

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: P1210616

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

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210616
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: ARCH3-180-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1375mA 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: 16086 lumens
Efficiency: N/A
Efficacy: 89.1 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

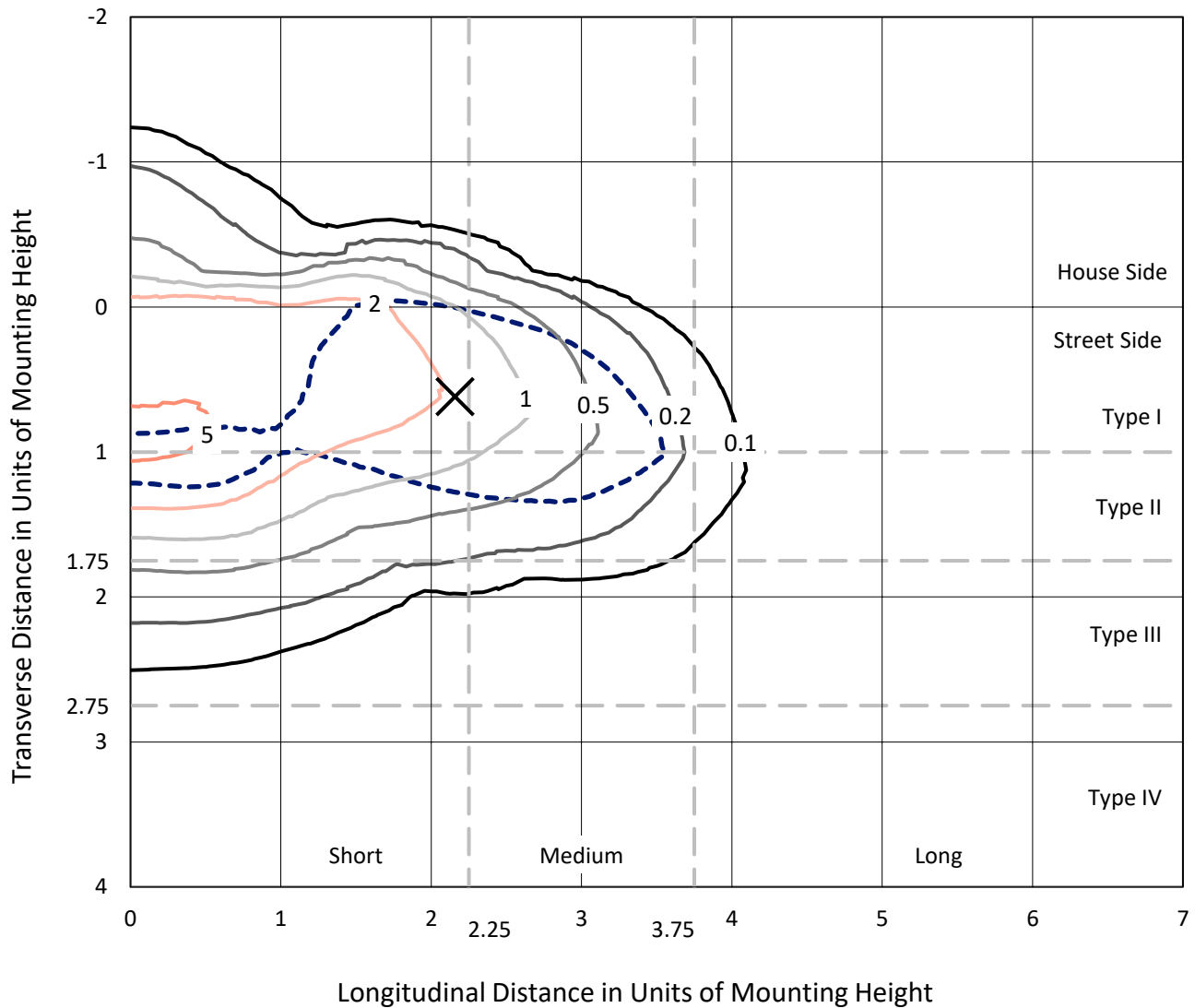
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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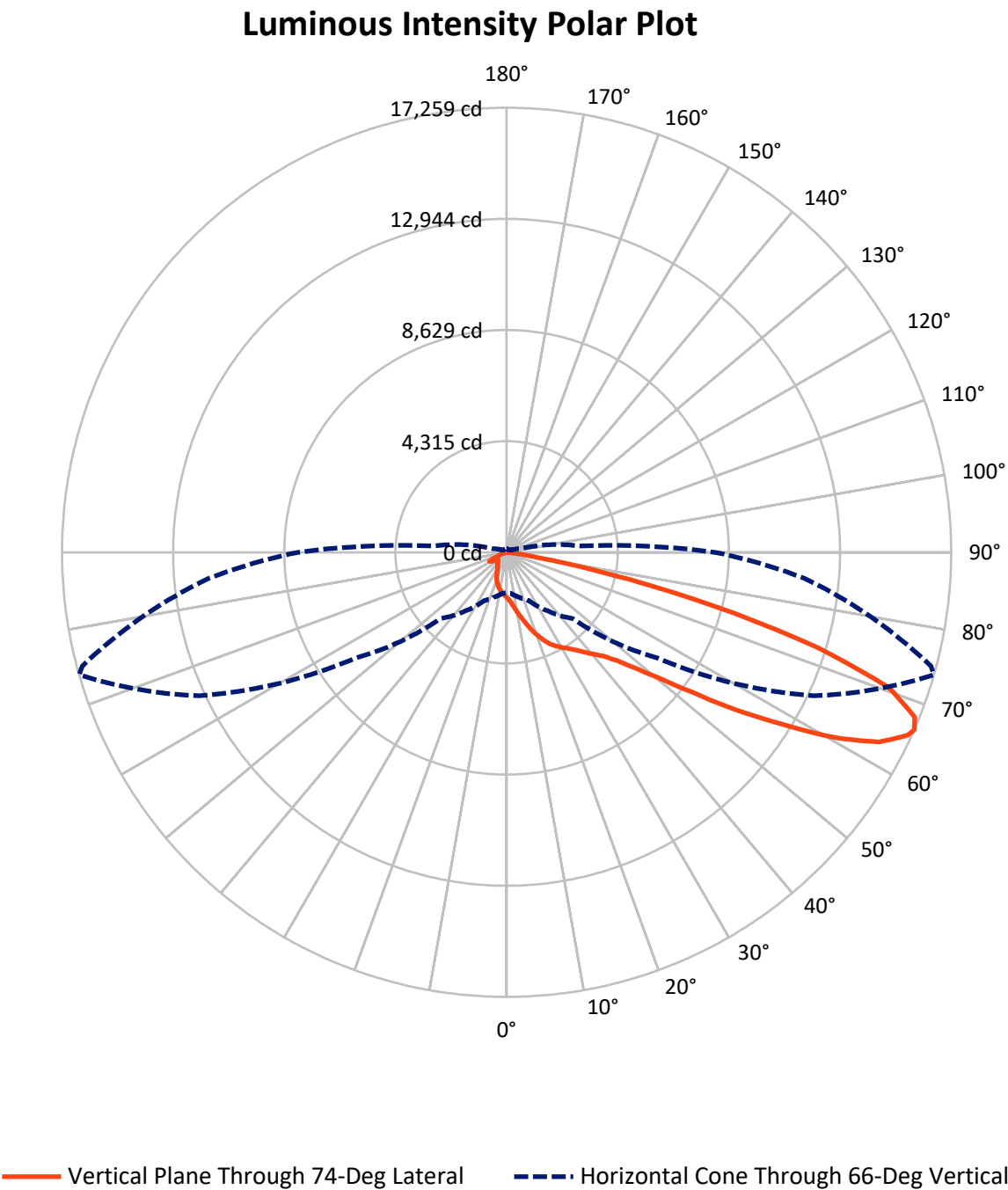
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Short - N/A

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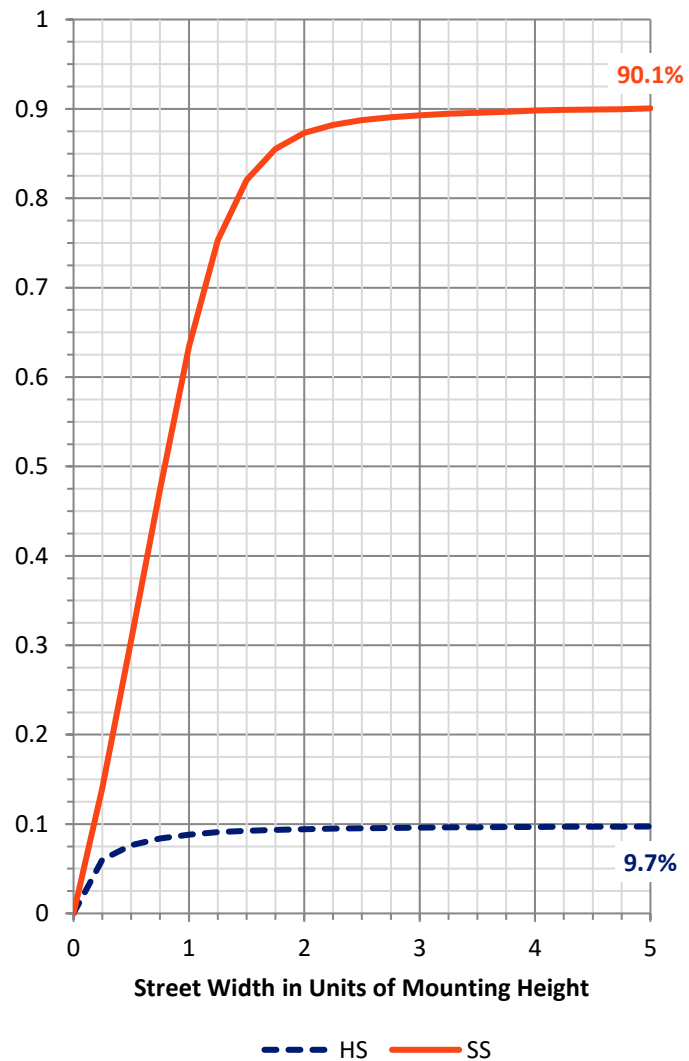
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1577.0	0.0	1577.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	14509.1	0.0	14509.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	16086.0	0.0	16086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	1.1
10°-20°	549.4	3.4
20°-30°	1048.6	6.5
30°-40°	1837.9	11.4
40°-50°	3151.5	19.6
50°-60°	4098.8	25.5
60°-70°	3710.4	23.1
70°-80°	1431.7	8.9
