

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: P1211225

Luminaire Tested: **ARCH4-210-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211225
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: ARCH4-210-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30304 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 213.1
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



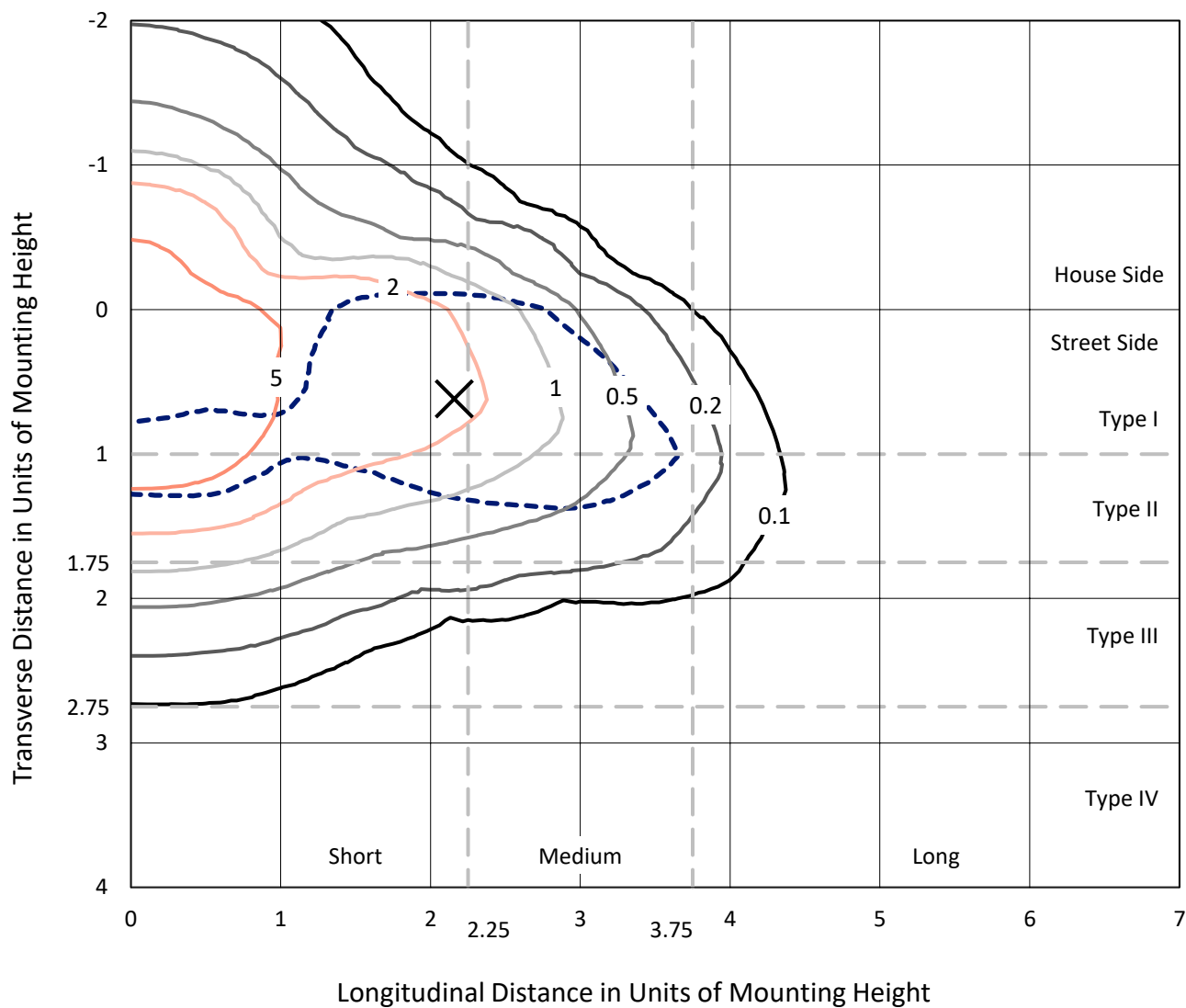
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

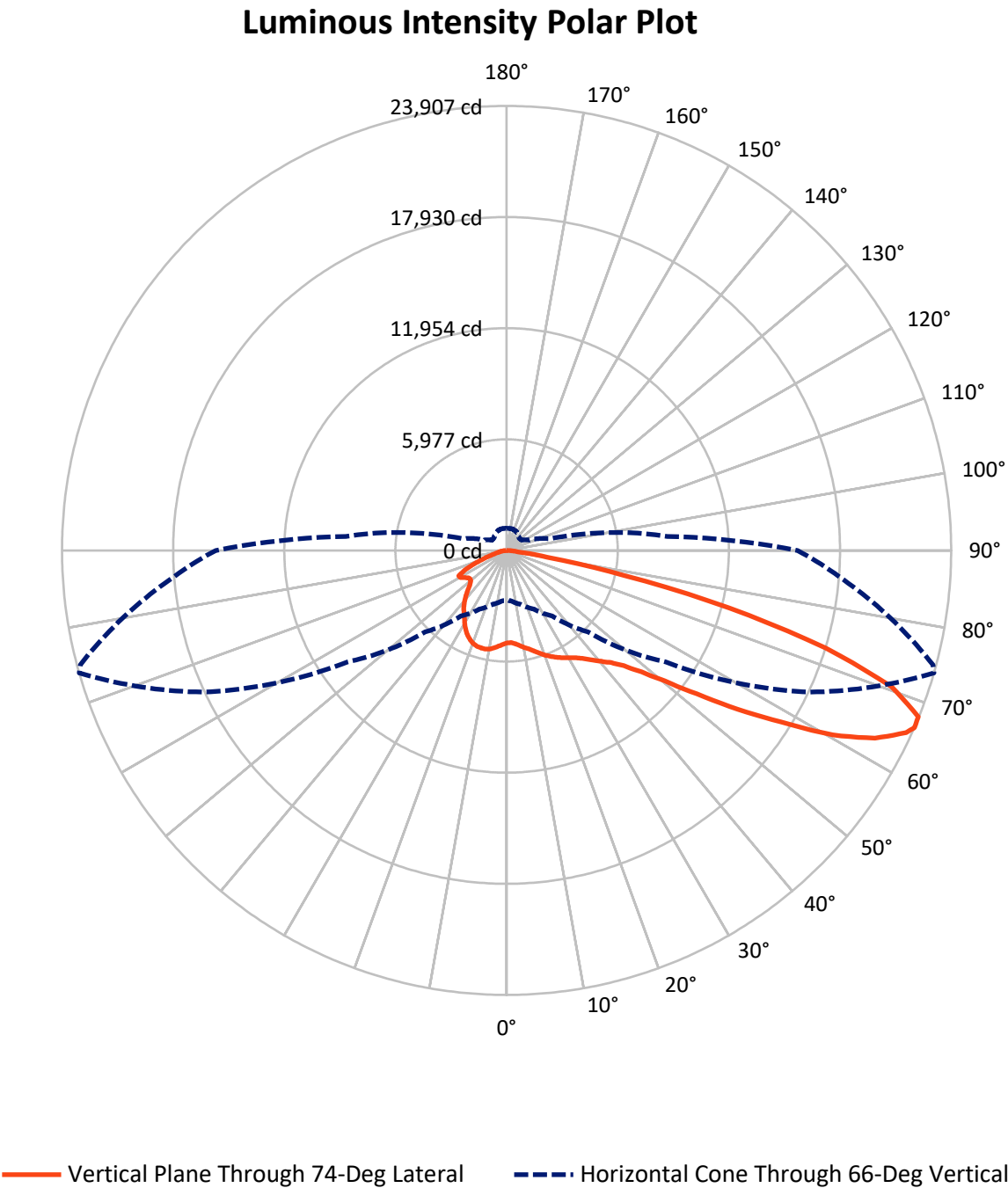
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc

Type II - Short - N/A

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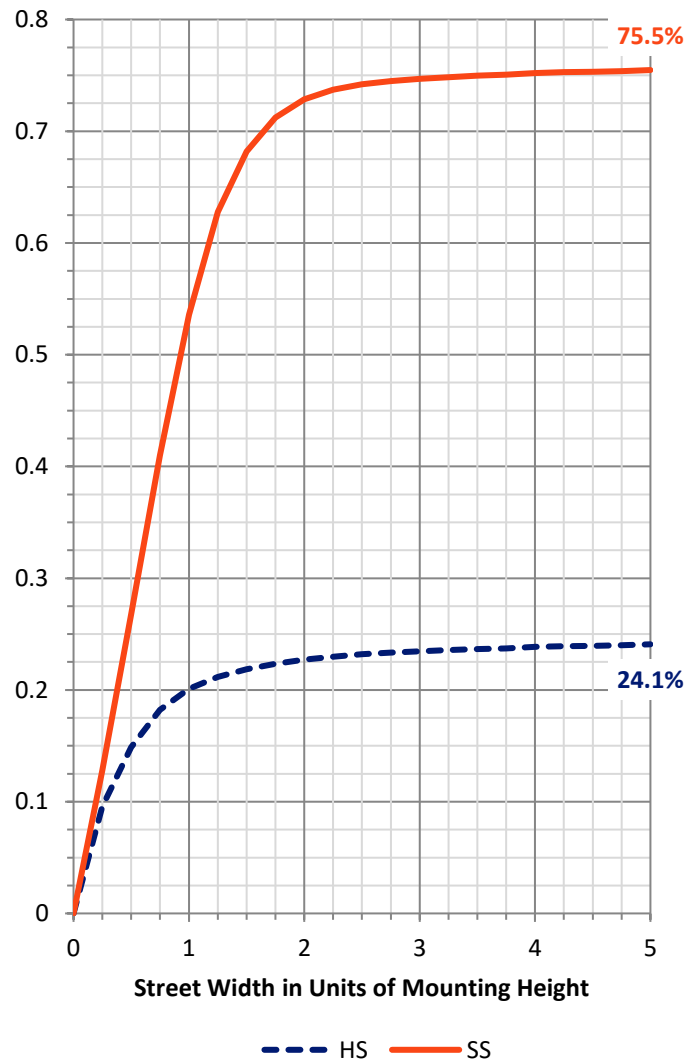
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7379.8	0.0	7379.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	22924.2	0.0	22924.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	30304.0	0.0	30304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.9	1.6
10°-20°	1457.3	4.8
20°-30°	2734.6	9.0
30°-40°	4206.5	13.9
40°-50°	5658.1	18.7
50°-60°	6691.4	22.1
60°-70°	6189.9	20.4
70°-80°	2604.1	8.6
80°-90°	288.2	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°	30304.0	100.0
0°-180°	30304.0	100.0

Coefficient of Utilization



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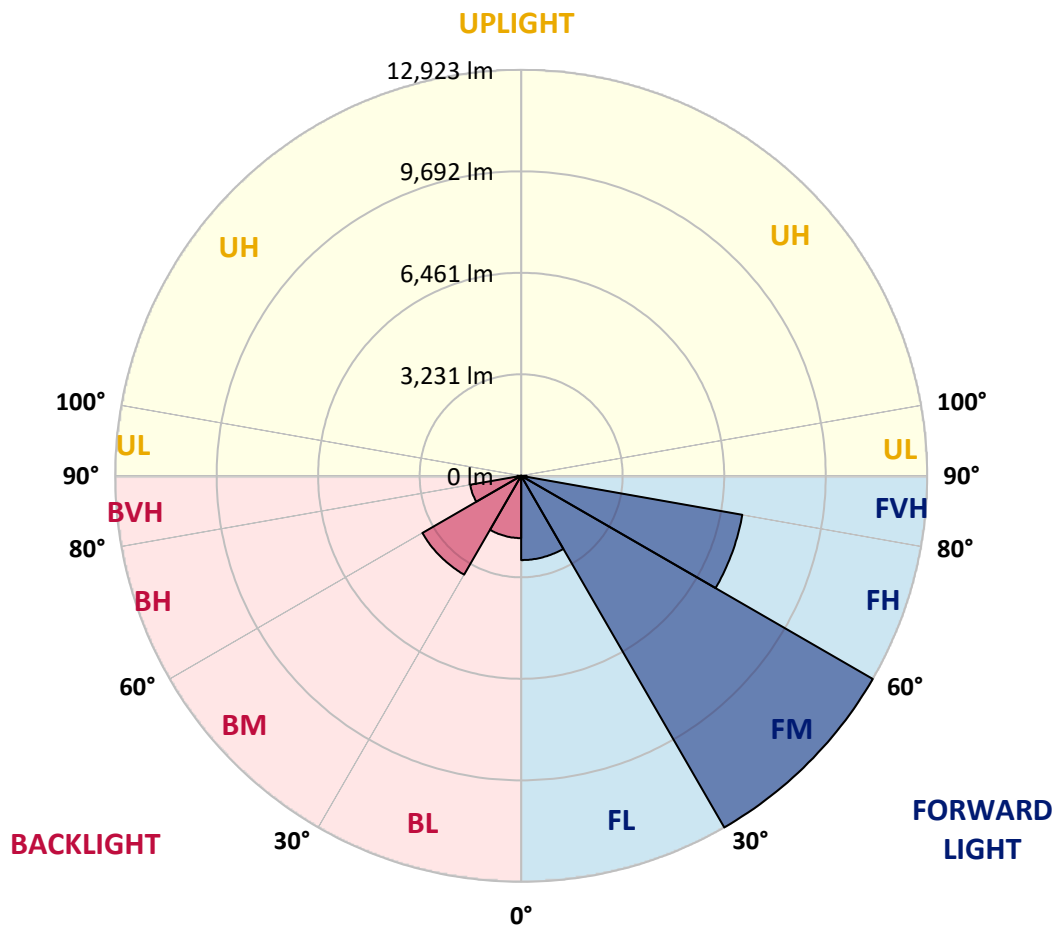
