

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: P1210617

Luminaire Tested: **ARCH3-180-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210617
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: ARCH3-180-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22442 lumens
Efficiency: N/A
Efficacy: 124.3 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): 180.5
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

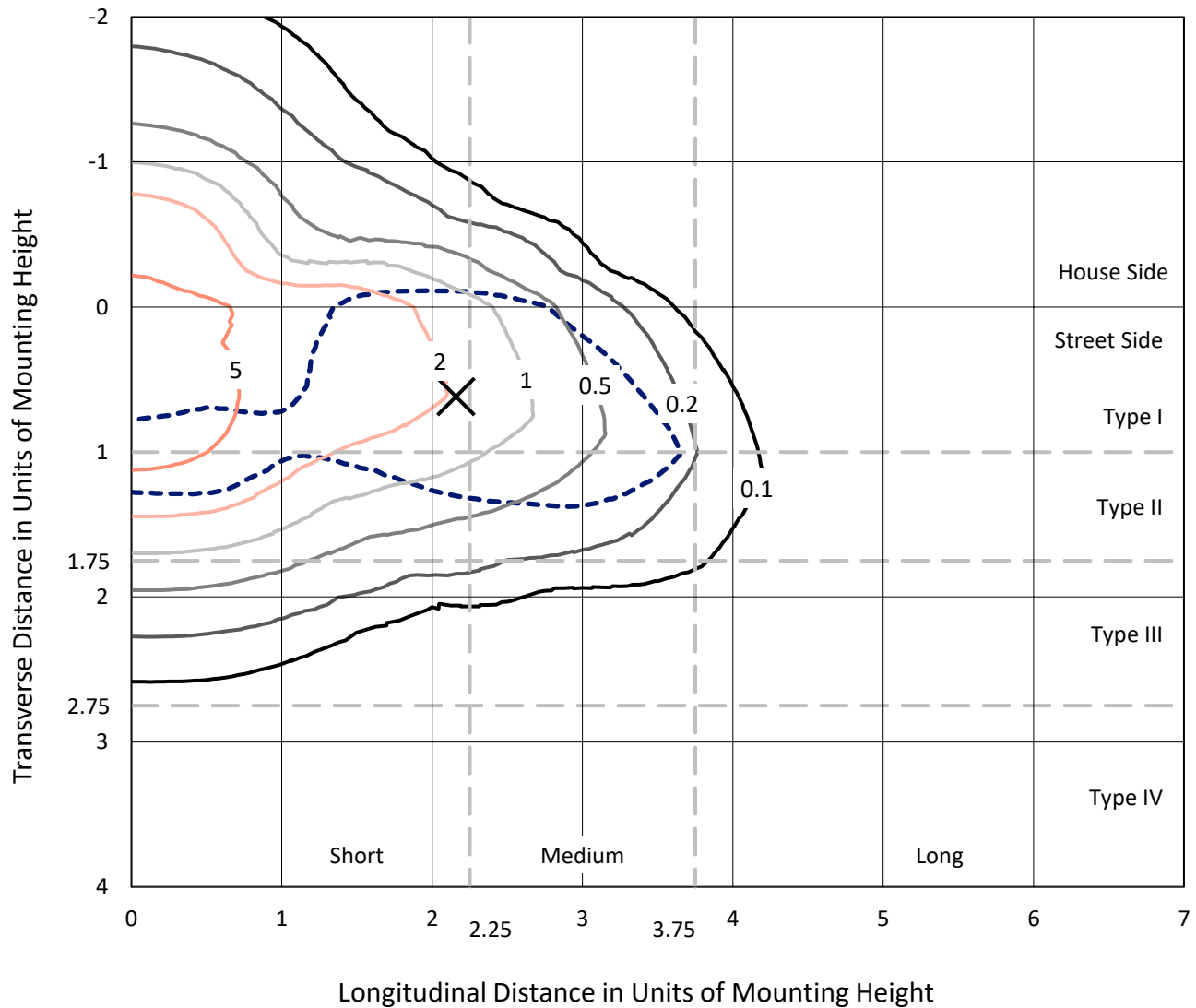


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Iso-Footcandle Lines of Horizontal Illumination

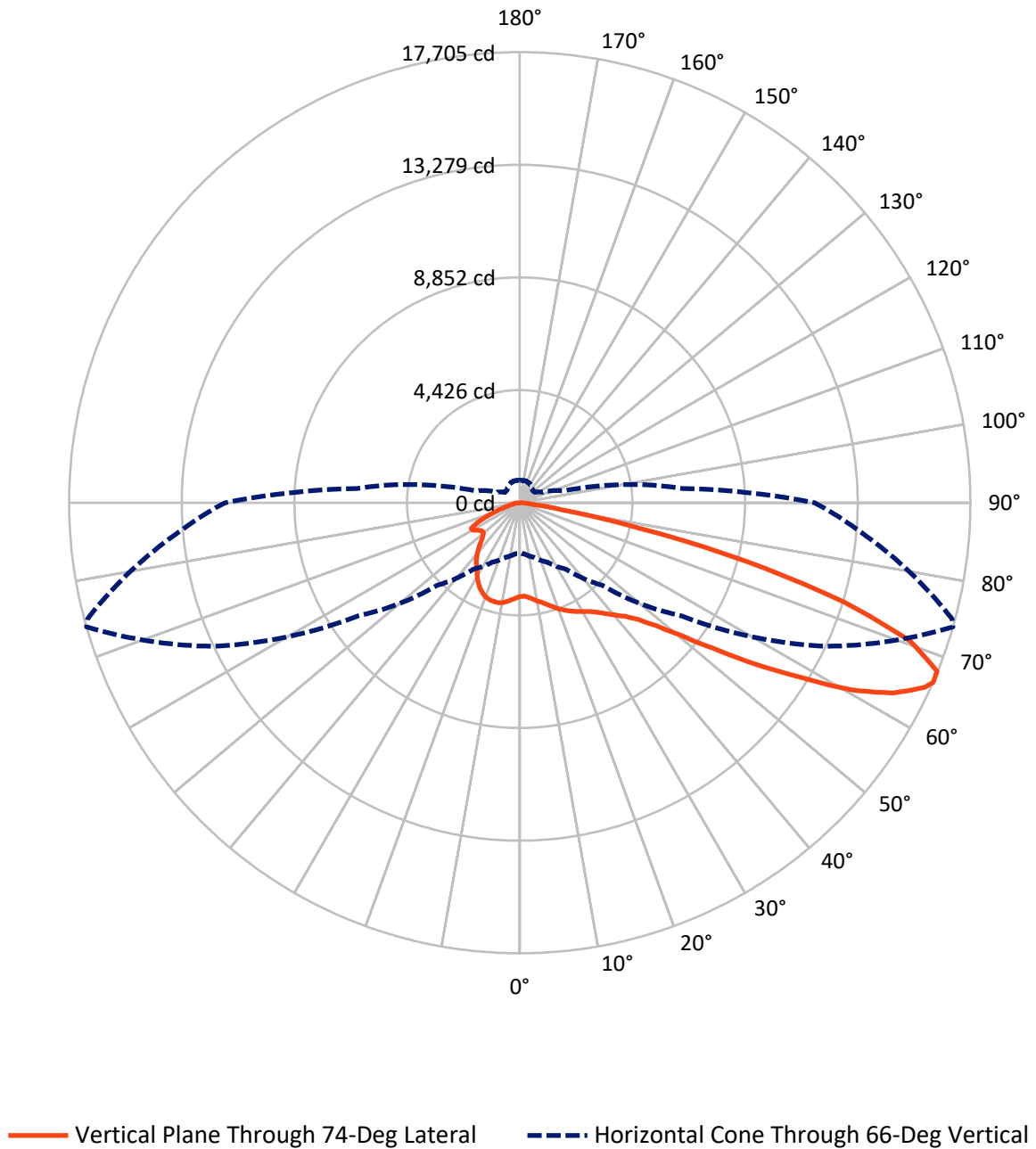
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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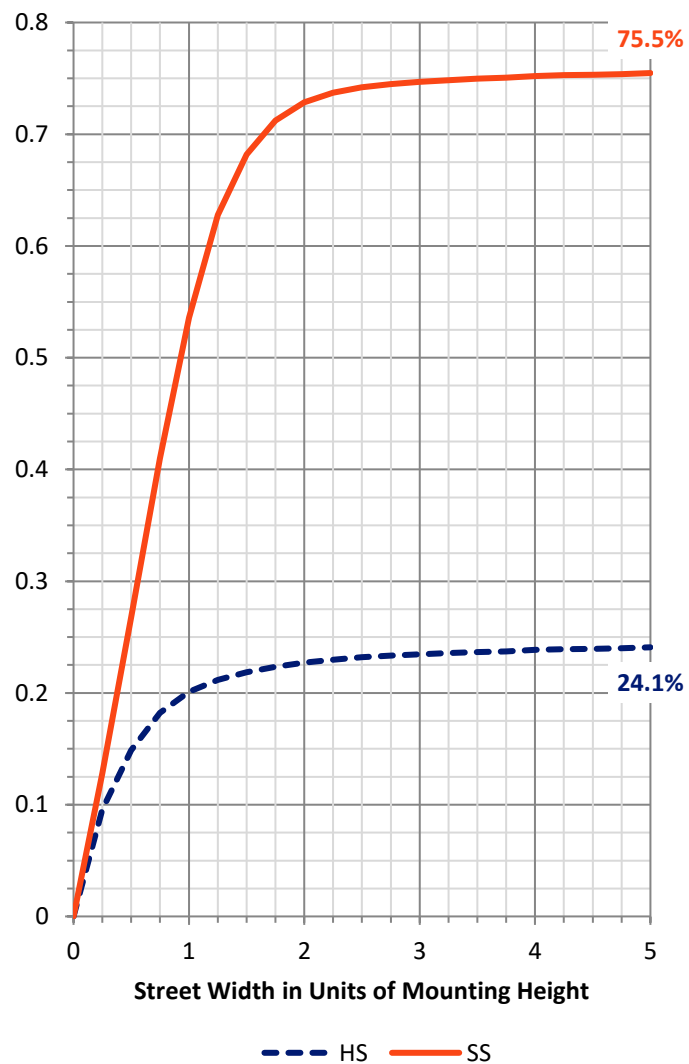
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5465.2	0.0	5465.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	16976.8	0.0	16976.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	22442.0	0.0	22442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.9	1.6
10°-20°	1079.2	4.8
20°-30°	2025.2	9.0
30°-40°	3115.2	13.9
40°-50°	4190.2	18.7
50°-60°	4955.4	22.1
60°-70°	4584.0	20.4
70°-80°	1928.5	8.6
80°-90°	213.4	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°	22442.0	100.0
0°-180°	22442.0	100.0

