

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: P1210557

Luminaire Tested: **ARCH3-160-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210557
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: ARCH3-160-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21633 lumens
Efficiency: N/A
Efficacy: 134.4 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

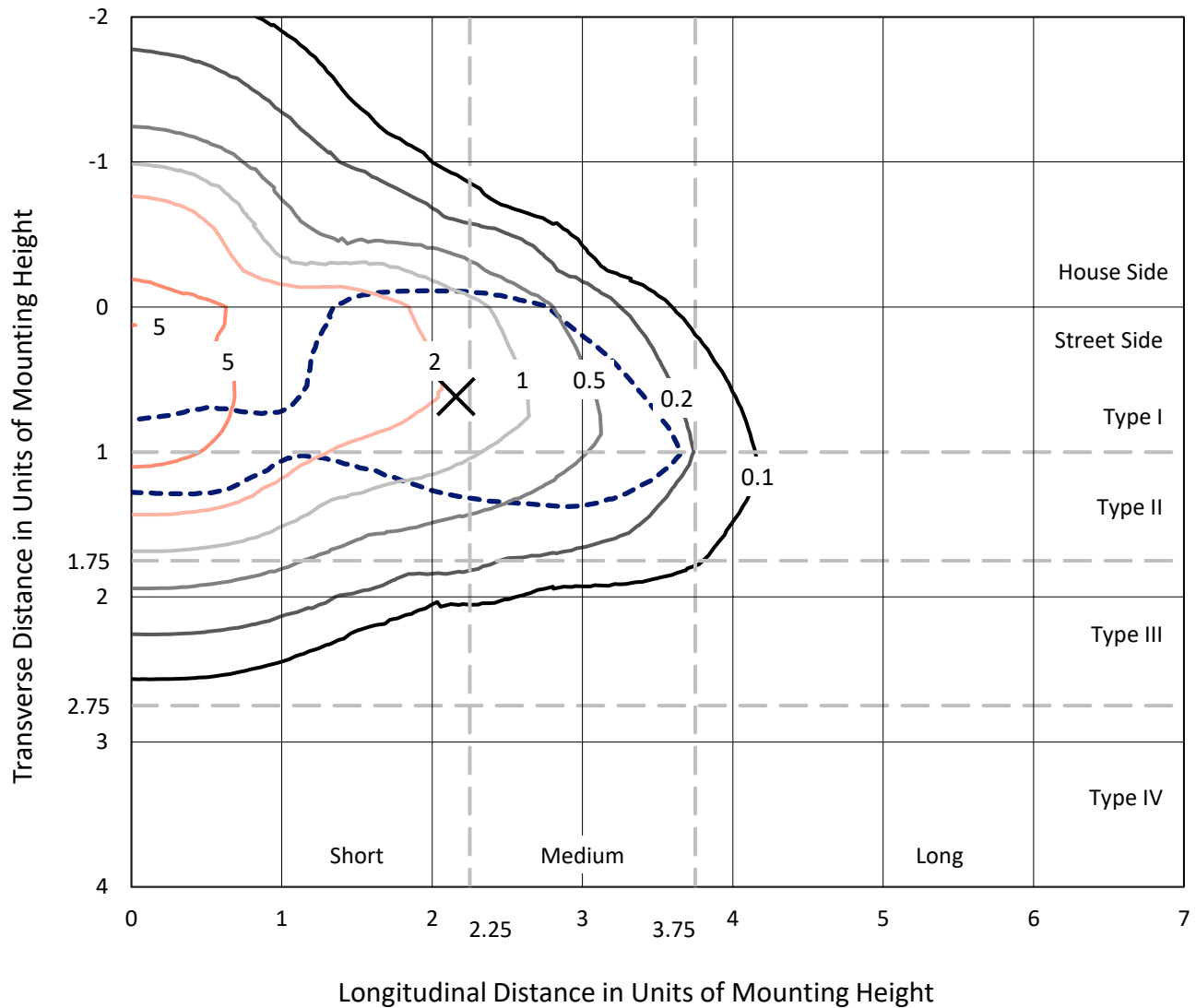
Input Watts (W): 161
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

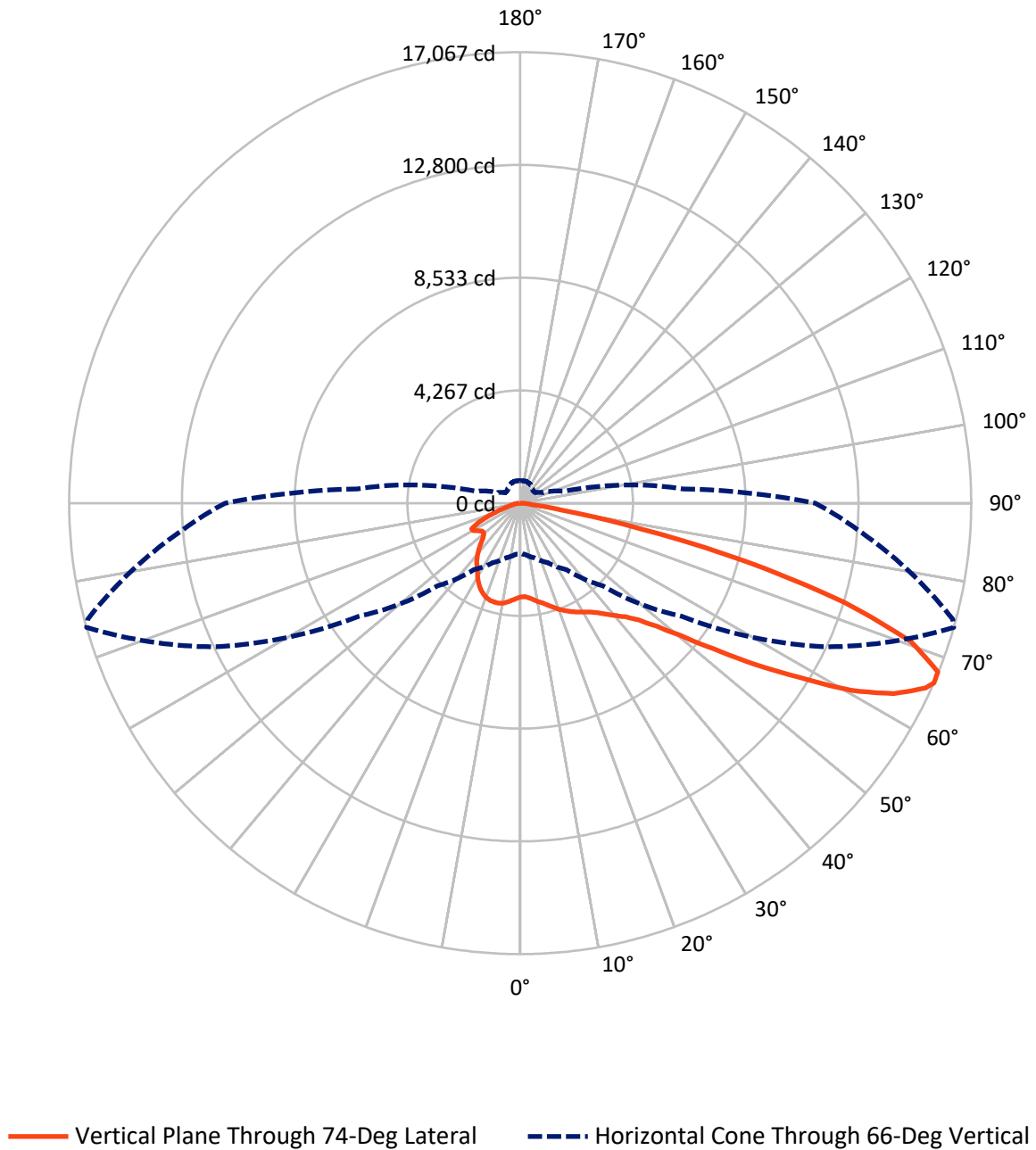
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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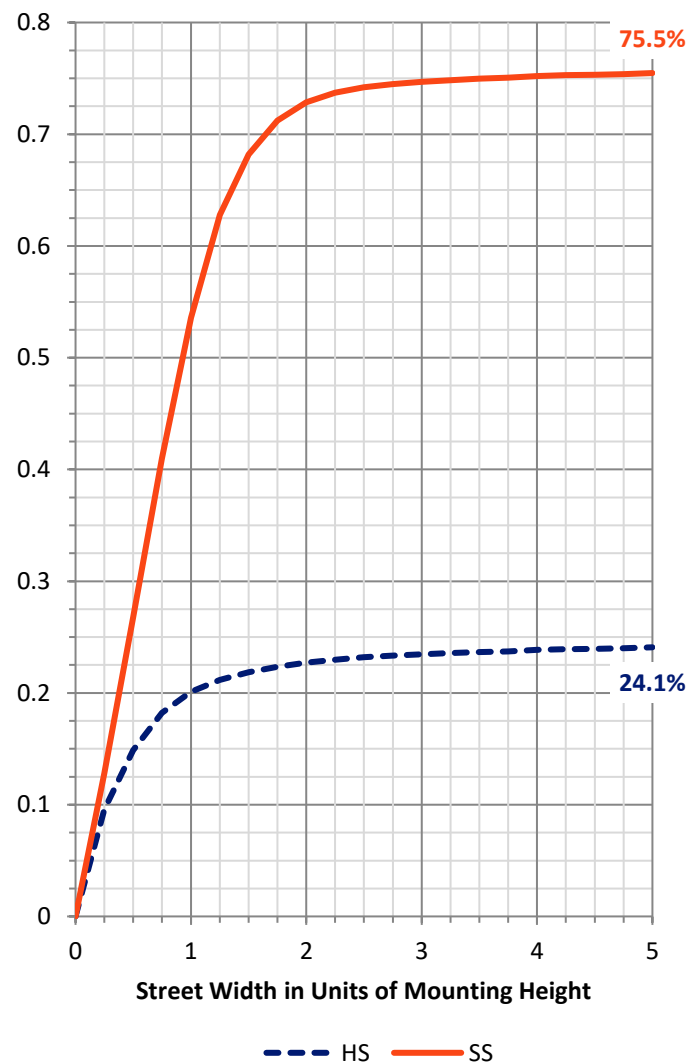
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5268.2	0.0	5268.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	16364.8	0.0	16364.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	21633.0	0.0	21633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	1.6
10°-20°	1040.3	4.8
20°-30°	1952.2	9.0
30°-40°	3002.9	13.9
40°-50°	4039.1	18.7
50°-60°	4776.8	22.1
60°-70°	4418.8	20.4
70°-80°	1859.0	8.6
80°-90°	205.7	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°	21633.0	100.0
0°-180°	21633.0	100.0

Coefficient of Utilization



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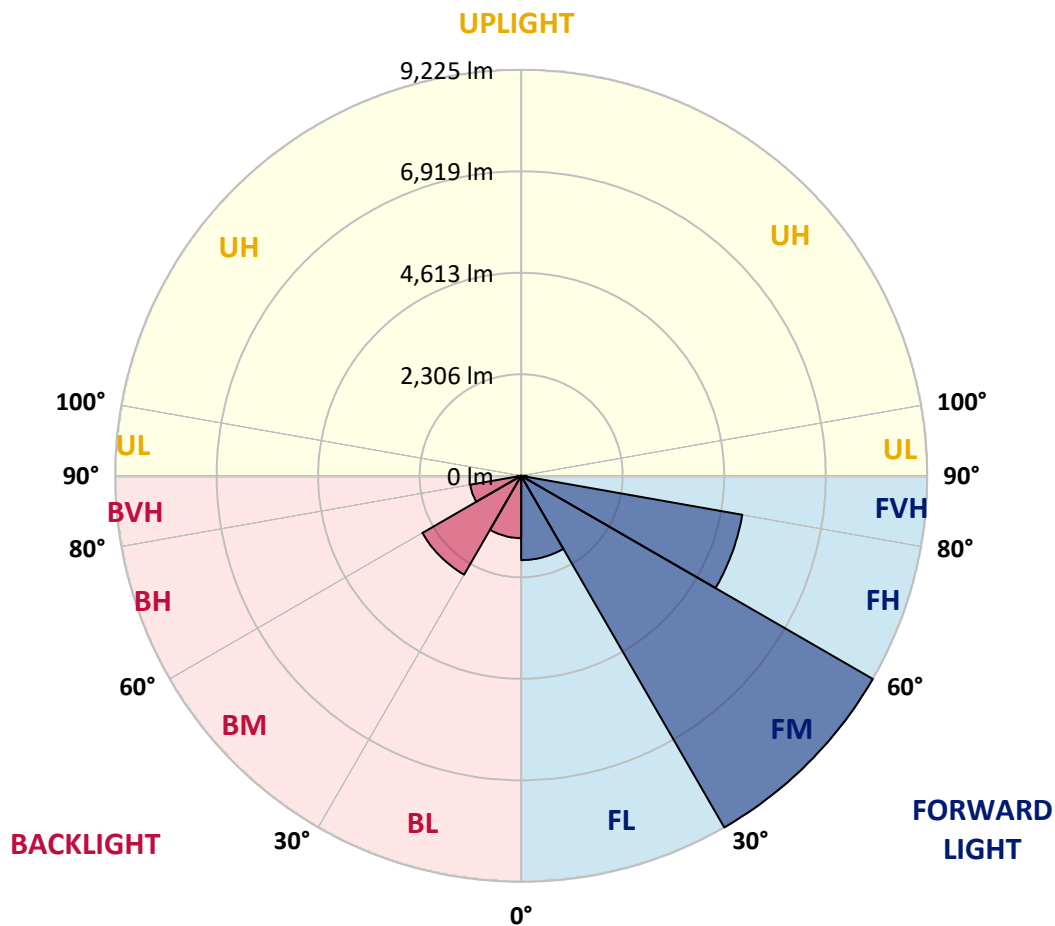