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2682.3	8.9			
FM	(30°-60°)	12923.0	42.6			
FH	(60°-80°)	7146.5	23.6			G3/7500
FVH	(80°-90°)	172.4	0.6			G2/225
BL	(0°-30°)	1983.5	6.5	B3/2500		
BM	(30°-60°)	3633.1	12.0	B3/5000		
BH	(60°-80°)	1647.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	115.8	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4967.8	4967.8	4967.8	4967.8	4967.8	4967.8	4967.8	4967.8	4967.8	4967.8	4967.8
2.5°	4952.2	4944.4	4960.0	4983.4	4995.1	4975.6	4967.8	4963.9	4963.9	4952.2	4971.7
5°	4718.3	4714.4	4749.5	4792.4	4874.2	4932.7	5010.7	5057.5	5041.9	5018.5	5034.1
7.5°	4414.1	4406.3	4449.2	4531.1	4644.2	4772.9	4963.9	5112.1	5170.6	5162.8	5158.9
10°	4531.1	4523.3	4519.4	4496.0	4535.0	4659.8	4858.6	5119.9	5318.8	5322.7	5326.6
12.5°	4936.6	4956.1	4936.6	4862.5	4776.8	4730.0	4847.0	5139.4	5443.6	5467.0	5564.4
15°	5490.4	5470.9	5431.9	5346.1	5213.5	5073.1	4987.3	5229.1	5622.9	5642.4	5856.9
17.5°	5977.8	5993.4	5970.0	5888.1	5732.1	5548.8	5287.6	5385.1	5814.0	5868.6	6168.8
20°	6508.1	6570.5	6539.3	6437.9	6309.2	6036.3	5708.7	5611.2	6024.6	6063.6	6492.5
22.5°	7120.3	7186.6	7128.1	7030.6	6925.3	6590.0	6168.8	5888.1	6200.0	6281.9	6804.4
25°	7853.4	7915.8	7861.2	7709.1	7576.5	7167.1	6664.1	6200.0	6371.6	6461.3	7057.9
