

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: P836164

Luminaire Tested: **ARCH3-150-722-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836164
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: ARCH3-150-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1170mA 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: 12827 lumens
Efficiency: N/A
Efficacy: 85.1 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): 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

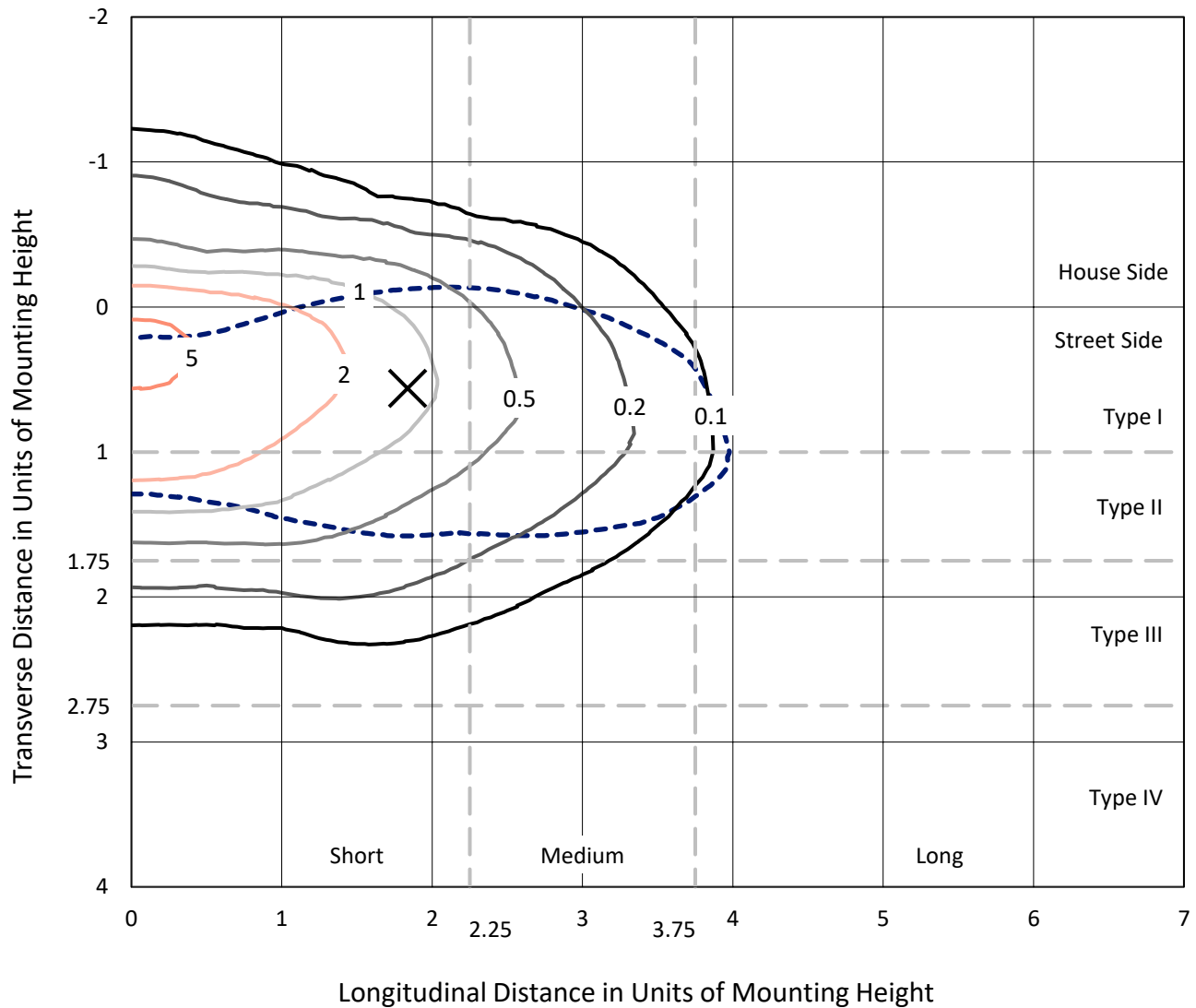


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Iso-Footcandle Lines of Horizontal Illumination

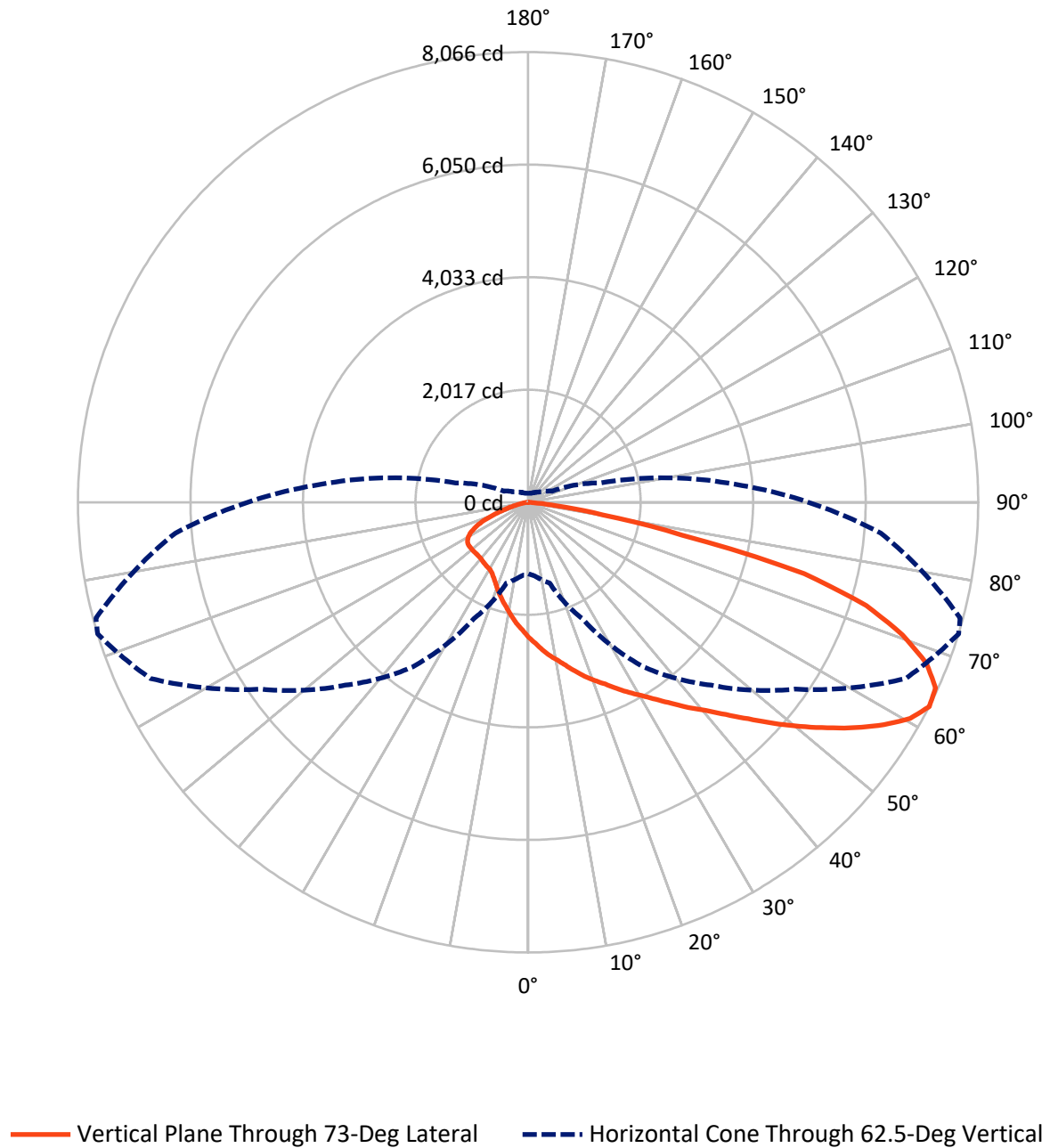
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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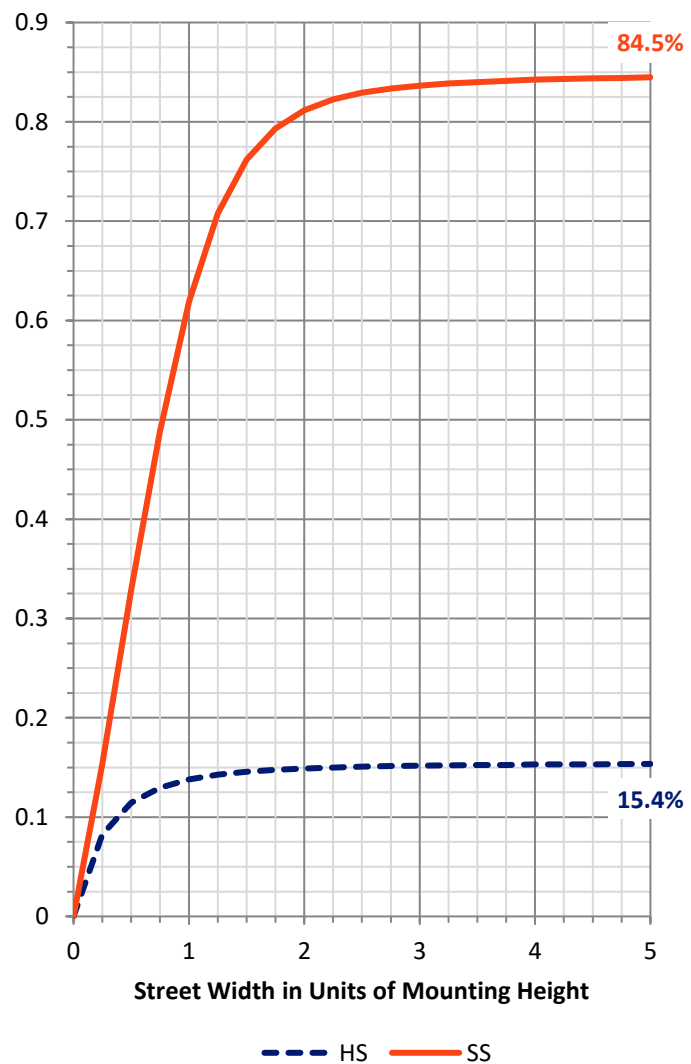
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1988.4	0.0	1988.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	10838.6	0.0	10838.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	12827.0	0.0	12827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.6	1.8
10°-20°	708.0	5.5
20°-30°	1178.5	9.2
30°-40°	1778.2	13.9
40°-50°	2485.5	19.4
50°-60°	2745.4	21.4
60°-70°	2391.6	18.6
70°-80°	1208.1	9.4
