

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: P836020

Luminaire Tested: **ARCH3-130-722-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11663 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 132.6
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

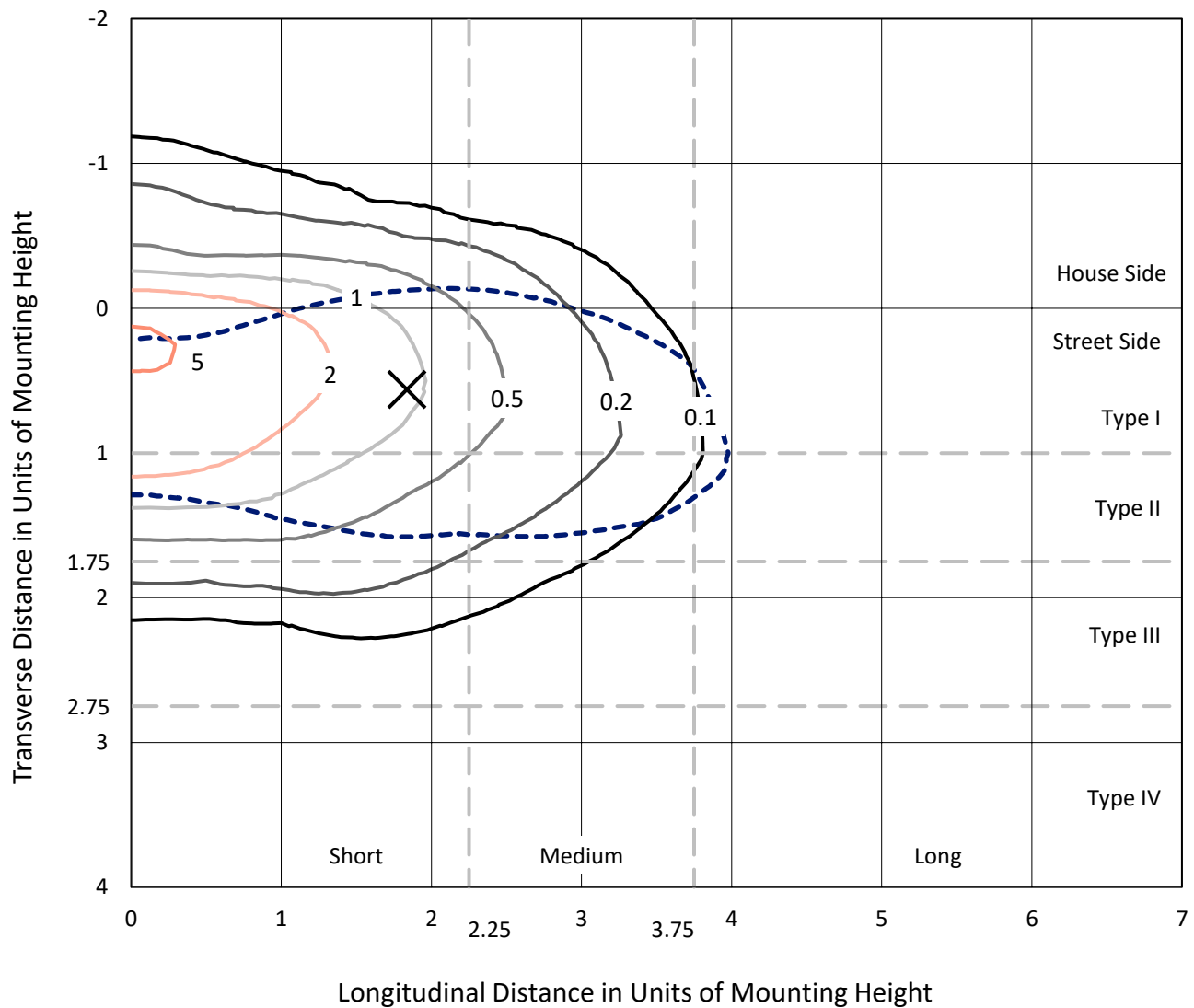


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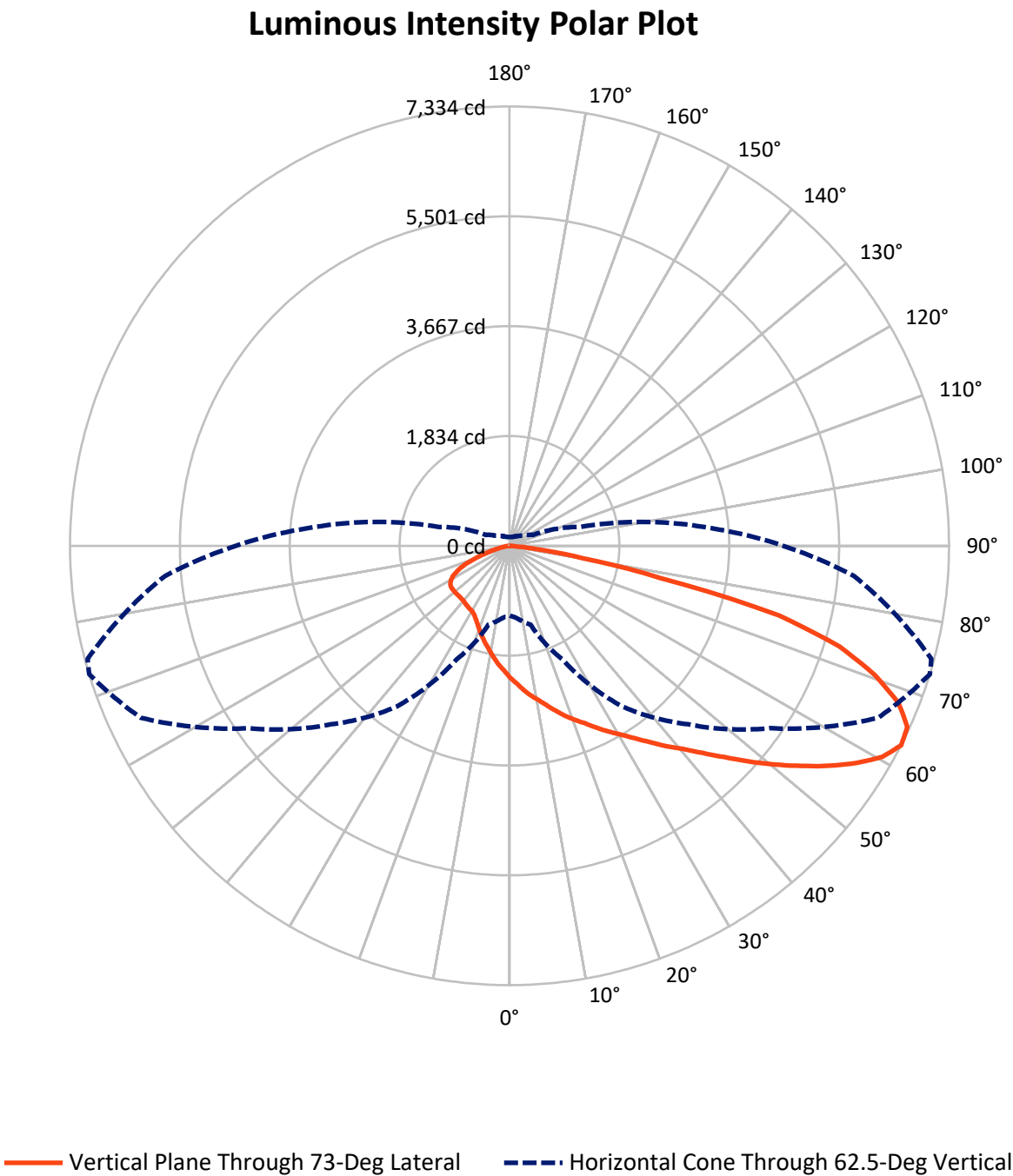
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type II - Short - N/A

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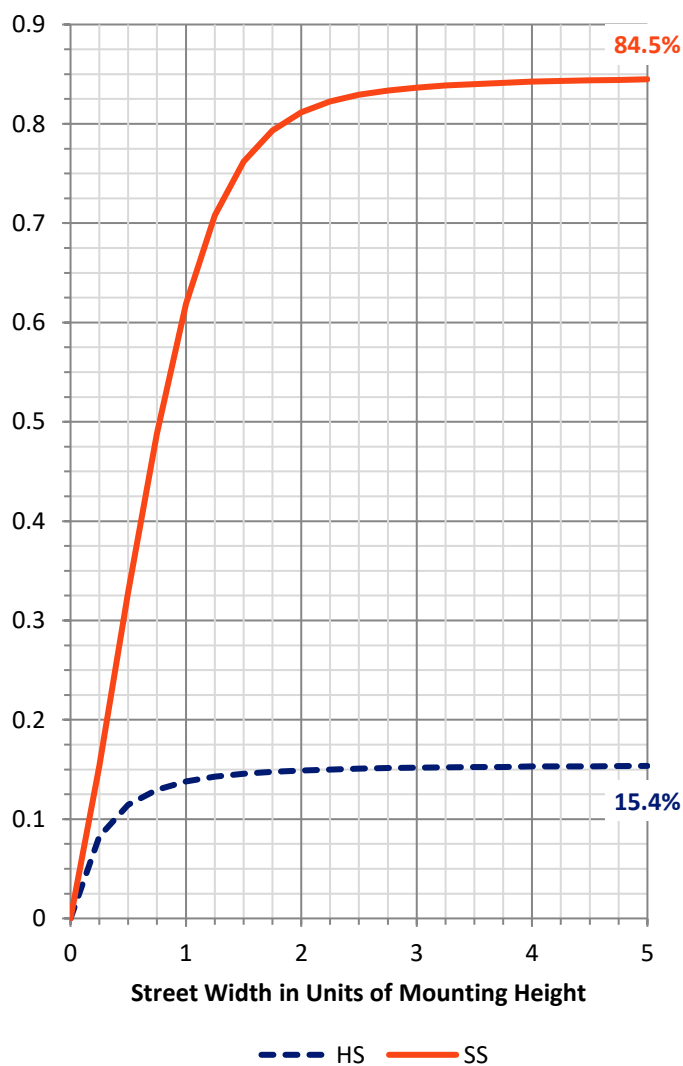
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1808.0	0.0	1808.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	9855.1	0.0	9855.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	11663.0	0.0	11663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	1.8
10°-20°	643.8	5.5
20°-30°	1071.6	9.2
30°-40°	1616.9	13.9
40°-50°	2260.0	19.4
50°-60°	2496.3	21.4
60°-70°	2174.6	18.6
70°-80°	1098.5	9.4
80°-90°	88.2	0.8
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°	11663.0	100.0
0°-180°	11663.0	100.0

Coefficient of Utilization



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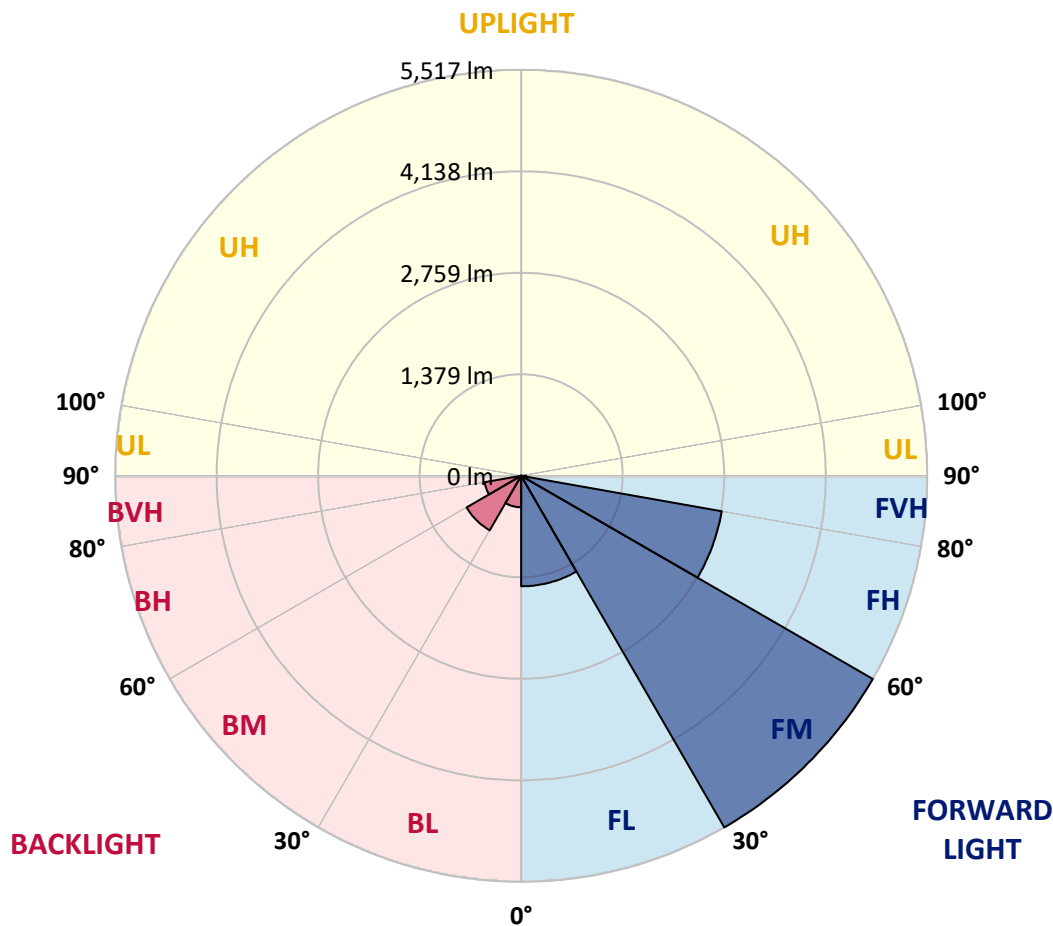
