

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: P1210555

Luminaire Tested: **ARCH3-160-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20833 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 161
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

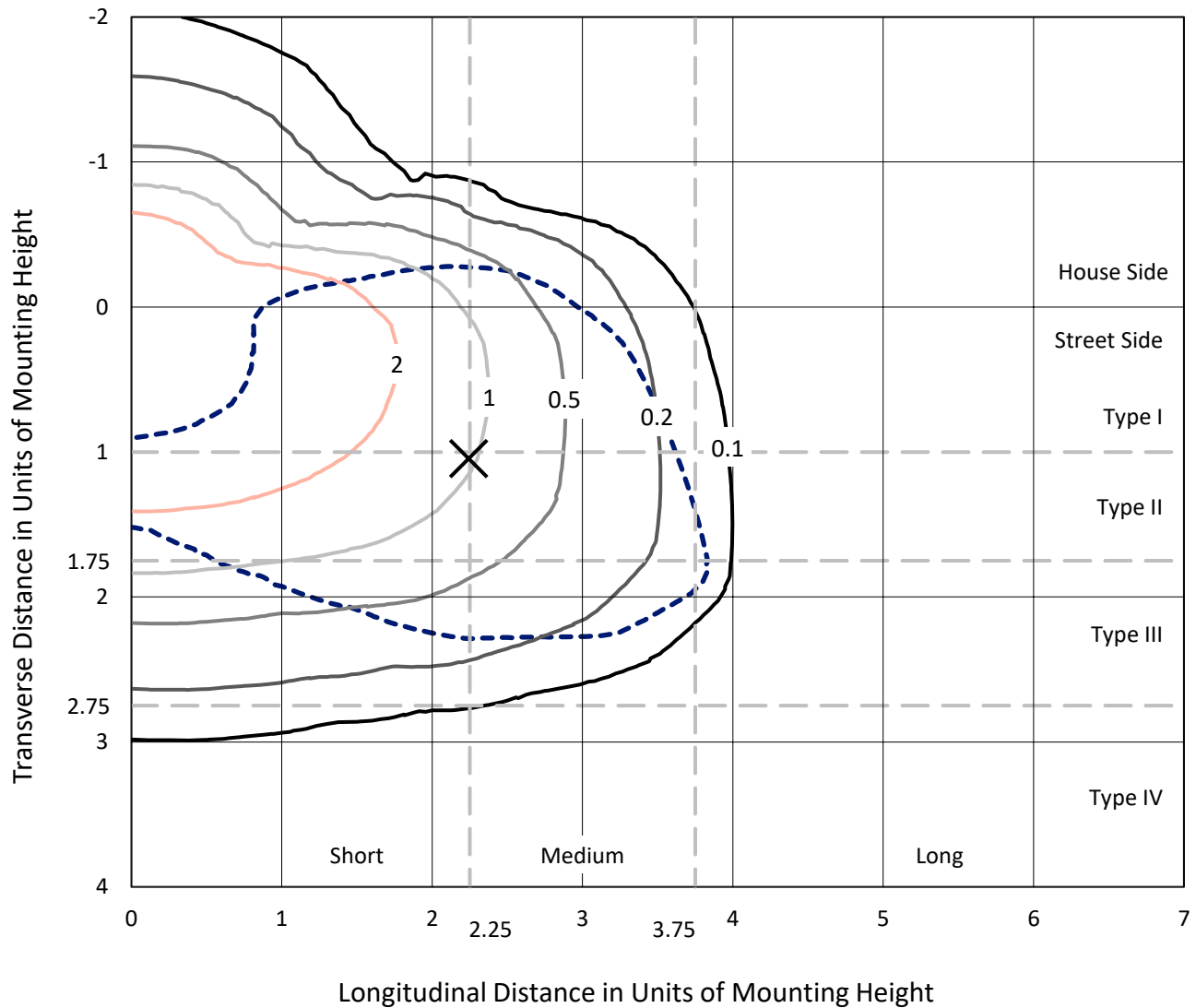


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

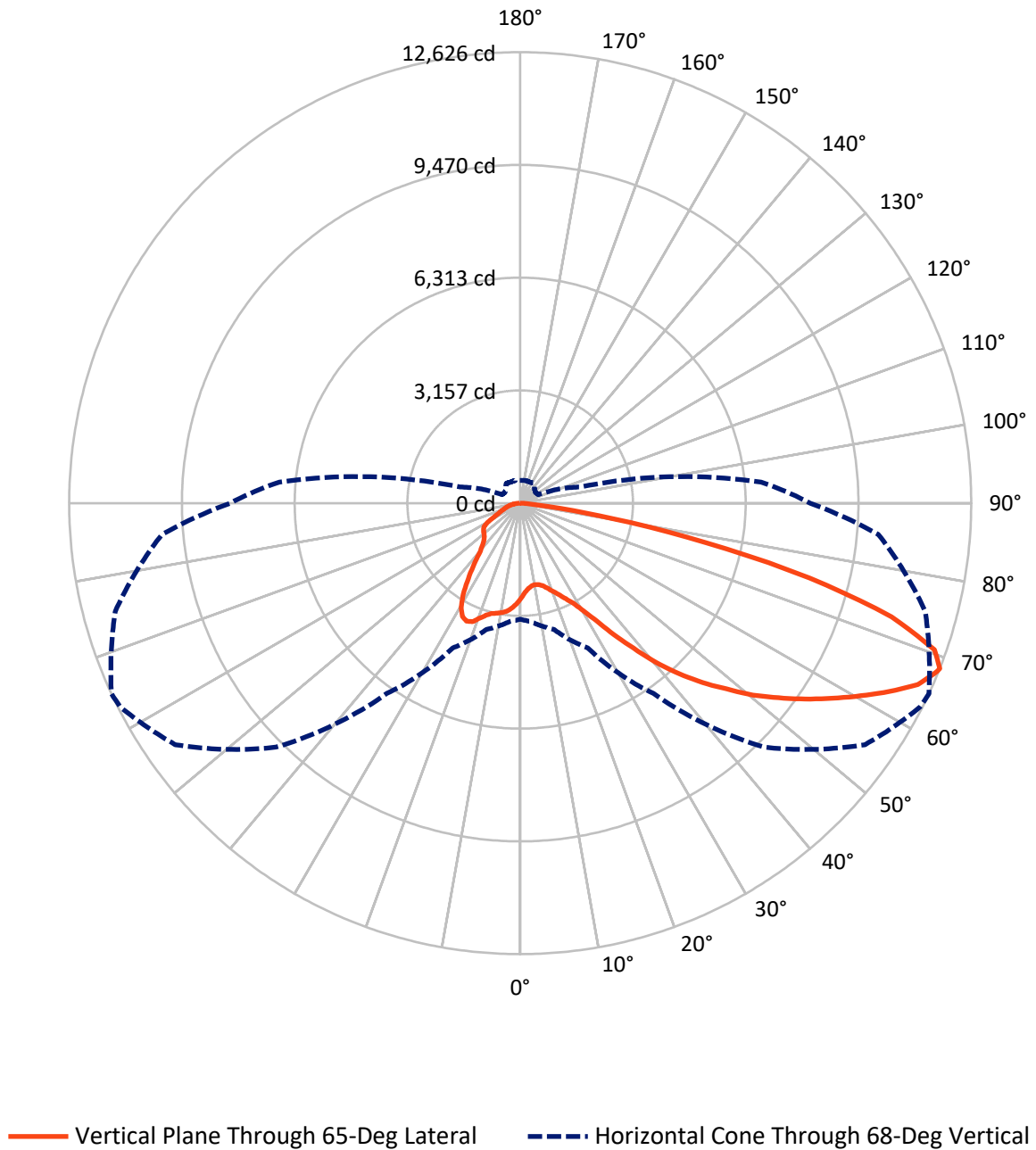


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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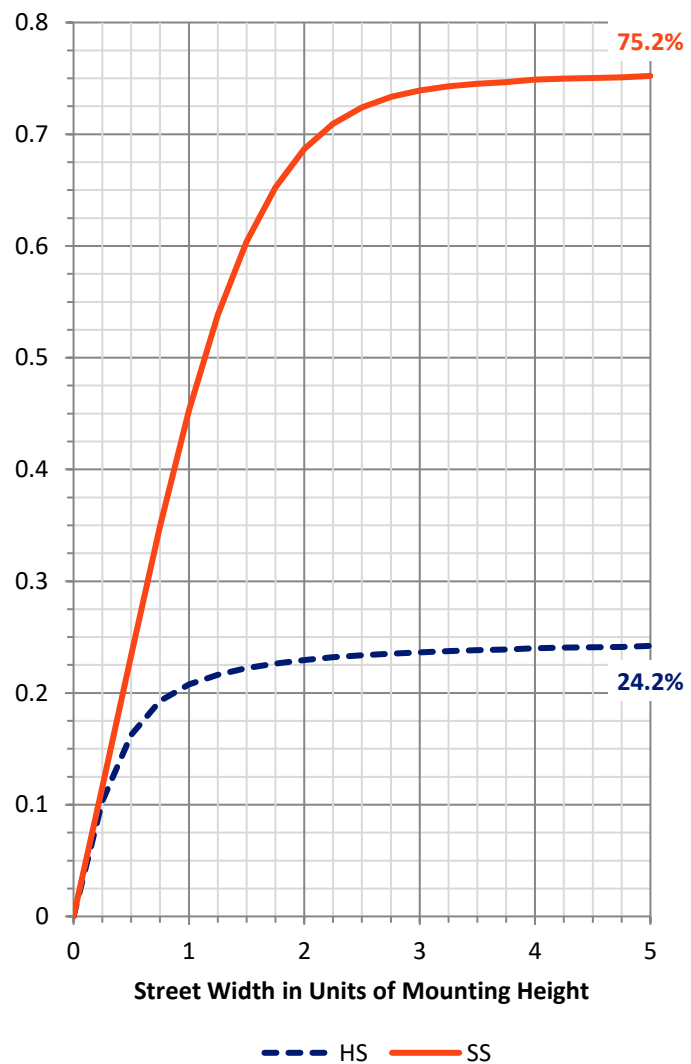
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5107.6	0.0	5107.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	15725.4	0.0	15725.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	20833.0	0.0	20833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.4	1.2
10°-20°	828.4	4.0
20°-30°	1499.4	7.2
30°-40°	2358.6	11.3
40°-50°	3512.9	16.9
50°-60°	4608.3	22.1
60°-70°	5039.4	24.2
70°-80°	2493.7	12.0
80°-90°	237.9	1.1
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°	20833.0	100.0
0°-180°	20833.0	100.0

Coefficient of Utilization



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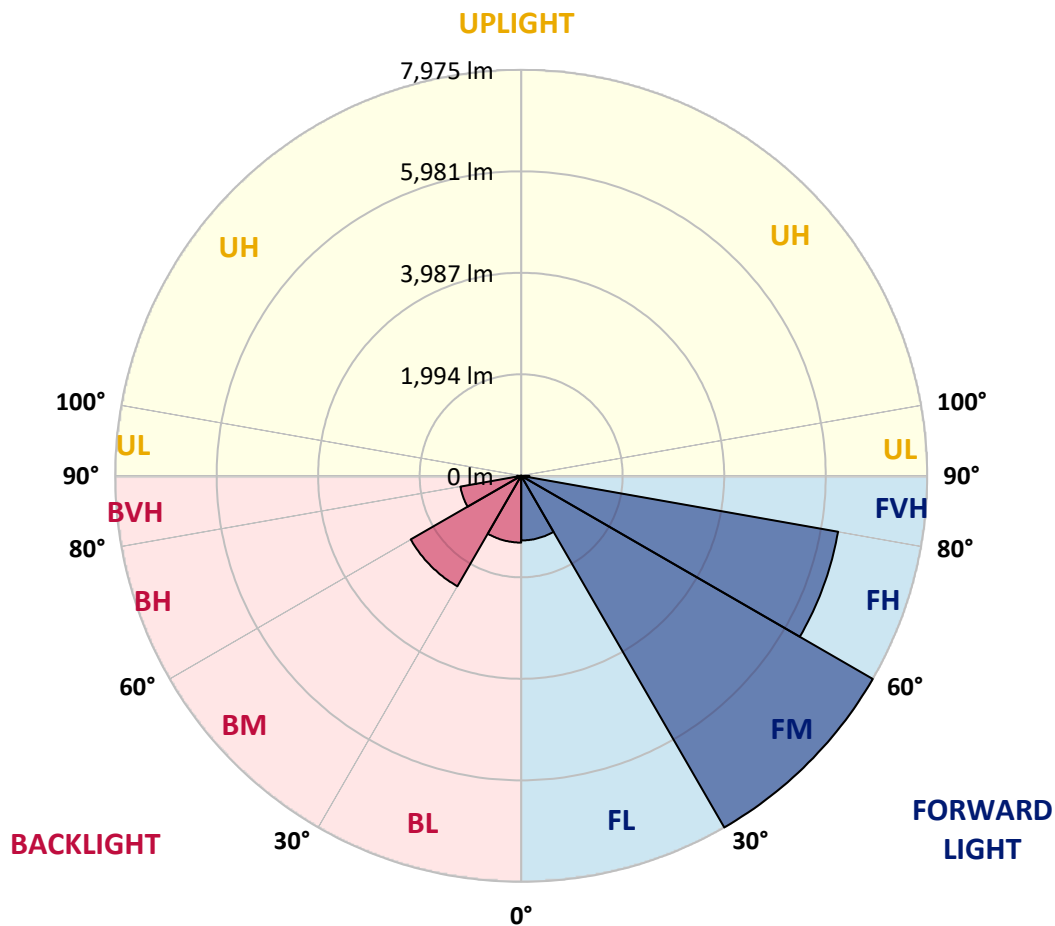
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1270.0	6.1			