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1914.8	8.9			
FM	(30°-60°)	9225.3	42.6			
FH	(60°-80°)	5101.7	23.6			G3/7500
FVH	(80°-90°)	123.1	0.6			G2/225
BL	(0°-30°)	1416.0	6.5	B3/2500		
BM	(30°-60°)	2593.6	12.0	B3/5000		
BH	(60°-80°)	1176.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	82.6	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°	3546.4	3546.4	3546.4	3546.4	3546.4	3546.4	3546.4	3546.4	3546.4	3546.4	3546.4
2.5°	3535.2	3529.7	3540.8	3557.5	3565.9	3551.9	3546.4	3543.6	3543.6	3535.2	3549.2
5°	3368.2	3365.4	3390.5	3421.1	3479.6	3521.3	3577.0	3610.4	3599.3	3582.6	3593.7
7.5°	3151.1	3145.5	3176.1	3234.6	3315.3	3407.2	3543.6	3649.4	3691.1	3685.6	3682.8
10°	3234.6	3229.0	3226.2	3209.5	3237.4	3326.5	3468.4	3654.9	3796.9	3799.7	3802.5
12.5°	3524.1	3538.0	3524.1	3471.2	3410.0	3376.6	3460.1	3668.8	3886.0	3902.7	3972.3
15°	3919.4	3905.5	3877.6	3816.4	3721.7	3621.5	3560.3	3732.9	4014.0	4027.9	4181.0
17.5°	4267.3	4278.5	4261.8	4203.3	4092.0	3961.1	3774.6	3844.2	4150.4	4189.4	4403.7
20°	4645.9	4690.4	4668.2	4595.8	4503.9	4309.1	4075.3	4005.7	4300.7	4328.6	4634.8
22.5°	5082.9	5130.3	5088.5	5018.9	4943.8	4704.4	4403.7	4203.3	4426.0	4484.5	4857.5
25°	5606.3	5650.8	5611.8	5503.3	5408.6	5116.3	4757.3	4426.0	4548.5	4612.5	5038.4
