

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: P1210553

Luminaire Tested: **ARCH3-160-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210553
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: ARCH3-160-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20876 lumens
Efficiency: N/A
Efficacy: 129.7 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): 161
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



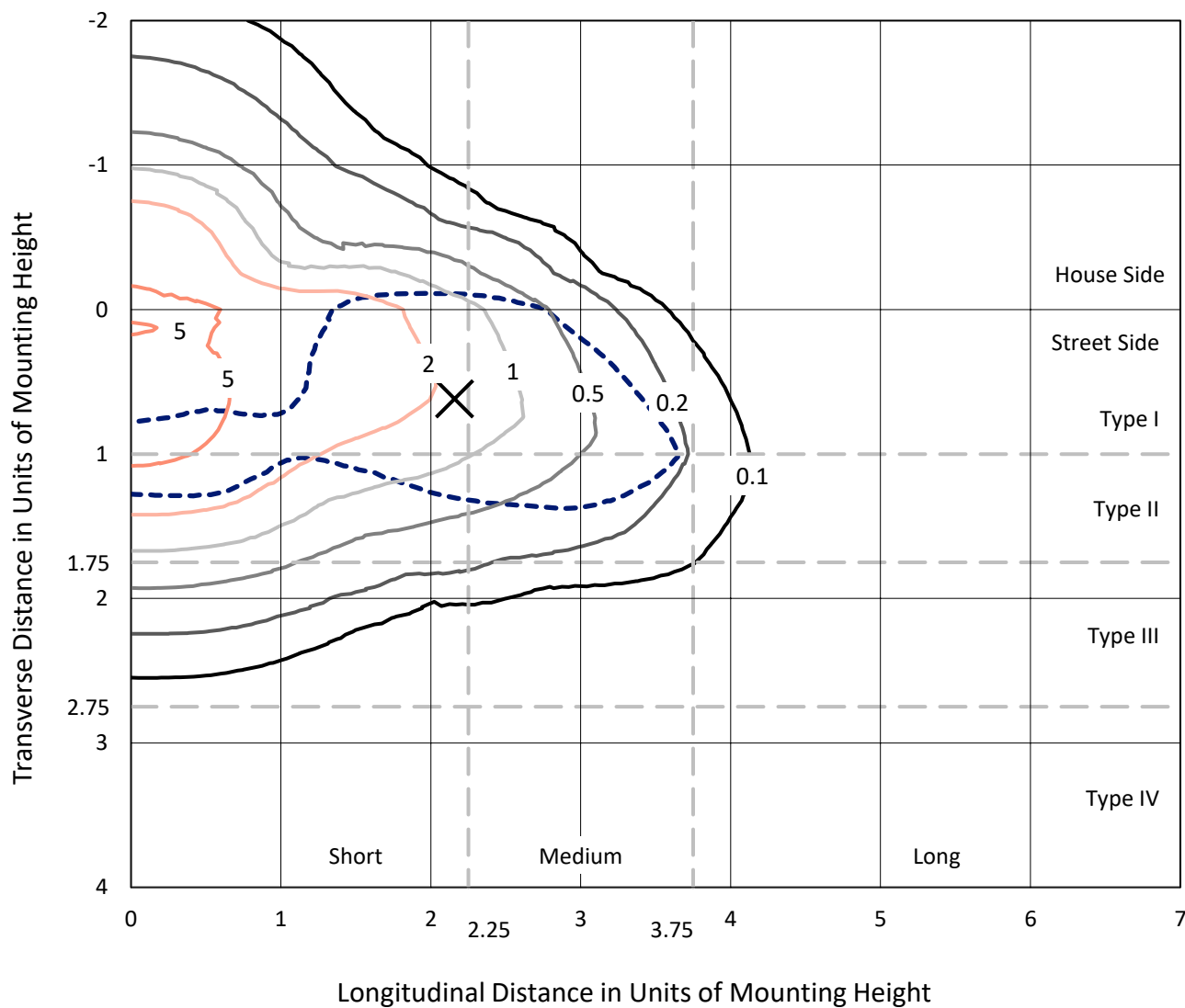
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

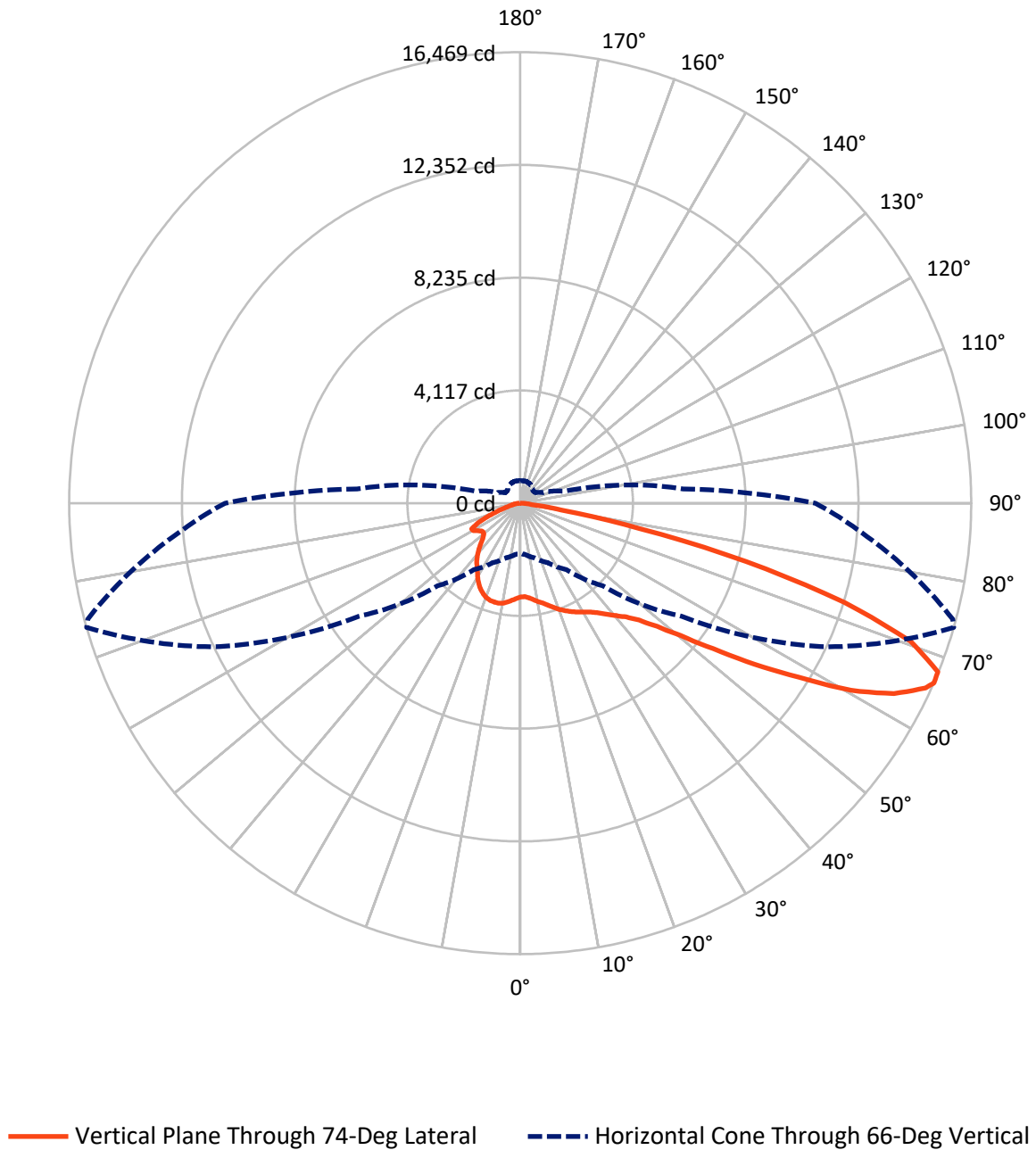
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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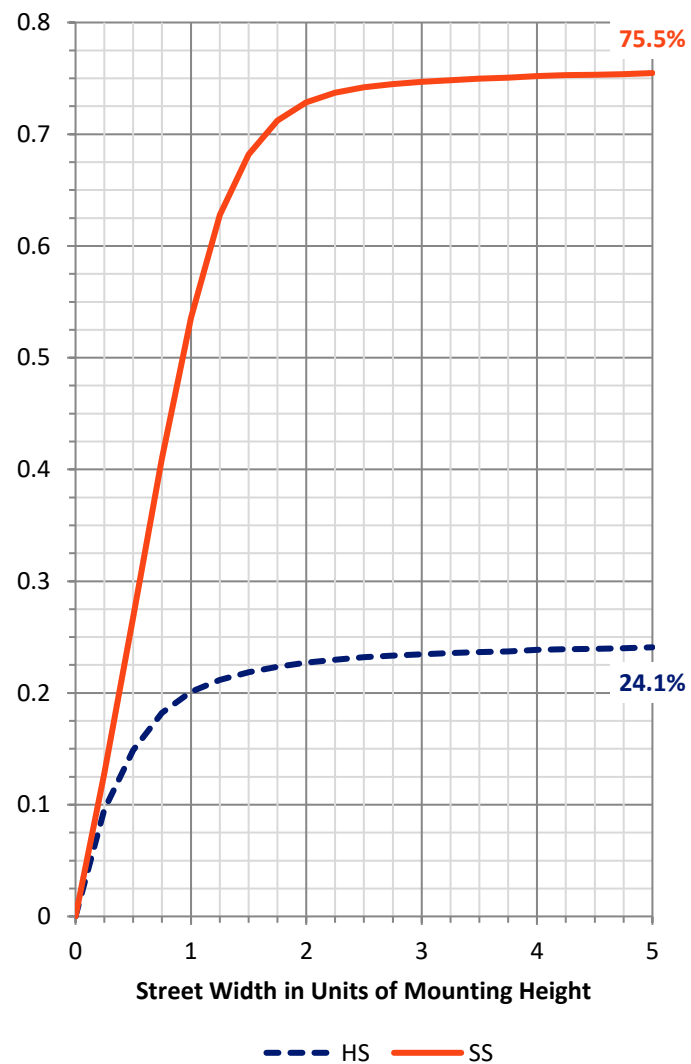
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5083.9	0.0	5083.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	15792.1	0.0	15792.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	20876.0	0.0	20876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.5	1.6
10°-20°	1003.9	4.8
20°-30°	1883.8	9.0
30°-40°	2897.8	13.9
40°-50°	3897.8	18.7
50°-60°	4609.6	22.1
60°-70°	4264.1	20.4
70°-80°	1793.9	8.6
80°-90°	198.5	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°	20876.0	100.0
0°-180°	20876.0	100.0

Coefficient of Utilization



