

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: P1210520

Luminaire Tested: **ARCH3-150-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210520
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: ARCH3-150-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 14312 lumens
Efficiency: N/A
Efficacy: 95.0 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

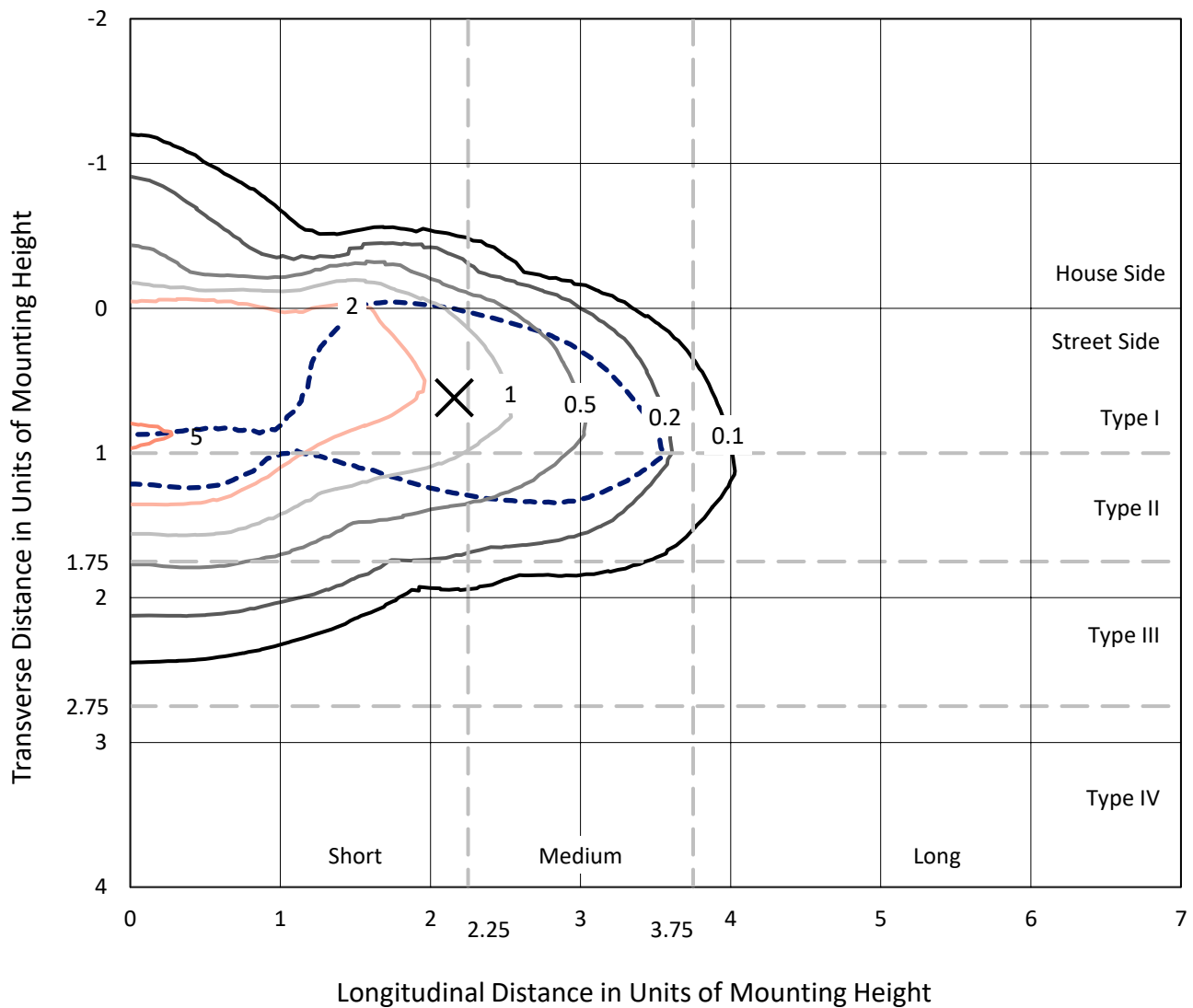
Input Watts (W): 150.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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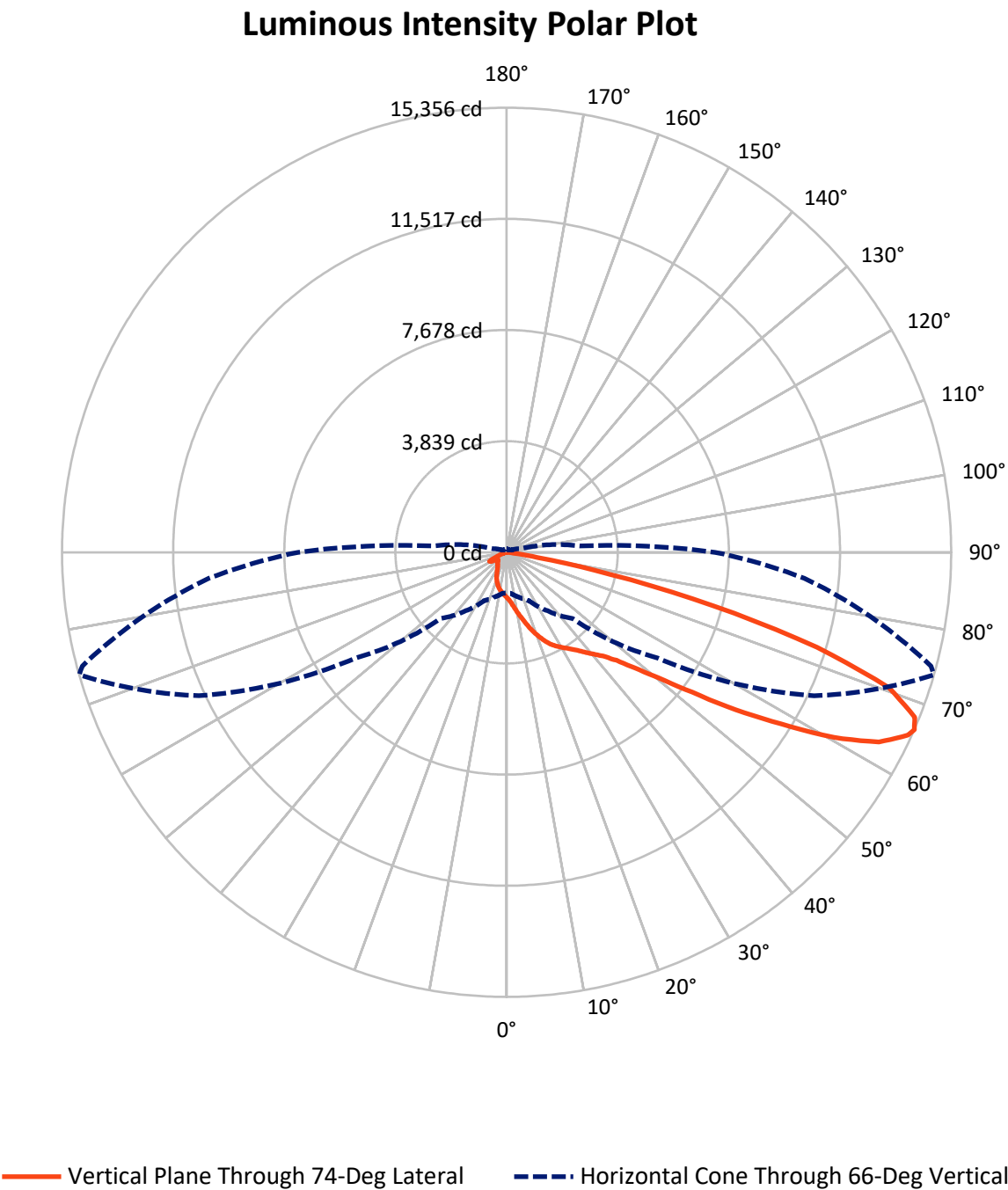
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type II - Short - N/A

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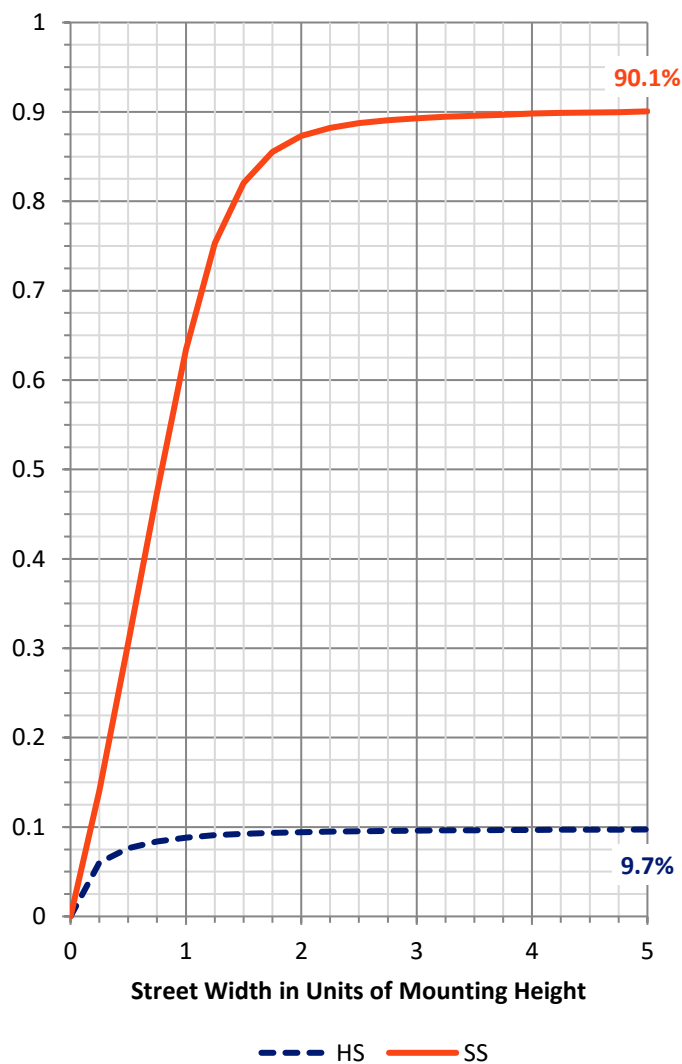
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1403.0	0.0	1403.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	12909.0	0.0	12909.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	14312.0	0.0	14312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	1.1
10°-20°	488.9	3.4
20°-30°	933.0	6.5
30°-40°	1635.2	11.4
40°-50°	2804.0	19.6
50°-60°	3646.8	25.5
60°-70°	3301.3	23.1
70°-80°	1273.8	8.9
80°-90°	76.7	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°	14312.0	100.0