27.5°	6021.0	6054.4	6090.6	6026.6	5881.8	5578.4	5124.7	4657.0	4671.0	4737.8	5205.4
30°	6391.3	6474.8	6505.4	6513.7	6391.3	6051.7	5500.5	4896.4	4776.7	4846.3	5372.4
32.5°	6897.9	7023.1	6973.0	7023.1	6950.8	6497.0	5890.2	5144.2	4913.1	4977.2	5531.1
35°	7638.3	7738.5	7607.7	7568.7	7451.8	6948.0	6266.0	5400.3	5094.1	5163.7	5681.4
37.5°	8434.5	8548.6	8359.3	8203.4	7980.7	7393.4	6588.9	5737.1	5344.6	5400.3	5820.6
40°	9130.4	9225.0	9060.8	8854.8	8481.8	7785.9	6867.3	5973.7	5595.1	5664.7	5982.1
42.5°	9773.4	9834.6	9650.9	9453.3	8955.0	8139.4	7167.9	6224.2	5887.4	5954.2	6112.9
45°	10424.8	10472.1	10216.0	9934.8	9350.3	8462.3	7499.1	6575.0	6316.1	6405.2	6324.4
47.5°	10541.7	10555.6	10511.1	10321.8	9662.0	8771.3	7908.3	7045.4	6970.3	7067.7	6689.1
50°	9731.6	9856.9	10132.5	10319.0	9787.3	9030.2	8317.5	7719.1	7872.2	7997.4	7446.3
52.5°	8158.9	8278.6	8916.0	9623.1	9486.7	9088.6	8757.4	8573.6	9144.3	9294.6	8476.2
55°	6499.8	6605.6	7279.2	8298.1	8515.2	8821.4	9227.8	9664.8	10767.2	10867.4	9606.4
57.5°	5353.0	5411.4	5893.0	6872.8	7220.8	7966.8	9481.1	10962.0	12417.9	12571.0	10589.0
60°	4389.8	4453.8	4812.9	5620.2	6082.3	6744.8	9280.7	12242.5	14388.7	14388.7	11850.0
62.5°	3304.2	3359.9	3693.9	4325.8	5102.4	5709.3	8640.4	13091.5	15875.1	15808.3	12763.0