80°-90°	97.0	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°	12827.0	100.0
0°-180°	12827.0	100.0

Coefficient of Utilization



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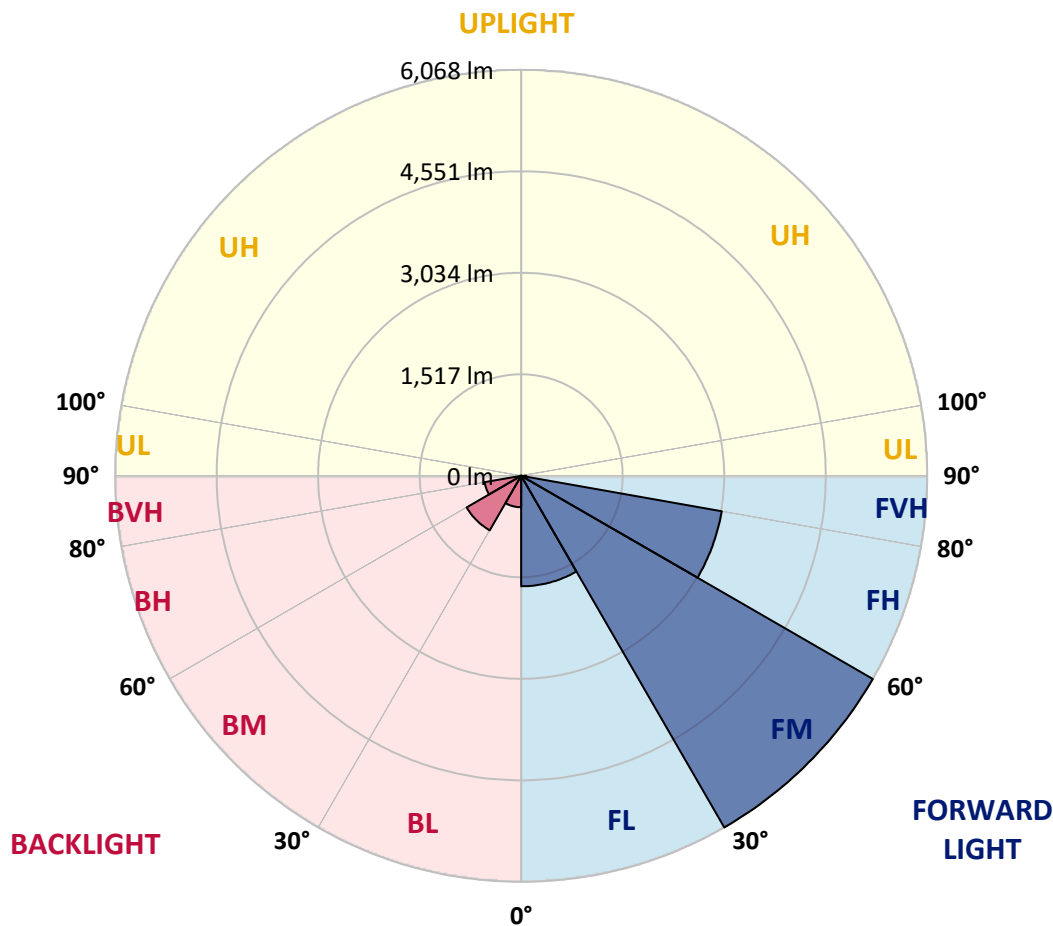
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1651.2	12.9			
FM	(30°-60°)	6067.6	47.3			
FH	(60°-80°)	3044.7	23.7			G2/5000
FVH	(80°-90°)	75.0	0.6			G1/100
BL	(0°-30°)	470.0	3.7	B1/500		
BM	(30°-60°)	941.5	7.3	B1/1000		
BH	(60°-80°)	555.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	21.9	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°	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8
2.5°	2764.2	2795.0	2778.2	2789.4	2733.5	2697.1	2655.2	2574.2	2529.4	2523.8	2470.7
5°	3169.5	3203.0	3175.1	3166.7	3068.9	2985.0	2890.0	2747.4	2652.4	2635.6	2518.3
7.5°	3574.8	3605.5	3572.0	3546.8	3415.4	3267.3	3127.6	2917.9	2769.8	2741.9	2557.4
10°	3859.8	3887.8	3862.6	3837.5	3700.5	3549.6	3351.2	3077.3	2876.0	2831.3	2582.5
12.5°	4075.1	4091.8	4080.6	4058.3	3929.7	3767.6	3577.5	3256.1	2996.2	2940.3	2621.7
15°	4251.1	4279.1	4265.1	4248.3	4125.4	3963.3	3781.6	3443.4	3135.9	3066.1	2680.4
17.5°	4368.5	4388.1	4390.9	4390.9	4281.9	4122.6	3946.5	3613.9	3275.7	3186.3	2736.3
