

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: P1211717

Luminaire Tested: **ARCH4-90-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16297 lumens
Efficiency: N/A
Efficacy: 175.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 93.1
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

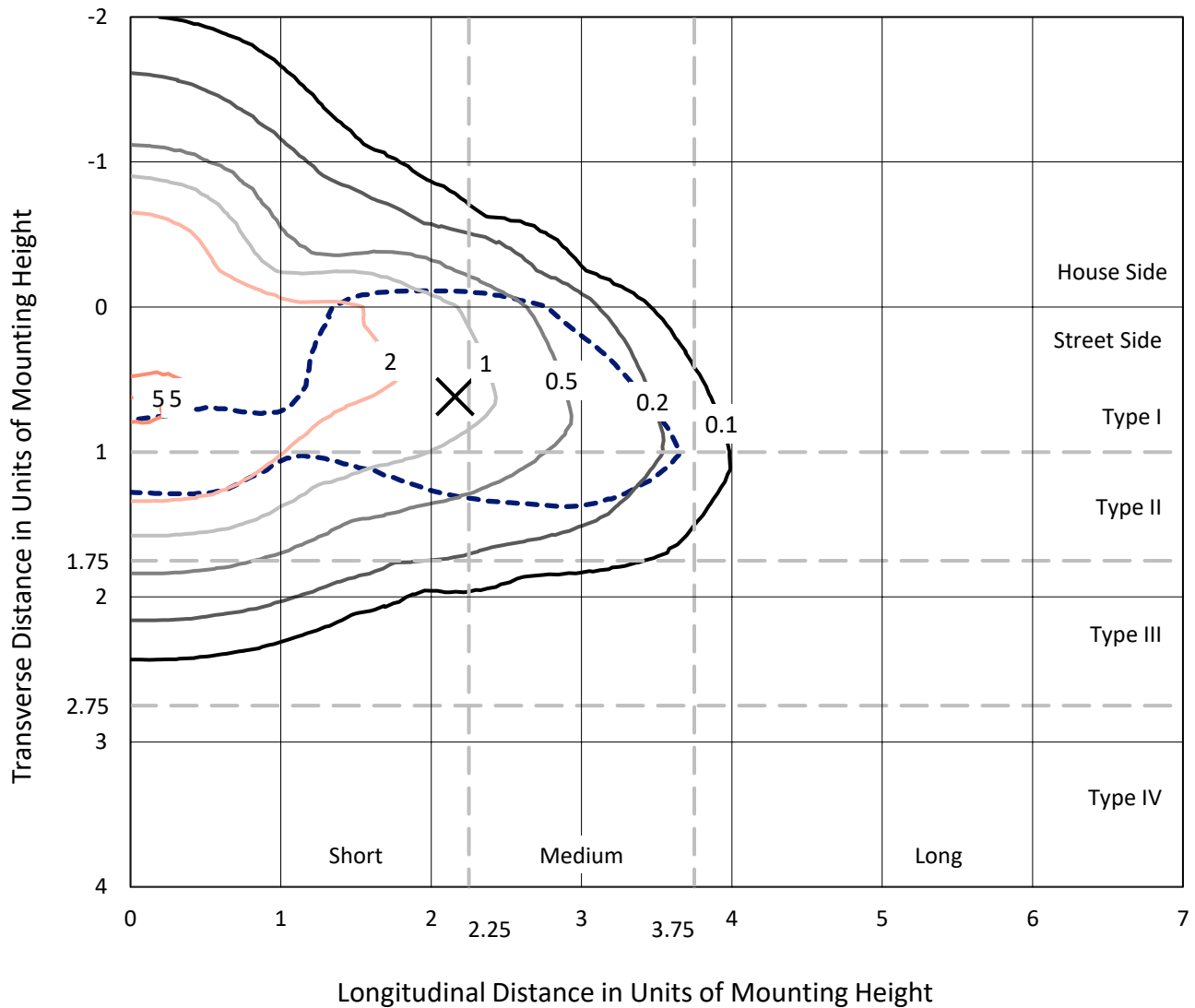


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Iso-Footcandle Lines of Horizontal Illumination

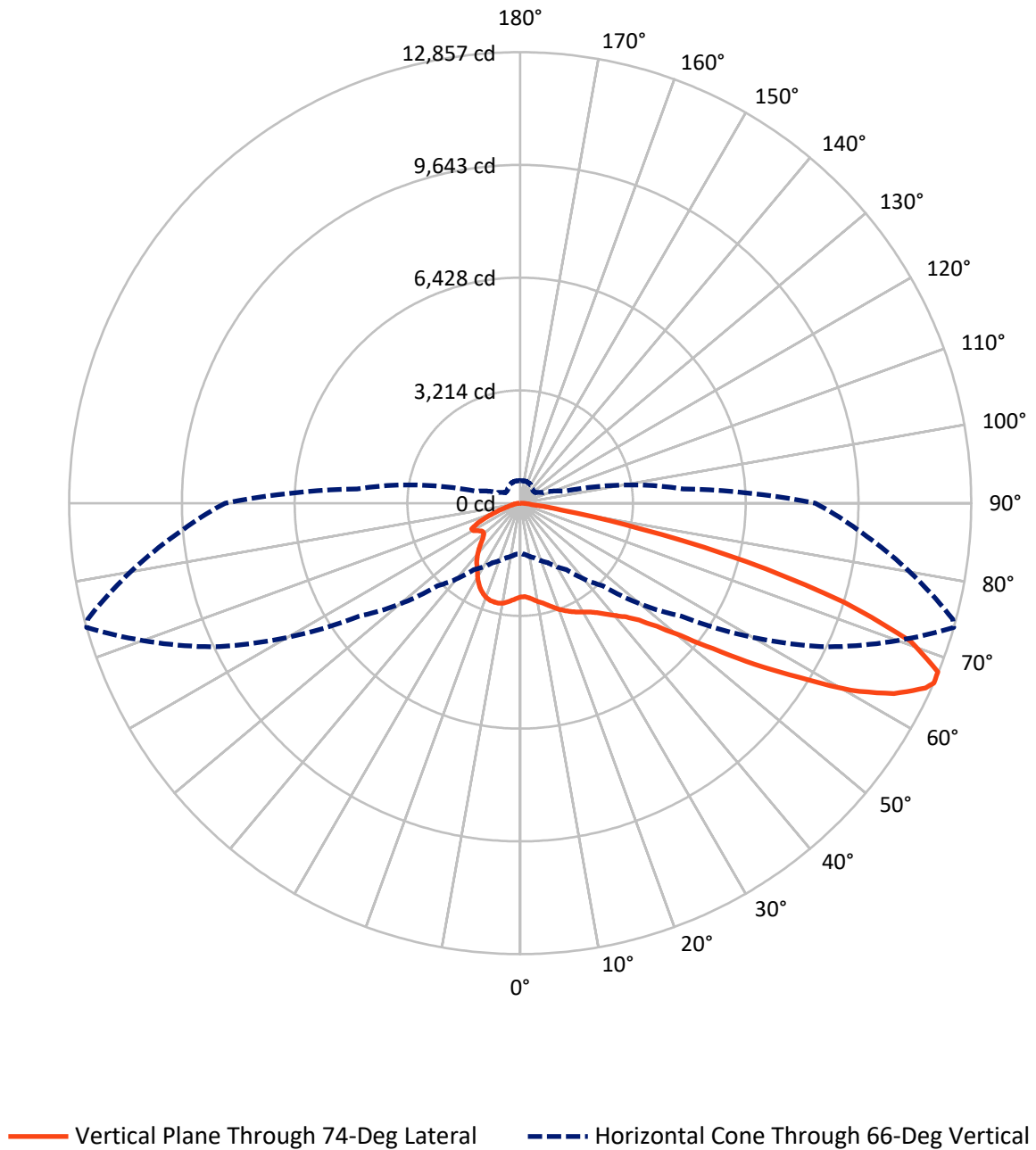
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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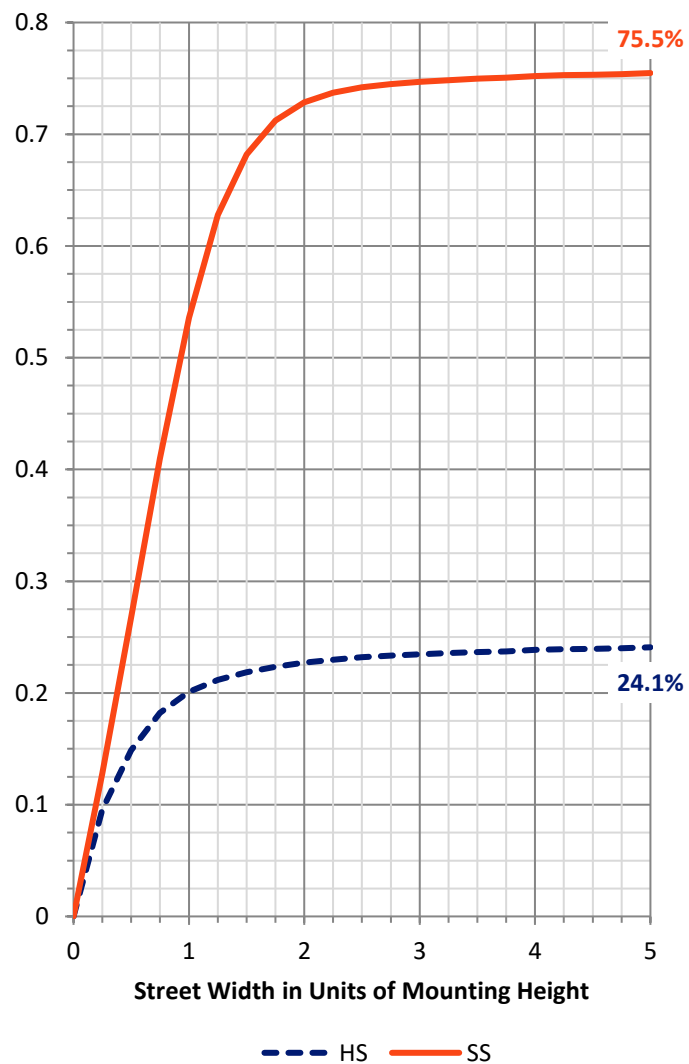
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3968.8	0.0	3968.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	12328.2	0.0	12328.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	16297.0	0.0	16297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.8	1.6
10°-20°	783.7	4.8
20°-30°	1470.6	9.0
30°-40°	2262.2	13.9
40°-50°	3042.9	18.7
50°-60°	3598.5	22.1
60°-70°	3328.8	20.4
70°-80°	1400.4	8.6
80°-90°	155.0	1.0
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°	16297.0	100.0
0°-180°	16297.0	100.0

Coefficient of Utilization



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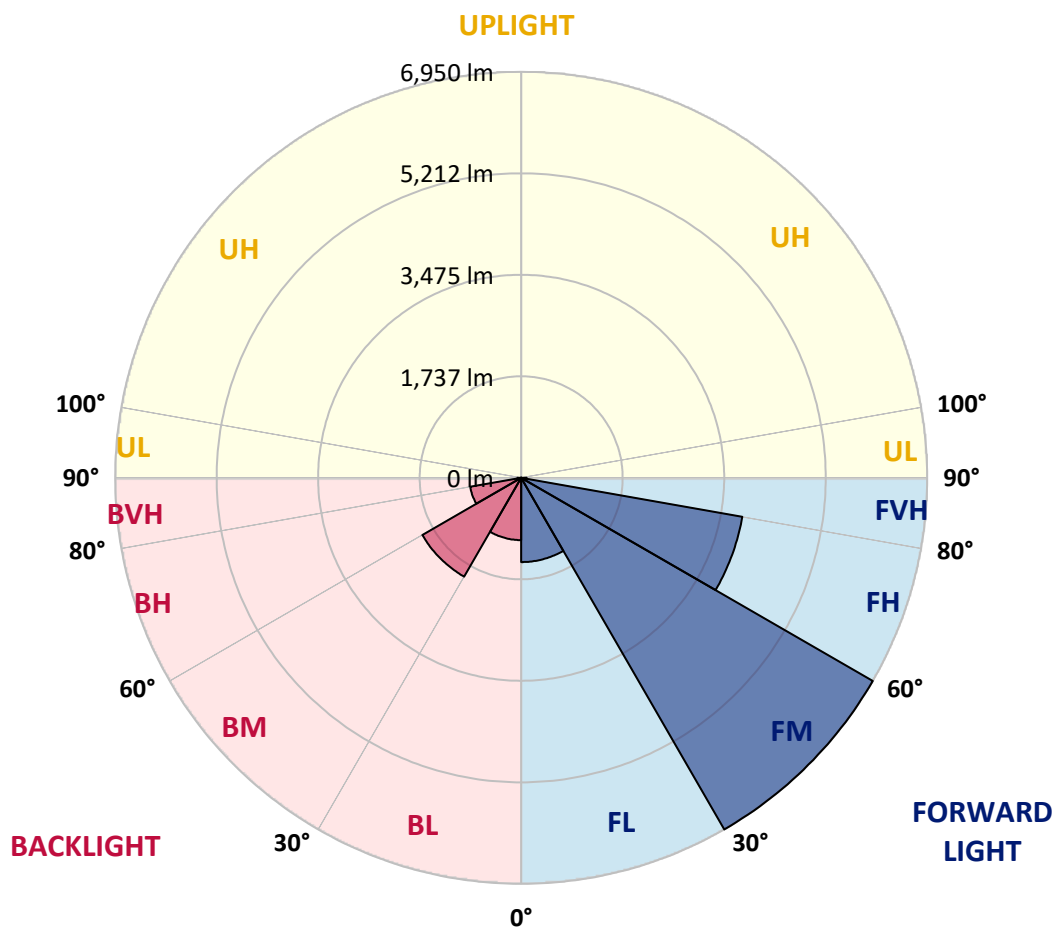
