

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: P1211349

Luminaire Tested: **ARCH4-250-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211349
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: ARCH4-250-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31180 lumens
Efficiency: N/A
Efficacy: 125.0 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): 249.5
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

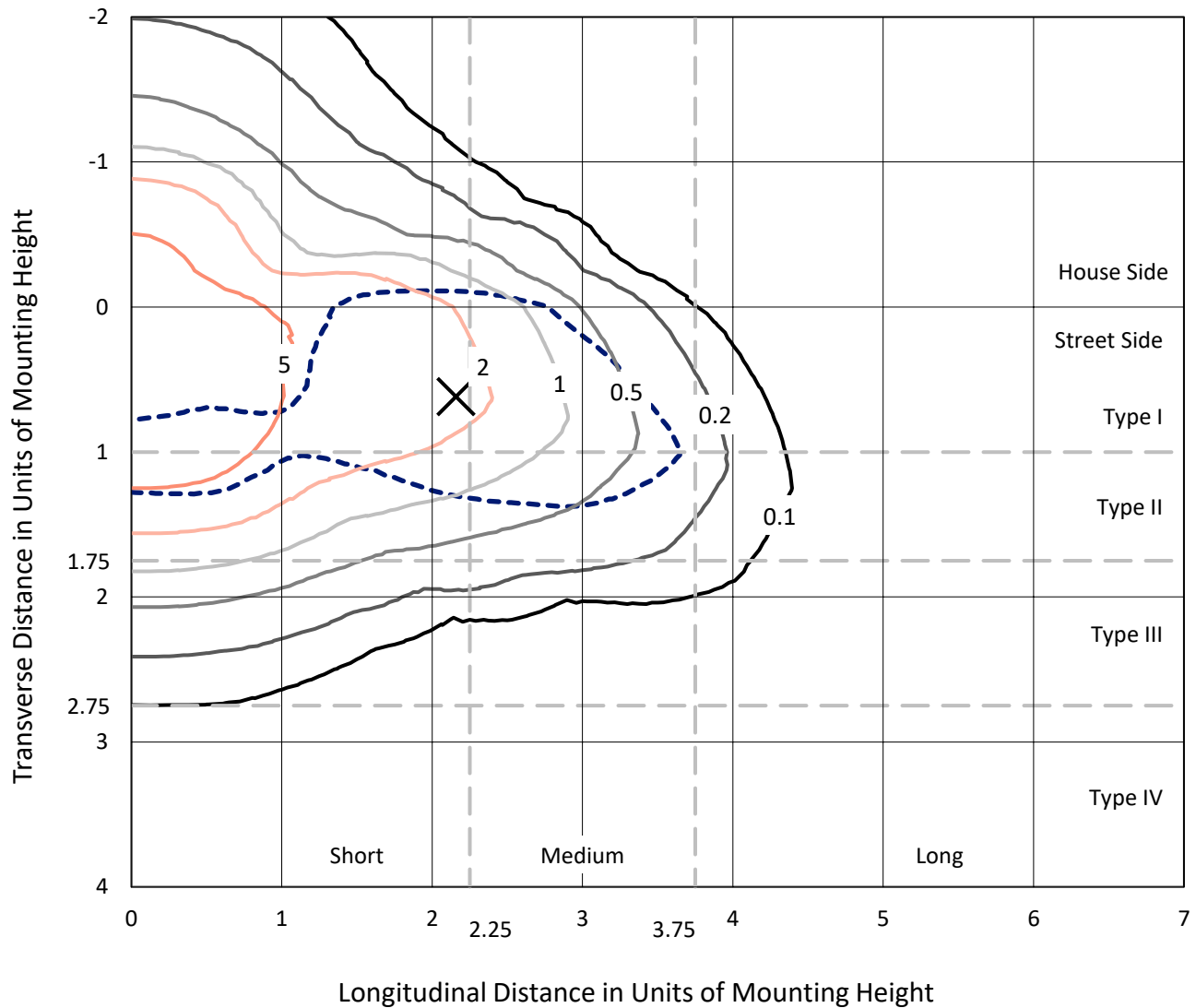


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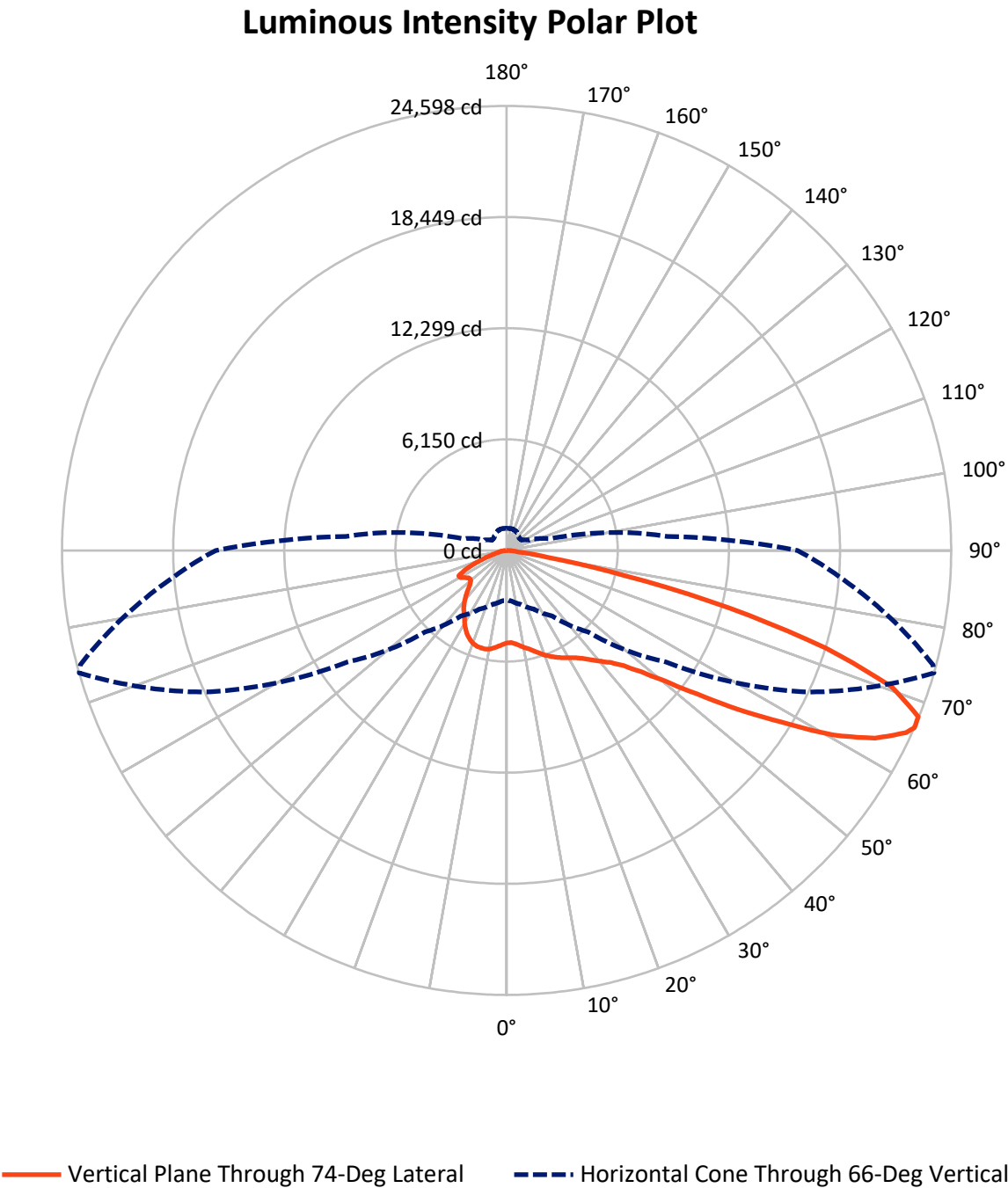
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type II - Short - N/A

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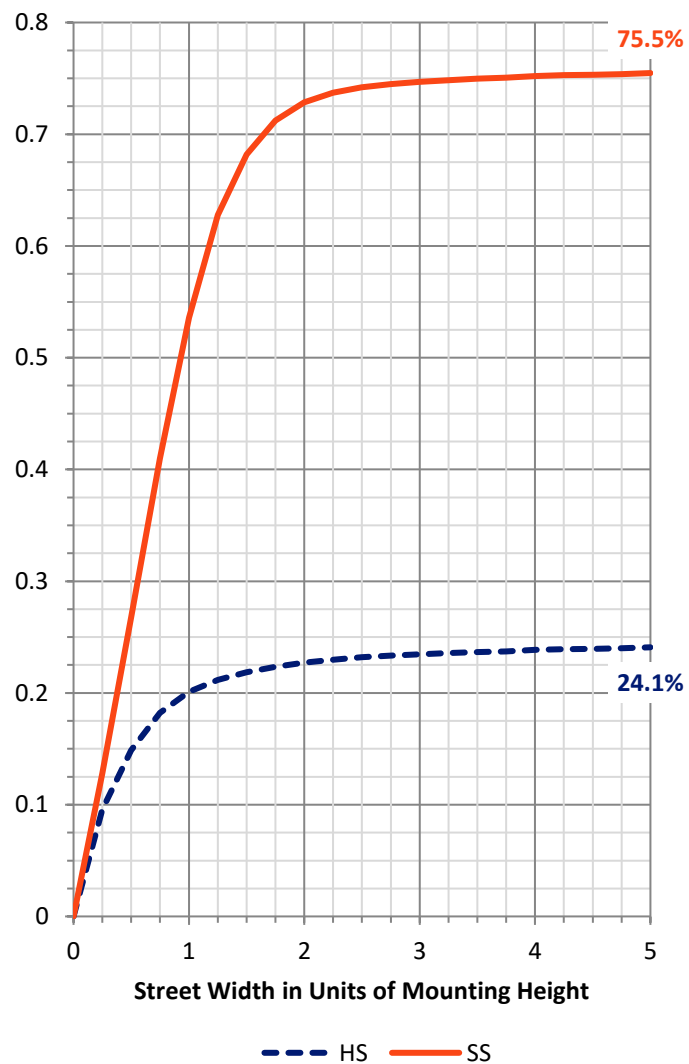
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7593.2	0.0	7593.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	23586.8	0.0	23586.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	31180.0	0.0	31180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.6	1.6
10°-20°	1499.4	4.8
20°-30°	2813.7	9.0
30°-40°	4328.1	13.9
40°-50°	5821.7	18.7
50°-60°	6884.8	22.1
60°-70°	6368.8	20.4
70°-80°	2679.3	8.6
80°-90°	296.5	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°	31180.0	100.0
0°-180°	31180.0	100.0

Coefficient of Utilization



