

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: P1210612

Luminaire Tested: **ARCH3-180-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210612
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: ARCH3-180-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 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: 14586 lumens
Efficiency: N/A
Efficacy: 80.8 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

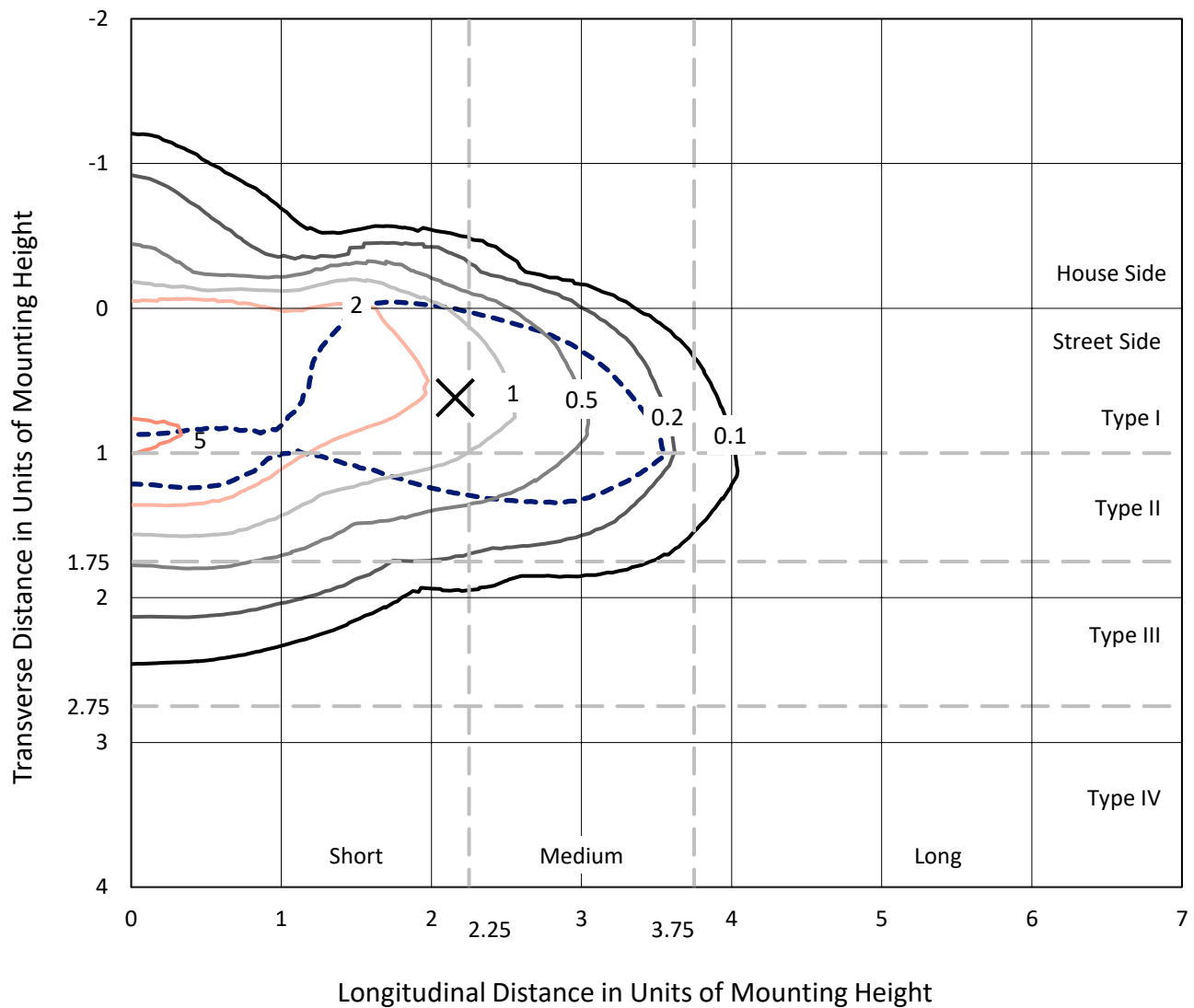


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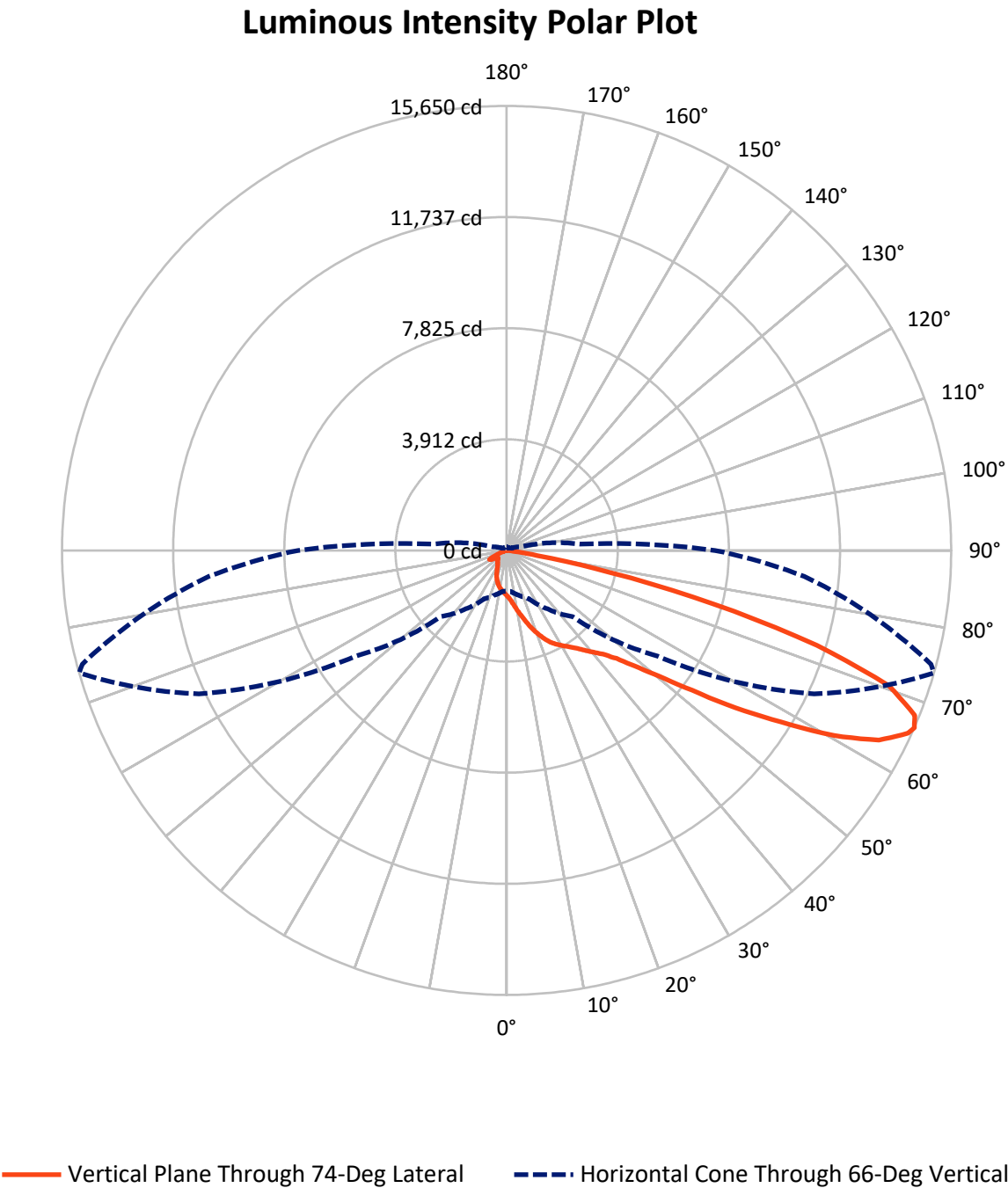
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type II - Short - N/A

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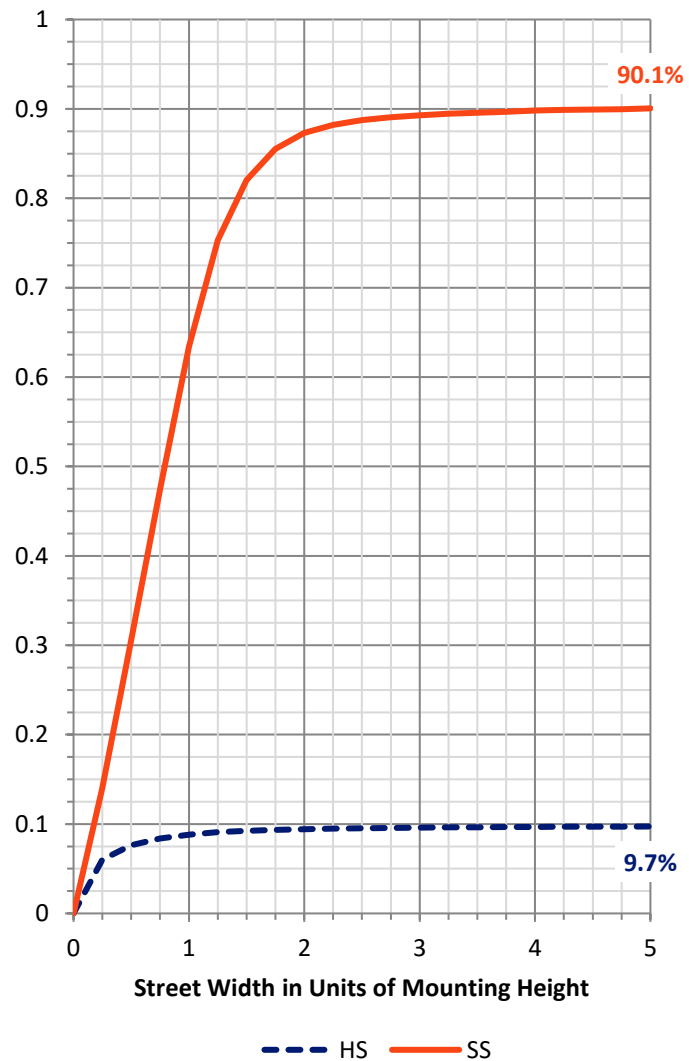
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1429.9	0.0	1429.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	13156.1	0.0	13156.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	14586.0	0.0	14586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	1.1
10°-20°	498.2	3.4
20°-30°	950.8	6.5
30°-40°	1666.5	11.4
40°-50°	2857.7	19.6
50°-60°	3716.6	25.5
60°-70°	3364.5	23.1
70°-80°	1298.2	8.9
80°-90°	78.1	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°	14586.0	100.0
