

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: P1211413

Luminaire Tested: **ARCH4-270-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211413
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: ARCH4-270-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32597 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 269
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



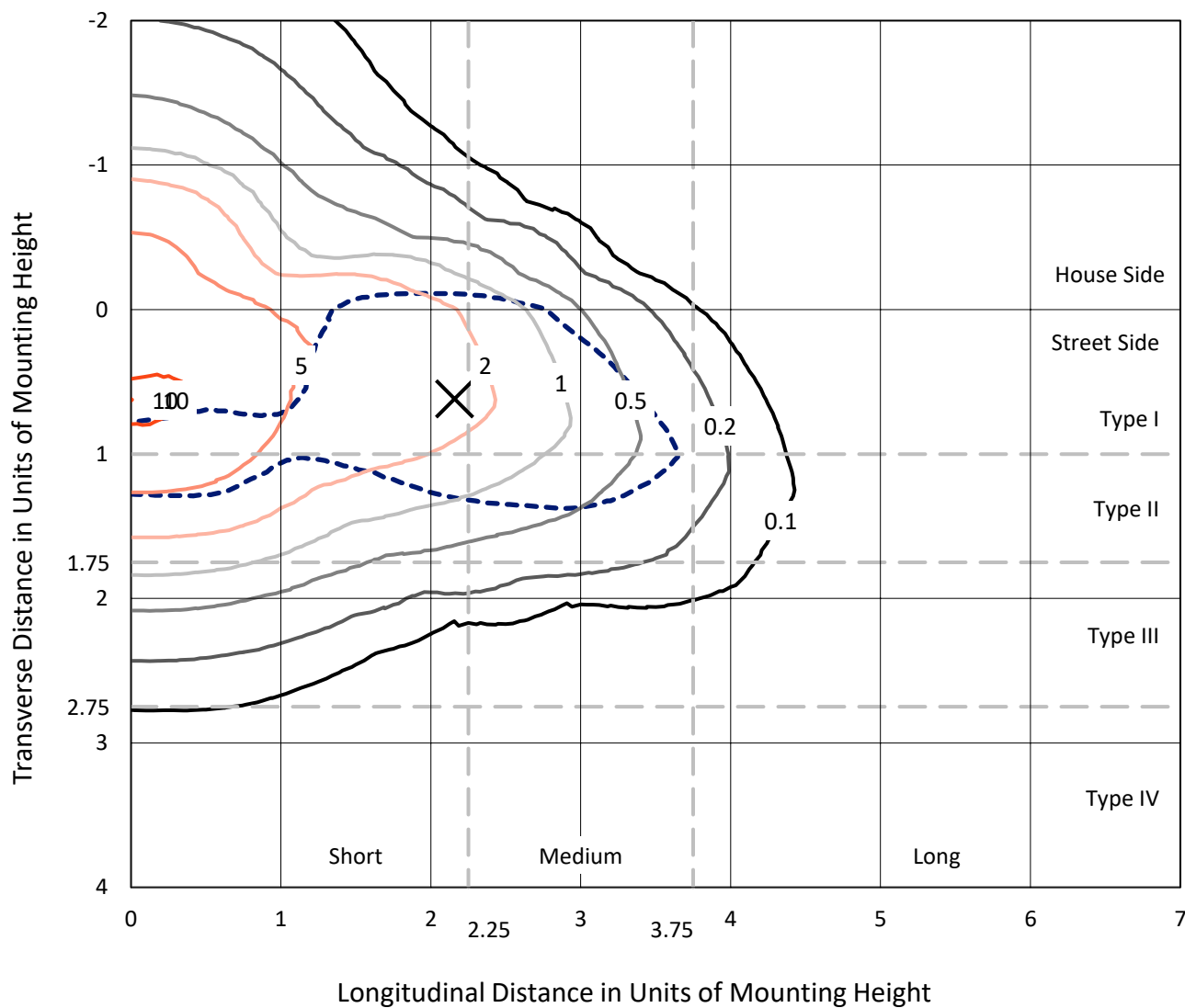
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

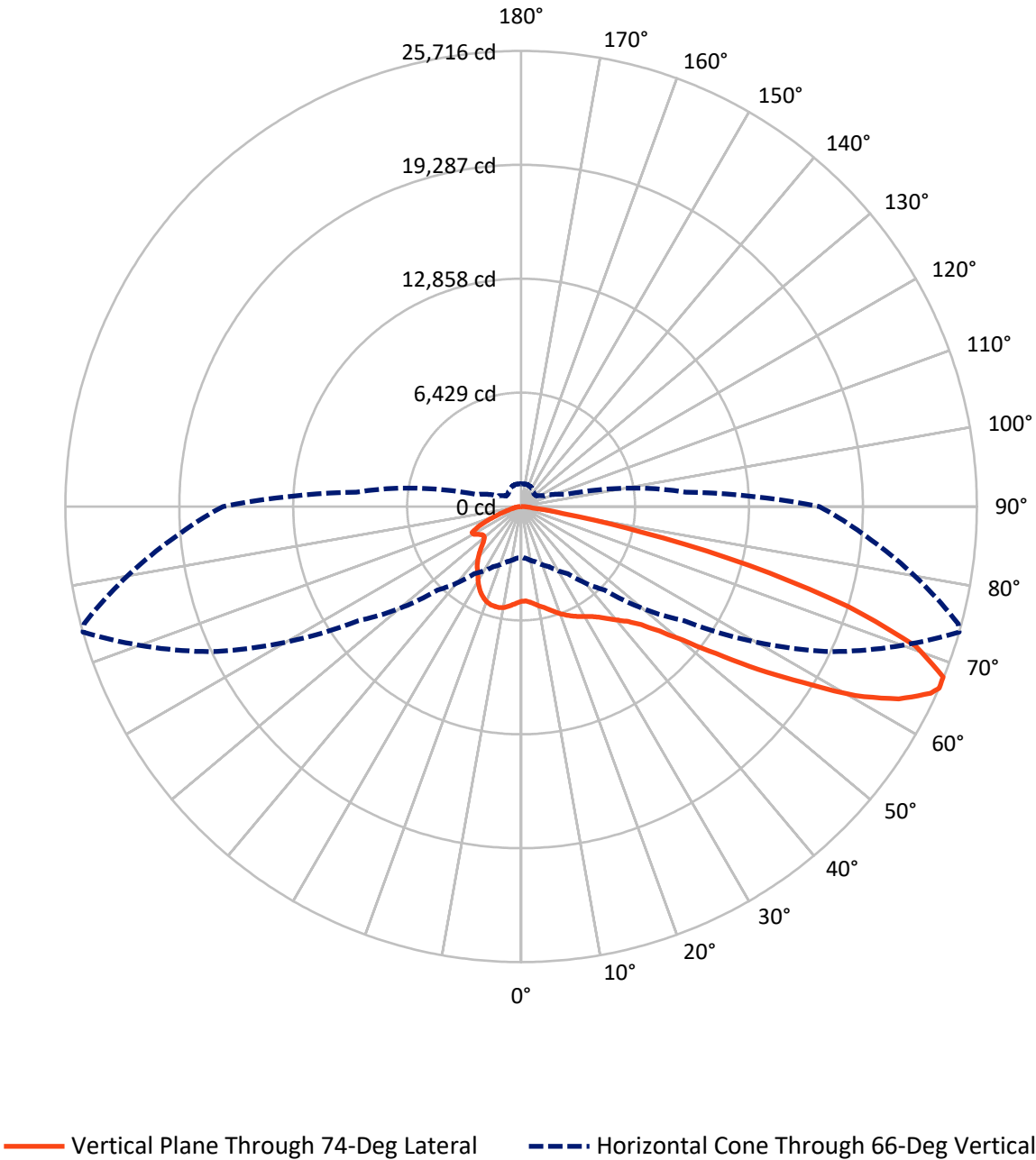
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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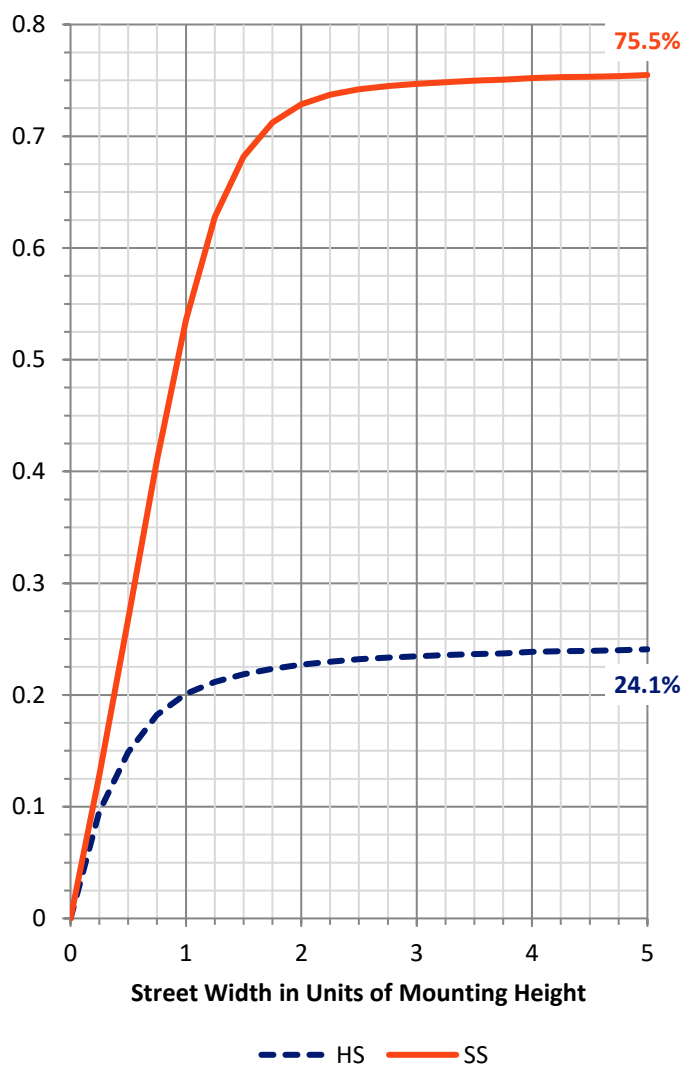
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7938.3	0.0	7938.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	24658.7	0.0	24658.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	32597.0	0.0	32597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.7	1.6
10°-20°	1567.6	4.8
20°-30°	2941.6	9.0
30°-40°	4524.8	13.9
40°-50°	6086.3	18.7
50°-60°	7197.7	22.1
60°-70°	6658.3	20.4
70°-80°	2801.1	8.6
80°-90°	310.0	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°	32597.0	100.0
0°-180°	32597.0	100.0

Coefficient of Utilization



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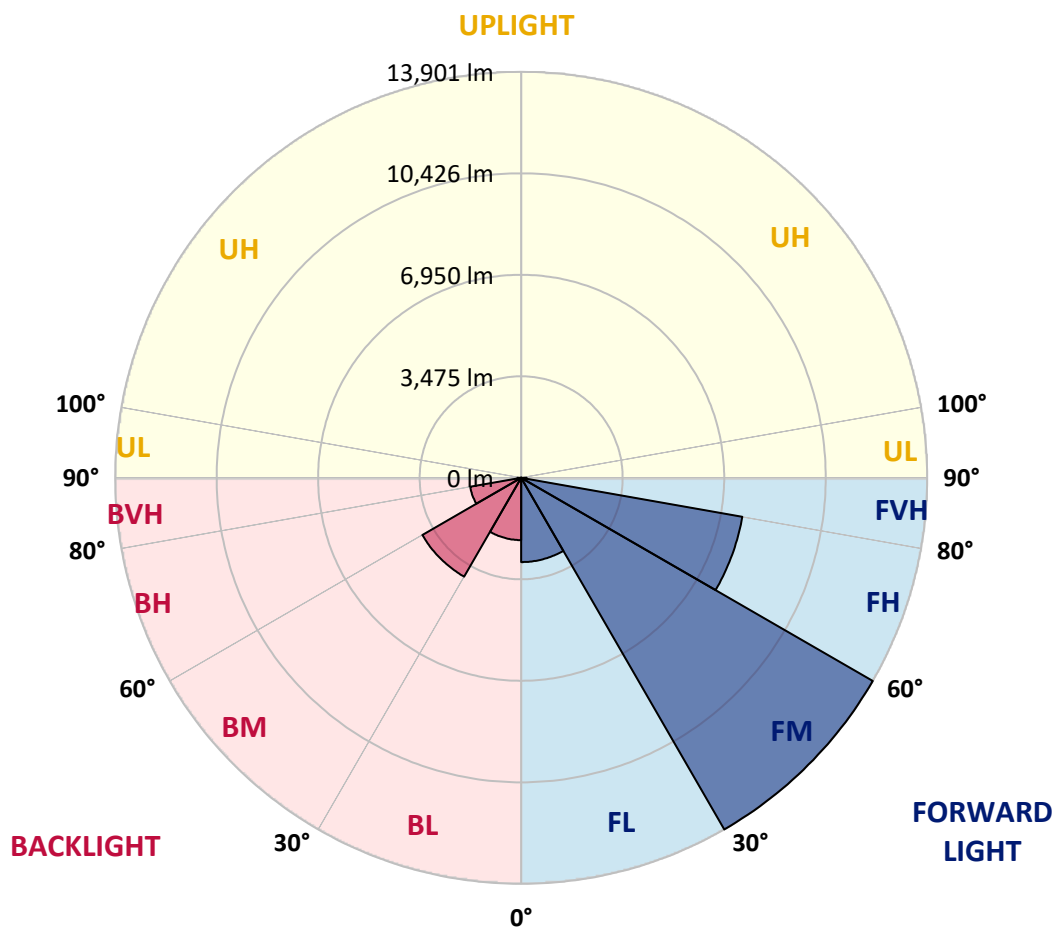