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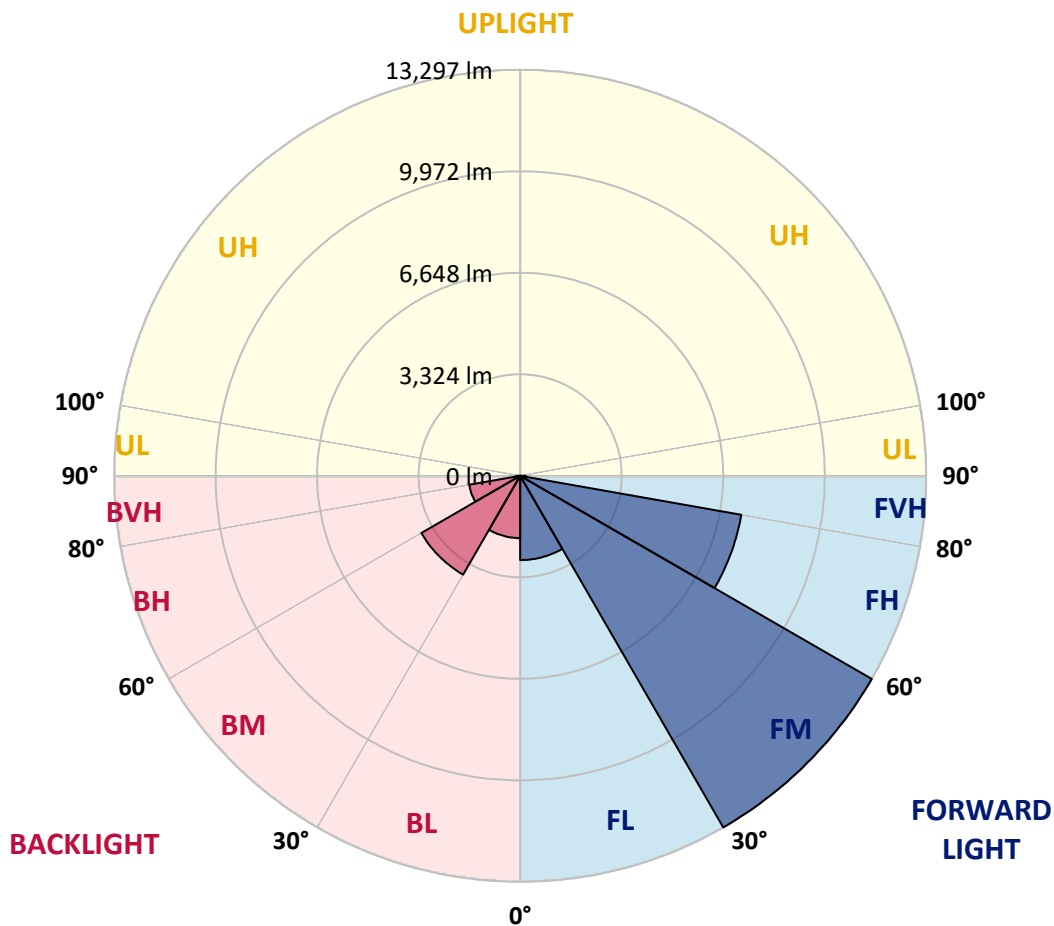
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2759.8	8.9			
FM	(30°-60°)	13296.5	42.6			
FH	(60°-80°)	7353.1	23.6			G3/7500
FVH	(80°-90°)	177.4	0.6			G2/225
BL	(0°-30°)	2040.9	6.5	B3/2500		
BM	(30°-60°)	3738.1	12.0	B3/5000		
BH	(60°-80°)	1695.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	119.1	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°	5111.4	5111.4	5111.4	5111.4	5111.4	5111.4	5111.4	5111.4	5111.4	5111.4	5111.4
2.5°	5095.4	5087.4	5103.4	5127.5	5139.5	5119.5	5111.4	5107.4	5107.4	5095.4	5115.5
5°	4854.7	4850.7	4886.8	4930.9	5015.1	5075.3	5155.6	5203.7	5187.7	5163.6	5179.6
7.5°	4541.7	4533.7	4577.8	4662.1	4778.4	4910.8	5107.4	5259.9	5320.1	5312.0	5308.0
10°	4662.1	4654.1	4650.0	4626.0	4666.1	4794.5	4999.1	5267.9	5472.5	5476.5	5480.6
12.5°	5079.3	5099.4	5079.3	5003.1	4914.8	4866.7	4987.1	5288.0	5600.9	5625.0	5725.3
15°	5649.1	5629.0	5588.9	5500.6	5364.2	5219.8	5131.5	5380.3	5785.5	5805.5	6026.2
17.5°	6150.6	6166.6	6142.6	6058.3	5897.8	5709.2	5440.4	5540.7	5982.1	6038.2	6347.2
20°	6696.2	6760.4	6728.3	6624.0	6491.6	6210.8	5873.7	5773.4	6198.7	6238.8	6680.2
22.5°	7326.1	7394.3	7334.2	7233.8	7125.5	6780.5	6347.2	6058.3	6379.3	6463.5	7001.1
25°	8080.4	8144.6	8088.4	7932.0	7795.5	7374.3	6856.7	6379.3	6555.8	6648.1	7261.9
