

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: P1210456

Luminaire Tested: **ARCH3-130-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13013 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 132.6
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

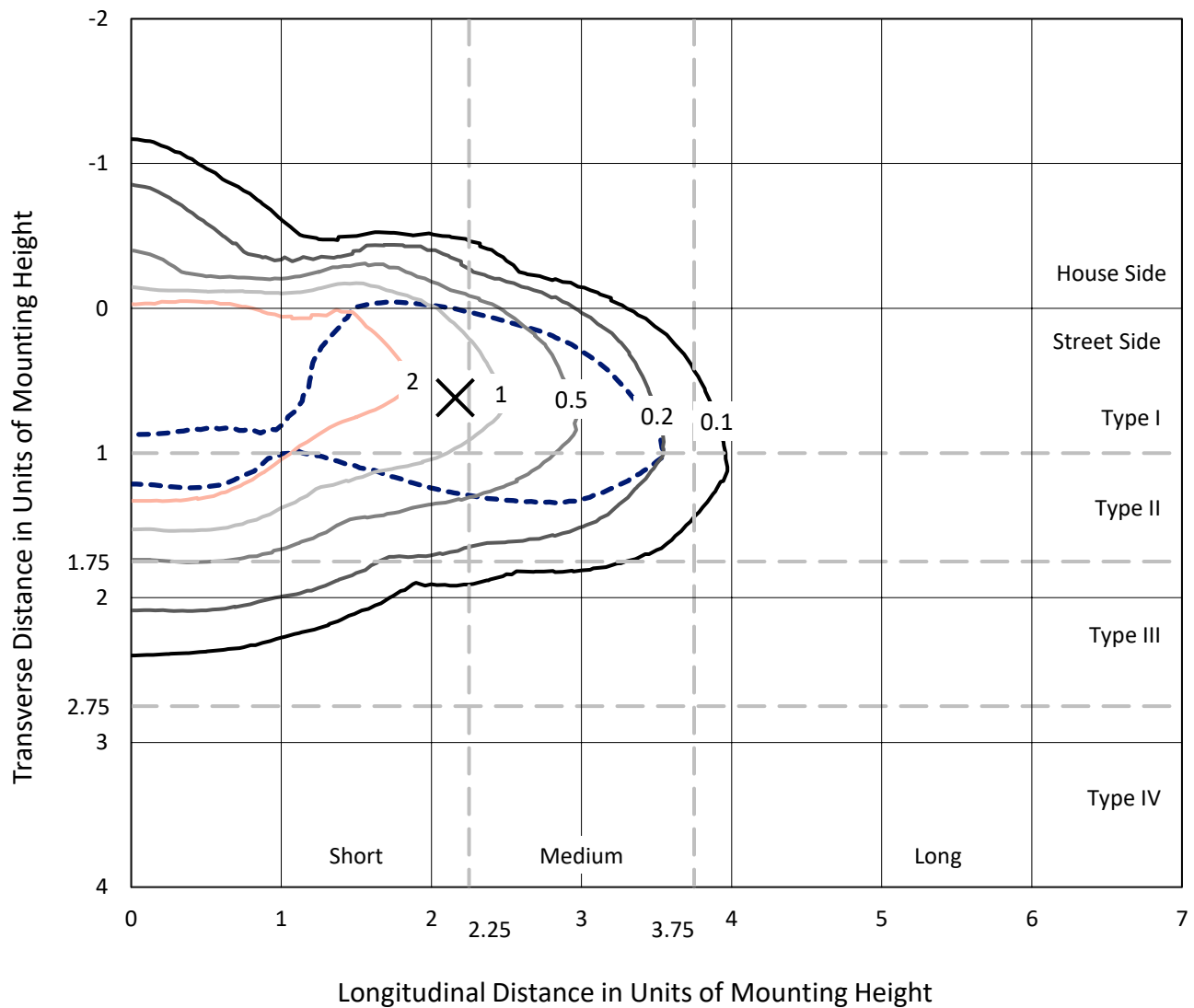


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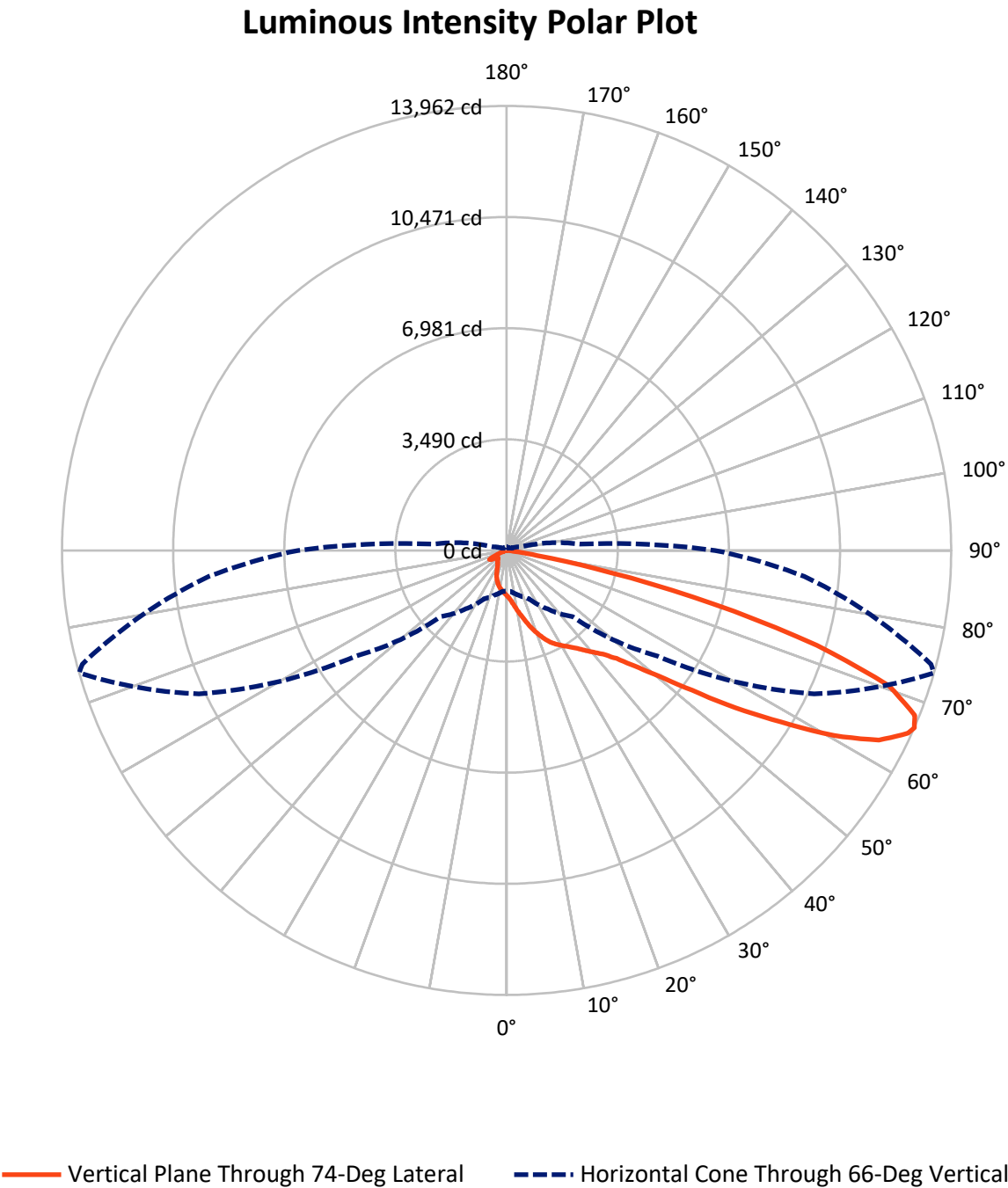
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Short - N/A

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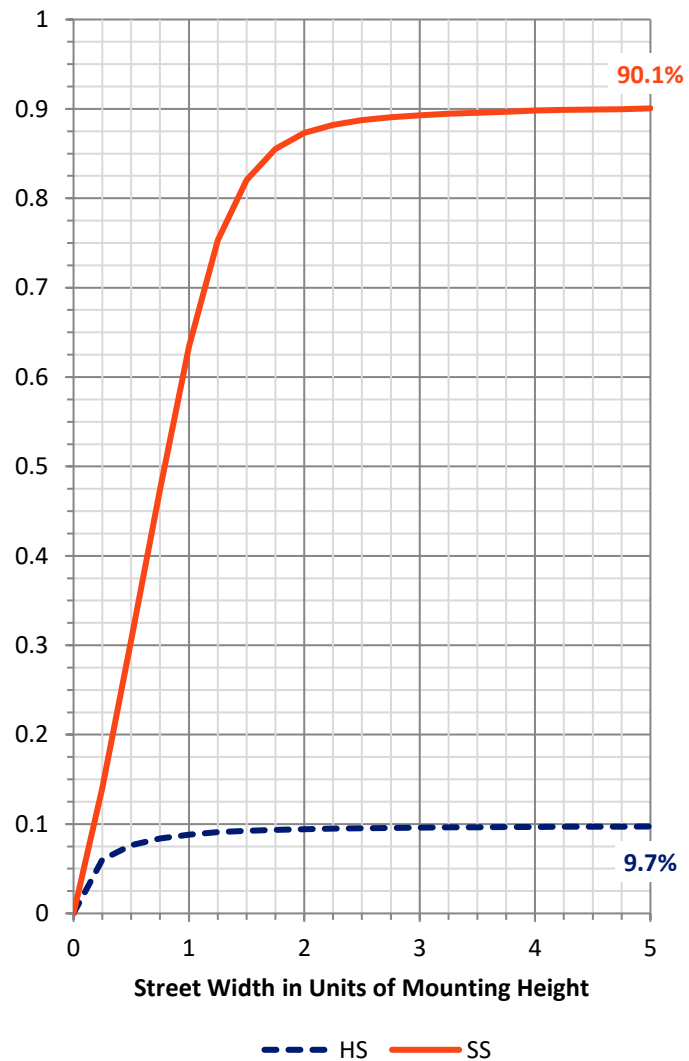
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1275.7	0.0	1275.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	11737.3	0.0	11737.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	13013.0	0.0	13013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	1.1
10°-20°	444.5	3.4
20°-30°	848.3	6.5
30°-40°	1486.8	11.4
40°-50°	2549.5	19.6
50°-60°	3315.8	25.5
60°-70°	3001.6	23.1
70°-80°	1158.2	8.9
80°-90°	69.7	0.5
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°	13013.0	100.0
0°-180°	13013.0	100.0

Coefficient of Utilization



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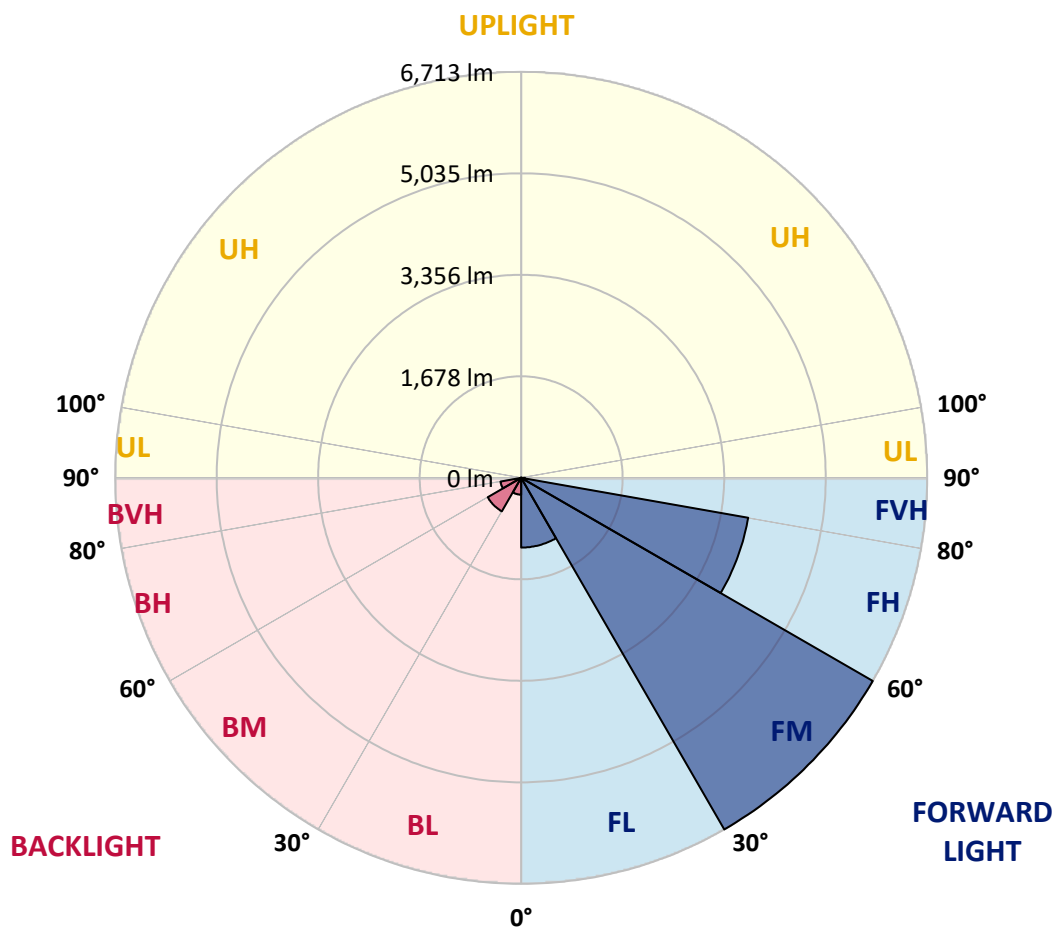