27.5°	8434.4	8481.2	8531.9	8442.2	8239.4	7814.4	7178.8	6523.7	6543.2	6636.8	7291.9
30°	8953.0	9070.0	9112.9	9124.6	8953.0	8477.3	7705.2	6859.0	6691.4	6788.9	7525.8
32.5°	9662.7	9838.2	9768.0	9838.2	9736.8	9101.2	8251.1	7206.1	6882.4	6972.1	7748.1
35°	10699.9	10840.3	10657.1	10602.5	10438.7	9732.9	8777.5	7564.8	7135.9	7233.4	7958.7
37.5°	11815.2	11975.1	11709.9	11491.5	11179.6	10356.8	9229.9	8036.7	7486.8	7564.8	8153.6
40°	12790.0	12922.6	12692.5	12404.0	11881.5	10906.6	9619.8	8368.1	7837.8	7935.3	8379.8
42.5°	13690.8	13776.6	13519.2	13242.4	12544.4	11401.8	10041.0	8719.1	8247.2	8340.8	8563.1
45°	14603.2	14669.5	14310.8	13917.0	13098.1	11854.2	10505.0	9210.4	8847.7	8972.5	8859.4
47.5°	14767.0	14786.5	14724.1	14459.0	13534.8	12287.0	11078.2	9869.4	9764.1	9900.6	9370.3
50°	13632.3	13807.8	14193.8	14455.1	13710.3	12649.6	11651.4	10813.0	11027.5	11203.0	10430.9
52.5°	11429.1	11596.8	12489.8	13480.2	13289.1	12731.5	12267.5	12010.1	12809.5	13020.1	11873.7
55°	9105.1	9253.3	10196.9	11624.1	11928.3	12357.2	12926.5	13538.7	15082.9	15223.3	13456.8
57.5°	7498.5	7580.4	8255.0	9627.6	10115.0	11160.1	13281.3	15355.8	17395.2	17609.7	14833.3
60°	6149.4	6239.0	6742.1	7872.9	8520.2	9448.2	13000.6	17149.6	20156.0	20156.0	16599.7
62.5°	4628.6	4706.6	5174.5	6059.7	7147.6	7997.7	12103.7	18338.9	22238.3	22144.7	17878.7