0°-180°	14586.0	100.0

Coefficient of Utilization



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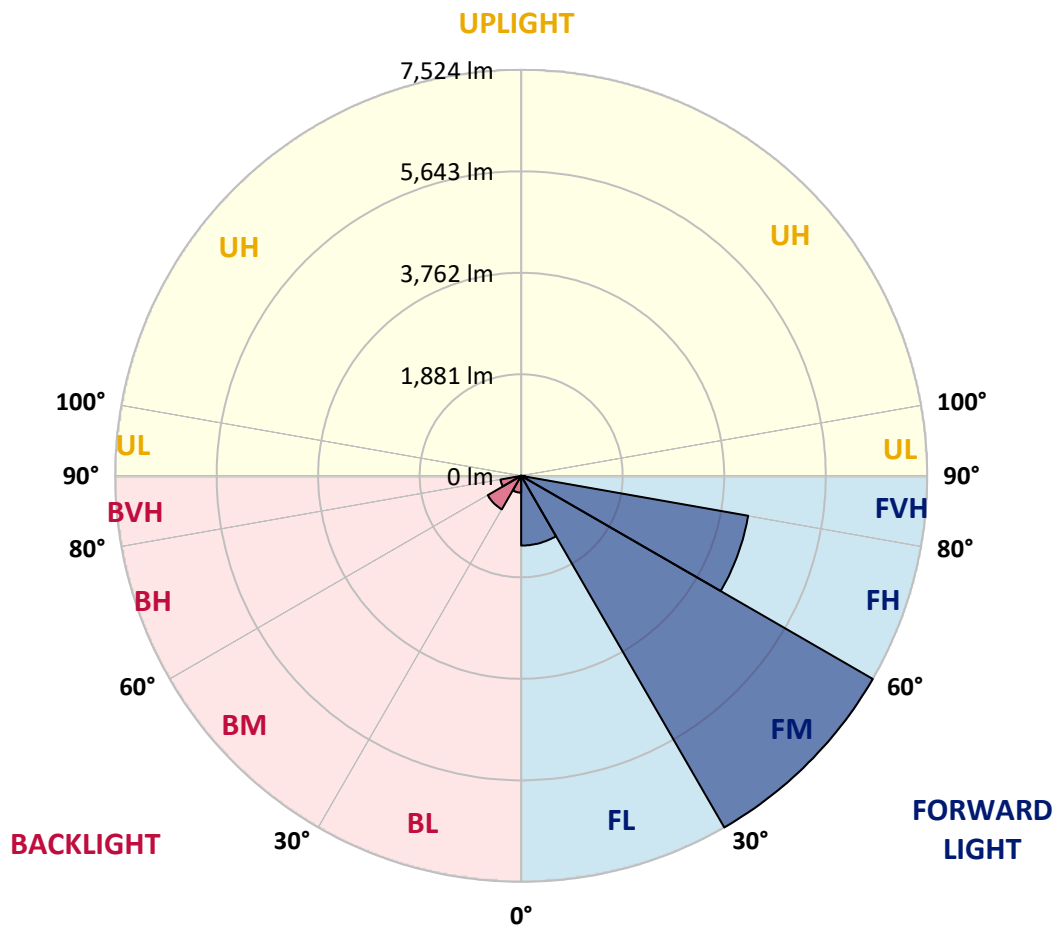
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1292.5	8.9			
FM	(30°-60°)	7524.2	51.6			
FH	(60°-80°)	4271.7	29.3			G2/5000
FVH	(80°-90°)	67.7	0.5			G1/100
BL	(0°-30°)	311.9	2.1	B1/500		
BM	(30°-60°)	716.6	4.9	B1/1000		
BH	(60°-80°)	390.9	2.7	B1/500		G1/500
BVH	(80°-90°)	10.5	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°	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2
2.5°	1911.7	1896.0	1867.2	1864.5	1841.0	1812.2	1762.4	1710.0	1673.4	1668.1	1623.6
5°	2288.8	2280.9	2252.1	2233.8	2189.3	2121.2	2005.9	1890.7	1793.8	1783.4	1683.8
7.5°	2388.3	2393.5	2398.8	2417.1	2401.4	2370.0	2283.5	2121.2	1969.3	1945.7	1772.9
10°	2404.0	2398.8	2398.8	2422.3	2466.8	2511.4	2500.9	2362.1	2165.7	2136.9	1896.0
12.5°	2574.2	2582.1	2563.7	2553.3	2545.4	2569.0	2647.5	2587.3	2372.6	2349.0	2045.2
15°	2794.2	2791.6	2765.4	2765.4	2741.8	2702.5	2752.3	2796.8	2621.3	2592.5	2215.4
17.5°	2953.9	2964.4	2961.8	2977.5	2969.6	2917.3	2891.1	2982.7	2878.0	2841.3	2409.2
20°	3082.2	3111.1	3121.5	3171.3	3194.9	3158.2	3090.1	3147.7	3124.1	3090.1	2605.6