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1153.1	8.9			
FM	(30°-60°)	6712.8	51.6			
FH	(60°-80°)	3811.1	29.3			G2/5000
FVH	(80°-90°)	60.4	0.5			G1/100
BL	(0°-30°)	278.3	2.1	B1/500		
BM	(30°-60°)	639.3	4.9	B1/1000		
BH	(60°-80°)	348.7	2.7	B1/500		G1/500
BVH	(80°-90°)	9.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5
2.5°	1705.5	1691.5	1665.8	1663.5	1642.4	1616.7	1572.3	1525.6	1492.9	1488.2	1448.5
5°	2041.9	2034.9	2009.2	1992.9	1953.2	1892.4	1789.6	1686.8	1600.4	1591.0	1502.3
7.5°	2130.7	2135.4	2140.1	2156.4	2142.4	2114.4	2037.3	1892.4	1756.9	1735.9	1581.7
10°	2144.7	2140.1	2140.1	2161.1	2200.8	2240.5	2231.2	2107.4	1932.1	1906.4	1691.5
12.5°	2296.6	2303.6	2287.3	2277.9	2270.9	2291.9	2362.0	2308.3	2116.7	2095.7	1824.7
15°	2492.9	2490.5	2467.2	2467.2	2446.1	2411.1	2455.5	2495.2	2338.7	2313.0	1976.5
17.5°	2635.4	2644.7	2642.4	2656.4	2649.4	2602.7	2579.3	2661.1	2567.6	2534.9	2149.4
20°	2749.8	2775.5	2784.9	2829.3	2850.3	2817.6	2756.9	2808.3	2787.2	2756.9	2324.6
22.5°	2871.3	2892.4	2908.7	2985.8	3044.2	3037.2	2960.1	2948.4	2999.8	2971.8	2497.5
25°	2992.8	3002.2	3051.2	3144.7	3238.1	3261.5	3182.1	3090.9	3191.4	3165.7	2651.7