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2885.2	8.9			
FM	(30°-60°)	13900.8	42.6			
FH	(60°-80°)	7687.3	23.6			G4/12000
FVH	(80°-90°)	185.4	0.6			G2/225
BL	(0°-30°)	2133.6	6.5	B3/2500		
BM	(30°-60°)	3908.0	12.0	B3/5000		
BH	(60°-80°)	1772.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	124.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7
2.5°	5327.0	5318.6	5335.3	5360.5	5373.1	5352.1	5343.7	5339.5	5339.5	5327.0	5347.9
5°	5075.3	5071.1	5108.8	5155.0	5243.1	5306.0	5389.9	5440.2	5423.4	5398.3	5415.0
7.5°	4748.1	4739.7	4785.9	4874.0	4995.6	5134.0	5339.5	5498.9	5561.8	5553.5	5549.3
10°	4874.0	4865.6	4861.4	4836.2	4878.1	5012.4	5226.3	5507.3	5721.2	5725.4	5729.6
12.5°	5310.2	5331.1	5310.2	5230.5	5138.2	5087.9	5213.7	5528.3	5855.5	5880.6	5985.5
15°	5905.8	5884.8	5842.9	5750.6	5608.0	5457.0	5364.7	5624.8	6048.4	6069.4	6300.1
17.5°	6430.1	6446.9	6421.7	6333.6	6165.8	5968.7	5687.7	5792.5	6253.9	6312.7	6635.6
20°	7000.5	7067.7	7034.1	6925.0	6786.6	6493.0	6140.7	6035.8	6480.4	6522.4	6983.8
22.5°	7659.1	7730.4	7667.5	7562.6	7449.3	7088.6	6635.6	6333.6	6669.2	6757.3	7319.3
25°	8447.6	8514.7	8456.0	8292.4	8149.8	7709.4	7168.3	6669.2	6853.7	6950.2	7592.0
27.5°	9072.6	9122.9	9177.5	9081.0	8862.9	8405.7	7722.0	7017.3	7038.3	7139.0	7843.6