22.5°	3218.4	3242.0	3260.3	3346.7	3412.2	3404.3	3317.9	3304.8	3362.4	3331.0	2799.4
25°	3354.6	3365.1	3420.1	3524.8	3629.6	3655.7	3566.7	3464.6	3577.2	3548.4	2972.3
27.5°	3503.9	3509.1	3574.6	3702.9	3849.5	3904.5	3833.8	3645.3	3742.2	3742.2	3129.4
30°	3776.2	3828.6	3854.8	3970.0	4098.3	4174.3	4090.5	3836.4	3888.8	3912.4	3294.4
32.5°	4362.8	4370.7	4362.8	4412.6	4438.7	4483.3	4386.4	4051.2	4038.1	4064.3	3456.7
35°	5258.4	5227.0	5143.2	5069.9	4918.0	4834.2	4708.5	4326.1	4221.4	4258.1	3616.5
37.5°	6345.2	6300.7	6109.5	5884.3	5559.6	5224.4	5067.2	4661.3	4454.5	4501.6	3789.3
40°	7382.2	7353.4	7125.6	6848.0	6292.8	5719.3	5386.7	4944.2	4713.7	4732.0	3964.8
42.5°	8235.9	8230.7	8039.5	7748.8	7036.5	6253.5	5763.8	5221.7	4986.1	5014.9	4148.1
45°	8882.7	8833.0	8691.6	8482.1	7756.7	6808.7	6219.5	5643.4	5423.4	5457.4	4423.0
47.5°	8882.7	8890.6	8982.2	8961.3	8259.5	7329.8	6717.0	6175.0	6070.2	6101.6	4876.1
50°	8160.0	8233.3	8641.8	8984.9	8521.3	7735.7	7253.9	6840.1	6947.5	6994.6	5666.9
52.5°	6730.1	6853.2	7562.9	8345.9	8327.6	7940.0	7809.1	7686.0	8167.8	8251.6	6834.9
55°	5114.4	5195.6	6120.0	7149.1	7484.3	7772.4	8293.5	8759.7	9783.6	9765.2	8021.2
57.5°	3820.7	3896.7	4692.8	5834.5	6277.1	7047.0	8542.3	9987.8	11386.2	11456.9	9134.1