27.5°	3126.0	3130.7	3189.1	3303.6	3434.4	3483.5	3420.4	3252.2	3338.6	3338.6	2791.9
30°	3369.0	3415.7	3439.1	3541.9	3656.3	3724.1	3649.3	3422.7	3469.4	3490.5	2939.1
32.5°	3892.3	3899.3	3892.3	3936.7	3960.1	3999.8	3913.3	3614.3	3602.6	3626.0	3083.9
35°	4691.3	4663.3	4588.5	4523.1	4387.6	4312.8	4200.7	3859.6	3766.1	3798.9	3226.5
37.5°	5660.9	5621.2	5450.6	5249.7	4960.0	4661.0	4520.8	4158.6	3974.1	4016.1	3380.7
40°	6586.1	6560.4	6357.1	6109.5	5614.2	5102.5	4805.8	4411.0	4205.4	4221.7	3537.2
42.5°	7347.7	7343.0	7172.5	6913.2	6277.7	5579.1	5142.2	4658.6	4448.3	4474.0	3700.7
45°	7924.8	7880.4	7754.2	7567.3	6920.2	6074.4	5548.8	5034.8	4838.5	4868.9	3946.0
47.5°	7924.8	7931.8	8013.6	7994.9	7368.7	6539.4	5992.7	5509.0	5415.6	5443.6	4350.2
50°	7280.0	7345.4	7709.8	8015.9	7602.4	6901.5	6471.6	6102.5	6198.3	6240.3	5055.8
52.5°	6004.3	6114.1	6747.3	7445.8	7429.5	7083.7	6966.9	6857.1	7287.0	7361.7	6097.8
55°	4562.8	4635.3	5460.0	6378.1	6677.2	6934.2	7399.1	7815.0	8728.5	8712.1	7156.1
57.5°	3408.7	3476.4	4186.7	5205.3	5600.2	6287.0	7621.1	8910.7	10158.3	10221.4	8149.1
60°	2506.9	2558.3	3163.4	3999.8	4569.8	5296.4	7532.3	9990.1	11805.4	11733.0	9025.2
62.5°	1855.0	1883.1	2320.0	2864.3	3621.3	4315.2	6973.9	10728.4	13120.8	12973.6	9513.5