27.5°	8678.2	8726.4	8778.5	8686.2	8477.6	8040.3	7386.3	6712.3	6732.3	6828.6	7502.7
30°	9211.8	9332.2	9376.3	9388.4	9211.8	8722.3	7927.9	7057.3	6884.8	6985.1	7743.4
32.5°	9942.0	10122.6	10050.4	10122.6	10018.3	9364.3	8489.6	7414.4	7081.4	7173.7	7972.1
35°	11009.3	11153.7	10965.1	10908.9	10740.4	10014.2	9031.3	7783.5	7342.2	7442.5	8188.7
37.5°	12156.7	12321.2	12048.4	11823.7	11502.7	10656.2	9496.7	8269.0	7703.3	7783.5	8389.3
40°	13159.7	13296.2	13059.4	12762.5	12224.9	11221.9	9897.9	8610.0	8064.4	8164.7	8622.0
42.5°	14086.5	14174.8	13910.0	13625.2	12907.0	11731.4	10331.2	8971.1	8485.6	8581.9	8810.6
45°	15025.4	15093.6	14724.5	14319.3	13476.7	12196.8	10808.6	9476.6	9103.5	9231.9	9115.5
47.5°	15193.9	15214.0	15149.8	14876.9	13926.1	12642.2	11398.4	10154.7	10046.3	10186.8	9641.1
50°	14026.4	14206.9	14604.1	14872.9	14106.6	13015.3	11988.2	11125.6	11346.3	11526.8	10732.4
52.5°	11759.5	11932.0	12850.8	13869.9	13673.3	13099.6	12622.1	12357.3	13179.8	13396.5	12216.9
55°	9368.3	9520.8	10491.7	11960.1	12273.1	12714.4	13300.2	13930.1	15518.9	15663.3	13845.8
57.5°	7715.3	7799.6	8493.7	9905.9	10407.4	11482.7	13665.3	15799.7	17898.1	18118.7	15262.1
60°	6327.1	6419.4	6937.0	8100.5	8766.5	9721.4	13376.4	17645.3	20738.6	20738.6	17079.6
62.5°	4762.4	4842.6	5324.1	6234.8	7354.2	8228.9	12453.6	18869.0	22881.1	22784.8	18395.6