30°	9630.5	9756.3	9802.4	9815.0	9630.5	9118.7	8288.2	7378.0	7197.7	7302.5	8095.3
32.5°	10393.9	10582.6	10507.1	10582.6	10473.5	9789.9	8875.5	7751.3	7403.2	7499.7	8334.4
35°	11509.6	11660.6	11463.4	11404.7	11228.5	10469.4	9441.7	8137.2	7675.8	7780.7	8560.9
37.5°	12709.2	12881.2	12595.9	12361.1	12025.5	11140.5	9928.3	8644.8	8053.3	8137.2	8770.6
40°	13757.8	13900.4	13652.9	13342.6	12780.5	11731.9	10347.7	9001.3	8430.8	8535.7	9013.9
42.5°	14726.7	14819.0	14542.2	14244.4	13493.6	12264.6	10800.7	9378.8	8871.3	8971.9	9211.0
45°	15708.2	15779.5	15393.6	14970.0	14089.2	12751.1	11299.9	9907.3	9517.2	9651.4	9529.8
47.5°	15884.4	15905.4	15838.3	15553.0	14558.9	13216.7	11916.4	10616.2	10502.9	10649.7	10079.3
50°	14663.8	14852.6	15267.8	15548.8	14747.7	13606.8	12533.0	11631.2	11861.9	12050.7	11220.2
52.5°	12293.9	12474.3	13434.8	14500.2	14294.7	13694.9	13195.7	12918.9	13778.8	14005.3	12772.1
55°	9794.0	9953.4	10968.5	12503.7	12830.8	13292.2	13904.6	14563.1	16224.1	16375.1	14475.1
57.5°	8065.9	8154.0	8879.7	10356.1	10880.4	12004.5	14286.3	16517.8	18711.5	18942.1	15955.7
60°	6614.7	6711.1	7252.2	8468.6	9164.9	10163.2	13984.3	18447.2	21681.1	21681.1	17855.8
62.5°	4978.8	5062.7	5566.0	6518.2	7688.4	8602.8	13019.6	19726.5	23921.0	23820.3	19231.6
65°	3418.5	3485.6	3850.5	4483.9	5536.7	7331.9	11702.5	19743.3	25405.8	25271.6	19818.8
