

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: P1210580

Luminaire Tested: **ARCH3-170-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210580
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: ARCH3-170-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1310mA 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: 14072 lumens
Efficiency: N/A
Efficacy: 82.5 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): 170.6
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



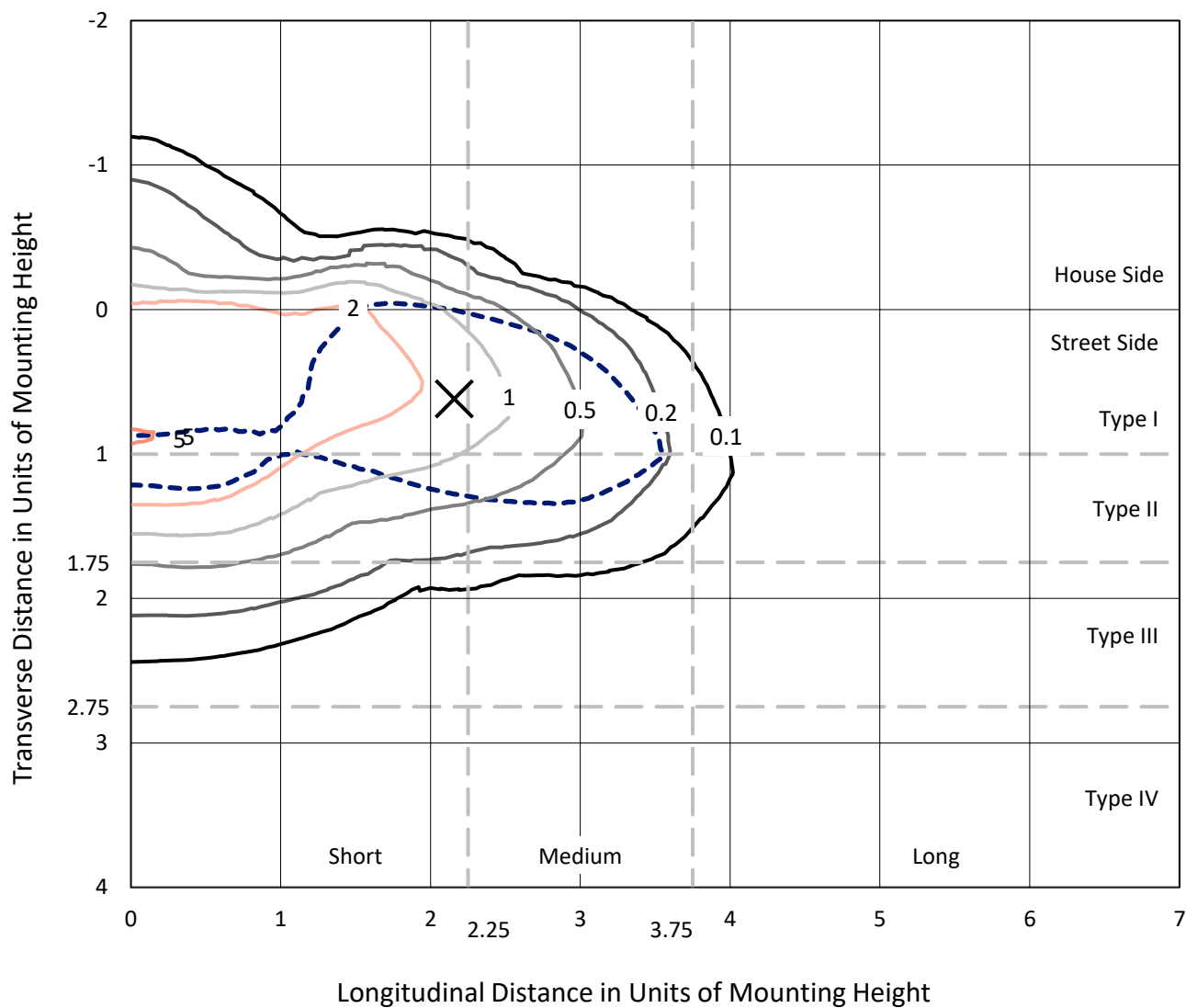
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Iso-Footcandle Lines of Horizontal Illumination

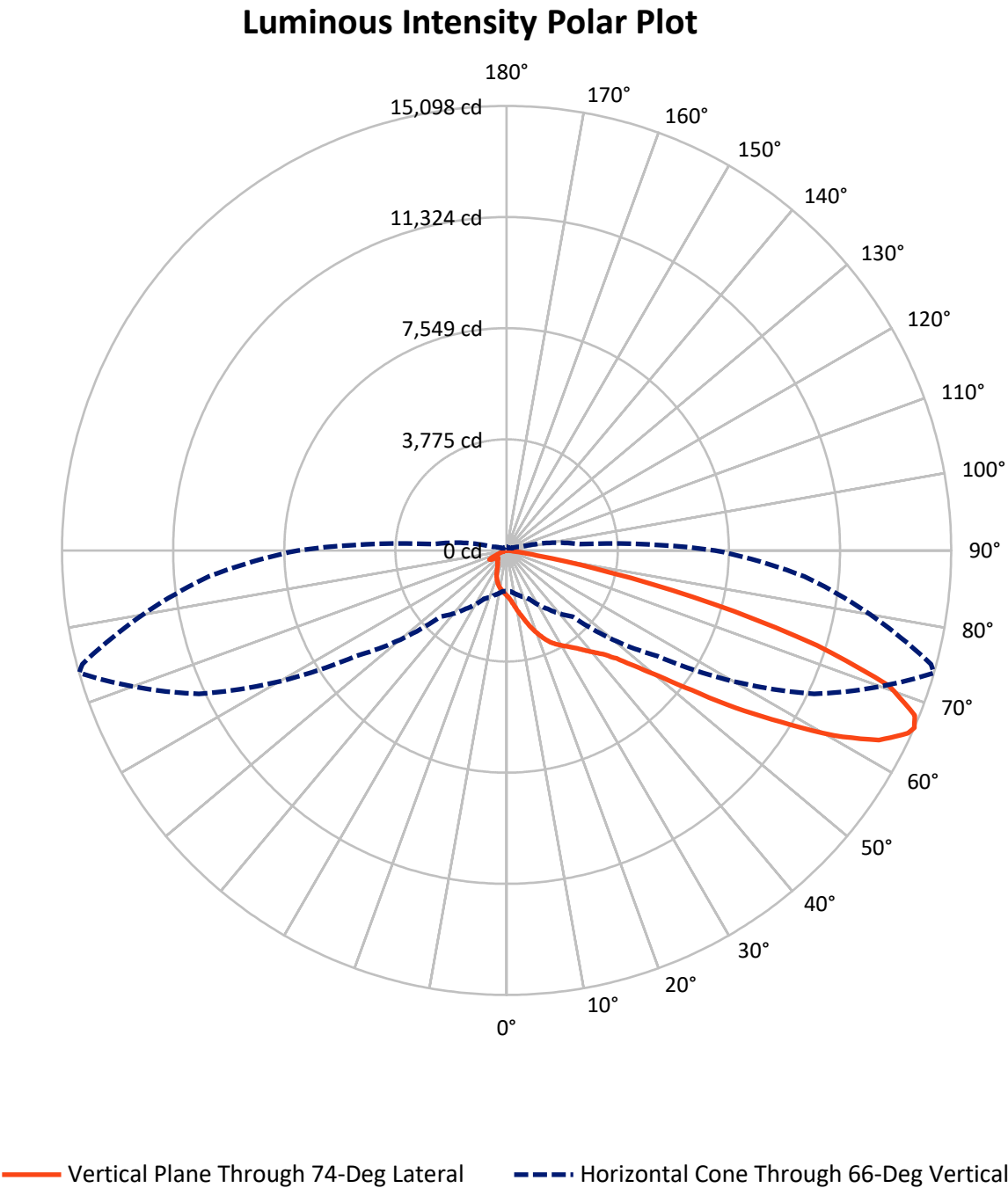
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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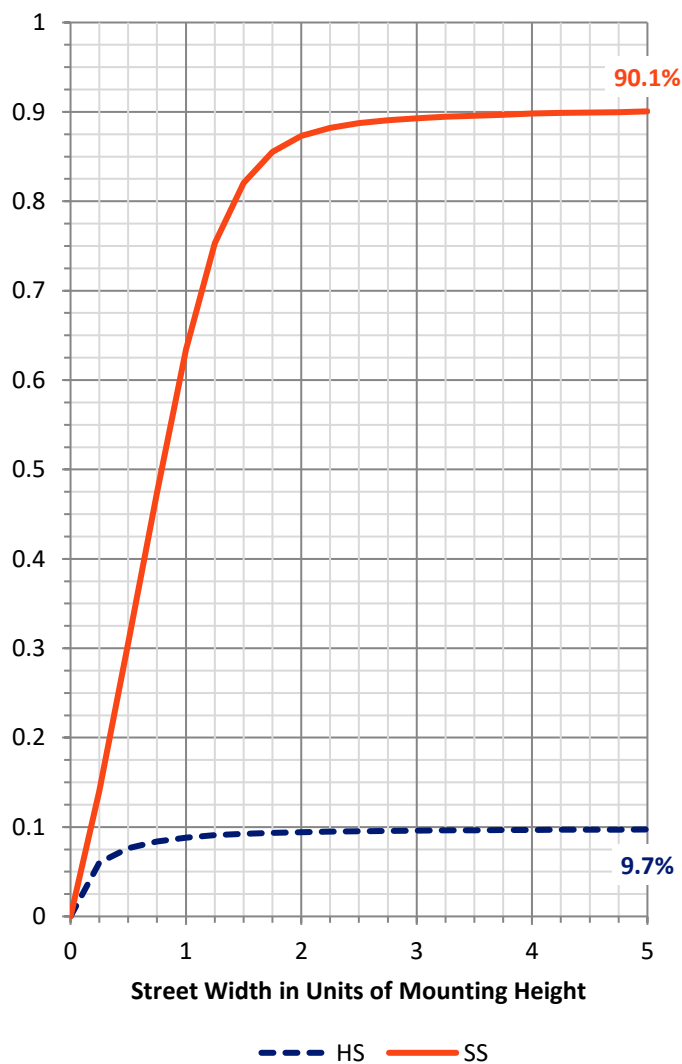
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1379.5	0.0	1379.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	12692.5	0.0	12692.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	14072.0	0.0	14072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	1.1
10°-20°	480.7	3.4
20°-30°	917.3	6.5
30°-40°	1607.8	11.4
40°-50°	2757.0	19.6
50°-60°	3585.6	25.5
60°-70°	3245.9	23.1
70°-80°	1252.4	8.9