80°-90°	86.2	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°	16086.0	100.0
0°-180°	16086.0	100.0

Coefficient of Utilization



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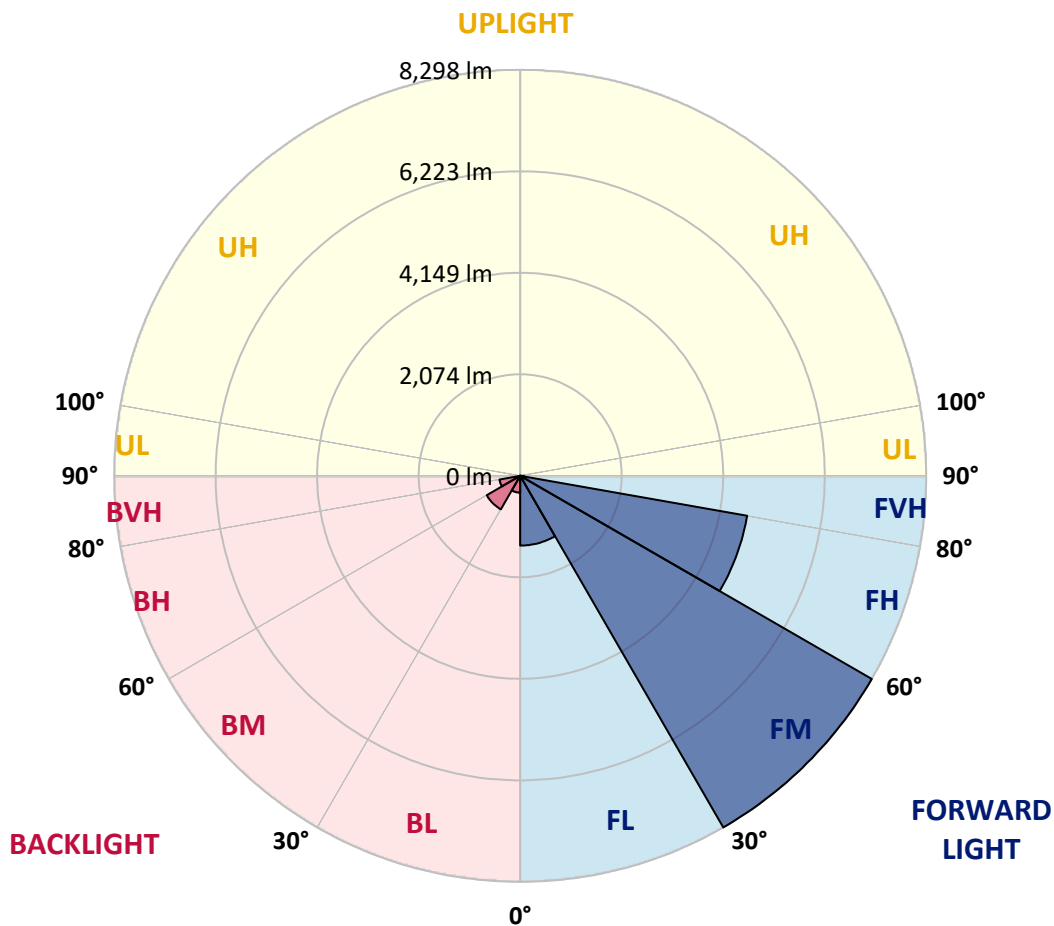
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1425.5	8.9			
FM	(30°-60°)	8298.0	51.6			
FH	(60°-80°)	4711.0	29.3			G2/5000
FVH	(80°-90°)	74.6	0.5			G1/100
BL	(0°-30°)	344.0	2.1	B1/500		
BM	(30°-60°)	790.3	4.9	B1/1000		
BH	(60°-80°)	431.1	2.7	B1/500		G1/500
BVH	(80°-90°)	11.6	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°	1755.9	1755.9	1755.9	1755.9	1755.9	1755.9	1755.9	1755.9	1755.9	1755.9	1755.9
2.5°	2108.3	2090.9	2059.2	2056.3	2030.3	1998.5	1943.6	1885.9	1845.5	1839.7	1790.6
5°	2524.1	2515.5	2483.7	2463.5	2414.4	2339.3	2212.2	2085.2	1978.3	1966.8	1857.0
7.5°	2633.9	2639.7	2645.4	2665.7	2648.3	2613.7	2518.4	2339.3	2171.8	2145.8	1955.2
10°	2651.2	2645.4	2645.4	2671.4	2720.5	2769.6	2758.1	2605.0	2388.4	2356.6	2090.9
12.5°	2838.9	2847.6	2827.4	2815.8	2807.2	2833.2	2919.8	2853.4	2616.6	2590.6	2255.6
15°	3081.5	3078.6	3049.8	3049.8	3023.8	2980.5	3035.3	3084.4	2890.9	2859.2	2443.3
17.5°	3257.7	3269.3	3266.4	3283.7	3275.0	3217.3	3188.4	3289.5	3174.0	3133.5	2657.0
20°	3399.2	3431.0	3442.5	3497.4	3523.4	3483.0	3407.9	3471.4	3445.4	3407.9	2873.6
