

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: P1210591

Luminaire Tested: **ARCH3-170-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210591
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: ARCH3-170-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22391 lumens
Efficiency: N/A
Efficacy: 131.2 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): 170.6
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

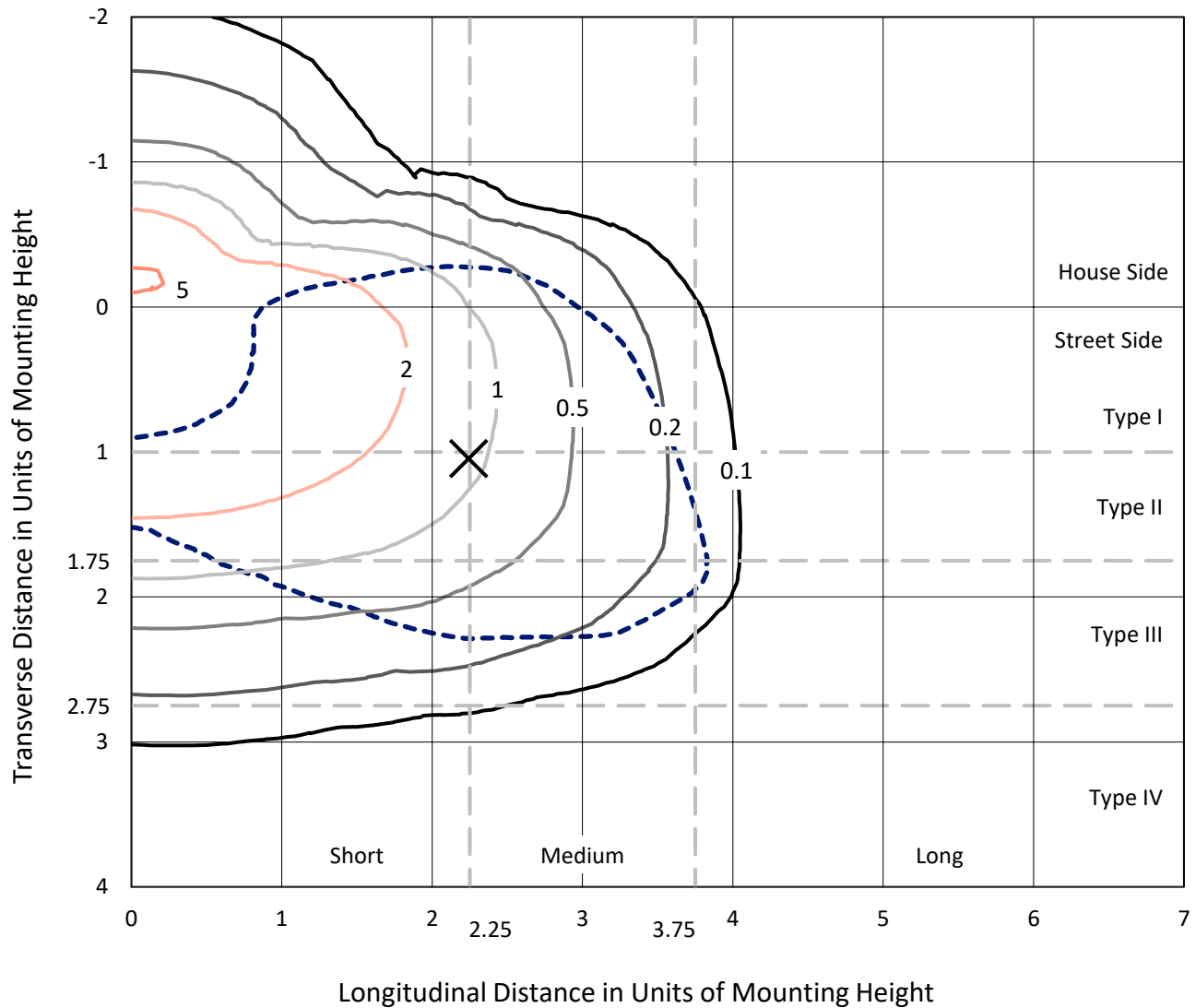


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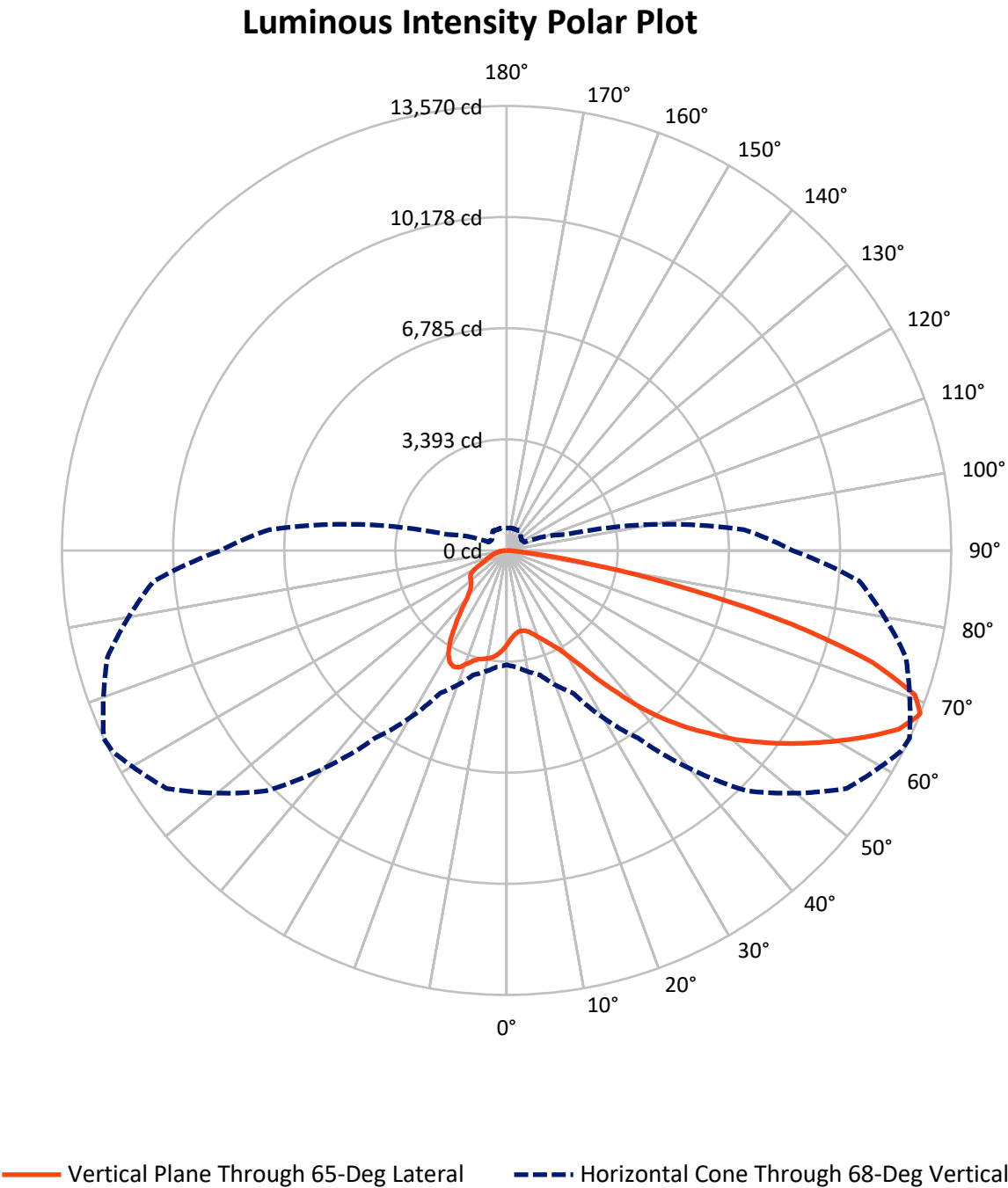
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Short - N/A

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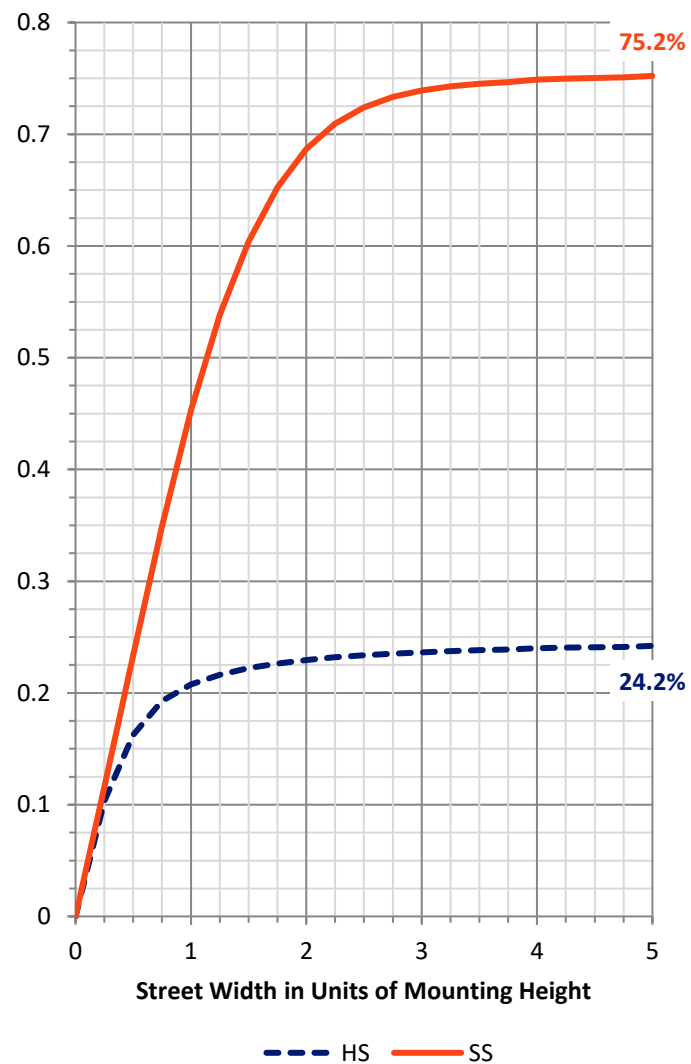
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5489.6	0.0	5489.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	16901.4	0.0	16901.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	22391.0	0.0	22391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	1.2
10°-20°	890.4	4.0
20°-30°	1611.5	7.2
30°-40°	2535.0	11.3
40°-50°	3775.6	16.9
50°-60°	4952.9	22.1
60°-70°	5416.3	24.2
70°-80°	2680.1	12.0
80°-90°	255.6	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°	22391.0	100.0
0°-180°	22391.0	100.0

Coefficient of Utilization