Coefficient of Utilization



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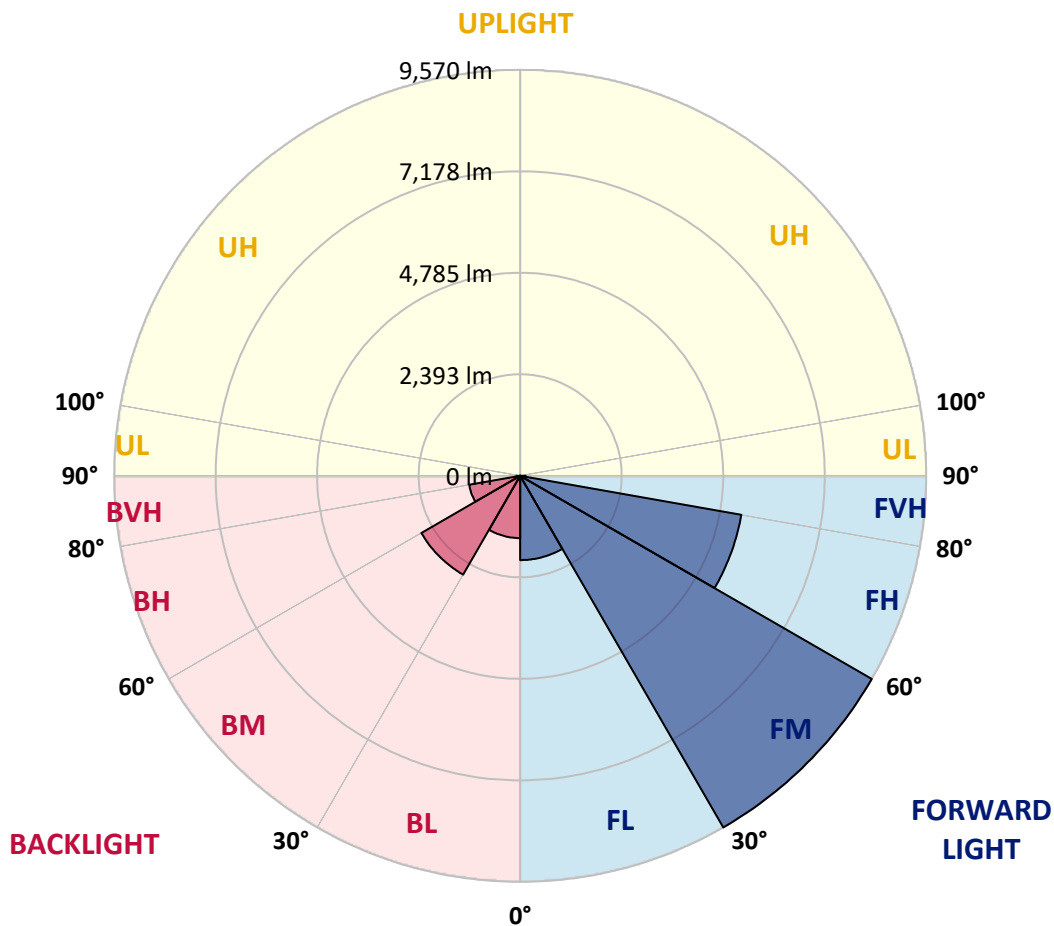
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1986.4	8.9			
FM	(30°-60°)	9570.3	42.6			
FH	(60°-80°)	5292.5	23.6			G3/7500
FVH	(80°-90°)	127.7	0.6			G2/225
BL	(0°-30°)	1468.9	6.5	B3/2500		
BM	(30°-60°)	2690.5	12.0	B3/5000		
BH	(60°-80°)	1220.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	85.7	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°	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0
2.5°	3667.4	3661.7	3673.2	3690.5	3699.2	3684.8	3679.0	3676.1	3676.1	3667.4	3681.9
5°	3494.2	3491.3	3517.3	3549.0	3609.7	3653.0	3710.8	3745.4	3733.9	3716.5	3728.1
7.5°	3268.9	3263.2	3294.9	3355.6	3439.3	3534.6	3676.1	3785.8	3829.2	3823.4	3820.5
10°	3355.6	3349.8	3346.9	3329.6	3358.4	3450.9	3598.1	3791.6	3938.9	3941.8	3944.7
12.5°	3655.9	3670.3	3655.9	3601.0	3537.5	3502.8	3589.5	3806.1	4031.3	4048.6	4120.8
15°	4065.9	4051.5	4022.6	3959.1	3860.9	3757.0	3693.4	3872.5	4164.1	4178.6	4337.4
17.5°	4426.9	4438.5	4421.1	4360.5	4245.0	4109.3	3915.8	3988.0	4305.6	4346.1	4568.4
20°	4819.7	4865.9	4842.8	4767.7	4672.4	4470.2	4227.7	4155.5	4461.6	4490.4	4808.1
22.5°	5273.0	5322.1	5278.8	5206.6	5128.6	4880.3	4568.4	4360.5	4591.5	4652.2	5039.1