22.5°	3549.4	3575.4	3595.6	3690.9	3763.1	3754.4	3659.1	3644.7	3708.2	3673.6	3087.3
25°	3699.6	3711.1	3771.8	3887.3	4002.8	4031.7	3933.5	3820.9	3945.1	3913.3	3277.9
27.5°	3864.2	3870.0	3942.2	4083.7	4245.4	4306.1	4228.1	4020.1	4127.0	4127.0	3451.2
30°	4164.5	4222.3	4251.2	4378.3	4519.8	4603.5	4511.1	4231.0	4288.7	4314.7	3633.1
32.5°	4811.5	4820.1	4811.5	4866.3	4895.2	4944.3	4837.5	4467.8	4453.4	4482.2	3812.2
35°	5799.2	5764.5	5672.1	5591.2	5423.7	5331.3	5192.7	4771.0	4655.5	4695.9	3988.4
37.5°	6997.7	6948.6	6737.8	6489.4	6131.3	5761.6	5588.3	5140.7	4912.5	4964.5	4179.0
40°	8141.4	8109.6	7858.3	7552.2	6940.0	6307.5	5940.7	5452.6	5198.5	5218.7	4372.5
42.5°	9082.9	9077.1	8866.3	8545.7	7760.2	6896.6	6356.6	5758.7	5498.8	5530.6	4574.6
45°	9796.2	9741.3	9585.4	9354.3	8554.4	7508.9	6859.1	6223.7	5981.1	6018.7	4877.9
47.5°	9796.2	9804.9	9906.0	9882.9	9108.9	8083.6	7407.8	6810.0	6694.5	6729.1	5377.5
50°	8999.1	9080.0	9530.5	9908.9	9397.7	8531.3	7999.9	7543.6	7662.0	7713.9	6249.7
52.5°	7422.3	7558.0	8340.6	9204.2	9184.0	8756.5	8612.1	8476.4	9007.8	9100.2	7537.8
55°	5640.3	5729.9	6749.3	7884.3	8254.0	8571.7	9146.4	9660.5	10789.7	10769.5	8846.1
57.5°	4213.6	4297.4	5175.4	6434.5	6922.6	7771.7	9420.8	11015.0	12557.2	12635.2	10073.5