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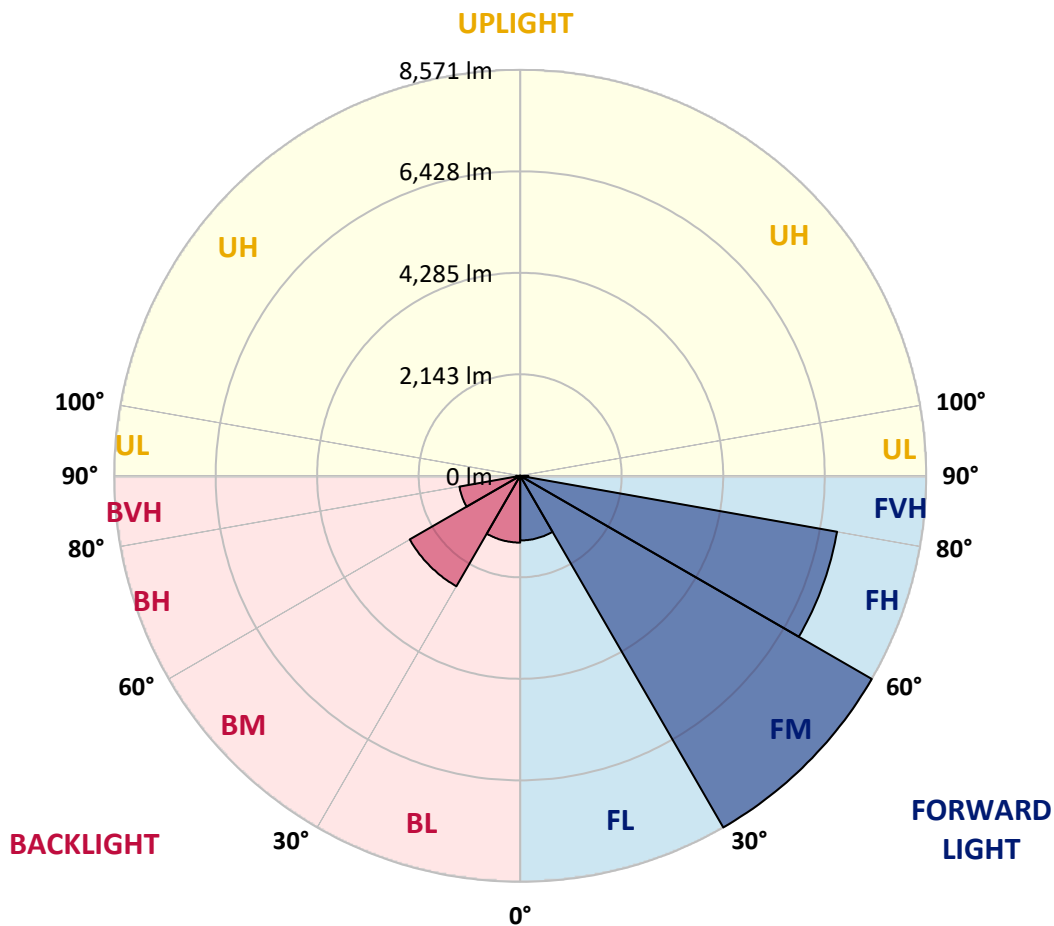
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1365.0	6.1			
FM	(30°-60°)	8571.0	38.3			
FH	(60°-80°)	6793.5	30.3			G3/7500
FVH	(80°-90°)	171.9	0.8			G2/225
BL	(0°-30°)	1410.3	6.3	B3/2500		
BM	(30°-60°)	2692.6	12.0	B3/5000		
BH	(60°-80°)	1303.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	83.7	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°	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3
2.5°	2497.5	2491.7	2506.2	2520.6	2552.4	2589.9	2641.9	2685.2	2690.9	2771.8	2835.3
5°	2350.2	2341.6	2356.0	2373.3	2387.8	2434.0	2488.8	2552.4	2578.3	2696.7	2832.4
7.5°	2364.7	2361.8	2367.6	2361.8	2361.8	2382.0	2419.5	2483.1	2511.9	2653.4	2846.9
10°	2448.4	2454.2	2457.1	2439.8	2422.4	2413.8	2425.3	2468.6	2488.8	2656.3	2910.4
12.5°	2587.0	2595.7	2598.6	2566.8	2543.7	2506.2	2486.0	2503.3	2517.7	2685.2	2999.9
15°	2774.7	2780.5	2760.2	2740.0	2682.3	2636.1	2587.0	2572.6	2578.3	2745.8	3100.9
17.5°	2994.1	2985.5	2985.5	2936.4	2861.3	2789.1	2708.3	2696.7	2696.7	2844.0	3245.3
20°	3233.8	3242.4	3216.4	3150.0	3075.0	2962.4	2881.5	2829.5	2835.3	2956.6	3421.4
22.5°	3580.2	3594.7	3525.4	3430.1	3314.6	3184.7	3069.2	2985.5	2988.3	3103.8	3603.3
25°	3952.7	3958.5	3915.2	3788.1	3632.2	3447.4	3294.4	3187.6	3184.7	3268.4	3837.2