20°	4421.6	4444.0	4458.0	4480.3	4390.9	4253.9	4075.1	3759.2	3407.1	3306.4	2789.4
22.5°	4446.8	4466.3	4502.7	4553.0	4480.3	4365.7	4200.8	3893.4	3538.4	3432.2	2850.9
25°	4466.3	4491.5	4544.6	4639.6	4589.3	4491.5	4349.0	4047.1	3694.9	3585.9	2940.3
27.5°	4519.4	4550.2	4600.5	4715.1	4653.6	4606.1	4505.5	4212.0	3859.8	3748.0	3049.3
30°	4703.9	4729.1	4726.3	4798.9	4723.5	4709.5	4639.6	4371.3	4019.2	3907.4	3177.9
32.5°	5039.3	5064.5	5003.0	4975.0	4810.1	4812.9	4785.0	4541.8	4209.2	4094.6	3326.0
35°	5399.9	5427.8	5346.8	5299.2	5022.5	4941.5	4955.5	4754.2	4421.6	4307.0	3510.5
37.5°	5721.3	5754.8	5684.9	5615.1	5335.6	5148.3	5145.5	4991.8	4664.8	4547.4	3714.5
40°	5897.4	5936.5	5978.4	5939.3	5645.8	5439.0	5349.6	5235.0	4905.2	4785.0	3935.3
42.5°	5981.2	6090.2	6165.7	6140.5	5900.2	5690.5	5584.3	5489.3	5198.6	5081.2	4198.0
45°	5746.4	5749.2	5908.5	6045.5	6000.8	5861.0	5841.5	5774.4	5534.0	5422.2	4494.3
47.5°	5453.0	5430.6	5542.4	5785.6	5911.3	5947.7	6062.3	6090.2	5916.9	5805.1	4796.2
50°	4748.6	4762.6	5126.0	5475.3	5721.3	5956.1	6218.8	6414.4	6311.0	6204.8	5114.8
52.5°	3862.6	3896.2	4312.6	5081.2	5469.7	5872.2	6311.0	6738.6	6713.5	6612.9	5433.4
55°	3096.8	3149.9	3591.5	4424.4	5148.3	5684.9	6350.1	7034.9	7129.9	7037.7	5746.4