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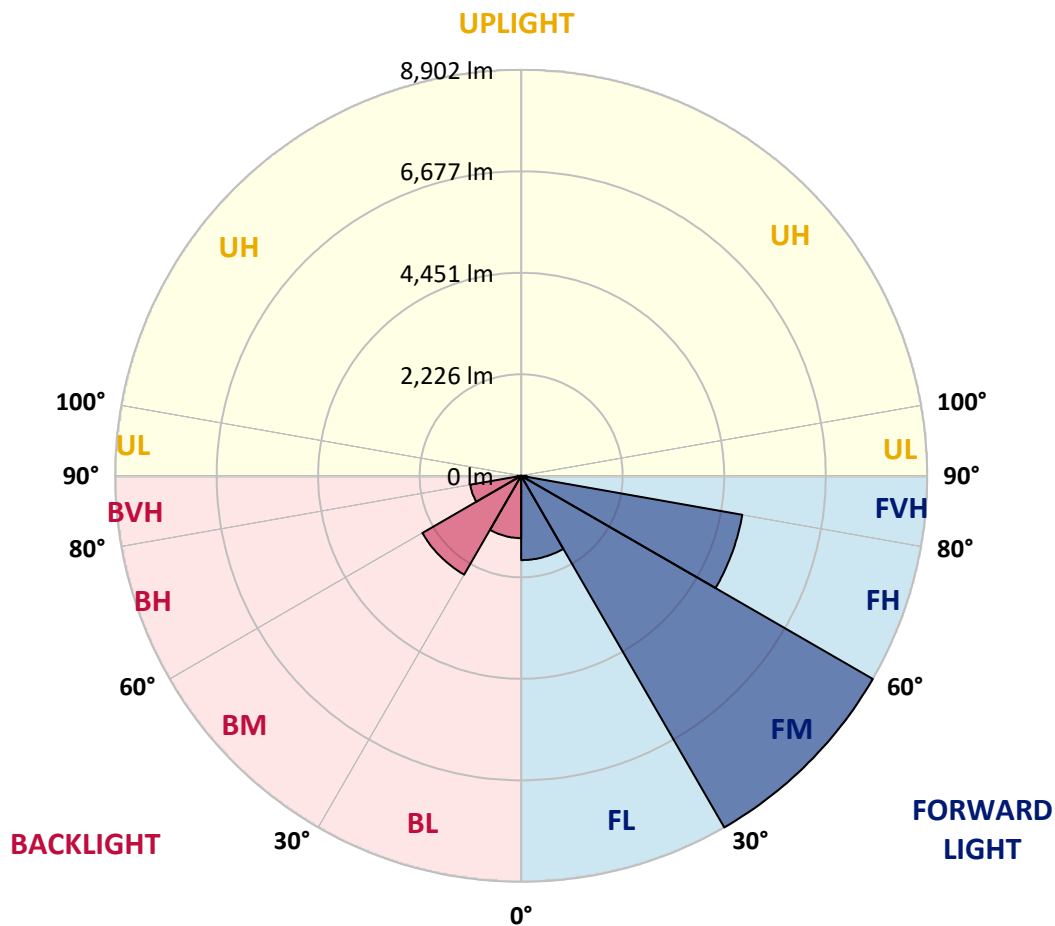
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1847.8	8.9			
FM	(30°-60°)	8902.4	42.6			
FH	(60°-80°)	4923.1	23.6			G2/5000
FVH	(80°-90°)	118.8	0.6			G2/225
BL	(0°-30°)	1366.4	6.5	B3/2500		
BM	(30°-60°)	2502.8	12.0	B3/5000		
BH	(60°-80°)	1134.9	5.4	B3/2500		G3/2500
BVH	(80°-90°)	79.7	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°	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3
2.5°	3411.5	3406.2	3416.9	3433.0	3441.1	3427.6	3422.3	3419.6	3419.6	3411.5	3425.0
5°	3250.4	3247.7	3271.8	3301.4	3357.8	3398.1	3451.8	3484.1	3473.3	3457.2	3467.9
7.5°	3040.8	3035.5	3065.0	3121.4	3199.3	3288.0	3419.6	3521.7	3562.0	3556.6	3553.9
10°	3121.4	3116.0	3113.4	3097.2	3124.1	3210.1	3347.1	3527.0	3664.0	3666.7	3669.4
12.5°	3400.8	3414.2	3400.8	3349.7	3290.6	3258.4	3339.0	3540.5	3750.0	3766.1	3833.3
15°	3782.2	3768.8	3741.9	3682.8	3591.5	3494.8	3435.7	3602.2	3873.6	3887.0	4034.7
17.5°	4118.0	4128.8	4112.6	4056.2	3948.8	3822.5	3642.5	3709.7	4005.2	4042.8	4249.6
20°	4483.3	4526.3	4504.8	4435.0	4346.3	4158.3	3932.7	3865.5	4150.2	4177.1	4472.6
22.5°	4905.1	4950.7	4910.4	4843.3	4770.8	4539.7	4249.6	4056.2	4271.1	4327.5	4687.5
25°	5410.1	5453.1	5415.5	5310.7	5219.4	4937.3	4590.8	4271.1	4389.3	4451.1	4862.1