27.5°	4333.8	4359.8	4273.2	4151.9	4007.5	3776.6	3574.5	3430.1	3407.0	3519.6	4128.8
30°	4726.5	4758.2	4674.5	4556.1	4377.1	4180.8	3941.1	3773.7	3759.2	3909.4	4518.6
32.5°	5122.0	5130.7	5064.3	4966.1	4804.4	4619.7	4426.2	4241.4	4227.0	4472.4	5023.9
35°	5445.4	5471.4	5425.2	5402.1	5283.7	5113.4	4925.7	4818.9	4856.4	5171.1	5679.3
37.5°	5835.2	5861.2	5809.2	5803.4	5765.9	5618.7	5488.7	5497.4	5534.9	5962.2	6369.3
40°	6398.2	6427.1	6294.3	6236.5	6236.5	6092.2	6048.9	6253.9	6302.9	6741.8	7088.3
42.5°	6874.6	6920.8	6842.9	6805.3	6692.7	6591.7	6643.6	6932.4	7016.1	7486.7	7714.8
45°	7105.6	7140.3	7232.6	7342.4	7232.6	7056.5	7252.9	7579.1	7697.5	8173.9	8341.4
47.5°	7229.8	7261.5	7368.3	7662.8	7737.9	7590.7	7867.8	8275.0	8355.8	8855.3	8939.0
50°	7247.1	7348.1	7486.7	7781.2	8124.8	8145.0	8485.7	8982.3	9077.6	9525.1	9464.5
52.5°	7105.6	7146.0	7431.9	7928.5	8309.6	8656.1	9158.5	9660.8	9730.1	10154.6	9929.4
55°	6874.6	6932.4	7218.2	7893.8	8488.6	9141.1	9842.7	10327.8	10405.8	10766.7	10359.6
57.5°	6666.7	6695.6	7001.7	7792.8	8667.6	9626.2	10452.0	11023.6	11075.6	11303.7	10677.2
60°	6435.8	6467.5	6773.6	7576.2	8800.4	9992.9	11087.2	11725.3	11771.5	11869.6	11046.7
62.5°	5838.1	5921.8	6305.8	7218.2	8765.8	10411.5	11765.7	12418.2	12476.0	12369.1	11338.4