65°	1434.5	1443.8	1670.5	1960.2	2633.0	3355.0	6142.2	10840.5	13847.4	13690.8	9504.1
66°	1278.0	1285.0	1450.9	1675.1	2240.5	2936.8	5777.7	10660.6	13961.8	13796.0	9387.3
67.5°	1072.4	1067.7	1165.8	1313.0	1682.1	2266.2	5130.6	10134.9	13826.3	13742.2	9013.5
70°	794.3	796.7	845.7	880.8	983.6	1254.6	3705.4	8791.6	12742.3	12737.6	7987.9
72.5°	588.8	595.8	633.1	640.2	614.5	679.9	2135.4	6992.6	10193.4	10195.7	5971.6
75°	441.6	453.2	464.9	469.6	446.2	429.9	964.9	4705.3	6705.2	6656.2	3380.7
77.5°	336.4	341.1	350.4	343.4	338.8	296.7	401.8	2294.3	3310.6	3016.2	1095.7
80°	245.3	245.3	254.7	245.3	243.0	212.6	219.6	735.9	971.9	808.4	236.0
82.5°	154.2	151.9	158.9	156.5	151.9	135.5	128.5	205.6	224.3	200.9	114.5
85°	86.4	84.1	81.8	79.4	72.4	60.7	70.1	77.1	102.8	105.1	81.8
87.5°	30.4	30.4	28.0	25.7	21.0	21.0	25.7	25.7	37.4	37.4	42.1
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°	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5	1420.5
2.5°	1429.8	1404.1	1366.7	1317.7	1282.6	1247.6	1210.2	1189.2	1158.8	1151.8	1161.2
5°	1455.5	1408.8	1315.3	1212.5	1123.8	1044.3	969.6	925.2	880.8	864.4	871.4
7.5°	1509.3	1429.8	1271.0	1105.1	957.9	838.7	750.0	698.6	658.8	642.5	647.2