65°	3178.0	3240.4	3579.6	4168.5	5147.2	6816.1	10879.3	18354.5	23618.7	23493.9	18424.7
66°	2667.2	2721.8	3010.3	3486.1	4308.8	6184.4	10446.5	18023.0	23907.2	23731.7	18194.6
67.5°	2105.7	2144.7	2335.7	2616.5	3158.5	5006.8	9764.1	17083.3	23879.9	23774.6	17609.7
70°	1505.2	1532.5	1672.8	1731.3	1867.8	2897.3	7755.9	14962.0	21965.3	21996.5	15309.0
72.5°	1165.9	1208.8	1294.6	1306.3	1275.1	1540.3	4706.6	12482.0	17968.4	17956.7	11362.8
75°	939.8	963.2	1006.0	1029.4	1021.6	994.3	1992.6	9311.8	12368.9	12513.2	6363.8
77.5°	740.9	737.0	776.0	807.2	830.6	779.9	912.5	5459.2	6484.7	6301.4	2390.3
80°	545.9	545.9	600.5	612.2	647.3	655.1	608.3	2105.7	2226.6	2023.8	620.0
82.5°	358.7	358.7	417.2	425.0	460.1	510.8	440.6	631.7	616.1	584.9	280.8
85°	195.0	187.2	206.7	234.0	253.5	300.3	265.2	315.9	323.7	319.8	187.2
87.5°	39.0	35.1	54.6	62.4	70.2	93.6	85.8	128.7	179.4	175.5	81.9
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°	4967.8	4967.8	4967.8	4967.8	4967.8	4967.8	4967.8	4967.8	4967.8	4967.8	4967.8
2.5°	4999.0	4995.1	5038.0	5088.7	5147.2	5182.3	5197.9	5225.2	5205.7	5213.5	5236.9
5°	5073.1	5084.8	5147.2	5213.5	5240.8	5221.3	5178.4	5162.8	5127.7	5119.9	5112.1
7.5°	5182.3	5201.8	5264.2	5279.8	5197.9	5061.4	4963.9	4909.3	4850.9	4835.3	4827.5
10°	5361.7	5373.4	5389.0	5229.1	5026.3	4843.1	4722.2	4671.5	4632.5	4601.3	4609.1