80°-90°	75.4	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°	14072.0	100.0
0°-180°	14072.0	100.0

Coefficient of Utilization



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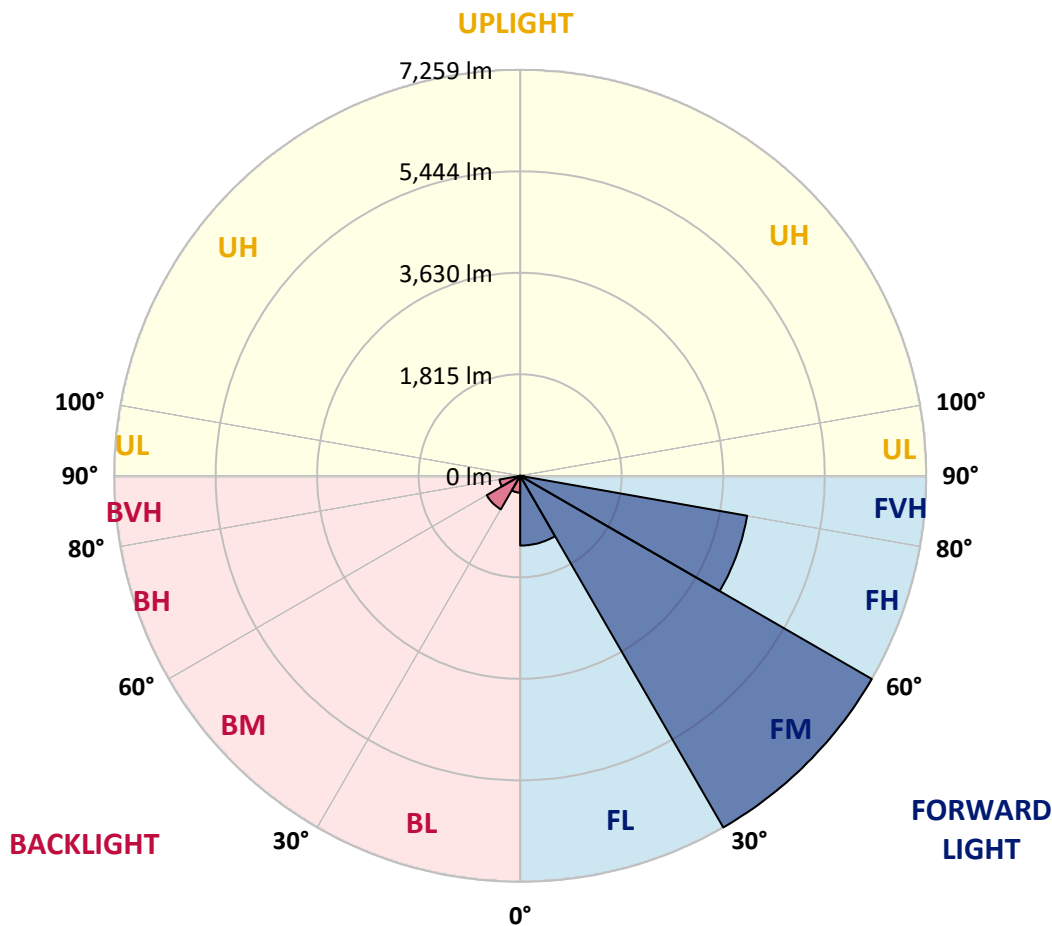
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1247.0	8.9			
FM	(30°-60°)	7259.1	51.6			
FH	(60°-80°)	4121.2	29.3			G2/5000
FVH	(80°-90°)	65.3	0.5			G1/100
BL	(0°-30°)	300.9	2.1	B1/500		
BM	(30°-60°)	691.4	4.9	B1/1000		
BH	(60°-80°)	377.1	2.7	B1/500		G1/500
BVH	(80°-90°)	10.1	0.1			G1/100
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°	1536.1	1536.1	1536.1	1536.1	1536.1	1536.1	1536.1	1536.1	1536.1	1536.1	1536.1
2.5°	1844.3	1829.1	1801.4	1798.8	1776.1	1748.3	1700.3	1649.8	1614.4	1609.3	1566.4
5°	2208.1	2200.5	2172.7	2155.1	2112.1	2046.4	1935.3	1824.1	1730.6	1720.5	1624.5
7.5°	2304.1	2309.2	2314.2	2331.9	2316.8	2286.4	2203.1	2046.4	1899.9	1877.2	1710.4
10°	2319.3	2314.2	2314.2	2337.0	2379.9	2422.9	2412.8	2278.9	2089.4	2061.6	1829.1
12.5°	2483.5	2491.1	2473.4	2463.3	2455.7	2478.4	2554.2	2496.1	2289.0	2266.2	1973.2
15°	2695.7	2693.2	2667.9	2667.9	2645.2	2607.3	2655.3	2698.2	2529.0	2501.2	2137.4
17.5°	2849.8	2859.9	2857.4	2872.6	2865.0	2814.5	2789.2	2877.6	2776.6	2741.2	2324.3
20°	2973.6	3001.4	3011.5	3059.5	3082.3	3046.9	2981.2	3036.8	3014.1	2981.2	2513.8