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1501.4	12.9			
FM	(30°-60°)	5517.0	47.3			
FH	(60°-80°)	2768.4	23.7			G2/5000
FVH	(80°-90°)	68.2	0.6			G1/100
BL	(0°-30°)	427.3	3.7	B1/500		
BM	(30°-60°)	856.1	7.3	B1/1000		
BH	(60°-80°)	504.6	4.3	B2/1000		G2/1000
BVH	(80°-90°)	19.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4
2.5°	2513.4	2541.3	2526.1	2536.2	2485.4	2452.4	2414.3	2340.6	2299.9	2294.8	2246.5
5°	2881.9	2912.4	2886.9	2879.3	2790.4	2714.1	2627.7	2498.1	2411.7	2396.5	2289.7
7.5°	3250.4	3278.3	3247.8	3224.9	3105.5	2970.8	2843.7	2653.1	2518.5	2493.0	2325.3
10°	3509.6	3535.0	3512.1	3489.2	3364.7	3227.5	3047.1	2798.0	2615.0	2574.4	2348.2
12.5°	3705.3	3720.5	3710.3	3690.0	3573.1	3425.7	3252.9	2960.6	2724.3	2673.5	2383.8
15°	3865.4	3890.8	3878.1	3862.8	3751.0	3603.6	3438.4	3130.9	2851.4	2787.8	2437.1
17.5°	3972.1	3989.9	3992.4	3992.4	3893.3	3748.5	3588.4	3285.9	2978.4	2897.1	2488.0
20°	4020.4	4040.7	4053.4	4073.7	3992.4	3867.9	3705.3	3418.1	3097.9	3006.4	2536.2
22.5°	4043.3	4061.0	4094.1	4139.8	4073.7	3969.6	3819.6	3540.1	3217.3	3120.8	2592.2
25°	4061.0	4083.9	4132.2	4218.6	4172.9	4083.9	3954.3	3679.8	3359.6	3260.5	2673.5