0°-180°	14312.0	100.0

Coefficient of Utilization



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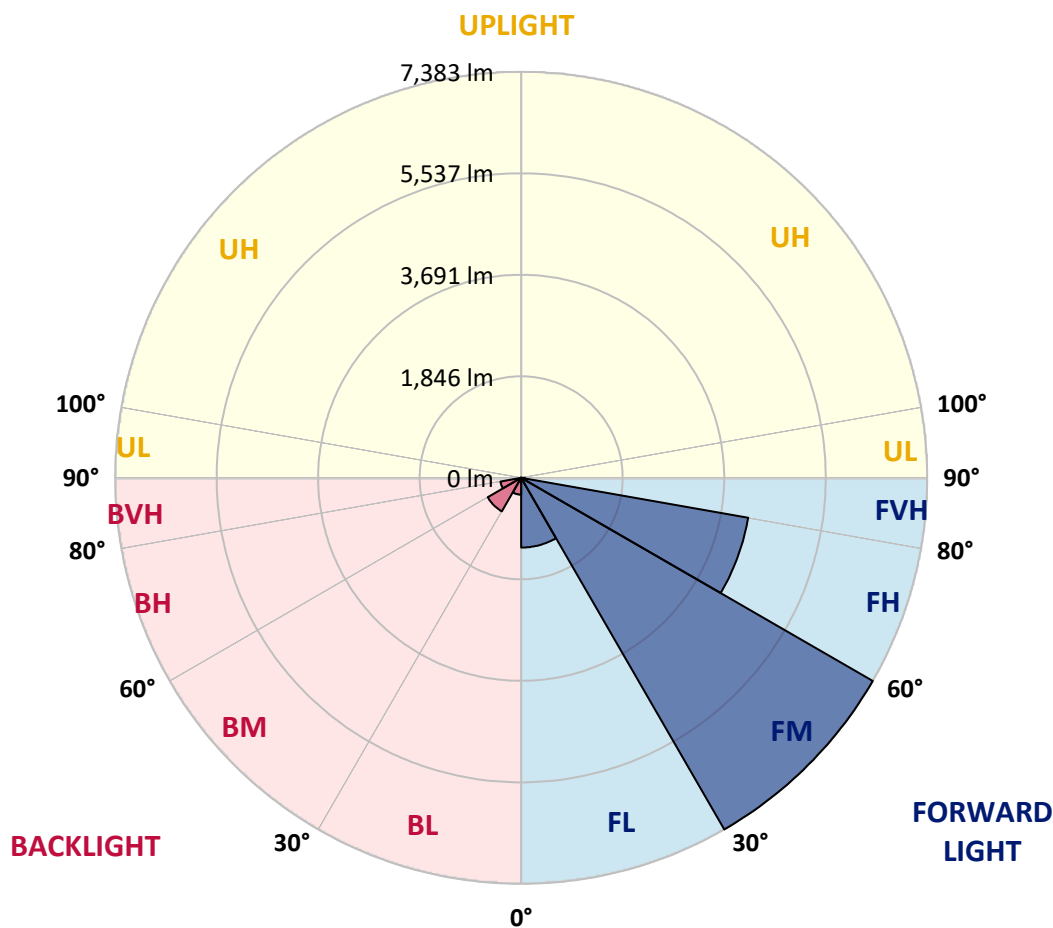
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1268.3	8.9			
FM	(30°-60°)	7382.9	51.6			
FH	(60°-80°)	4191.5	29.3			G2/5000
FVH	(80°-90°)	66.4	0.5			G1/100
BL	(0°-30°)	306.0	2.1	B1/500		
BM	(30°-60°)	703.1	4.9	B1/1000		
BH	(60°-80°)	383.6	2.7	B1/500		G1/500
BVH	(80°-90°)	10.3	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°	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3
2.5°	1875.8	1860.3	1832.1	1829.5	1806.4	1778.1	1729.3	1677.9	1641.9	1636.8	1593.1
5°	2245.8	2238.1	2209.8	2191.8	2148.1	2081.3	1968.3	1855.2	1760.1	1749.9	1652.2
7.5°	2343.4	2348.6	2353.7	2371.7	2356.3	2325.4	2240.6	2081.3	1932.3	1909.2	1739.6
10°	2358.8	2353.7	2353.7	2376.8	2420.5	2464.2	2453.9	2317.7	2125.0	2096.7	1860.3
12.5°	2525.9	2533.6	2515.6	2505.3	2497.6	2520.7	2597.8	2538.7	2328.0	2304.9	2006.8
15°	2741.7	2739.1	2713.4	2713.4	2690.3	2651.8	2700.6	2744.3	2572.1	2543.8	2173.8
17.5°	2898.4	2908.7	2906.1	2921.6	2913.9	2862.5	2836.8	2926.7	2823.9	2787.9	2364.0
20°	3024.3	3052.6	3062.9	3111.7	3134.8	3098.9	3032.1	3088.6	3065.5	3032.1	2556.7