27.5°	5810.3	5842.6	5877.5	5815.7	5676.0	5383.2	4945.4	4494.1	4507.5	4572.0	5023.3
30°	6167.6	6248.2	6277.7	6285.8	6167.6	5839.9	5308.0	4725.1	4609.6	4676.7	5184.4
32.5°	6656.5	6777.4	6729.0	6777.4	6707.5	6269.7	5684.1	4964.2	4741.2	4803.0	5337.6
35°	7371.0	7467.7	7341.5	7303.9	7191.1	6704.9	6046.7	5211.3	4915.8	4983.0	5482.6
37.5°	8139.3	8249.4	8066.8	7916.4	7701.5	7134.7	6358.3	5536.3	5157.6	5211.3	5616.9
40°	8810.9	8902.2	8743.7	8544.9	8185.0	7513.4	6627.0	5764.7	5399.3	5466.5	5772.7
42.5°	9431.4	9490.5	9313.2	9122.5	8641.6	7854.6	6917.1	6006.4	5681.4	5745.9	5899.0
45°	10060.0	10105.6	9858.5	9587.2	9023.1	8166.2	7236.7	6344.9	6095.1	6181.0	6103.1
47.5°	10172.8	10186.2	10143.2	9960.6	9323.9	8464.3	7631.6	6798.9	6726.3	6820.4	6455.0
50°	9391.1	9512.0	9777.9	9957.9	9444.8	8714.2	8026.5	7448.9	7596.7	7717.6	7185.7
52.5°	7873.4	7988.9	8604.0	9286.3	9154.7	8770.6	8450.9	8273.6	8824.3	8969.4	8179.6
55°	6272.4	6374.4	7024.5	8007.7	8217.2	8512.7	8904.9	9326.6	10390.4	10487.1	9270.2
57.5°	5165.6	5222.1	5686.8	6632.3	6968.1	7688.0	9149.3	10578.4	11983.3	12131.1	10218.5
60°	4236.2	4298.0	4644.5	5423.5	5869.4	6508.8	8955.9	11814.1	13885.2	13885.2	11435.3
62.5°	3188.6	3242.3	3564.6	4174.4	4923.9	5509.5	8338.1	12633.4	15319.6	15255.2	12316.4