25°	5815.9	5862.1	5821.7	5709.1	5610.9	5307.7	4935.2	4591.5	4718.6	4785.0	5226.8
27.5°	6246.2	6280.9	6318.4	6252.0	6101.8	5787.0	5316.3	4831.2	4845.6	4914.9	5400.1
30°	6630.3	6716.9	6748.7	6757.3	6630.3	6278.0	5706.2	5079.5	4955.4	5027.6	5573.4
32.5°	7155.8	7285.8	7233.8	7285.8	7210.7	6740.0	6110.5	5336.6	5096.9	5163.3	5738.0
35°	7924.0	8027.9	7892.2	7851.8	7730.5	7207.8	6500.3	5602.2	5284.6	5356.8	5893.9
37.5°	8749.9	8868.3	8671.9	8510.2	8279.2	7669.9	6835.3	5951.6	5544.5	5602.2	6038.3
40°	9471.8	9570.0	9399.6	9185.9	8799.0	8077.0	7124.1	6197.1	5804.4	5876.6	6205.8
42.5°	10138.9	10202.4	10011.8	9806.8	9289.9	8443.8	7435.9	6457.0	6107.6	6176.9	6341.5
45°	10814.6	10863.7	10598.0	10306.4	9699.9	8778.8	7779.6	6820.9	6552.3	6644.7	6561.0
47.5°	10935.9	10950.3	10904.1	10707.8	10023.4	9099.3	8204.1	7308.9	7230.9	7332.0	6939.3
50°	10095.6	10225.5	10511.4	10704.9	10153.3	9367.9	8628.6	8007.7	8166.5	8296.5	7724.7
52.5°	8464.0	8588.2	9249.5	9982.9	9841.4	9428.5	9084.9	8894.3	9486.2	9642.2	8793.2
55°	6742.9	6852.6	7551.5	8608.4	8833.6	9151.3	9572.9	10026.3	11169.8	11273.8	9965.6
57.5°	5553.1	5613.8	6113.4	7129.8	7490.8	8264.7	9835.7	11371.9	12882.2	13041.1	10985.0
60°	4554.0	4620.4	4992.9	5830.4	6309.7	6997.0	9627.7	12700.3	14926.8	14926.8	12293.1
62.5°	3427.8	3485.5	3832.0	4487.6	5293.2	5922.8	8963.6	13581.1	16468.8	16399.5	13240.3