FM	(30°-60°)	7974.6	38.3			
FH	(60°-80°)	6320.8	30.3			G3/7500
FVH	(80°-90°)	160.0	0.8			G2/225
BL	(0°-30°)	1312.2	6.3	B3/2500		
BM	(30°-60°)	2505.3	12.0	B3/5000		
BH	(60°-80°)	1212.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	77.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2
2.5°	2323.7	2318.3	2331.8	2345.2	2374.8	2409.7	2458.0	2498.3	2503.7	2578.9	2638.0
5°	2186.7	2178.7	2192.1	2208.2	2221.6	2264.6	2315.7	2374.8	2398.9	2509.1	2635.3
7.5°	2200.1	2197.5	2202.8	2197.5	2197.5	2216.3	2251.2	2310.3	2337.2	2468.8	2648.8
10°	2278.1	2283.4	2286.1	2270.0	2253.9	2245.8	2256.6	2296.9	2315.7	2471.5	2707.9
12.5°	2407.0	2415.1	2417.7	2388.2	2366.7	2331.8	2313.0	2329.1	2342.5	2498.3	2791.2
15°	2581.6	2587.0	2568.2	2549.4	2495.6	2452.7	2407.0	2393.6	2398.9	2554.7	2885.2
17.5°	2785.8	2777.7	2777.7	2732.1	2662.2	2595.0	2519.8	2509.1	2509.1	2646.1	3019.5
20°	3008.7	3016.8	2992.6	2930.8	2861.0	2756.2	2681.0	2632.7	2638.0	2750.9	3183.4
22.5°	3331.1	3344.5	3280.1	3191.4	3084.0	2963.1	2855.6	2777.7	2780.4	2887.9	3352.6
25°	3677.7	3683.0	3642.7	3524.5	3379.5	3207.5	3065.2	2965.8	2963.1	3041.0	3570.2
27.5°	4032.3	4056.4	3975.8	3863.0	3728.7	3513.8	3325.7	3191.4	3169.9	3274.7	3841.5