65°	2189.3	2232.3	2466.0	2871.6	3545.8	4695.5	7494.6	12644.1	16270.6	16184.6	12692.5
66°	1837.4	1875.0	2073.8	2401.5	2968.3	4260.4	7196.4	12415.8	16469.3	16348.5	12534.0
67.5°	1450.6	1477.4	1609.1	1802.5	2175.9	3449.1	6726.3	11768.4	16450.5	16378.0	12131.1
70°	1036.9	1055.7	1152.4	1192.7	1286.7	1995.9	5342.9	10307.1	15131.6	15153.1	10546.2
72.5°	803.2	832.7	891.8	899.9	878.4	1061.1	3242.3	8598.7	12378.2	12370.1	7827.7
75°	647.4	663.5	693.1	709.2	703.8	685.0	1372.7	6414.7	8520.8	8620.1	4383.9
77.5°	510.4	507.7	534.6	556.1	572.2	537.2	628.6	3760.7	4467.2	4341.0	1646.7
80°	376.1	376.1	413.7	421.7	445.9	451.3	419.1	1450.6	1533.8	1394.2	427.1
82.5°	247.1	247.1	287.4	292.8	317.0	351.9	303.5	435.2	424.4	402.9	193.4
85°	134.3	128.9	142.4	161.2	174.6	206.8	182.7	217.6	223.0	220.3	128.9
87.5°	26.9	24.2	37.6	43.0	48.4	64.5	59.1	88.6	123.6	120.9	56.4
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°	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3
2.5°	3443.8	3441.1	3470.6	3505.5	3545.8	3570.0	3580.8	3599.6	3586.1	3591.5	3607.6
5°	3494.8	3502.9	3545.8	3591.5	3610.3	3596.9	3567.3	3556.6	3532.4	3527.0	3521.7
7.5°	3570.0	3583.4	3626.4	3637.2	3580.8	3486.7	3419.6	3382.0	3341.7	3330.9	3325.6
10°	3693.6	3701.6	3712.4	3602.2	3462.6	3336.3	3253.0	3218.1	3191.3	3169.8	3175.1