57.5°	2367.3	2423.2	2795.0	3650.2	4737.5	5380.3	6322.2	7294.8	7518.4	7459.7	6034.3
60°	1783.2	1839.1	2076.7	2959.9	4223.2	5039.3	6182.4	7465.3	7867.8	7806.3	6243.9
62.5°	1277.3	1322.0	1498.1	2303.0	3597.1	4634.0	5838.7	7468.1	8066.3	8015.9	6344.6
65°	919.5	919.5	1062.1	1643.4	3010.2	4147.7	5318.8	7124.4	8024.3	8010.4	6274.7
67.5°	662.4	668.0	782.6	1148.7	2400.9	3558.0	4645.2	6512.3	7700.1	7770.0	6023.1
70°	469.6	483.5	536.6	802.2	1813.9	2808.9	3924.1	5710.1	7116.0	7238.9	5536.8
72.5°	363.3	371.7	408.1	559.0	1324.8	2087.8	3127.6	4815.7	6336.2	6475.9	4874.4
75°	279.5	287.9	315.8	410.9	950.3	1464.6	2222.0	3736.9	5109.2	5357.9	3915.7
77.5°	204.0	215.2	234.8	299.1	553.4	930.7	1347.2	2101.8	2820.1	2937.5	2051.5
80°	95.0	109.0	137.0	192.9	299.1	438.8	477.9	810.5	1355.6	1417.0	1112.4
82.5°	53.1	67.1	78.3	117.4	150.9	156.5	162.1	204.0	511.5	564.6	466.8
85°	25.2	33.5	36.3	50.3	50.3	44.7	53.1	39.1	83.8	100.6	97.8
87.5°	0.0	2.8	5.6	14.0	11.2	8.4	8.4	8.4	8.4	11.2	8.4
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°	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8
2.5°	2445.6	2409.3	2325.4	2252.7	2205.2	2163.3	2107.4	2082.2	2037.5	2045.9	2020.8
5°	2459.6	2392.5	2244.4	2107.4	2006.8	1917.3	1819.5	1763.6	1702.1	1696.5	1677.0