27.5°	4109.3	4137.3	4183.0	4287.2	4231.3	4188.1	4096.6	3829.8	3509.6	3407.9	2772.6
30°	4277.1	4299.9	4297.4	4363.5	4294.8	4282.1	4218.6	3974.6	3654.4	3552.8	2889.5
32.5°	4582.0	4604.9	4549.0	4523.6	4373.6	4376.2	4350.8	4129.7	3827.2	3723.0	3024.2
35°	4909.8	4935.3	4861.6	4818.4	4566.8	4493.1	4505.8	4322.8	4020.4	3916.2	3191.9
37.5°	5202.1	5232.6	5169.1	5105.5	4851.4	4681.1	4678.6	4538.8	4241.5	4134.7	3377.4
40°	5362.2	5397.8	5435.9	5400.3	5133.5	4945.4	4864.1	4759.9	4460.0	4350.8	3578.2
42.5°	5438.4	5537.6	5606.2	5583.3	5364.7	5174.1	5077.6	4991.2	4726.9	4620.1	3817.1
45°	5225.0	5227.5	5372.4	5496.9	5456.2	5329.2	5311.4	5250.4	5031.8	4930.2	4086.5
47.5°	4958.1	4937.8	5039.5	5260.5	5374.9	5407.9	5512.1	5537.6	5380.0	5278.3	4360.9
50°	4317.7	4330.4	4660.8	4978.5	5202.1	5415.6	5654.5	5832.3	5738.3	5641.7	4650.6
52.5°	3512.1	3542.6	3921.3	4620.1	4973.4	5339.3	5738.3	6127.1	6104.3	6012.8	4940.3
55°	2815.8	2864.1	3265.6	4022.9	4681.1	5169.1	5773.9	6396.5	6482.9	6399.1	5225.0
57.5°	2152.5	2203.3	2541.3	3319.0	4307.6	4892.1	5748.5	6632.9	6836.2	6782.8	5486.7
60°	1621.4	1672.2	1888.2	2691.3	3839.9	4582.0	5621.4	6787.9	7153.8	7097.9	5677.3
