

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: P1210524

Luminaire Tested: **ARCH3-150-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210524
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: ARCH3-150-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1170mA 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: 14831 lumens
Efficiency: N/A
Efficacy: 98.4 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): 150.7
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

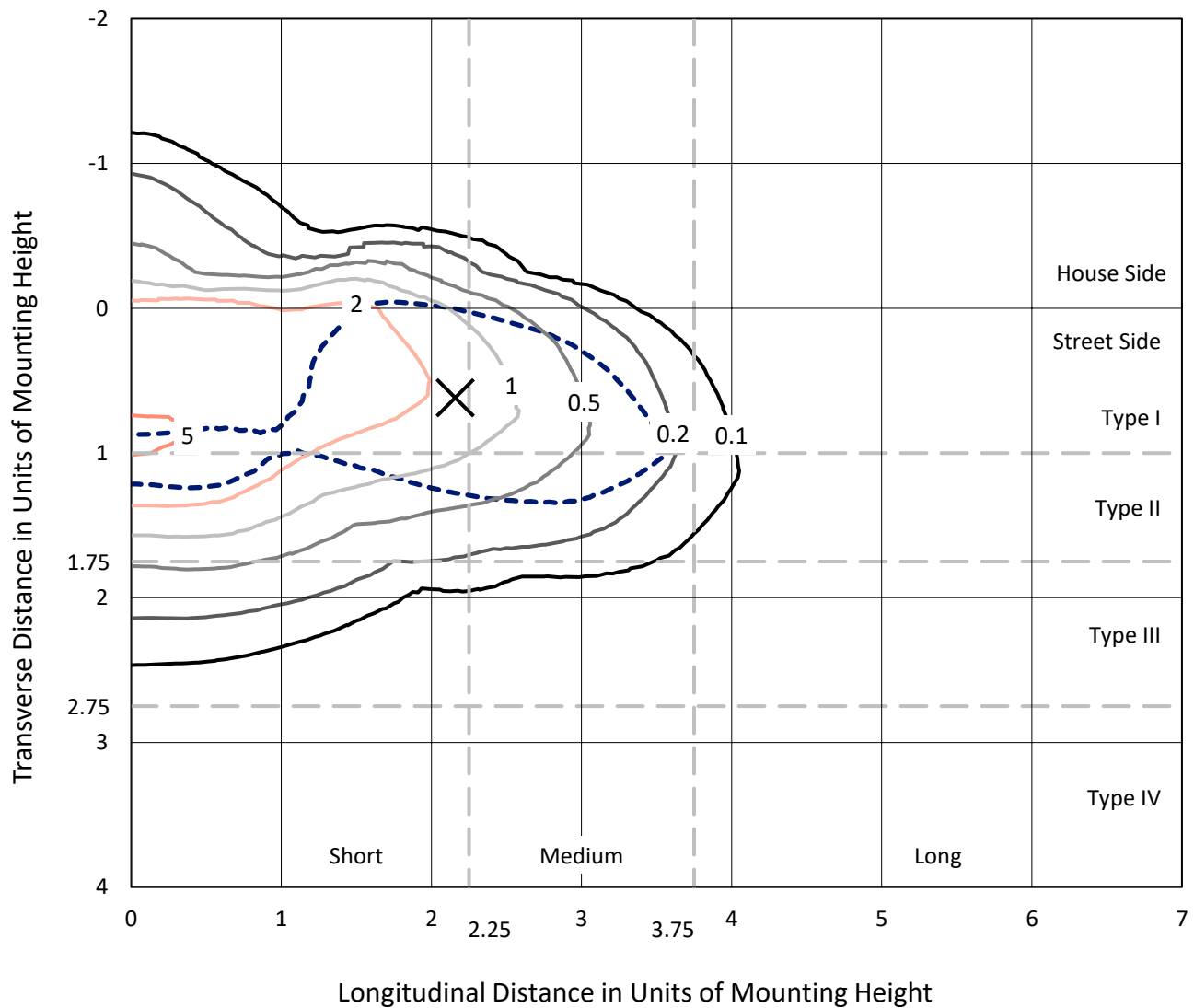


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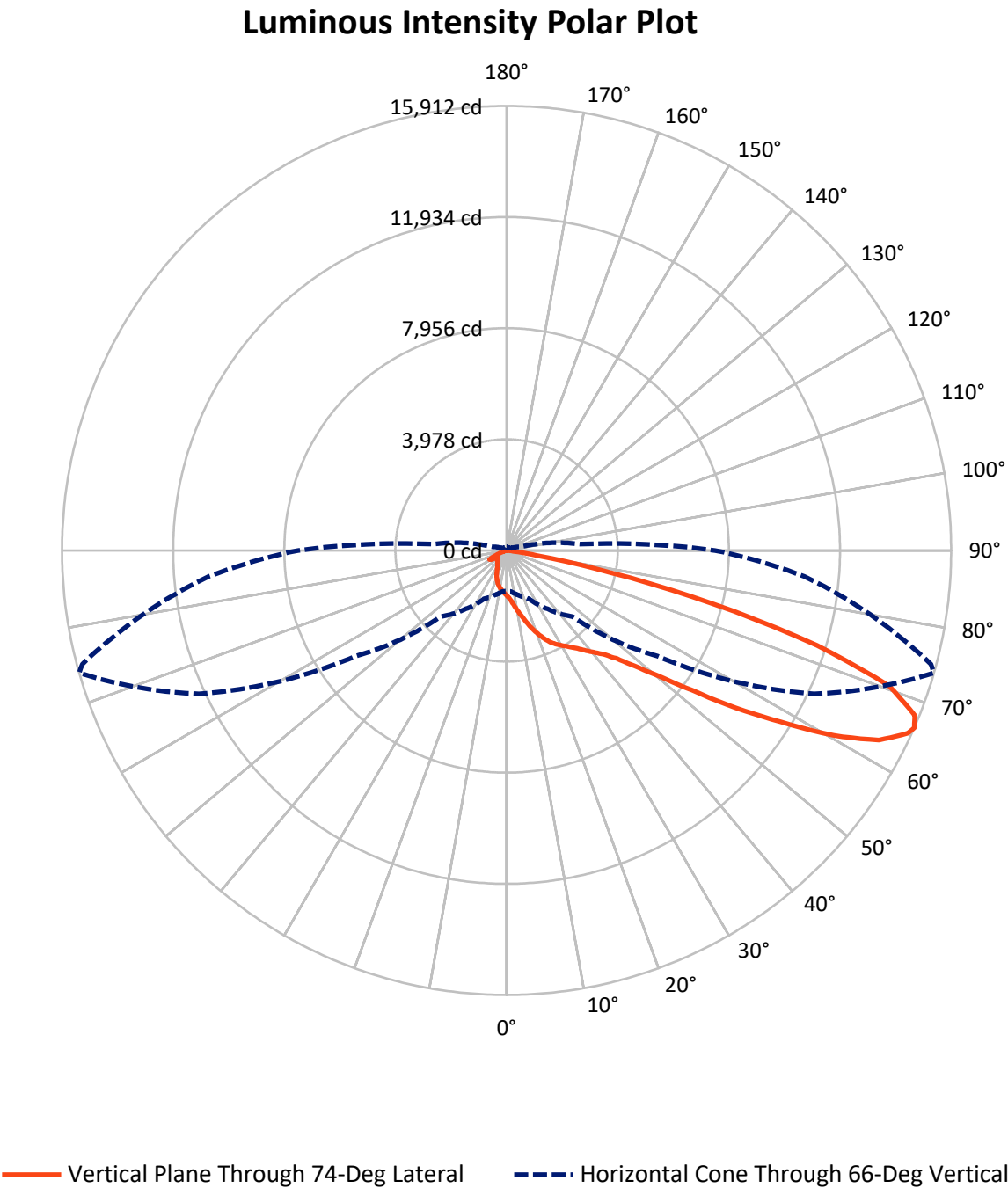
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Short - N/A

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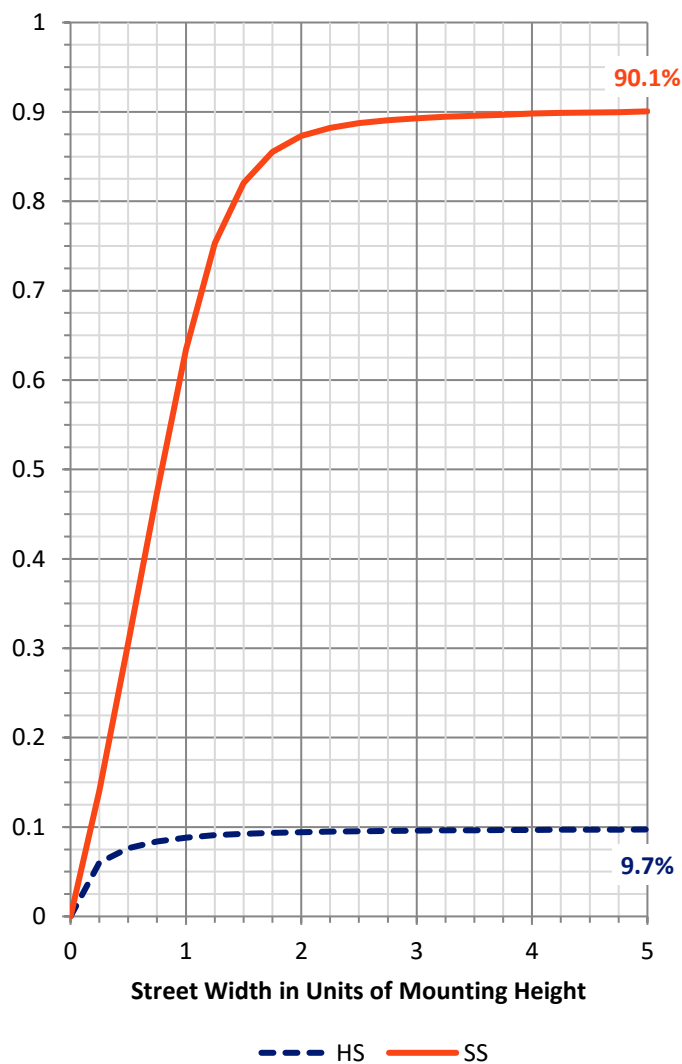
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1453.9	0.0	1453.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	13377.1	0.0	13377.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	14831.0	0.0	14831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	1.1
10°-20°	506.6	3.4
20°-30°	966.8	6.5
30°-40°	1694.5	11.4
40°-50°	2905.7	19.6
50°-60°	3779.0	25.5
60°-70°	3421.0	23.1
70°-80°	1320.0	8.9
80°-90°	79.4	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°	14831.0	100.0
