.9	1614.1	1948.4	3088.6	6023.3	10538.4	14731.1	14666.1	10863.1
70°	928.5	945.3	1031.9	1068.0	1152.2	1787.3	4784.5	9229.8	13550.0	13569.3	9443.9
72.5°	719.2	745.7	798.6	805.8	786.6	950.2	2903.4	7699.9	11084.4	11077.2	7009.5
75°	579.7	594.2	620.6	635.0	630.2	613.4	1229.2	5744.3	7630.1	7719.2	3925.7
77.5°	457.0	454.6	478.7	497.9	512.4	481.1	562.9	3367.7	4000.3	3887.2	1474.6
80°	336.8	336.8	370.4	377.7	399.3	404.1	375.3	1299.0	1373.5	1248.4	382.5
82.5°	221.3	221.3	257.4	262.2	283.8	315.1	271.8	389.7	380.1	360.8	173.2
85°	120.3	115.5	127.5	144.3	156.4	185.2	163.6	194.8	199.7	197.2	115.5
87.5°	24.1	21.6	33.7	38.5	43.3	57.7	52.9	79.4	110.7	108.2	50.5
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°	3064.6	3064.6	3064.6	3064.6	3064.6	3064.6	3064.6	3064.6	3064.6	3064.6	3064.6
2.5°	3083.8	3081.4	3107.9	3139.1	3175.2	3196.9	3206.5	3223.3	3211.3	3216.1	3230.5
5°	3129.5	3136.7	3175.2	3216.1	3233.0	3220.9	3194.5	3184.8	3163.2	3158.4	3153.6
7.5°	3196.9	3208.9	3247.4	3257.0	3206.5	3122.3	3062.2	3028.5	2992.4	2982.8	2978.0
10°	3307.5	3314.7	3324.4	3225.7	3100.7	2987.6	2913.0	2881.8	2857.7	2838.5	2843.3
12.5°	3447.0	3442.2	3367.7	3163.2	2985.2	2869.7	2819.2	2800.0	2783.1	2771.1	2768.7
15°	3622.6	3589.0	3374.9	3076.6	2876.9	2780.7	2744.6	2737.4	2718.2	2718.2	2715.8
17.5°	3800.6	3714.0	3370.1	2985.2	2773.5	2720.6	2698.9	2694.1	2689.3	2686.9	2694.1
20°	3978.6	3824.7	3331.6	2872.1	2701.3	2670.1	2665.3	2667.7	2662.9	2670.1	2665.3
22.5°	4135.0	3896.9	3259.4	2751.9	2650.8	2648.4	2636.4	2641.2	2658.0	2660.4	2667.7
25°	4255.3	3923.3	3153.6	2641.2	2614.7	2609.9	2624.4	2643.6	2658.0	2660.4	2672.5
27.5°	4353.9	3908.9	3021.3	2554.6	2552.2	2578.7	2622.0	2629.2	2631.6	2631.6	2622.0
30°	4428.5	3877.6	2852.9	2458.4	2470.4	2535.4	2576.3	2576.3	2557.0	2552.2	2566.6
32.5°	4445.3	3836.7	2670.1	2359.8	2379.0	2456.0	2506.5	2489.7	2468.0	2468.0	2477.6
35°	4459.7	3781.4	2523.3	2225.1	2253.9	2345.3	2393.4	2359.8	2335.7	2328.5	2326.1
37.5°	4454.9	3759.7	2391.0	2054.3	2092.8	2181.8	2213.0	2181.8	2145.7	2128.8	2150.5
40°	4459.7	3745.3	2225.1	1866.6	1905.1	1958.1	1998.9	1974.9	1941.2	1897.9	1919.6
42.5°	4488.6	3764.6	2042.2	1683.8	1683.8	1712.7	1782.5	1765.6	1683.8	1667.0	1686.2
45°	4642.6	3868.0	1859.4	1501.0	1474.6	1493.8	1566.0	1493.8	1443.3	1443.3	1460.1
47.5°	5015.4	4060.4	1698.3	1339.8	1277.3	1315.8	1335.0	1267.7	1229.2	1219.6	1236.4
50°	5775.5	4445.3	1602.0	1207.5	1130.6	1159.4	1147.4	1145.0	1106.5	1111.3	1120.9
52.5°	6930.2	5195.8	1573.2	1142.6	1046.4	1053.6	1041.6	1046.4	1039.2	1063.2	1070.4
55°	8188.2	5987.2	1609.3	1152.2	988.6	938.1	942.9	967.0	995.9	1034.4	1041.6
57.5°	9128.8	6384.1	1703.1	1217.2	916.5	839.5	851.5	897.2	952.6	983.8	1000.7
60°	9828.7	6336.0	1840.2	1234.0	829.9	750.5	772.2	839.5	887.6	914.1	930.9
62.5°	10057.3	6035.3	1873.9	1111.3	716.8	666.3	719.2	789.0	810.6	839.5	851.5
65°	9869.6	5609.6	1628.5	902.1	630.2	603.8	680.7	733.7	762.5	777.0	779.4
66°	9648.3	5354.6	1496.2	820.3	599.0	584.5	666.3	709.6	738.5	736.1	738.5
67.5°	9162.4	4820.6	1282.1	704.8	553.3	555.7	642.3	671.1	680.7	673.5	673.5
70°	7509.9	3394.1	918.9	534.0	485.9	519.6	577.3	584.5	606.2	596.6	596.6
72.5°	4630.5	1667.0	615.8	408.9	433.0	485.9	483.5	507.6	558.1	572.5	582.1
75°	2275.6	675.9	406.5	346.4	387.3	406.5	401.7	461.9	534.0	596.6	618.2
77.5°	863.6	336.8	283.8	303.1	312.7	305.5	319.9	418.6	534.0	647.1	668.7
80°	267.0	233.3	223.7	250.2	235.7	223.7	240.5	346.4	452.2	490.7	490.7
82.5°	161.2	182.8	173.2	170.8	158.8	161.2	173.2	247.8	348.8	365.6	365.6
85°	113.1	120.3	98.6	93.8	91.4	89.0	89.0	144.3	206.9	204.5	211.7
87.5°	43.3	48.1	36.1	36.1	33.7	24.1	19.2	24.1	24.1	16.8	12.0
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)