65°	4740.9	4859.3	5329.9	6406.9	8442.4	10682.9	12320.0	13056.3	13154.5	12744.5	11416.3
67.5°	3681.3	3765.0	4143.3	5084.5	7307.7	10547.2	12678.1	13495.2	13524.0	12683.8	10983.2
68°	3490.7	3574.5	3935.4	4807.3	6993.0	10385.6	12669.4	13506.7	13570.2	12617.4	10815.8
70°	2670.7	2766.0	3109.6	3808.3	5636.0	9357.7	12141.0	13229.5	13220.9	11814.8	9776.3
72.5°	1668.8	1723.7	1960.5	2402.2	3727.5	7120.0	10304.7	11667.5	11690.6	9632.0	7498.3
75°	1059.6	1059.6	1048.1	1163.6	1911.4	4056.6	7660.0	8982.3	8999.7	6744.7	4726.5
77.5°	921.0	895.1	770.9	652.5	762.2	1576.5	4533.0	5800.6	5705.3	3632.2	2243.4
80°	776.7	733.4	632.3	525.5	490.8	493.7	1741.0	2945.0	2818.0	1307.9	744.9
82.5°	560.1	522.6	476.4	412.9	378.2	294.5	363.8	851.7	831.5	378.2	242.5
85°	303.2	274.3	268.5	271.4	228.1	181.9	153.0	187.7	187.7	164.6	138.6
87.5°	106.8	78.0	92.4	103.9	89.5	75.1	60.6	72.2	75.1	72.2	66.4
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°	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3
2.5°	2872.8	2901.7	2971.0	3031.6	3075.0	3112.5	3132.7	3141.4	3161.6	3164.5	3158.7
5°	2895.9	2971.0	3075.0	3164.5	3213.5	3233.8	3239.5	3242.4	3233.8	3239.5	3233.8
7.5°	2956.6	3051.9	3199.1	3277.1	3285.7	3254.0	3256.9	3245.3	3256.9	3268.4	3268.4
10°	3049.0	3170.2	3308.8	3337.7	3300.2	3282.8	3317.5	3386.8	3409.9	3441.6	3441.6