60°	3098.9	3162.4	3910.4	4944.3	5649.0	6547.2	9311.0	12349.2	14593.2	14503.7	11156.5
62.5°	2293.1	2327.8	2867.8	3540.7	4476.5	5334.2	8620.8	13261.9	16219.2	16037.3	11760.1
65°	1773.3	1784.8	2064.9	2423.1	3254.8	4147.2	7592.6	13400.5	17117.4	16923.9	11748.5
66°	1579.8	1588.4	1793.5	2070.7	2769.6	3630.3	7142.1	13178.1	17258.9	17053.9	11604.1
67.5°	1325.6	1319.8	1441.1	1623.1	2079.4	2801.4	6342.1	12528.3	17091.4	16987.4	11142.0
70°	981.9	984.8	1045.5	1088.8	1215.9	1550.9	4580.4	10867.7	15751.3	15745.6	9874.2
72.5°	727.8	736.4	782.7	791.3	759.6	840.4	2639.7	8643.9	12600.5	12603.4	7381.8
75°	545.8	560.3	574.7	580.5	551.6	531.4	1192.8	5816.5	8288.7	8228.0	4179.0
77.5°	415.9	421.7	433.2	424.5	418.8	366.8	496.7	2836.1	4092.3	3728.5	1354.5
80°	303.2	303.2	314.8	303.2	300.4	262.8	271.5	909.7	1201.4	999.3	291.7
82.5°	190.6	187.7	196.4	193.5	187.7	167.5	158.8	254.1	277.3	248.4	141.5
85°	106.9	104.0	101.1	98.2	89.5	75.1	86.6	95.3	127.1	130.0	101.1
87.5°	37.5	37.5	34.7	31.8	26.0	26.0	31.8	31.8	46.2	46.2	52.0
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°	1755.9	1755.9	1755.9	1755.9	1755.9	1755.9	1755.9	1755.9	1755.9	1755.9	1755.9
2.5°	1767.5	1735.7	1689.5	1628.9	1585.5	1542.2	1496.0	1470.0	1432.5	1423.8	1435.4