65°	2268.7	2313.2	2555.4	2975.7	3674.4	4865.8	7766.4	13102.6	16860.6	16771.5	13152.7
66°	1904.0	1943.0	2149.0	2488.6	3075.9	4414.9	7457.4	12866.0	17066.5	16941.3	12988.5
67.5°	1503.2	1531.0	1667.4	1867.8	2254.8	3574.2	6970.3	12195.2	17047.1	16971.9	12571.0
70°	1074.5	1094.0	1194.2	1235.9	1333.4	2068.3	5536.7	10680.9	15680.3	15702.6	10928.6
72.5°	832.3	862.9	924.2	932.5	910.3	1099.5	3359.9	8910.5	12827.1	12818.7	8111.6
75°	670.9	687.6	718.2	734.9	729.3	709.8	1422.4	6647.4	8829.7	8932.7	4542.9
77.5°	528.9	526.1	553.9	576.2	592.9	556.7	651.4	3897.1	4629.2	4498.4	1706.4
80°	389.7	389.7	428.7	437.0	462.1	467.7	434.2	1503.2	1589.5	1444.7	442.6
82.5°	256.1	256.1	297.9	303.4	328.5	364.7	314.6	451.0	439.8	417.5	200.4
85°	139.2	133.6	147.5	167.0	180.9	214.3	189.3	225.5	231.0	228.3	133.6
87.5°	27.8	25.1	39.0	44.5	50.1	66.8	61.2	91.9	128.0	125.3	58.5
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°	3546.4	3546.4	3546.4	3546.4	3546.4	3546.4	3546.4	3546.4	3546.4	3546.4	3546.4
2.5°	3568.6	3565.9	3596.5	3632.7	3674.4	3699.5	3710.6	3730.1	3716.2	3721.7	3738.4
5°	3621.5	3629.9	3674.4	3721.7	3741.2	3727.3	3696.7	3685.6	3660.5	3654.9	3649.4
7.5°	3699.5	3713.4	3757.9	3769.1	3710.6	3613.2	3543.6	3504.6	3462.9	3451.7	3446.2
10°	3827.5	3835.9	3847.0	3732.9	3588.1	3457.3	3371.0	3334.8	3307.0	3284.7	3290.3