22.5°	3158.0	3181.1	3199.1	3283.9	3348.1	3340.4	3255.6	3242.8	3299.3	3268.5	2746.8
25°	3291.6	3301.9	3355.8	3458.6	3561.4	3587.1	3499.7	3399.5	3510.0	3481.7	2916.4
27.5°	3438.0	3443.2	3507.4	3633.3	3777.2	3831.2	3761.8	3576.8	3671.9	3671.9	3070.6
30°	3705.3	3756.7	3782.4	3895.4	4021.3	4095.8	4013.6	3764.4	3815.8	3838.9	3232.5
32.5°	4280.8	4288.6	4280.8	4329.7	4355.4	4399.0	4304.0	3975.1	3962.2	3987.9	3391.8
35°	5159.6	5128.8	5046.6	4974.6	4825.6	4743.4	4620.0	4244.9	4142.1	4178.1	3548.5
37.5°	6226.0	6182.3	5994.7	5773.7	5455.1	5126.2	4972.1	4573.8	4370.8	4417.0	3718.1
40°	7243.5	7215.3	6991.7	6719.3	6174.6	5611.9	5285.5	4851.3	4625.2	4643.2	3890.3
42.5°	8081.2	8076.1	7888.5	7603.3	6904.3	6136.1	5655.6	5123.7	4892.4	4920.7	4070.1
45°	8715.9	8667.0	8528.3	8322.7	7611.0	6680.8	6102.7	5537.4	5321.5	5354.9	4339.9
47.5°	8715.9	8723.6	8813.5	8793.0	8104.3	7192.1	6590.9	6059.0	5956.2	5987.0	4784.5
50°	8006.7	8078.6	8479.5	8816.1	8361.3	7590.4	7117.6	6711.6	6817.0	6863.2	5560.5
52.5°	6603.7	6724.5	7420.8	8189.1	8171.1	7790.8	7662.4	7541.6	8014.4	8096.6	6706.5
55°	5018.3	5098.0	6005.0	7014.8	7343.7	7626.4	8137.7	8595.1	9599.8	9581.8	7870.5
57.5°	3749.0	3823.5	4604.6	5724.9	6159.2	6914.6	8381.8	9800.2	11172.3	11241.7	8962.5