66°	2869.0	2927.7	3238.1	3749.8	4634.9	6652.4	11236.9	19386.8	25716.2	25527.4	19571.3
67.5°	2265.0	2306.9	2512.5	2814.5	3397.5	5385.7	10502.9	18375.9	25686.8	25573.6	18942.1
70°	1619.1	1648.4	1799.4	1862.3	2009.1	3116.5	8342.8	16094.1	23627.3	23660.9	16467.4
72.5°	1254.1	1300.3	1392.6	1405.1	1371.6	1656.8	5062.7	13426.4	19328.0	19315.5	12222.6
75°	1010.9	1036.0	1082.2	1107.3	1098.9	1069.6	2143.4	10016.4	13304.8	13460.0	6845.3
77.5°	796.9	792.8	834.7	868.3	893.4	838.9	981.5	5872.2	6975.4	6778.2	2571.2
80°	587.2	587.2	645.9	658.5	696.3	704.7	654.3	2265.0	2395.0	2176.9	666.9
82.5°	385.9	385.9	448.8	457.2	494.9	549.5	474.0	679.5	662.7	629.2	302.0
85°	209.7	201.3	222.3	251.7	272.6	323.0	285.2	339.8	348.1	343.9	201.3
87.5°	41.9	37.8	58.7	67.1	75.5	100.7	92.3	138.4	192.9	188.8	88.1
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°	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7
2.5°	5377.3	5373.1	5419.2	5473.8	5536.7	5574.4	5591.2	5620.6	5599.6	5608.0	5633.1
5°	5457.0	5469.6	5536.7	5608.0	5637.3	5616.4	5570.2	5553.5	5515.7	5507.3	5498.9
7.5°	5574.4	5595.4	5662.5	5679.3	5591.2	5444.4	5339.5	5280.8	5217.9	5201.1	5192.7
10°	5767.4	5780.0	5796.7	5624.8	5406.6	5209.5	5079.5	5025.0	4983.0	4949.5	4957.8