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1442.5	8.9			
FM	(30°-60°)	6949.8	42.6			
FH	(60°-80°)	3843.3	23.6			G2/5000
FVH	(80°-90°)	92.7	0.6			G1/100
BL	(0°-30°)	1066.7	6.5	B3/2500		
BM	(30°-60°)	1953.8	12.0	B2/2500		
BH	(60°-80°)	886.0	5.4	B2/1000		G2/1000
BVH	(80°-90°)	62.3	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6
2.5°	2663.2	2659.0	2667.4	2680.0	2686.3	2675.8	2671.6	2669.5	2669.5	2663.2	2673.7
5°	2537.4	2535.3	2554.2	2577.3	2621.3	2652.7	2694.7	2719.9	2711.5	2698.9	2707.3
7.5°	2373.8	2369.6	2392.7	2436.8	2497.6	2566.8	2669.5	2749.2	2780.7	2776.5	2774.4
10°	2436.8	2432.6	2430.5	2417.9	2438.8	2506.0	2612.9	2753.4	2860.4	2862.5	2864.5
12.5°	2654.8	2665.3	2654.8	2615.0	2568.9	2543.7	2606.6	2763.9	2927.5	2940.0	2992.5
15°	2952.6	2942.1	2921.2	2875.0	2803.7	2728.2	2682.1	2812.1	3023.9	3034.4	3149.7
17.5°	3214.8	3223.1	3210.6	3166.5	3082.6	2984.1	2843.6	2896.0	3126.7	3156.0	3317.5
20°	3499.9	3533.5	3516.7	3462.2	3393.0	3246.2	3070.1	3017.6	3239.9	3260.9	3491.6
22.5°	3829.2	3864.8	3833.4	3781.0	3724.3	3544.0	3317.5	3166.5	3334.3	3378.3	3659.3
25°	4223.4	4257.0	4227.6	4145.8	4074.5	3854.3	3583.8	3334.3	3426.6	3474.8	3795.6
27.5°	4535.9	4561.0	4588.3	4540.1	4431.0	4202.5	3860.6	3508.3	3518.8	3569.2	3921.5