12.5°	3170.2	3314.6	3412.8	3386.8	3352.1	3409.9	3510.9	3580.2	3603.3	3614.9	3606.2
15°	3308.8	3464.7	3513.8	3427.2	3490.7	3614.9	3649.5	3609.1	3551.4	3525.4	3539.8
17.5°	3485.0	3614.9	3586.0	3528.3	3672.6	3689.9	3577.3	3447.4	3355.0	3320.4	3343.5
20°	3669.7	3782.3	3649.5	3675.5	3765.0	3580.2	3366.6	3199.1	3118.3	3103.8	3126.9
22.5°	3866.1	3938.3	3713.0	3845.9	3713.0	3337.7	3080.7	2994.1	2973.9	2997.0	3017.2
25°	4088.4	4079.7	3822.8	3897.8	3519.6	3040.3	2887.3	2881.5	2881.5	2895.9	2924.8
27.5°	4339.6	4203.9	3932.5	3828.5	3184.7	2794.9	2766.0	2768.9	2760.2	2763.1	2777.6
30°	4631.2	4371.3	4053.7	3600.4	2809.3	2610.1	2598.6	2589.9	2569.7	2563.9	2569.7
32.5°	4997.9	4547.5	4177.9	3225.1	2480.2	2419.5	2413.8	2367.6	2318.5	2312.7	2332.9
35°	5462.7	4868.0	4241.4	2754.5	2208.8	2205.9	2185.7	2113.5	2050.0	2050.0	2035.5
37.5°	5994.0	5280.8	4267.4	2295.4	1983.6	1998.0	1940.3	1847.9	1798.8	1769.9	1778.6
40°	6536.8	5751.5	4264.5	1894.1	1787.2	1790.1	1746.8	1634.2	1512.9	1440.8	1458.1
42.5°	7059.4	6178.8	4189.4	1680.4	1628.4	1619.8	1585.1	1432.1	1331.0	1273.3	1276.2
45°	7478.1	6620.5	4074.0	1553.4	1484.1	1498.5	1420.5	1328.2	1235.8	1183.8	1180.9
47.5°	7896.7	6955.5	3889.2	1475.4	1377.2	1351.2	1319.5	1256.0	1186.7	1128.9	1131.8