65°	3269.9	3334.1	3683.1	4289.0	5296.0	7013.2	11193.8	18885.0	24301.4	24173.0	18957.3
66°	2744.3	2800.5	3097.4	3586.8	4433.4	6363.2	10748.5	18544.0	24598.3	24417.8	18720.5
67.5°	2166.5	2206.7	2403.3	2692.1	3249.8	5151.6	10046.3	17577.1	24570.2	24461.9	18118.7
70°	1548.7	1576.8	1721.2	1781.4	1921.8	2981.0	7980.1	15394.5	22600.3	22632.4	15751.6
72.5°	1199.6	1243.8	1332.0	1344.1	1312.0	1584.8	4842.6	12842.8	18487.8	18475.8	11691.3
75°	966.9	991.0	1035.1	1059.2	1051.2	1023.1	2050.2	9580.9	12726.4	12874.9	6547.8
77.5°	762.3	758.3	798.4	830.5	854.6	802.4	938.8	5617.0	6672.2	6483.6	2459.4
80°	561.7	561.7	617.9	629.9	666.0	674.0	625.9	2166.5	2290.9	2082.3	637.9
82.5°	369.1	369.1	429.3	437.3	473.4	525.6	453.4	650.0	633.9	601.8	288.9
85°	200.6	192.6	212.6	240.7	260.8	308.9	272.8	325.0	333.0	329.0	192.6
87.5°	40.1	36.1	56.2	64.2	72.2	96.3	88.3	132.4	184.6	180.5	84.3
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°	5111.4	5111.4	5111.4	5111.4	5111.4	5111.4	5111.4	5111.4	5111.4	5111.4	5111.4
2.5°	5143.5	5139.5	5183.7	5235.8	5296.0	5332.1	5348.2	5376.2	5356.2	5364.2	5388.3
5°	5219.8	5231.8	5296.0	5364.2	5392.3	5372.2	5328.1	5312.0	5275.9	5267.9	5259.9
7.5°	5332.1	5352.2	5416.4	5432.4	5348.2	5207.7	5107.4	5051.3	4991.1	4975.0	4967.0
10°	5516.7	5528.7	5544.7	5380.3	5171.6	4983.1	4858.7	4806.5	4766.4	4734.3	4742.3