30°	4814.8	4877.7	4900.8	4907.1	4814.8	4558.9	4143.7	3688.7	3598.5	3650.9	4047.3
32.5°	5196.4	5290.8	5253.1	5290.8	5236.3	4894.5	4437.3	3875.3	3701.3	3749.5	4166.8
35°	5754.3	5829.8	5731.2	5701.8	5613.8	5234.2	4720.4	4068.2	3837.6	3890.0	4280.0
37.5°	6354.0	6440.0	6297.4	6180.0	6012.2	5569.7	4963.7	4322.0	4026.3	4068.2	4384.9
40°	6878.3	6949.6	6825.8	6670.7	6389.7	5865.4	5173.4	4500.2	4215.0	4267.5	4506.5
42.5°	7362.7	7408.8	7270.4	7121.5	6746.2	6131.7	5399.9	4689.0	4435.2	4485.6	4605.1
45°	7853.4	7889.0	7696.1	7484.3	7043.9	6375.0	5649.4	4953.2	4758.2	4825.3	4764.5
47.5°	7941.5	7951.9	7918.4	7775.8	7278.8	6607.8	5957.7	5307.6	5251.0	5324.4	5039.2
50°	7331.2	7425.6	7633.2	7773.7	7373.2	6802.8	6265.9	5815.1	5930.4	6024.8	5609.6
52.5°	6146.4	6236.6	6716.8	7249.4	7146.7	6846.8	6597.3	6458.9	6888.8	7002.0	6385.5
55°	4896.6	4976.3	5483.7	6251.3	6414.8	6645.5	6951.7	7280.9	8111.3	8186.8	7236.9
57.5°	4032.6	4076.6	4439.4	5177.6	5439.7	6001.7	7142.5	8258.1	9354.9	9470.2	7977.1
60°	3307.0	3355.3	3625.8	4233.9	4582.0	5081.1	6991.5	9222.8	10839.6	10839.6	8927.1
62.5°	2489.2	2531.1	2782.8	3258.8	3843.9	4301.0	6509.2	9862.3	11959.4	11909.1	9614.9
65°	1709.1	1742.6	1925.1	2241.7	2768.1	3665.6	5850.7	9870.7	12701.7	12634.6	9908.5