30°	4397.6	4427.2	4349.3	4239.1	4072.6	3889.9	3666.9	3511.1	3497.7	3637.4	4204.2
32.5°	4765.6	4773.7	4711.9	4620.6	4470.1	4298.2	4118.2	3946.3	3932.9	4161.2	4674.3
35°	5066.5	5090.7	5047.7	5026.2	4916.1	4757.6	4583.0	4483.6	4518.5	4811.3	5284.1
37.5°	5429.2	5453.4	5405.0	5399.6	5364.7	5227.7	5106.8	5114.9	5149.8	5547.4	5926.2
40°	5953.0	5979.9	5856.3	5802.6	5802.6	5668.3	5628.0	5818.7	5864.4	6272.7	6595.1
42.5°	6396.3	6439.3	6366.7	6331.8	6227.0	6133.0	6181.4	6450.0	6527.9	6965.8	7178.0
45°	6611.2	6643.4	6729.4	6831.5	6729.4	6565.5	6748.2	7051.8	7161.9	7605.1	7761.0
47.5°	6726.7	6756.2	6855.6	7129.7	7199.5	7062.5	7320.4	7699.2	7774.4	8239.1	8317.0
50°	6742.8	6836.8	6965.8	7239.8	7559.5	7578.3	7895.3	8357.3	8446.0	8862.4	8806.0
52.5°	6611.2	6648.8	6914.7	7376.8	7731.4	8053.8	8521.2	8988.6	9053.1	9448.0	9238.5
55°	6396.3	6450.0	6716.0	7344.6	7898.0	8505.1	9157.9	9609.2	9681.7	10017.5	9638.7
57.5°	6202.9	6229.7	6514.5	7250.5	8064.5	8956.4	9724.7	10256.6	10305.0	10517.2	9934.2
60°	5987.9	6017.5	6302.3	7049.1	8188.1	9297.6	10315.7	10909.4	10952.4	11043.7	10278.1
62.5°	5431.9	5509.8	5867.1	6716.0	8155.9	9687.1	10947.0	11554.1	11607.9	11508.5	10549.4
65°	4411.0	4521.2	4959.1	5961.1	7855.0	9939.6	11462.8	12147.8	12239.2	11857.7	10622.0