12.5°	5749.4	5741.3	5617.0	5275.9	4979.0	4786.5	4702.2	4670.1	4642.0	4622.0	4617.9
15°	6042.3	5986.1	5629.0	5131.5	4798.5	4638.0	4577.8	4565.8	4533.7	4533.7	4529.7
17.5°	6339.1	6194.7	5621.0	4979.0	4626.0	4537.7	4501.6	4493.6	4485.5	4481.5	4493.6
20°	6636.0	6379.3	5556.8	4790.5	4505.6	4453.5	4445.4	4449.4	4441.4	4453.5	4445.4
22.5°	6896.8	6499.6	5436.4	4589.9	4421.4	4417.3	4397.3	4405.3	4433.4	4437.4	4449.4
25°	7097.4	6543.8	5259.9	4405.3	4361.2	4353.1	4377.2	4409.3	4433.4	4437.4	4457.5
27.5°	7261.9	6519.7	5039.2	4260.9	4256.9	4301.0	4373.2	4385.2	4389.3	4389.3	4373.2
30°	7386.3	6467.5	4758.4	4100.4	4120.4	4228.8	4297.0	4297.0	4264.9	4256.9	4280.9
32.5°	7414.4	6399.3	4453.5	3935.9	3968.0	4096.4	4180.6	4152.5	4116.4	4116.4	4132.5
35°	7438.5	6307.0	4208.7	3711.2	3759.4	3911.8	3992.1	3935.9	3895.8	3883.7	3879.7
37.5°	7430.4	6270.9	3988.0	3426.3	3490.5	3639.0	3691.1	3639.0	3578.8	3550.7	3586.8
40°	7438.5	6246.9	3711.2	3113.4	3177.6	3265.9	3334.1	3293.9	3237.8	3165.6	3201.7
42.5°	7486.6	6279.0	3406.3	2808.5	2808.5	2856.6	2973.0	2944.9	2808.5	2780.4	2812.5
45°	7743.4	6451.5	3101.4	2503.6	2459.4	2491.5	2611.9	2491.5	2407.3	2407.3	2435.4
47.5°	8365.3	6772.5	2832.6	2234.7	2130.4	2194.6	2226.7	2114.4	2050.2	2034.1	2062.2
50°	9633.1	7414.4	2672.1	2014.1	1885.7	1933.8	1913.8	1909.8	1845.6	1853.6	1869.6