0°-180°	14831.0	100.0

Coefficient of Utilization



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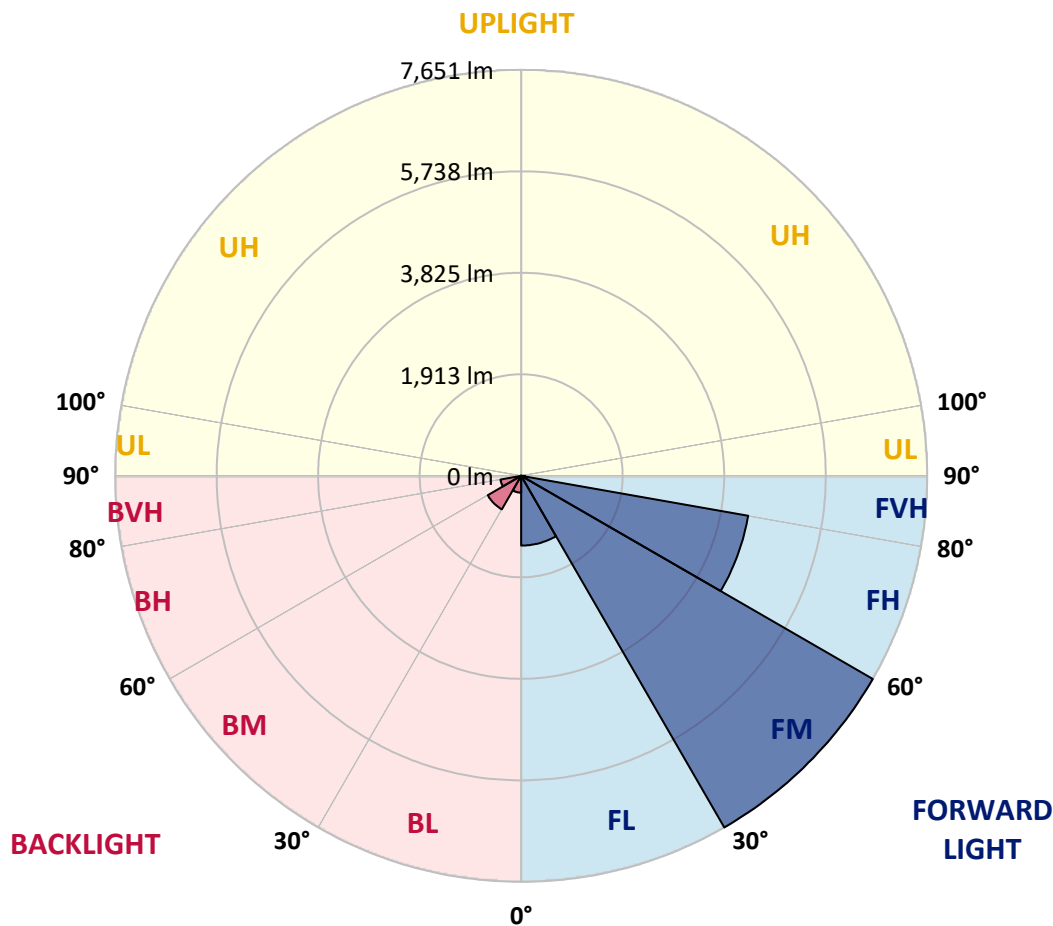
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1314.2	8.9			
FM	(30°-60°)	7650.6	51.6			
FH	(60°-80°)	4343.5	29.3			G2/5000
FVH	(80°-90°)	68.8	0.5			G1/100
BL	(0°-30°)	317.1	2.1	B1/500		
BM	(30°-60°)	728.6	4.9	B1/1000		
BH	(60°-80°)	397.5	2.7	B1/500		G1/500
BVH	(80°-90°)	10.6	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°	1618.9	1618.9	1618.9	1618.9	1618.9	1618.9	1618.9	1618.9	1618.9	1618.9	1618.9
2.5°	1943.8	1927.8	1898.5	1895.9	1871.9	1842.6	1792.0	1738.8	1701.5	1696.2	1650.9
5°	2327.2	2319.2	2289.9	2271.3	2226.0	2156.8	2039.6	1922.5	1824.0	1813.3	1712.1
7.5°	2428.4	2433.7	2439.0	2457.7	2441.7	2409.8	2321.9	2156.8	2002.4	1978.4	1802.7
10°	2444.4	2439.0	2439.0	2463.0	2508.3	2553.5	2542.9	2401.8	2202.1	2172.8	1927.8
12.5°	2617.5	2625.4	2606.8	2596.1	2588.2	2612.1	2692.0	2630.8	2412.4	2388.5	2079.6
15°	2841.1	2838.5	2811.8	2811.8	2787.9	2747.9	2798.5	2843.8	2665.4	2636.1	2252.7
17.5°	3003.5	3014.2	3011.5	3027.5	3019.5	2966.3	2939.6	3032.8	2926.3	2889.0	2449.7
20°	3134.0	3163.3	3174.0	3224.6	3248.5	3211.2	3142.0	3200.6	3176.6	3142.0	2649.4