67.5°	3425.1	3503.0	3855.0	4730.7	6799.2	9813.4	11795.9	12556.1	12583.0	11801.3	10219.0
68°	3247.8	3325.7	3661.5	4472.8	6506.4	9662.9	11787.8	12566.9	12626.0	11739.5	10063.2
70°	2484.9	2573.6	2893.2	3543.3	5243.8	8706.6	11296.2	12309.0	12300.9	10992.7	9096.1
72.5°	1552.7	1603.8	1824.1	2235.1	3468.1	6624.6	9587.7	10855.7	10877.2	8961.8	6976.5
75°	985.9	985.9	975.2	1082.6	1778.4	3774.4	7127.0	8357.3	8373.5	6275.4	4397.6
77.5°	857.0	832.8	717.3	607.1	709.2	1466.8	4217.6	5396.9	5308.3	3379.5	2087.3
80°	722.6	682.3	588.3	488.9	456.7	459.4	1619.9	2740.1	2621.9	1216.9	693.1
82.5°	521.2	486.2	443.3	384.2	351.9	274.0	338.5	792.5	773.7	351.9	225.7
85°	282.1	255.2	249.8	252.5	212.2	169.2	142.4	174.6	174.6	153.1	128.9
87.5°	99.4	72.5	86.0	96.7	83.3	69.8	56.4	67.2	69.8	67.2	61.8
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°	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2	2662.2
2.5°	2672.9	2699.8	2764.3	2820.7	2861.0	2895.9	2914.7	2922.8	2941.6	2944.3	2938.9
5°	2694.4	2764.3	2861.0	2944.3	2989.9	3008.7	3014.1	3016.8	3008.7	3014.1	3008.7
7.5°	2750.9	2839.5	2976.5	3049.0	3057.1	3027.6	3030.2	3019.5	3030.2	3041.0	3041.0
10°	2836.8	2949.6	3078.6	3105.5	3070.5	3054.4	3086.7	3151.1	3172.6	3202.2	3202.2
12.5°	2949.6	3084.0	3175.3	3151.1	3118.9	3172.6	3266.6	3331.1	3352.6	3363.3	3355.3