62.5°	1161.4	1202.0	1362.2	2094.1	3270.7	4213.5	5308.8	6790.4	7334.3	7288.5	5768.8
65°	836.1	836.1	965.7	1494.3	2737.0	3771.3	4836.1	6477.8	7296.2	7283.4	5705.3
67.5°	602.3	607.4	711.6	1044.5	2183.0	3235.1	4223.7	5921.3	7001.4	7064.9	5476.6
70°	426.9	439.6	487.9	729.4	1649.3	2554.0	3568.0	5191.9	6470.2	6582.0	5034.4
72.5°	330.4	338.0	371.0	508.3	1204.6	1898.4	2843.7	4378.7	5761.2	5888.3	4432.1
75°	254.1	261.8	287.2	373.6	864.1	1331.7	2020.4	3397.8	4645.5	4871.7	3560.4
77.5°	185.5	195.7	213.5	271.9	503.2	846.3	1224.9	1911.1	2564.2	2670.9	1865.3
80°	86.4	99.1	124.5	175.4	271.9	399.0	434.6	737.0	1232.5	1288.5	1011.4
82.5°	48.3	61.0	71.2	106.7	137.2	142.3	147.4	185.5	465.1	513.3	424.4
85°	22.9	30.5	33.0	45.7	45.7	40.7	48.3	35.6	76.2	91.5	88.9
87.5°	0.0	2.5	5.1	12.7	10.2	7.6	7.6	7.6	7.6	10.2	7.6
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°	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4	2208.4
2.5°	2223.7	2190.6	2114.4	2048.3	2005.1	1967.0	1916.2	1893.3	1852.6	1860.3	1837.4
5°	2236.4	2175.4	2040.7	1916.2	1824.7	1743.4	1654.4	1603.6	1547.7	1542.6	1524.8
7.5°	2244.0	2150.0	1956.8	1781.5	1641.7	1517.2	1397.7	1331.7	1263.0	1247.8	1232.5