60°	2809.9	2867.5	3545.8	4483.3	5122.2	5936.7	8442.8	11197.7	13232.4	13151.3	10116.2
62.5°	2079.3	2110.7	2600.4	3210.6	4059.0	4836.8	7816.9	12025.2	14706.8	14541.8	10663.5
65°	1607.9	1618.4	1872.4	2197.1	2951.3	3760.5	6884.6	12150.9	15521.2	15345.8	10653.0
66°	1432.4	1440.3	1626.2	1877.6	2511.4	3291.7	6476.1	11949.3	15649.5	15463.6	10522.1
67.5°	1202.0	1196.8	1306.7	1471.7	1885.5	2540.2	5750.7	11360.1	15497.6	15403.4	10103.1
70°	890.4	893.0	948.0	987.3	1102.5	1406.3	4153.3	9854.3	14282.6	14277.3	8953.4
72.5°	659.9	667.8	709.7	717.5	688.7	762.1	2393.5	7837.9	11425.5	11428.1	6693.5
75°	494.9	508.0	521.1	526.4	500.2	481.8	1081.5	5274.1	7515.8	7460.8	3789.3
77.5°	377.1	382.3	392.8	385.0	379.7	332.6	450.4	2571.6	3710.7	3380.8	1228.2
80°	275.0	275.0	285.4	275.0	272.3	238.3	246.2	824.9	1089.4	906.1	264.5
82.5°	172.8	170.2	178.1	175.5	170.2	151.9	144.0	230.4	251.4	225.2	128.3
85°	96.9	94.3	91.7	89.0	81.2	68.1	78.6	86.4	115.2	117.8	91.7
87.5°	34.0	34.0	31.4	28.8	23.6	23.6	28.8	28.8	41.9	41.9	47.1
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°	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2
2.5°	1602.7	1573.9	1532.0	1477.0	1437.7	1398.4	1356.5	1332.9	1298.9	1291.0	1301.5
5°	1631.5	1579.1	1474.3	1359.1	1259.6	1170.6	1086.8	1037.0	987.3	968.9	976.8