60°	2757.1	2813.6	3479.2	4399.0	5026.0	5825.1	8284.2	10987.3	12983.9	12904.2	9926.1
62.5°	2040.2	2071.0	2551.6	3150.3	3982.8	4745.9	7670.1	11799.3	14430.5	14268.6	10463.2
65°	1577.7	1588.0	1837.2	2155.8	2895.9	3689.9	6755.3	11922.7	15229.6	15057.5	10452.9
66°	1405.5	1413.2	1595.7	1842.4	2464.2	3229.9	6354.5	11724.8	15355.6	15173.1	10324.4
67.5°	1179.4	1174.3	1282.2	1444.1	1850.1	2492.5	5642.7	11146.7	15206.5	15114.0	9913.3
70°	873.6	876.2	930.2	968.7	1081.8	1379.8	4075.3	9669.2	14014.3	14009.1	8785.2
72.5°	647.5	655.2	696.3	704.1	675.8	747.7	2348.6	7690.6	11210.9	11213.5	6567.7
75°	485.6	498.5	511.3	516.5	490.8	472.8	1061.2	5175.0	7374.6	7320.6	3718.1
77.5°	370.0	375.2	385.4	377.7	372.6	326.3	442.0	2523.3	3641.0	3317.3	1205.1
80°	269.8	269.8	280.1	269.8	267.2	233.8	241.5	809.4	1068.9	889.1	259.5
82.5°	169.6	167.0	174.7	172.2	167.0	149.0	141.3	226.1	246.7	221.0	125.9
85°	95.1	92.5	89.9	87.4	79.7	66.8	77.1	84.8	113.1	115.6	89.9
87.5°	33.4	33.4	30.8	28.3	23.1	23.1	28.3	28.3	41.1	41.1	46.3
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°	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3
2.5°	1572.6	1544.3	1503.2	1449.2	1410.7	1372.1	1331.0	1307.9	1274.5	1266.8	1277.1
5°	1600.8	1549.4	1446.6	1333.6	1235.9	1148.6	1066.4	1017.5	968.7	950.7	958.4