12.5°	5587.8	5580.0	5459.2	5127.7	4839.2	4652.0	4570.1	4538.9	4511.6	4492.1	4488.2
15°	5872.5	5817.9	5470.9	4987.3	4663.7	4507.7	4449.2	4437.5	4406.3	4406.3	4402.4
17.5°	6161.0	6020.7	5463.1	4839.2	4496.0	4410.2	4375.1	4367.3	4359.5	4355.6	4367.3
20°	6449.6	6200.0	5400.7	4655.9	4379.0	4328.3	4320.5	4324.4	4316.6	4328.3	4320.5
22.5°	6703.1	6317.0	5283.7	4460.9	4297.1	4293.2	4273.7	4281.5	4308.8	4312.7	4324.4
25°	6898.0	6359.9	5112.1	4281.5	4238.6	4230.8	4254.2	4285.4	4308.8	4312.7	4332.2
27.5°	7057.9	6336.5	4897.6	4141.2	4137.3	4180.2	4250.3	4262.0	4265.9	4265.9	4250.3
30°	7178.8	6285.8	4624.7	3985.2	4004.7	4110.0	4176.3	4176.3	4145.1	4137.3	4160.7
32.5°	7206.1	6219.5	4328.3	3825.3	3856.5	3981.3	4063.2	4035.9	4000.8	4000.8	4016.4
35°	7229.5	6129.9	4090.5	3606.9	3653.7	3801.9	3879.9	3825.3	3786.3	3774.6	3770.7
37.5°	7221.7	6094.8	3876.0	3330.1	3392.5	3536.8	3587.4	3536.8	3478.3	3451.0	3486.1
40°	7229.5	6071.4	3606.9	3025.9	3088.3	3174.1	3240.4	3201.4	3146.8	3076.6	3111.7
42.5°	7276.3	6102.6	3310.6	2729.6	2729.6	2776.4	2889.5	2862.2	2729.6	2702.3	2733.5
45°	7525.8	6270.2	3014.2	2433.2	2390.3	2421.5	2538.5	2421.5	2339.6	2339.6	2366.9
47.5°	8130.2	6582.2	2753.0	2172.0	2070.6	2133.0	2164.2	2055.0	1992.6	1977.0	2004.3
50°	9362.5	7206.1	2597.0	1957.5	1832.7	1879.5	1860.0	1856.1	1793.7	1801.5	1817.1