22.5°	3105.0	3127.7	3145.4	3228.8	3292.0	3284.4	3201.0	3188.4	3244.0	3213.6	2700.8
25°	3236.4	3246.5	3299.5	3400.6	3501.7	3526.9	3441.0	3342.5	3451.1	3423.3	2867.5
27.5°	3380.4	3385.4	3448.6	3572.4	3713.9	3766.9	3698.7	3516.8	3610.3	3610.3	3019.1
30°	3643.1	3693.7	3718.9	3830.1	3953.9	4027.2	3946.3	3701.2	3751.8	3774.5	3178.3
32.5°	4209.1	4216.6	4209.1	4257.1	4282.3	4325.3	4231.8	3908.4	3895.8	3921.0	3334.9
35°	5073.1	5042.8	4961.9	4891.2	4744.7	4663.8	4542.6	4173.7	4072.6	4108.0	3489.0
37.5°	6121.6	6078.6	5894.2	5676.9	5363.6	5040.3	4888.7	4497.1	4297.5	4343.0	3655.8
40°	7122.1	7094.3	6874.5	6606.7	6071.1	5517.8	5196.9	4769.9	4547.6	4565.3	3825.0
42.5°	7945.7	7940.6	7756.2	7475.8	6788.6	6033.2	5560.7	5037.7	4810.4	4838.1	4001.9
45°	8569.7	8521.7	8385.3	8183.2	7483.3	6568.8	6000.3	5444.5	5232.3	5265.1	4267.2
47.5°	8569.7	8577.3	8665.7	8645.5	7968.4	7071.5	6480.3	5957.4	5856.3	5886.6	4704.2
50°	7872.4	7943.2	8337.3	8668.2	8221.1	7463.1	6998.3	6599.1	6702.7	6748.1	5467.2
52.5°	6493.0	6611.7	7296.4	8051.8	8034.1	7660.2	7533.9	7415.1	7880.0	7960.8	6594.0
55°	4934.2	5012.5	5904.3	6897.2	7220.6	7498.5	8001.3	8451.0	9438.8	9421.1	7738.5
57.5°	3686.1	3759.4	4527.4	5628.9	6055.9	6798.7	8241.3	9635.9	10985.0	11053.2	8812.3