15°	3078.6	3223.7	3269.3	3188.7	3247.8	3363.3	3395.6	3358.0	3304.2	3280.1	3293.5
17.5°	3242.5	3363.3	3336.5	3282.8	3417.1	3433.2	3328.4	3207.5	3121.6	3089.3	3110.8
20°	3414.4	3519.2	3395.6	3419.8	3503.0	3331.1	3132.3	2976.5	2901.3	2887.9	2909.4
22.5°	3597.1	3664.2	3454.7	3578.3	3454.7	3105.5	2866.4	2785.8	2767.0	2788.5	2807.3
25°	3803.9	3795.9	3556.8	3626.6	3274.7	2828.8	2686.4	2681.0	2681.0	2694.4	2721.3
27.5°	4037.6	3911.4	3658.9	3562.1	2963.1	2600.4	2573.6	2576.2	2568.2	2570.9	2584.3
30°	4309.0	4067.2	3771.7	3349.9	2613.8	2428.5	2417.7	2409.7	2390.9	2385.5	2390.9
32.5°	4650.1	4231.1	3887.2	3000.7	2307.6	2251.2	2245.8	2202.8	2157.2	2151.8	2170.6
35°	5082.6	4529.2	3946.3	2562.8	2055.1	2052.4	2033.6	1966.4	1907.3	1907.3	1893.9
37.5°	5576.9	4913.4	3970.5	2135.7	1845.5	1859.0	1805.2	1719.3	1673.6	1646.8	1654.8
40°	6082.0	5351.3	3967.8	1762.3	1662.9	1665.6	1625.3	1520.5	1407.7	1340.5	1356.6
42.5°	6568.2	5748.9	3897.9	1563.5	1515.1	1507.1	1474.8	1332.4	1238.4	1184.7	1187.4
45°	6957.7	6159.9	3790.5	1445.3	1380.8	1394.2	1321.7	1235.7	1149.8	1101.4	1098.7
47.5°	7347.3	6471.5	3618.6	1372.7	1281.4	1257.2	1227.7	1168.6	1104.1	1050.4	1053.1
50°	7701.9	6737.4	3457.4	1324.4	1190.1	1128.3	1133.7	1098.7	1042.3	994.0	991.3