22.5°	3272.5	3296.4	3315.1	3403.0	3469.5	3461.5	3373.7	3360.3	3418.9	3387.0	2846.4
25°	3410.9	3421.6	3477.5	3584.0	3690.5	3717.2	3626.6	3522.8	3637.3	3608.0	3022.2
27.5°	3562.7	3568.0	3634.6	3765.1	3914.2	3970.1	3898.2	3706.5	3805.0	3805.0	3181.9
30°	3839.6	3892.9	3919.5	4036.7	4167.2	4244.4	4159.2	3900.9	3954.1	3978.1	3349.7
32.5°	4436.1	4444.1	4436.1	4486.7	4513.3	4558.6	4460.1	4119.2	4105.9	4132.5	3514.8
35°	5346.7	5314.8	5229.6	5155.0	5000.6	4915.4	4787.6	4398.8	4292.3	4329.6	3677.2
37.5°	6451.8	6406.5	6212.1	5983.1	5652.9	5312.1	5152.4	4739.6	4529.3	4577.2	3853.0
40°	7506.2	7476.9	7245.3	6963.0	6398.5	5815.4	5477.2	5027.2	4792.9	4811.5	4031.4
42.5°	8374.2	8368.9	8174.5	7879.0	7154.7	6358.6	5860.6	5309.5	5069.8	5099.1	4217.7
45°	9031.9	8981.3	8837.6	8624.5	7887.0	6923.1	6324.0	5738.2	5514.5	5549.1	4497.3
47.5°	9031.9	9039.9	9133.1	9111.8	8398.2	7452.9	6829.9	6278.7	6172.2	6204.1	4958.0
50°	8297.0	8371.6	8787.0	9135.8	8664.5	7865.7	7375.7	6955.0	7064.2	7112.1	5762.1
52.5°	6843.2	6968.3	7689.9	8486.1	8467.4	8073.4	7940.2	7815.1	8305.0	8390.2	6949.7
55°	5200.3	5282.8	6222.8	7269.2	7610.0	7902.9	8432.8	8906.8	9947.9	9929.3	8155.9
57.5°	3884.9	3962.1	4771.6	5932.5	6382.5	7165.4	8685.8	10155.6	11577.5	11649.4	9287.6