12.5°	6010.6	6002.3	5872.2	5515.7	5205.3	5004.0	4915.9	4882.3	4853.0	4832.0	4827.8
15°	6316.8	6258.1	5884.8	5364.7	5016.6	4848.8	4785.9	4773.3	4739.7	4739.7	4735.5
17.5°	6627.2	6476.2	5876.4	5205.3	4836.2	4743.9	4706.2	4697.8	4689.4	4685.2	4697.8
20°	6937.6	6669.2	5809.3	5008.2	4710.4	4655.8	4647.5	4651.6	4643.3	4655.8	4647.5
22.5°	7210.3	6795.0	5683.5	4798.5	4622.3	4618.1	4597.1	4605.5	4634.9	4639.1	4651.6
25°	7420.0	6841.2	5498.9	4605.5	4559.4	4551.0	4576.1	4609.7	4634.9	4639.1	4660.0
27.5°	7592.0	6816.0	5268.2	4454.5	4450.3	4496.5	4572.0	4584.5	4588.7	4588.7	4572.0
30°	7722.0	6761.5	4974.6	4286.7	4307.7	4421.0	4492.3	4492.3	4458.7	4450.3	4475.5
32.5°	7751.3	6690.2	4655.8	4114.8	4148.3	4282.5	4370.6	4341.3	4303.5	4303.5	4320.3
35°	7776.5	6593.7	4400.0	3879.9	3930.2	4089.6	4173.5	4114.8	4072.8	4060.2	4056.0
37.5°	7768.1	6555.9	4169.3	3582.1	3649.2	3804.4	3858.9	3804.4	3741.5	3712.1	3749.8
40°	7776.5	6530.8	3879.9	3254.9	3322.0	3414.3	3485.6	3443.6	3384.9	3309.4	3347.2
42.5°	7826.8	6564.3	3561.1	2936.1	2936.1	2986.4	3108.1	3078.7	2936.1	2906.8	2940.3
45°	8095.3	6744.7	3242.3	2617.3	2571.2	2604.8	2730.6	2604.8	2516.7	2516.7	2546.0
47.5°	8745.4	7080.2	2961.3	2336.3	2227.3	2294.4	2327.9	2210.5	2143.4	2126.6	2155.9
50°	10070.9	7751.3	2793.5	2105.6	1971.4	2021.7	2000.8	1996.6	1929.4	1937.8	1954.6