12.5°	3849.4	3844.0	3760.7	3532.4	3333.6	3204.7	3148.3	3126.8	3108.0	3094.5	3091.9
15°	4045.5	4007.9	3768.8	3435.7	3212.7	3105.3	3065.0	3056.9	3035.5	3035.5	3032.8
17.5°	4244.3	4147.6	3763.4	3333.6	3097.2	3038.1	3014.0	3008.6	3003.2	3000.5	3008.6
20°	4443.0	4271.1	3720.4	3207.4	3016.6	2981.7	2976.4	2979.0	2973.7	2981.7	2976.4
22.5°	4617.6	4351.7	3639.9	3073.1	2960.2	2957.6	2944.1	2949.5	2968.3	2971.0	2979.0
25°	4752.0	4381.3	3521.7	2949.5	2919.9	2914.6	2930.7	2952.2	2968.3	2971.0	2984.4
27.5°	4862.1	4365.1	3373.9	2852.8	2850.1	2879.6	2928.0	2936.1	2938.7	2938.7	2928.0
30°	4945.4	4330.2	3185.9	2745.3	2758.8	2831.3	2877.0	2877.0	2855.5	2850.1	2866.2
32.5°	4964.2	4284.6	2981.7	2635.2	2656.7	2742.7	2799.1	2780.3	2756.1	2756.1	2766.8
35°	4980.3	4222.8	2817.9	2484.8	2517.0	2619.1	2672.8	2635.2	2608.3	2600.3	2597.6
37.5°	4974.9	4198.6	2670.1	2294.0	2337.0	2436.4	2471.3	2436.4	2396.1	2377.3	2401.5
40°	4980.3	4182.5	2484.8	2084.5	2127.5	2186.6	2232.3	2205.4	2167.8	2119.4	2143.6
42.5°	5012.5	4204.0	2280.6	1880.4	1880.4	1912.6	1990.5	1971.7	1880.4	1861.6	1883.1
45°	5184.4	4319.5	2076.5	1676.2	1646.7	1668.2	1748.7	1668.2	1611.7	1611.7	1630.5
47.5°	5600.8	4534.4	1896.5	1496.2	1426.4	1469.4	1490.9	1415.6	1372.7	1361.9	1380.7
50°	6449.7	4964.2	1789.0	1348.5	1262.5	1294.8	1281.3	1278.7	1235.7	1241.0	1251.8