60°	2857.1	2915.7	3605.3	4558.6	5208.3	6036.4	8584.6	11385.8	13454.7	13372.2	10286.1
62.5°	2114.2	2146.1	2644.1	3264.5	4127.2	4918.0	7948.2	12227.2	14953.8	14786.1	10842.6
65°	1634.9	1645.6	1903.8	2234.0	3000.9	3823.7	7000.3	12355.0	15781.9	15603.5	10831.9
66°	1456.5	1464.5	1653.5	1909.2	2553.5	3347.0	6584.9	12150.0	15912.4	15723.3	10698.8
67.5°	1222.2	1216.9	1328.7	1496.4	1917.2	2582.8	5847.3	11550.9	15758.0	15662.1	10272.8
70°	905.3	908.0	963.9	1003.8	1121.0	1429.9	4223.1	10019.8	14522.5	14517.1	9103.8
72.5°	671.0	679.0	721.6	729.6	700.3	774.9	2433.7	7969.5	11617.4	11620.1	6805.9
75°	503.3	516.6	529.9	535.2	508.6	489.9	1099.7	5362.7	7642.0	7586.1	3853.0
77.5°	383.4	388.8	399.4	391.4	386.1	338.2	458.0	2614.8	3773.1	3437.6	1248.8
80°	279.6	279.6	290.2	279.6	276.9	242.3	250.3	838.8	1107.7	921.3	268.9
82.5°	175.7	173.1	181.1	178.4	173.1	154.4	146.4	234.3	255.6	229.0	130.5
85°	98.5	95.9	93.2	90.5	82.5	69.2	79.9	87.9	117.2	119.8	93.2
87.5°	34.6	34.6	32.0	29.3	24.0	24.0	29.3	29.3	42.6	42.6	47.9
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°	1618.9	1618.9	1618.9	1618.9	1618.9	1618.9	1618.9	1618.9	1618.9	1618.9	1618.9
2.5°	1629.6	1600.3	1557.7	1501.8	1461.8	1421.9	1379.3	1355.3	1320.7	1312.7	1323.4