65°	2353.5	2399.7	2651.0	3087.0	3811.8	5047.8	8056.8	13592.6	17491.1	17398.7	13644.6
66°	1975.2	2015.6	2229.3	2581.6	3191.0	4580.0	7736.3	13347.2	17704.8	17574.8	13474.2
67.5°	1559.4	1588.3	1729.8	1937.7	2339.1	3707.9	7230.9	12651.2	17684.6	17606.6	13041.1
70°	1114.7	1134.9	1238.8	1282.2	1383.2	2145.6	5743.7	11080.3	16266.7	16289.8	11337.3
72.5°	863.4	895.2	958.7	967.4	944.3	1140.7	3485.5	9243.7	13306.7	13298.1	8414.9
75°	695.9	713.3	745.0	762.4	756.6	736.4	1475.6	6895.9	9159.9	9266.8	4712.8
77.5°	548.7	545.8	574.7	597.8	615.1	577.5	675.7	4042.8	4802.3	4666.6	1770.2
80°	404.3	404.3	444.7	453.4	479.4	485.1	450.5	1559.4	1648.9	1498.7	459.2
82.5°	265.7	265.7	309.0	314.8	340.8	378.3	326.3	467.8	456.3	433.2	207.9
85°	144.4	138.6	153.1	173.3	187.7	222.4	196.4	233.9	239.7	236.8	138.6
87.5°	28.9	26.0	40.4	46.2	52.0	69.3	63.5	95.3	132.8	129.9	60.6
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°	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0	3679.0
2.5°	3702.1	3699.2	3731.0	3768.5	3811.8	3837.8	3849.4	3869.6	3855.1	3860.9	3878.2
5°	3757.0	3765.6	3811.8	3860.9	3881.1	3866.7	3834.9	3823.4	3797.4	3791.6	3785.8
7.5°	3837.8	3852.3	3898.5	3910.0	3849.4	3748.3	3676.1	3635.7	3592.4	3580.8	3575.0
10°	3970.7	3979.3	3990.9	3872.5	3722.3	3586.6	3497.1	3459.5	3430.6	3407.5	3413.3