60°	2710.9	2766.5	3420.8	4325.3	4941.7	5727.5	8145.3	10803.1	12766.1	12687.8	9759.7
62.5°	2006.0	2036.3	2508.8	3097.4	3916.0	4666.3	7541.4	11601.4	14188.5	14029.4	10287.7
65°	1551.2	1561.3	1806.4	2119.7	2847.3	3628.0	6642.0	11722.7	14974.3	14805.0	10277.6
66°	1382.0	1389.5	1568.9	1811.5	2422.9	3175.7	6247.9	11528.2	15098.1	14918.7	10151.3
67.5°	1159.6	1154.6	1260.7	1419.9	1819.0	2450.7	5548.1	10959.7	14951.5	14860.6	9747.0
70°	859.0	861.5	914.6	952.5	1063.6	1356.7	4006.9	9507.0	13779.2	13774.2	8637.9
72.5°	636.7	644.2	684.7	692.2	664.5	735.2	2309.2	7561.7	11022.9	11025.4	6457.6
75°	477.5	490.1	502.8	507.8	482.6	464.9	1043.4	5088.3	7250.9	7197.9	3655.8
77.5°	363.8	368.9	379.0	371.4	366.3	320.9	434.5	2481.0	3580.0	3261.6	1184.9
80°	265.3	265.3	275.4	265.3	262.8	229.9	237.5	795.8	1051.0	874.2	255.2
82.5°	166.7	164.2	171.8	169.3	164.2	146.5	139.0	222.3	242.5	217.3	123.8
85°	93.5	91.0	88.4	85.9	78.3	65.7	75.8	83.4	111.2	113.7	88.4
87.5°	32.8	32.8	30.3	27.8	22.7	22.7	27.8	27.8	40.4	40.4	45.5
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°	1536.1	1536.1	1536.1	1536.1	1536.1	1536.1	1536.1	1536.1	1536.1	1536.1	1536.1
2.5°	1546.2	1518.4	1478.0	1424.9	1387.0	1349.1	1308.7	1286.0	1253.1	1245.5	1255.6