5°	1658.9	1605.6	1499.1	1382.0	1280.8	1190.2	1105.0	1054.4	1003.8	985.2	993.2
7.5°	1720.1	1629.6	1448.5	1259.5	1091.7	955.9	854.7	796.2	750.9	732.2	737.6
10°	1810.6	1672.2	1400.6	1121.0	905.3	761.5	676.3	639.1	612.4	601.8	604.4
12.5°	1919.8	1733.4	1339.3	982.5	745.6	620.4	580.5	572.5	567.2	561.8	564.5
15°	2042.3	1786.7	1267.5	846.7	620.4	551.2	537.9	535.2	532.5	532.5	532.5
17.5°	2170.1	1834.6	1187.6	718.9	540.5	508.6	500.6	500.6	500.6	503.3	503.3
20°	2289.9	1871.9	1094.4	604.4	495.3	468.6	463.3	463.3	466.0	468.6	468.6
22.5°	2407.1	1887.9	985.2	524.6	458.0	434.0	426.0	426.0	426.0	428.7	428.7
25°	2508.3	1887.9	876.0	474.0	426.0	402.1	391.4	388.8	391.4	391.4	391.4
27.5°	2593.5	1879.9	769.5	439.3	394.1	370.1	359.5	356.8	362.1	364.8	364.8
30°	2684.0	1869.2	684.3	407.4	367.5	343.5	332.8	332.8	340.8	351.5	351.5
32.5°	2771.9	1877.2	617.8	380.8	340.8	322.2	311.5	314.2	330.2	346.2	346.2
35°	2865.1	1893.2	577.8	362.1	322.2	303.5	295.6	303.5	319.5	335.5	335.5
37.5°	2958.3	1911.8	553.8	346.2	306.2	287.6	282.2	292.9	311.5	327.5	330.2
40°	3056.8	1927.8	527.2	330.2	295.6	274.3	271.6	282.2	306.2	322.2	324.9
42.5°	3179.3	1959.8	495.3	316.9	284.9	258.3	260.9	268.9	292.9	316.9	319.5
45°	3418.9	2060.9	463.3	303.5	271.6	250.3	245.0	250.3	276.9	303.5	308.9