10°	1588.7	1467.2	1228.9	983.6	794.3	668.2	593.4	560.7	537.4	528.0	530.3
12.5°	1684.5	1520.9	1175.2	862.1	654.2	544.4	509.3	502.3	497.6	493.0	495.3
15°	1792.0	1567.7	1112.1	742.9	544.4	483.6	471.9	469.6	467.3	467.3	467.3
17.5°	1904.1	1609.7	1042.0	630.8	474.3	446.2	439.2	439.2	439.2	441.6	441.6
20°	2009.2	1642.4	960.2	530.3	434.6	411.2	406.5	406.5	408.9	411.2	411.2
22.5°	2112.0	1656.4	864.4	460.3	401.8	380.8	373.8	373.8	373.8	376.1	376.1
25°	2200.8	1656.4	768.6	415.9	373.8	352.8	343.4	341.1	343.4	343.4	343.4
27.5°	2275.6	1649.4	675.2	385.5	345.8	324.7	315.4	313.1	317.7	320.1	320.1
30°	2355.0	1640.1	600.4	357.5	322.4	301.4	292.0	292.0	299.0	308.4	308.4
32.5°	2432.1	1647.1	542.0	334.1	299.0	282.7	273.3	275.7	289.7	303.7	303.7
35°	2513.9	1661.1	507.0	317.7	282.7	266.3	259.3	266.3	280.4	294.4	294.4
37.5°	2595.6	1677.5	486.0	303.7	268.7	252.3	247.6	257.0	273.3	287.4	289.7
40°	2682.1	1691.5	462.6	289.7	259.3	240.6	238.3	247.6	268.7	282.7	285.0
42.5°	2789.6	1719.5	434.6	278.0	250.0	226.6	229.0	236.0	257.0	278.0	280.4
45°	2999.8	1808.3	406.5	266.3	238.3	219.6	214.9	219.6	243.0	266.3	271.0
47.5°	3394.7	2009.2	376.1	254.7	226.6	214.9	196.3	200.9	222.0	247.6	250.0