12.5°	3989.0	3983.4	3897.1	3660.5	3454.5	3320.9	3262.4	3240.2	3220.7	3206.8	3204.0
15°	4192.2	4153.2	3905.5	3560.3	3329.2	3217.9	3176.1	3167.8	3145.5	3145.5	3142.7
17.5°	4398.2	4298.0	3899.9	3454.5	3209.5	3148.3	3123.3	3117.7	3112.1	3109.3	3117.7
20°	4604.2	4426.0	3855.4	3323.7	3126.0	3089.8	3084.3	3087.1	3081.5	3089.8	3084.3
22.5°	4785.1	4509.5	3771.8	3184.5	3067.6	3064.8	3050.9	3056.4	3075.9	3078.7	3087.1
25°	4924.3	4540.1	3649.4	3056.4	3025.8	3020.3	3037.0	3059.2	3075.9	3078.7	3092.6
27.5°	5038.4	4523.4	3496.3	2956.2	2953.5	2984.1	3034.2	3042.5	3045.3	3045.3	3034.2
30°	5124.7	4487.2	3301.4	2844.9	2858.8	2934.0	2981.3	2981.3	2959.0	2953.5	2970.2
32.5°	5144.2	4439.9	3089.8	2730.8	2753.0	2842.1	2900.6	2881.1	2856.0	2856.0	2867.2
35°	5160.9	4375.9	2920.0	2574.9	2608.3	2714.1	2769.7	2730.8	2702.9	2694.6	2691.8
37.5°	5155.3	4350.8	2766.9	2377.2	2421.8	2524.8	2561.0	2524.8	2483.0	2463.5	2488.6
40°	5160.9	4334.1	2574.9	2160.1	2204.6	2265.9	2313.2	2285.4	2246.4	2196.3	2221.4
42.5°	5194.3	4356.4	2363.3	1948.6	1948.6	1982.0	2062.7	2043.2	1948.6	1929.1	1951.3
45°	5372.4	4476.1	2151.8	1737.0	1706.4	1728.6	1812.2	1728.6	1670.2	1670.2	1689.7
47.5°	5803.9	4698.8	1965.3	1550.5	1478.1	1522.7	1544.9	1467.0	1422.4	1411.3	1430.8
50°	6683.5	5144.2	1853.9	1397.4	1308.3	1341.7	1327.8	1325.0	1280.5	1286.0	1297.2