5°	1799.2	1741.5	1626.0	1498.9	1389.1	1291.0	1198.5	1143.7	1088.8	1068.6	1077.2
7.5°	1865.7	1767.5	1571.1	1366.0	1184.1	1036.8	927.1	863.5	814.4	794.2	800.0
10°	1963.9	1813.7	1519.1	1215.9	981.9	826.0	733.6	693.1	664.2	652.7	655.6
12.5°	2082.3	1880.1	1452.7	1065.7	808.7	672.9	629.6	620.9	615.2	609.4	612.3
15°	2215.1	1937.9	1374.7	918.4	672.9	597.8	583.4	580.5	577.6	577.6	577.6
17.5°	2353.7	1989.9	1288.1	779.8	586.3	551.6	543.0	543.0	543.0	545.8	545.8
20°	2483.7	2030.3	1187.0	655.6	537.2	508.3	502.5	502.5	505.4	508.3	508.3
22.5°	2610.8	2047.6	1068.6	568.9	496.7	470.7	462.1	462.1	462.1	465.0	465.0
25°	2720.5	2047.6	950.2	514.1	462.1	436.1	424.5	421.7	424.5	424.5	424.5
27.5°	2812.9	2039.0	834.6	476.5	427.4	401.4	389.9	387.0	392.8	395.7	395.7
30°	2911.1	2027.4	742.2	441.9	398.5	372.6	361.0	361.0	369.7	381.2	381.2
32.5°	3006.4	2036.1	670.0	413.0	369.7	349.5	337.9	340.8	358.1	375.4	375.4
35°	3107.5	2053.4	626.7	392.8	349.5	329.2	320.6	329.2	346.6	363.9	363.9
37.5°	3208.6	2073.6	600.7	375.4	332.1	311.9	306.1	317.7	337.9	355.2	358.1
40°	3315.5	2090.9	571.8	358.1	320.6	297.5	294.6	306.1	332.1	349.5	352.3
42.5°	3448.3	2125.6	537.2	343.7	309.0	280.1	283.0	291.7	317.7	343.7	346.6
45°	3708.2	2235.3	502.5	329.2	294.6	271.5	265.7	271.5	300.4	329.2	335.0