7.5°	1691.7	1602.7	1424.6	1238.7	1073.7	940.1	840.6	783.0	738.5	720.2	725.4
10°	1780.7	1644.6	1377.5	1102.5	890.4	749.0	665.2	628.5	602.3	591.8	594.5
12.5°	1888.1	1704.8	1317.2	966.3	733.2	610.2	570.9	563.0	557.8	552.6	555.2
15°	2008.6	1757.2	1246.5	832.8	610.2	542.1	529.0	526.4	523.7	523.7	523.7
17.5°	2134.3	1804.3	1168.0	707.1	531.6	500.2	492.3	492.3	492.3	494.9	494.9
20°	2252.1	1841.0	1076.3	594.5	487.1	460.9	455.7	455.7	458.3	460.9	460.9
22.5°	2367.3	1856.7	968.9	515.9	450.4	426.9	419.0	419.0	419.0	421.6	421.6
25°	2466.8	1856.7	861.6	466.1	419.0	395.4	385.0	382.3	385.0	385.0	385.0
27.5°	2550.6	1848.8	756.8	432.1	387.6	364.0	353.5	350.9	356.1	358.8	358.8
30°	2639.7	1838.3	673.0	400.7	361.4	337.8	327.3	327.3	335.2	345.7	345.7
32.5°	2726.1	1846.2	607.5	374.5	335.2	316.9	306.4	309.0	324.7	340.4	340.4
35°	2817.8	1861.9	568.3	356.1	316.9	298.5	290.7	298.5	314.2	330.0	330.0
37.5°	2909.4	1880.2	544.7	340.4	301.2	282.8	277.6	288.1	306.4	322.1	324.7
40°	3006.3	1896.0	518.5	324.7	290.7	269.7	267.1	277.6	301.2	316.9	319.5
42.5°	3126.8	1927.4	487.1	311.6	280.2	254.0	256.6	264.5	288.1	311.6	314.2
45°	3362.4	2026.9	455.7	298.5	267.1	246.2	240.9	246.2	272.3	298.5	303.8