50°	4151.6	2436.8	359.8	243.0	217.3	198.6	177.6	177.6	193.9	217.3	217.3
52.5°	5331.5	3203.1	369.1	233.6	205.6	182.2	161.2	158.9	168.2	184.6	184.6
55°	6604.8	4044.2	404.2	224.3	191.6	172.9	149.5	137.8	144.9	154.2	154.2
57.5°	7614.1	4467.0	500.0	219.6	175.2	165.9	135.5	119.2	126.2	135.5	135.5
60°	8058.0	4219.4	607.4	224.3	163.5	154.2	121.5	105.1	116.8	126.2	128.5
62.5°	7698.2	3474.1	651.8	212.6	147.2	137.8	119.2	98.1	112.1	119.2	121.5
65°	6920.2	2640.0	509.3	184.6	135.5	119.2	107.5	93.5	105.1	112.1	112.1
66°	6551.0	2301.3	434.6	170.6	130.8	112.1	102.8	93.5	102.8	107.5	109.8
67.5°	5978.6	1815.3	322.4	149.5	121.5	102.8	95.8	88.8	98.1	102.8	102.8
70°	4675.0	1081.7	193.9	116.8	105.1	91.1	86.4	81.8	88.8	91.1	91.1
72.5°	2927.4	514.0	123.8	86.4	88.8	86.4	72.4	77.1	79.4	81.8	81.8
75°	1418.1	203.3	84.1	63.1	72.4	81.8	58.4	67.8	70.1	74.8	72.4
77.5°	394.8	98.1	53.7	46.7	63.1	63.1	44.4	53.7	63.1	79.4	72.4
80°	114.5	63.1	35.0	35.0	44.4	44.4	30.4	37.4	42.1	46.7	49.1
82.5°	79.4	42.1	23.4	25.7	25.7	28.0	18.7	18.7	23.4	23.4	25.7
85°	63.1	18.7	14.0	16.4	11.7	14.0	9.3	9.3	11.7	9.3	9.3
87.5°	25.7	9.3	9.3	9.3	7.0	7.0	4.7	2.3	2.3	2.3	2.3
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)