5°	1574.0	1523.4	1422.4	1311.2	1215.2	1129.3	1048.5	1000.5	952.5	934.8	942.4
7.5°	1632.1	1546.2	1374.4	1195.0	1035.8	907.0	811.0	755.4	712.5	694.8	699.8
10°	1718.0	1586.6	1328.9	1063.6	859.0	722.6	641.7	606.3	581.1	571.0	573.5
12.5°	1821.6	1644.7	1270.8	932.3	707.4	588.7	550.8	543.2	538.1	533.1	535.6
15°	1937.8	1695.2	1202.6	803.4	588.7	523.0	510.3	507.8	505.3	505.3	505.3
17.5°	2059.1	1740.7	1126.8	682.1	512.9	482.6	475.0	475.0	475.0	477.5	477.5
20°	2172.7	1776.1	1038.4	573.5	469.9	444.7	439.6	439.6	442.1	444.7	444.7
22.5°	2283.9	1791.3	934.8	497.7	434.5	411.8	404.2	404.2	404.2	406.8	406.8
25°	2379.9	1791.3	831.2	449.7	404.2	381.5	371.4	368.9	371.4	371.4	371.4
27.5°	2460.8	1783.7	730.1	416.9	373.9	351.2	341.1	338.5	343.6	346.1	346.1
30°	2546.7	1773.6	649.3	386.5	348.6	325.9	315.8	315.8	323.4	333.5	333.5
32.5°	2630.0	1781.1	586.1	361.3	323.4	305.7	295.6	298.1	313.3	328.4	328.4
35°	2718.5	1796.3	548.2	343.6	305.7	288.0	280.4	288.0	303.2	318.3	318.3
37.5°	2806.9	1814.0	525.5	328.4	290.5	272.9	267.8	277.9	295.6	310.8	313.3
40°	2900.4	1829.1	500.2	313.3	280.4	260.2	257.7	267.8	290.5	305.7	308.2
42.5°	3016.6	1859.5	469.9	300.6	270.3	245.1	247.6	255.2	277.9	300.6	303.2
45°	3244.0	1955.5	439.6	288.0	257.7	237.5	232.4	237.5	262.8	288.0	293.1