10°	2236.4	2111.8	1870.4	1641.7	1456.2	1301.2	1166.5	1082.6	1011.4	993.7	978.4
12.5°	2244.0	2091.5	1789.1	1512.1	1291.0	1115.6	963.2	876.8	810.7	792.9	782.7
15°	2261.8	2078.8	1720.5	1395.2	1143.6	947.9	798.0	724.3	670.9	653.1	648.0
17.5°	2277.0	2066.1	1646.8	1280.8	996.2	800.5	670.9	609.9	564.2	546.4	541.3
20°	2297.4	2048.3	1573.1	1171.6	866.6	683.6	569.3	515.9	480.3	467.6	465.1
22.5°	2315.1	2035.6	1504.5	1062.3	747.2	589.6	493.0	449.8	424.4	411.7	411.7
25°	2360.9	2040.7	1446.0	960.6	658.2	515.9	434.6	401.5	381.2	373.6	373.6
27.5°	2414.3	2061.0	1400.3	874.2	582.0	460.0	393.9	366.0	355.8	345.6	348.2
30°	2490.5	2101.7	1369.8	803.1	526.1	416.8	360.9	340.5	330.4	327.8	327.8
32.5°	2587.1	2167.8	1367.2	757.3	485.4	383.7	338.0	320.2	315.1	312.6	312.6
35°	2701.4	2226.2	1352.0	737.0	460.0	360.9	320.2	307.5	305.0	305.0	305.0
37.5°	2838.7	2322.8	1341.8	709.0	447.3	348.2	307.5	297.3	297.3	297.3	297.3
40°	2981.0	2401.6	1326.6	683.6	442.2	340.5	299.9	287.2	287.2	287.2	287.2
42.5°	3151.2	2515.9	1321.5	670.9	434.6	335.5	289.7	274.5	277.0	277.0	279.5
45°	3357.1	2645.5	1318.9	658.2	432.0	330.4	279.5	261.8	264.3	261.8	261.8
47.5°	3565.5	2795.5	1326.6	650.6	429.5	325.3	271.9	249.1	249.1	246.5	246.5