52.5°	8019.7	6012.7	1820.5	1322.2	1210.9	1219.2	1205.3	1210.9	1202.5	1230.4	1238.7
55°	9475.5	6928.5	1862.3	1333.4	1144.1	1085.6	1091.2	1119.0	1152.4	1197.0	1205.3
57.5°	10563.9	7387.8	1970.8	1408.5	1060.6	971.5	985.4	1038.3	1102.3	1138.5	1158.0
60°	11374.0	7332.1	2129.5	1428.0	960.4	868.5	893.6	971.5	1027.2	1057.8	1077.3
62.5°	11638.4	6984.2	2168.5	1286.0	829.5	771.1	832.3	913.0	938.1	971.5	985.4
65°	11421.3	6491.5	1884.5	1043.9	729.3	698.7	787.8	849.0	882.4	899.1	901.9
66°	11165.2	6196.4	1731.4	949.2	693.1	676.4	771.1	821.2	854.6	851.8	854.6
67.5°	10602.9	5578.4	1483.7	815.6	640.2	643.0	743.2	776.6	787.8	779.4	779.4
70°	8690.6	3927.7	1063.4	618.0	562.3	601.3	668.1	676.4	701.5	690.3	690.3
72.5°	5358.5	1929.1	712.6	473.2	501.1	562.3	559.5	587.3	645.8	662.5	673.6
75°	2633.3	782.2	470.4	400.8	448.2	470.4	464.9	534.5	618.0	690.3	715.4
77.5°	999.3	389.7	328.5	350.7	361.9	353.5	370.2	484.4	618.0	748.8	773.9
80°	309.0	270.0	258.9	289.5	272.8	258.9	278.4	400.8	523.3	567.9	567.9
82.5°	186.5	211.6	200.4	197.6	183.7	186.5	200.4	286.7	403.6	423.1	423.1
85°	130.8	139.2	114.1	108.6	105.8	103.0	103.0	167.0	239.4	236.6	245.0
87.5°	50.1	55.7	41.8	41.8	39.0	27.8	22.3	27.8	27.8	19.5	13.9
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)