47.5°	4196.3	2483.7	465.0	314.8	280.1	265.7	242.6	248.4	274.4	306.1	309.0
50°	5132.0	3012.2	444.8	300.4	268.6	245.5	219.5	219.5	239.7	268.6	268.6
52.5°	6590.5	3959.5	456.3	288.8	254.1	225.3	199.3	196.4	207.9	228.2	228.2
55°	8164.5	4999.2	499.6	277.3	236.8	213.7	184.8	170.4	179.1	190.6	190.6
57.5°	9412.1	5521.9	618.0	271.5	216.6	205.1	167.5	147.3	156.0	167.5	167.5
60°	9960.8	5215.8	750.9	277.3	202.2	190.6	150.2	130.0	144.4	156.0	158.8
62.5°	9516.1	4294.5	805.8	262.8	181.9	170.4	147.3	121.3	138.6	147.3	150.2
65°	8554.4	3263.5	629.6	228.2	167.5	147.3	132.8	115.5	130.0	138.6	138.6
66°	8098.1	2844.7	537.2	210.8	161.7	138.6	127.1	115.5	127.1	132.8	135.7
67.5°	7390.5	2244.0	398.5	184.8	150.2	127.1	118.4	109.7	121.3	127.1	127.1
70°	5779.0	1337.2	239.7	144.4	130.0	112.6	106.9	101.1	109.7	112.6	112.6
72.5°	3618.7	635.4	153.1	106.9	109.7	106.9	89.5	95.3	98.2	101.1	101.1
75°	1753.0	251.3	104.0	78.0	89.5	101.1	72.2	83.8	86.6	92.4	89.5
77.5°	488.1	121.3	66.4	57.8	78.0	78.0	54.9	66.4	78.0	98.2	89.5
80°	141.5	78.0	43.3	43.3	54.9	54.9	37.5	46.2	52.0	57.8	60.6
82.5°	98.2	52.0	28.9	31.8	31.8	34.7	23.1	23.1	28.9	28.9	31.8
85°	78.0	23.1	17.3	20.2	14.4	17.3	11.6	11.6	14.4	11.6	11.6
87.5°	31.8	11.6	11.6	11.6	8.7	8.7	5.8	2.9	2.9	2.9	2.9
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)