12.5°	4138.1	4132.4	4042.8	3797.4	3583.7	3445.1	3384.4	3361.3	3341.1	3326.7	3323.8
15°	4348.9	4308.5	4051.5	3693.4	3453.7	3338.2	3294.9	3286.3	3263.2	3263.2	3260.3
17.5°	4562.6	4458.7	4045.7	3583.7	3329.6	3266.0	3240.1	3234.3	3228.5	3225.6	3234.3
20°	4776.3	4591.5	3999.5	3448.0	3242.9	3205.4	3199.6	3202.5	3196.7	3205.4	3199.6
22.5°	4964.0	4678.2	3912.9	3303.6	3182.3	3179.4	3165.0	3170.7	3191.0	3193.8	3202.5
25°	5108.4	4709.9	3785.8	3170.7	3139.0	3133.2	3150.5	3173.6	3191.0	3193.8	3208.3
27.5°	5226.8	4692.6	3627.0	3066.8	3063.9	3095.7	3147.6	3156.3	3159.2	3159.2	3147.6
30°	5316.3	4655.0	3424.9	2951.3	2965.7	3043.7	3092.8	3092.8	3069.7	3063.9	3081.2
32.5°	5336.6	4606.0	3205.4	2832.9	2856.0	2948.4	3009.0	2988.8	2962.8	2962.8	2974.4
35°	5353.9	4539.5	3029.2	2671.2	2705.8	2815.6	2873.3	2832.9	2804.0	2795.3	2792.5
37.5°	5348.1	4513.5	2870.4	2466.1	2512.3	2619.2	2656.7	2619.2	2575.9	2555.7	2581.6
40°	5353.9	4496.2	2671.2	2240.9	2287.1	2350.6	2399.7	2370.8	2330.4	2278.4	2304.4
42.5°	5388.5	4519.3	2451.7	2021.4	2021.4	2056.1	2139.8	2119.6	2021.4	2001.2	2024.3
45°	5573.4	4643.5	2232.2	1802.0	1770.2	1793.3	1879.9	1793.3	1732.6	1732.6	1752.9
47.5°	6021.0	4874.5	2038.7	1608.5	1533.4	1579.6	1602.7	1521.8	1475.6	1464.1	1484.3