7.5°	1659.9	1572.6	1397.8	1215.4	1053.5	922.5	824.8	768.3	724.6	706.6	711.8
10°	1747.3	1613.7	1351.6	1081.8	873.6	734.9	652.7	616.7	591.0	580.7	583.3
12.5°	1852.6	1672.8	1292.5	948.2	719.5	598.7	560.2	552.5	547.3	542.2	544.7
15°	1970.8	1724.2	1223.1	817.1	598.7	531.9	519.0	516.5	513.9	513.9	513.9
17.5°	2094.2	1770.4	1146.0	693.8	521.6	490.8	483.1	483.1	483.1	485.6	485.6
20°	2209.8	1806.4	1056.1	583.3	477.9	452.2	447.1	447.1	449.7	452.2	452.2
22.5°	2322.9	1821.8	950.7	506.2	442.0	418.8	411.1	411.1	411.1	413.7	413.7
25°	2420.5	1821.8	845.4	457.4	411.1	388.0	377.7	375.2	377.7	377.7	377.7
27.5°	2502.7	1814.1	742.6	424.0	380.3	357.2	346.9	344.3	349.5	352.0	352.0
30°	2590.1	1803.8	660.4	393.1	354.6	331.5	321.2	321.2	328.9	339.2	339.2
32.5°	2674.9	1811.5	596.1	367.4	328.9	310.9	300.6	303.2	318.6	334.0	334.0
35°	2764.8	1826.9	557.6	349.5	310.9	292.9	285.2	292.9	308.3	323.8	323.8
37.5°	2854.8	1844.9	534.5	334.0	295.5	277.5	272.4	282.6	300.6	316.1	318.6
40°	2949.8	1860.3	508.8	318.6	285.2	264.7	262.1	272.4	295.5	310.9	313.5
42.5°	3068.0	1891.2	477.9	305.8	274.9	249.2	251.8	259.5	282.6	305.8	308.3
45°	3299.3	1988.8	447.1	292.9	262.1	241.5	236.4	241.5	267.2	292.9	298.1
47.5°	3733.5	2209.8	413.7	280.1	249.2	236.4	215.8	221.0	244.1	272.4	274.9