52.5°	7951.7	6912.1	3368.7	1297.5	1079.9	1012.8	1031.6	1012.8	959.0	924.1	921.4
55°	8201.5	7046.4	3398.3	1262.6	959.0	905.3	937.5	932.2	902.6	891.9	894.6
57.5°	8403.0	7148.5	3503.0	1198.1	843.5	811.3	865.0	848.9	827.4	830.1	830.1
60°	8599.1	7280.1	3626.6	1050.4	744.1	746.8	797.9	768.3	754.9	779.1	781.7
62.5°	8803.3	7422.5	3524.5	835.5	658.2	677.0	736.1	711.9	717.3	752.2	762.9
65°	8779.1	7409.0	2871.7	685.0	582.9	620.6	709.2	701.1	703.8	717.3	722.6
67.5°	8284.8	6936.2	1974.5	582.9	529.2	574.9	687.7	655.5	658.2	650.1	652.8
68°	8118.2	6769.7	1740.8	566.8	518.5	564.1	677.0	647.4	650.1	642.0	639.4
70°	7210.2	5797.2	1101.4	499.7	480.9	534.6	623.2	612.5	609.8	604.4	604.4
72.5°	5496.3	4279.4	580.3	432.5	437.9	488.9	556.1	577.6	564.1	566.8	582.9
75°	3640.0	2573.6	403.0	370.7	384.2	419.1	494.3	537.3	523.8	531.9	523.8
77.5°	1926.1	1386.2	322.4	314.3	314.3	338.5	408.3	475.5	475.5	470.1	462.1
80°	631.3	488.9	257.9	247.1	252.5	266.0	327.7	389.5	397.6	386.8	381.5
82.5°	212.2	225.7	193.4	180.0	185.4	196.1	247.1	298.2	300.9	279.4	274.0
85°	131.6	150.4	120.9	118.2	118.2	120.9	150.4	163.9	150.4	134.3	139.7
87.5°	61.8	75.2	56.4	48.4	40.3	34.9	26.9	10.7	10.7	5.4	5.4
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)