52.5°	11234.2	8422.7	2550.2	1852.2	1696.2	1707.9	1688.4	1696.2	1684.5	1723.5	1735.2
55°	13273.6	9705.6	2608.7	1867.8	1602.7	1520.8	1528.6	1567.6	1614.4	1676.7	1688.4
57.5°	14798.2	10349.0	2760.8	1973.1	1485.7	1360.9	1380.4	1454.5	1544.2	1594.9	1622.1
60°	15932.9	10271.0	2983.0	2000.4	1345.3	1216.6	1251.7	1360.9	1438.9	1481.8	1509.1
62.5°	16303.4	9783.6	3037.6	1801.5	1162.0	1080.1	1165.9	1279.0	1314.1	1360.9	1380.4
65°	15999.2	9093.4	2639.9	1462.3	1021.6	978.7	1103.5	1189.3	1236.1	1259.5	1263.4
66°	15640.5	8680.1	2425.4	1329.7	971.0	947.6	1080.1	1150.3	1197.1	1193.2	1197.1
67.5°	14852.8	7814.4	2078.4	1142.5	896.9	900.8	1041.1	1087.9	1103.5	1091.8	1091.8
70°	12173.9	5502.1	1489.6	865.7	787.7	842.3	935.9	947.6	982.6	967.1	967.1
72.5°	7506.3	2702.3	998.2	662.9	701.9	787.7	783.8	822.8	904.7	928.1	943.7
75°	3688.8	1095.7	659.0	561.5	627.8	659.0	651.2	748.7	865.7	967.1	1002.1
77.5°	1399.9	545.9	460.1	491.3	506.9	495.2	518.6	678.5	865.7	1048.9	1084.0
80°	432.8	378.2	362.6	405.5	382.1	362.6	389.9	561.5	733.1	795.5	795.5
82.5°	261.3	296.4	280.8	276.9	257.4	261.3	280.8	401.6	565.4	592.7	592.7
85°	183.3	195.0	159.9	152.1	148.2	144.3	144.3	234.0	335.3	331.4	343.1
87.5°	70.2	78.0	58.5	58.5	54.6	39.0	31.2	39.0	39.0	27.3	19.5
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)