66°	1434.4	1463.7	1618.9	1874.7	2317.2	3325.9	5618.0	9692.5	12856.9	12762.5	9784.8
67.5°	1132.4	1153.4	1256.1	1407.1	1698.6	2692.6	5251.0	9187.1	12842.2	12785.6	9470.2
70°	809.5	824.1	899.6	931.1	1004.5	1558.1	4171.0	8046.3	11812.6	11829.4	8233.0
72.5°	627.0	650.1	696.2	702.5	685.7	828.3	2531.1	6712.6	9663.1	9656.8	6110.8
75°	505.4	518.0	541.0	553.6	549.4	534.7	1071.6	5007.7	6651.8	6729.4	3422.4
77.5°	398.4	396.3	417.3	434.1	446.7	419.4	490.7	2935.8	3487.4	3388.8	1285.5
80°	293.6	293.6	322.9	329.2	348.1	352.3	327.1	1132.4	1197.4	1088.4	333.4
82.5°	192.9	192.9	224.4	228.6	247.4	274.7	237.0	339.7	331.3	314.6	151.0
85°	104.9	100.7	111.1	125.8	136.3	161.5	142.6	169.9	174.1	172.0	100.7
87.5°	21.0	18.9	29.4	33.6	37.7	50.3	46.1	69.2	96.5	94.4	44.0
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°	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6	2671.6
2.5°	2688.4	2686.3	2709.4	2736.6	2768.1	2787.0	2795.3	2810.0	2799.5	2803.7	2816.3
5°	2728.2	2734.5	2768.1	2803.7	2818.4	2807.9	2784.9	2776.5	2757.6	2753.4	2749.2
7.5°	2787.0	2797.4	2831.0	2839.4	2795.3	2721.9	2669.5	2640.2	2608.7	2600.3	2596.1
10°	2883.4	2889.7	2898.1	2812.1	2703.1	2604.5	2539.5	2512.2	2491.3	2474.5	2478.7