52.5°	12084.2	9060.0	2743.2	1992.4	1824.6	1837.2	1816.2	1824.6	1812.0	1853.9	1866.5
55°	14277.9	10440.0	2806.1	2009.1	1723.9	1635.8	1644.2	1686.2	1736.5	1803.6	1816.2
57.5°	15917.9	11132.1	2969.7	2122.4	1598.1	1463.9	1484.8	1564.5	1661.0	1715.5	1744.9
60°	17138.5	11048.2	3208.8	2151.8	1447.1	1308.7	1346.4	1463.9	1547.8	1593.9	1623.3
62.5°	17537.0	10523.9	3267.5	1937.8	1249.9	1161.9	1254.1	1375.8	1413.5	1463.9	1484.8
65°	17209.8	9781.5	2839.6	1572.9	1098.9	1052.8	1187.0	1279.3	1329.6	1354.8	1359.0
66°	16823.9	9336.9	2608.9	1430.3	1044.4	1019.3	1161.9	1237.4	1287.7	1283.5	1287.7
67.5°	15976.7	8405.7	2235.6	1229.0	964.7	968.9	1119.9	1170.3	1187.0	1174.4	1174.4
70°	13095.1	5918.4	1602.3	931.2	847.3	906.0	1006.7	1019.3	1057.0	1040.2	1040.2
72.5°	8074.3	2906.8	1073.8	713.1	755.0	847.3	843.1	885.0	973.1	998.3	1015.1
75°	3968.0	1178.6	708.9	604.0	675.3	708.9	700.5	805.3	931.2	1040.2	1078.0
77.5°	1505.8	587.2	494.9	528.5	545.3	532.7	557.9	729.8	931.2	1128.3	1166.1
80°	465.6	406.9	390.1	436.2	411.1	390.1	419.4	604.0	788.6	855.7	855.7
82.5°	281.0	318.8	302.0	297.8	276.8	281.0	302.0	432.0	608.2	637.6	637.6
85°	197.1	209.7	172.0	163.6	159.4	155.2	155.2	251.7	360.7	356.5	369.1
87.5°	75.5	83.9	62.9	62.9	58.7	41.9	33.6	41.9	41.9	29.4	21.0
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)