52.5°	11558.9	8666.2	2623.9	1905.8	1745.3	1757.3	1737.2	1745.3	1733.2	1773.4	1785.4
55°	13657.3	9986.2	2684.1	1921.8	1649.0	1564.7	1572.8	1612.9	1661.0	1725.2	1737.2
57.5°	15226.0	10648.2	2840.6	2030.1	1528.6	1400.2	1420.3	1496.5	1588.8	1641.0	1669.0
60°	16393.5	10567.9	3069.3	2058.2	1384.2	1251.8	1287.9	1400.2	1480.5	1524.6	1552.7
62.5°	16774.7	10066.4	3125.4	1853.6	1195.6	1111.4	1199.6	1316.0	1352.1	1400.2	1420.3
65°	16461.7	9356.3	2716.2	1504.5	1051.2	1007.0	1135.4	1223.7	1271.8	1295.9	1299.9
66°	16092.6	8931.0	2495.5	1368.1	999.0	974.9	1111.4	1183.6	1231.7	1227.7	1231.7
67.5°	15282.2	8040.3	2138.5	1175.6	922.8	926.8	1071.2	1119.4	1135.4	1123.4	1123.4
70°	12525.8	5661.1	1532.6	890.7	810.4	866.6	962.9	974.9	1011.1	995.0	995.0
72.5°	7723.3	2780.4	1027.1	682.1	722.2	810.4	806.4	846.6	930.8	954.9	970.9
75°	3795.5	1127.4	678.0	577.7	646.0	678.0	670.0	770.3	890.7	995.0	1031.1
77.5°	1440.4	561.7	473.4	505.5	521.6	509.5	533.6	698.1	890.7	1079.3	1115.4
80°	445.3	389.2	373.1	417.3	393.2	373.1	401.2	577.7	754.3	818.5	818.5
82.5°	268.8	304.9	288.9	284.9	264.8	268.8	288.9	413.2	581.8	609.8	609.8
85°	188.6	200.6	164.5	156.5	152.5	148.4	148.4	240.7	345.0	341.0	353.1
87.5°	72.2	80.2	60.2	60.2	56.2	40.1	32.1	40.1	40.1	28.1	20.1
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)