12.5°	3005.0	3000.9	2935.8	2757.6	2602.4	2501.8	2457.7	2440.9	2426.3	2415.8	2413.7
15°	3158.1	3128.8	2942.1	2682.1	2508.1	2424.2	2392.7	2386.4	2369.6	2369.6	2367.6
17.5°	3313.3	3237.8	2937.9	2602.4	2417.9	2371.7	2352.9	2348.7	2344.5	2342.4	2348.7
20°	3468.5	3334.3	2904.4	2503.9	2355.0	2327.7	2323.5	2325.6	2321.4	2327.7	2323.5
22.5°	3604.8	3397.2	2841.5	2399.0	2310.9	2308.8	2298.3	2302.5	2317.2	2319.3	2325.6
25°	3709.7	3420.3	2749.2	2302.5	2279.5	2275.3	2287.9	2304.6	2317.2	2319.3	2329.8
27.5°	3795.6	3407.7	2633.9	2227.0	2225.0	2248.0	2285.8	2292.1	2294.2	2294.2	2285.8
30°	3860.6	3380.4	2487.1	2143.2	2153.7	2210.3	2245.9	2245.9	2229.1	2225.0	2237.5
32.5°	3875.3	3344.8	2327.7	2057.2	2074.0	2141.1	2185.1	2170.4	2151.6	2151.6	2159.9
35°	3887.9	3296.5	2199.8	1939.8	1964.9	2044.6	2086.5	2057.2	2036.2	2029.9	2027.8
37.5°	3883.7	3277.7	2084.5	1790.9	1824.4	1902.0	1929.3	1902.0	1870.6	1855.9	1874.7
40°	3887.9	3265.1	1939.8	1627.3	1660.9	1707.0	1742.6	1721.7	1692.3	1654.6	1673.4
42.5°	3913.1	3281.9	1780.4	1467.9	1467.9	1493.1	1553.9	1539.2	1467.9	1453.2	1470.0
45°	4047.3	3372.0	1621.0	1308.5	1285.5	1302.3	1365.2	1302.3	1258.2	1258.2	1272.9
47.5°	4372.3	3539.8	1480.5	1168.0	1113.5	1147.1	1163.9	1105.1	1071.6	1063.2	1077.9