47.5°	3868.9	2289.9	428.7	290.2	258.3	245.0	223.7	229.0	253.0	282.2	284.9
50°	4731.6	2777.2	410.1	276.9	247.6	226.3	202.4	202.4	221.0	247.6	247.6
52.5°	6076.3	3650.6	420.7	266.3	234.3	207.7	183.7	181.1	191.7	210.4	210.4
55°	7527.5	4609.2	460.7	255.6	218.3	197.0	170.4	157.1	165.1	175.7	175.7
57.5°	8677.8	5091.1	569.8	250.3	199.7	189.1	154.4	135.8	143.8	154.4	154.4
60°	9183.7	4808.9	692.3	255.6	186.4	175.7	138.5	119.8	133.1	143.8	146.4
62.5°	8773.7	3959.5	742.9	242.3	167.8	157.1	135.8	111.8	127.8	135.8	138.5
65°	7887.0	3008.9	580.5	210.4	154.4	135.8	122.5	106.5	119.8	127.8	127.8
66°	7466.3	2622.8	495.3	194.4	149.1	127.8	117.2	106.5	117.2	122.5	125.1
67.5°	6813.9	2068.9	367.5	170.4	138.5	117.2	109.2	101.2	111.8	117.2	117.2
70°	5328.1	1232.8	221.0	133.1	119.8	103.8	98.5	93.2	101.2	103.8	103.8
72.5°	3336.4	585.8	141.1	98.5	101.2	98.5	82.5	87.9	90.5	93.2	93.2
75°	1616.3	231.7	95.9	71.9	82.5	93.2	66.6	77.2	79.9	85.2	82.5
77.5°	450.0	111.8	61.2	53.3	71.9	71.9	50.6	61.2	71.9	90.5	82.5
80°	130.5	71.9	39.9	39.9	50.6	50.6	34.6	42.6	47.9	53.3	55.9
82.5°	90.5	47.9	26.6	29.3	29.3	32.0	21.3	21.3	26.6	26.6	29.3
85°	71.9	21.3	16.0	18.6	13.3	16.0	10.7	10.7	13.3	10.7	10.7
87.5°	29.3	10.7	10.7	10.7	8.0	8.0	5.3	2.7	2.7	2.7	2.7
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)