50°	4566.1	2680.0	395.7	267.2	239.0	218.4	195.3	195.3	213.3	239.0	239.0
52.5°	5863.7	3522.8	406.0	257.0	226.1	200.4	177.3	174.7	185.0	203.0	203.0
55°	7264.1	4447.9	444.5	246.7	210.7	190.1	164.5	151.6	159.3	169.6	169.6
57.5°	8374.1	4913.0	549.9	241.5	192.7	182.4	149.0	131.0	138.8	149.0	149.0
60°	8862.3	4640.6	668.1	246.7	179.9	169.6	133.6	115.6	128.5	138.8	141.3
62.5°	8466.6	3820.9	716.9	233.8	161.9	151.6	131.0	107.9	123.3	131.0	133.6
65°	7611.0	2903.6	560.2	203.0	149.0	131.0	118.2	102.8	115.6	123.3	123.3
66°	7205.0	2531.0	477.9	187.6	143.9	123.3	113.1	102.8	113.1	118.2	120.8
67.5°	6575.4	1996.5	354.6	164.5	133.6	113.1	105.4	97.6	107.9	113.1	113.1
70°	5141.6	1189.7	213.3	128.5	115.6	100.2	95.1	89.9	97.6	100.2	100.2
72.5°	3219.6	565.3	136.2	95.1	97.6	95.1	79.7	84.8	87.4	89.9	89.9
75°	1559.7	223.5	92.5	69.4	79.7	89.9	64.2	74.5	77.1	82.2	79.7
77.5°	434.3	107.9	59.1	51.4	69.4	69.4	48.8	59.1	69.4	87.4	79.7
80°	125.9	69.4	38.5	38.5	48.8	48.8	33.4	41.1	46.3	51.4	54.0
82.5°	87.4	46.3	25.7	28.3	28.3	30.8	20.6	20.6	25.7	25.7	28.3
85°	69.4	20.6	15.4	18.0	12.8	15.4	10.3	10.3	12.8	10.3	10.3
87.5°	28.3	10.3	10.3	10.3	7.7	7.7	5.1	2.6	2.6	2.6	2.6
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)