7.5°	2467.9	2364.5	2152.1	1959.3	1805.5	1668.6	1537.2	1464.6	1389.1	1372.3	1355.6
10°	2459.6	2322.6	2057.1	1805.5	1601.5	1431.0	1282.9	1190.7	1112.4	1092.8	1076.1
12.5°	2467.9	2300.3	1967.7	1663.0	1419.8	1227.0	1059.3	964.3	891.6	872.0	860.8
15°	2487.5	2286.3	1892.2	1534.4	1257.7	1042.5	877.6	796.6	737.9	718.3	712.7
17.5°	2504.3	2272.3	1811.1	1408.7	1095.6	880.4	737.9	670.8	620.5	600.9	595.3
20°	2526.6	2252.7	1730.1	1288.5	953.1	751.8	626.1	567.4	528.2	514.3	511.5
22.5°	2546.2	2238.8	1654.6	1168.3	821.7	648.4	542.2	494.7	466.8	452.8	452.8
25°	2596.5	2244.4	1590.3	1056.5	723.9	567.4	477.9	441.6	419.2	410.9	410.9
27.5°	2655.2	2266.7	1540.0	961.5	640.0	505.9	433.2	402.5	391.3	380.1	382.9
30°	2739.1	2311.4	1506.5	883.2	578.6	458.4	396.9	374.5	363.3	360.5	360.5
32.5°	2845.3	2384.1	1503.7	832.9	533.8	422.0	371.7	352.2	346.6	343.8	343.8
35°	2971.0	2448.4	1486.9	810.5	505.9	396.9	352.2	338.2	335.4	335.4	335.4
37.5°	3122.0	2554.6	1475.7	779.8	491.9	382.9	338.2	327.0	327.0	327.0	327.0
40°	3278.5	2641.2	1459.0	751.8	486.3	374.5	329.8	315.8	315.8	315.8	315.8
42.5°	3465.7	2767.0	1453.4	737.9	477.9	368.9	318.6	301.9	304.7	304.7	307.4
45°	3692.1	2909.6	1450.6	723.9	475.1	363.3	307.4	287.9	290.7	287.9	287.9