47.5°	3670.9	2172.7	406.8	275.4	245.1	232.4	212.2	217.3	240.0	267.8	270.3
50°	4489.5	2635.1	389.1	262.8	235.0	214.7	192.0	192.0	209.7	235.0	235.0
52.5°	5765.4	3463.8	399.2	252.6	222.3	197.1	174.3	171.8	181.9	199.6	199.6
55°	7142.3	4373.3	437.1	242.5	207.2	187.0	161.7	149.1	156.6	166.7	166.7
57.5°	8233.7	4830.6	540.7	237.5	189.5	179.4	146.5	128.8	136.4	146.5	146.5
60°	8713.7	4562.8	656.9	242.5	176.9	166.7	131.4	113.7	126.3	136.4	139.0
62.5°	8324.6	3756.8	704.9	229.9	159.2	149.1	128.8	106.1	121.3	128.8	131.4
65°	7483.3	2854.9	550.8	199.6	146.5	128.8	116.2	101.1	113.7	121.3	121.3
66°	7084.2	2488.6	469.9	184.4	141.5	121.3	111.2	101.1	111.2	116.2	118.7
67.5°	6465.2	1963.1	348.6	161.7	131.4	111.2	103.6	96.0	106.1	111.2	111.2
70°	5055.4	1169.7	209.7	126.3	113.7	98.5	93.5	88.4	96.0	98.5	98.5
72.5°	3165.6	555.8	133.9	93.5	96.0	93.5	78.3	83.4	85.9	88.4	88.4
75°	1533.6	219.8	91.0	68.2	78.3	88.4	63.2	73.3	75.8	80.8	78.3
77.5°	427.0	106.1	58.1	50.5	68.2	68.2	48.0	58.1	68.2	85.9	78.3
80°	123.8	68.2	37.9	37.9	48.0	48.0	32.8	40.4	45.5	50.5	53.1
82.5°	85.9	45.5	25.3	27.8	27.8	30.3	20.2	20.2	25.3	25.3	27.8
85°	68.2	20.2	15.2	17.7	12.6	15.2	10.1	10.1	12.6	10.1	10.1
87.5°	27.8	10.1	10.1	10.1	7.6	7.6	5.1	2.5	2.5	2.5	2.5
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)