47.5°	3805.0	2252.1	421.6	285.4	254.0	240.9	220.0	225.2	248.8	277.6	280.2
50°	4653.5	2731.3	403.3	272.3	243.5	222.6	199.0	199.0	217.4	243.5	243.5
52.5°	5975.9	3590.3	413.8	261.9	230.4	204.3	180.7	178.1	188.5	206.9	206.9
55°	7403.2	4533.0	453.0	251.4	214.7	193.8	167.6	154.5	162.4	172.8	172.8
57.5°	8534.4	5007.0	560.4	246.2	196.4	185.9	151.9	133.6	141.4	151.9	151.9
60°	9032.0	4729.4	680.9	251.4	183.3	172.8	136.2	117.8	130.9	141.4	144.0
62.5°	8628.7	3894.1	730.6	238.3	165.0	154.5	133.6	110.0	125.7	133.6	136.2
65°	7756.7	2959.2	570.9	206.9	151.9	133.6	120.5	104.7	117.8	125.7	125.7
66°	7342.9	2579.4	487.1	191.2	146.6	125.7	115.2	104.7	115.2	120.5	123.1
67.5°	6701.3	2034.8	361.4	167.6	136.2	115.2	107.4	99.5	110.0	115.2	115.2
70°	5240.1	1212.5	217.4	130.9	117.8	102.1	96.9	91.7	99.5	102.1	102.1
72.5°	3281.3	576.1	138.8	96.9	99.5	96.9	81.2	86.4	89.0	91.7	91.7
75°	1589.6	227.8	94.3	70.7	81.2	91.7	65.5	75.9	78.6	83.8	81.2
77.5°	442.6	110.0	60.2	52.4	70.7	70.7	49.8	60.2	70.7	89.0	81.2
80°	128.3	70.7	39.3	39.3	49.8	49.8	34.0	41.9	47.1	52.4	55.0
82.5°	89.0	47.1	26.2	28.8	28.8	31.4	20.9	20.9	26.2	26.2	28.8
85°	70.7	20.9	15.7	18.3	13.1	15.7	10.5	10.5	13.1	10.5	10.5
87.5°	28.8	10.5	10.5	10.5	7.9	7.9	5.2	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)