50°	5035.0	3875.3	1396.6	1052.7	985.6	1010.8	1000.3	998.2	964.6	968.8	977.2
52.5°	6041.6	4529.6	1371.5	996.1	912.2	918.5	908.0	912.2	905.9	926.9	933.2
55°	7138.3	5219.5	1402.9	1004.5	861.9	817.8	822.0	843.0	868.2	901.7	908.0
57.5°	7958.2	5565.5	1484.7	1061.1	799.0	731.9	742.3	782.2	830.4	857.7	872.4
60°	8568.5	5523.6	1604.2	1075.8	723.5	654.3	673.1	731.9	773.8	796.9	811.6
62.5°	8767.7	5261.5	1633.6	968.8	624.9	580.9	627.0	687.8	706.7	731.9	742.3
65°	8604.1	4890.3	1419.7	786.4	549.4	526.4	593.5	639.6	664.8	677.3	679.4
66°	8411.2	4668.0	1304.4	715.1	522.2	509.6	580.9	618.6	643.8	641.7	643.8
67.5°	7987.6	4202.5	1117.7	614.4	482.3	484.4	559.9	585.1	593.5	587.2	587.2
70°	6546.9	2958.9	801.1	465.5	423.6	453.0	503.3	509.6	528.5	520.1	520.1
72.5°	4036.8	1453.2	536.8	356.5	377.5	423.6	421.5	442.5	486.5	499.1	507.5
75°	1983.8	589.3	354.4	302.0	337.6	354.4	350.2	402.6	465.5	520.1	538.9
77.5°	752.8	293.6	247.4	264.2	272.6	266.3	278.9	364.9	465.5	564.1	583.0
80°	232.8	203.4	195.0	218.1	205.5	195.0	209.7	302.0	394.2	427.8	427.8
82.5°	140.5	159.4	151.0	148.9	138.4	140.5	151.0	216.0	304.1	318.7	318.7
85°	98.6	104.9	86.0	81.8	79.7	77.6	77.6	125.8	180.3	178.2	184.5
87.5°	37.7	41.9	31.5	31.5	29.4	21.0	16.8	21.0	21.0	14.7	10.5
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)