52.5°	7739.1	5802.3	1756.8	1276.0	1168.5	1176.6	1163.1	1168.5	1160.5	1187.3	1195.4
55°	9144.0	6686.1	1797.1	1286.7	1104.0	1047.6	1053.0	1079.9	1112.1	1155.1	1163.1
57.5°	10194.3	7129.3	1901.9	1359.2	1023.5	937.5	950.9	1002.0	1063.8	1098.7	1117.5
60°	10976.0	7075.6	2055.0	1378.0	926.8	838.1	862.3	937.5	991.2	1020.8	1039.6
62.5°	11231.2	6739.8	2092.6	1241.0	800.5	744.1	803.2	881.1	905.3	937.5	950.9
65°	11021.6	6264.3	1818.6	1007.3	703.8	674.2	760.2	819.3	851.5	867.7	870.3
66°	10774.5	5979.6	1670.8	916.0	668.9	652.8	744.1	792.4	824.7	822.0	824.7
67.5°	10231.9	5383.2	1431.8	787.1	617.8	620.5	717.2	749.5	760.2	752.1	752.1
70°	8386.4	3790.3	1026.1	596.3	542.6	580.2	644.7	652.8	676.9	666.2	666.2
72.5°	5171.0	1861.6	687.7	456.7	483.5	542.6	539.9	566.8	623.2	639.3	650.1
75°	2541.2	754.8	454.0	386.8	432.5	454.0	448.6	515.8	596.3	666.2	690.4
77.5°	964.4	376.1	317.0	338.5	349.2	341.2	357.3	467.4	596.3	722.6	746.8
80°	298.2	260.6	249.8	279.4	263.3	249.8	268.6	386.8	505.0	548.0	548.0
82.5°	180.0	204.2	193.4	190.7	177.3	180.0	193.4	276.7	389.5	408.3	408.3
85°	126.3	134.3	110.1	104.8	102.1	99.4	99.4	161.2	231.0	228.3	236.4
87.5°	48.4	53.7	40.3	40.3	37.6	26.9	21.5	26.9	26.9	18.8	13.4
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)