47.5°	3921.3	3074.5	1459.0	715.5	472.3	357.8	299.1	273.9	273.9	271.1	271.1
50°	4161.7	3225.4	1464.6	707.1	466.8	346.6	285.1	262.7	257.1	251.5	254.3
52.5°	4388.1	3365.1	1467.4	693.1	450.0	329.8	273.9	248.8	240.4	232.0	234.8
55°	4614.5	3499.3	1472.9	676.4	427.6	313.0	259.9	234.8	223.6	212.4	212.4
57.5°	4818.5	3616.7	1459.0	634.5	402.5	296.3	246.0	218.0	201.2	190.1	190.1
60°	4958.3	3700.5	1417.0	573.0	368.9	276.7	232.0	201.2	181.7	173.3	173.3
62.5°	5025.3	3714.5	1341.6	472.3	327.0	257.1	215.2	184.5	167.7	162.1	162.1
65°	4961.1	3653.0	1224.2	355.0	282.3	234.8	198.4	170.5	153.7	139.7	139.7
67.5°	4737.5	3479.7	1062.1	268.3	240.4	212.4	181.7	156.5	137.0	125.8	125.8
70°	4287.5	3119.2	821.7	215.2	204.0	184.5	164.9	139.7	123.0	109.0	109.0
72.5°	3697.7	2644.0	578.6	173.3	173.3	156.5	139.7	123.0	106.2	95.0	95.0
75°	2836.9	1956.5	388.5	139.7	142.5	131.4	114.6	100.6	89.4	81.1	81.1
77.5°	1548.4	967.1	237.6	103.4	106.2	100.6	89.4	81.1	75.5	67.1	67.1
80°	751.8	424.8	137.0	72.7	75.5	72.7	67.1	58.7	58.7	53.1	53.1
82.5°	315.8	159.3	72.7	50.3	50.3	44.7	41.9	41.9	41.9	39.1	39.1
85°	78.3	30.7	30.7	27.9	27.9	27.9	25.2	25.2	25.2	19.6	22.4
87.5°	11.2	11.2	11.2	11.2	11.2	11.2	8.4	2.8	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)