50°	6933.5	5336.6	1923.2	1449.6	1357.2	1391.9	1377.5	1374.6	1328.4	1334.1	1345.7
52.5°	8319.6	6237.5	1888.6	1371.7	1256.2	1264.8	1250.4	1256.2	1247.5	1276.4	1285.0
55°	9829.9	7187.6	1931.9	1383.2	1186.9	1126.2	1132.0	1160.9	1195.5	1241.7	1250.4
57.5°	10959.0	7664.1	2044.5	1461.2	1100.2	1007.8	1022.3	1077.1	1143.5	1181.1	1201.3
60°	11799.3	7606.3	2209.1	1481.4	996.3	901.0	927.0	1007.8	1065.6	1097.3	1117.6
62.5°	12073.7	7245.4	2249.6	1334.1	860.5	799.9	863.4	947.2	973.2	1007.8	1022.3
65°	11848.4	6734.2	1955.0	1082.9	756.6	724.8	817.2	880.8	915.4	932.7	935.6
66°	11582.8	6428.1	1796.2	984.7	719.0	701.7	799.9	851.9	886.5	883.7	886.5
67.5°	10999.4	5787.0	1539.2	846.1	664.2	667.1	771.0	805.7	817.2	808.6	808.6
70°	9015.5	4074.6	1103.1	641.1	583.3	623.8	693.1	701.7	727.7	716.2	716.2
72.5°	5558.9	2001.2	739.3	490.9	519.8	583.3	580.4	609.3	670.0	687.3	698.8
75°	2731.8	811.5	488.0	415.8	464.9	488.0	482.3	554.4	641.1	716.2	742.2
77.5°	1036.7	404.3	340.8	363.9	375.4	366.7	384.1	502.5	641.1	776.8	802.8
80°	320.5	280.1	268.6	300.3	283.0	268.6	288.8	415.8	542.9	589.1	589.1
82.5°	193.5	219.5	207.9	205.0	190.6	193.5	207.9	297.4	418.7	438.9	438.9
85°	135.7	144.4	118.4	112.6	109.7	106.8	106.8	173.3	248.3	245.5	254.1
87.5°	52.0	57.8	43.3	43.3	40.4	28.9	23.1	28.9	28.9	20.2	14.4
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)