50°	3784.0	2932.7	1331.7	643.0	424.4	315.1	259.2	238.9	233.8	228.7	231.3
52.5°	3989.9	3059.8	1334.2	630.2	409.2	299.9	249.1	226.2	218.6	210.9	213.5
55°	4195.7	3181.7	1339.3	615.0	388.8	284.6	236.3	213.5	203.3	193.1	193.1
57.5°	4381.2	3288.5	1326.6	576.9	366.0	269.4	223.6	198.2	183.0	172.8	172.8
60°	4508.3	3364.7	1288.5	521.0	335.5	251.6	210.9	183.0	165.2	157.6	157.6
62.5°	4569.3	3377.4	1219.8	429.5	297.3	233.8	195.7	167.7	152.5	147.4	147.4
65°	4510.9	3321.5	1113.1	322.7	256.7	213.5	180.4	155.0	139.8	127.1	127.1
67.5°	4307.6	3164.0	965.7	244.0	218.6	193.1	165.2	142.3	124.5	114.4	114.4
70°	3898.4	2836.1	747.2	195.7	185.5	167.7	149.9	127.1	111.8	99.1	99.1
72.5°	3362.2	2404.1	526.1	157.6	157.6	142.3	127.1	111.8	96.6	86.4	86.4
75°	2579.4	1778.9	353.2	127.1	129.6	119.4	104.2	91.5	81.3	73.7	73.7
77.5°	1407.9	879.3	216.0	94.0	96.6	91.5	81.3	73.7	68.6	61.0	61.0
80°	683.6	386.3	124.5	66.1	68.6	66.1	61.0	53.4	53.4	48.3	48.3
82.5°	287.2	144.9	66.1	45.7	45.7	40.7	38.1	38.1	38.1	35.6	35.6
85°	71.2	28.0	28.0	25.4	25.4	25.4	22.9	22.9	22.9	17.8	20.3
87.5°	10.2	10.2	10.2	10.2	10.2	10.2	7.6	2.5	0.0	0.0	0.0
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)