50°	8277.8	7241.3	3715.9	1423.4	1279.1	1212.7	1218.4	1180.9	1120.3	1068.3	1065.4
52.5°	8546.4	7429.0	3620.7	1394.6	1160.7	1088.5	1108.7	1088.5	1030.8	993.2	990.3
55°	8814.9	7573.3	3652.4	1357.0	1030.8	973.0	1007.7	1001.9	970.1	958.6	961.5
57.5°	9031.4	7683.1	3765.0	1287.7	906.6	872.0	929.7	912.4	889.3	892.2	892.2
60°	9242.2	7824.5	3897.8	1128.9	799.8	802.7	857.5	825.8	811.3	837.3	840.2
62.5°	9461.6	7977.6	3788.1	897.9	707.4	727.6	791.1	765.1	770.9	808.4	820.0
65°	9435.6	7963.1	3086.5	736.3	626.5	667.0	762.2	753.6	756.5	770.9	776.7
67.5°	8904.4	7455.0	2122.2	626.5	568.8	617.9	739.1	704.5	707.4	698.7	701.6
68°	8725.4	7276.0	1871.0	609.2	557.2	606.3	727.6	695.8	698.7	690.1	687.2
70°	7749.5	6230.8	1183.8	537.0	516.8	574.6	669.8	658.3	655.4	649.6	649.6
72.5°	5907.4	4599.4	623.7	464.9	470.6	525.5	597.7	620.8	606.3	609.2	626.5
75°	3912.3	2766.0	433.1	398.4	412.9	450.4	531.3	577.5	563.0	571.7	563.0
77.5°	2070.2	1489.8	346.5	337.8	337.8	363.8	438.9	511.0	511.0	505.3	496.6
80°	678.5	525.5	277.2	265.6	271.4	285.8	352.2	418.7	427.3	415.8	410.0
82.5°	228.1	242.5	207.9	193.4	199.2	210.8	265.6	320.5	323.4	300.3	294.5
85°	141.5	161.7	129.9	127.0	127.0	129.9	161.7	176.1	161.7	144.4	150.1
87.5°	66.4	80.8	60.6	52.0	43.3	37.5	28.9	11.5	11.5	5.8	5.8
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)