

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: P1211466

Luminaire Tested: **ARCH4-280-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-280-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28823 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 279.7
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

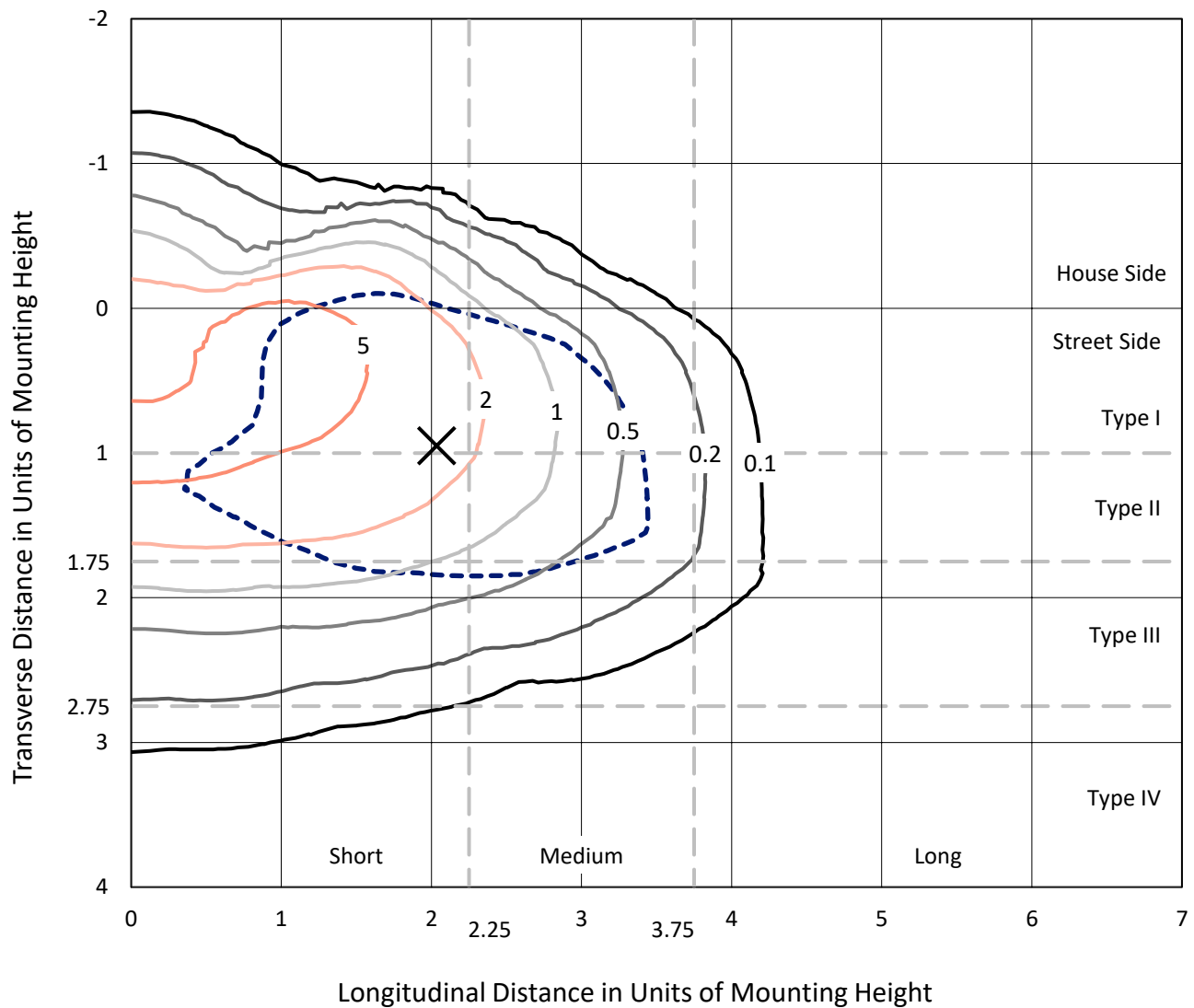


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Iso-Footcandle Lines of Horizontal Illumination

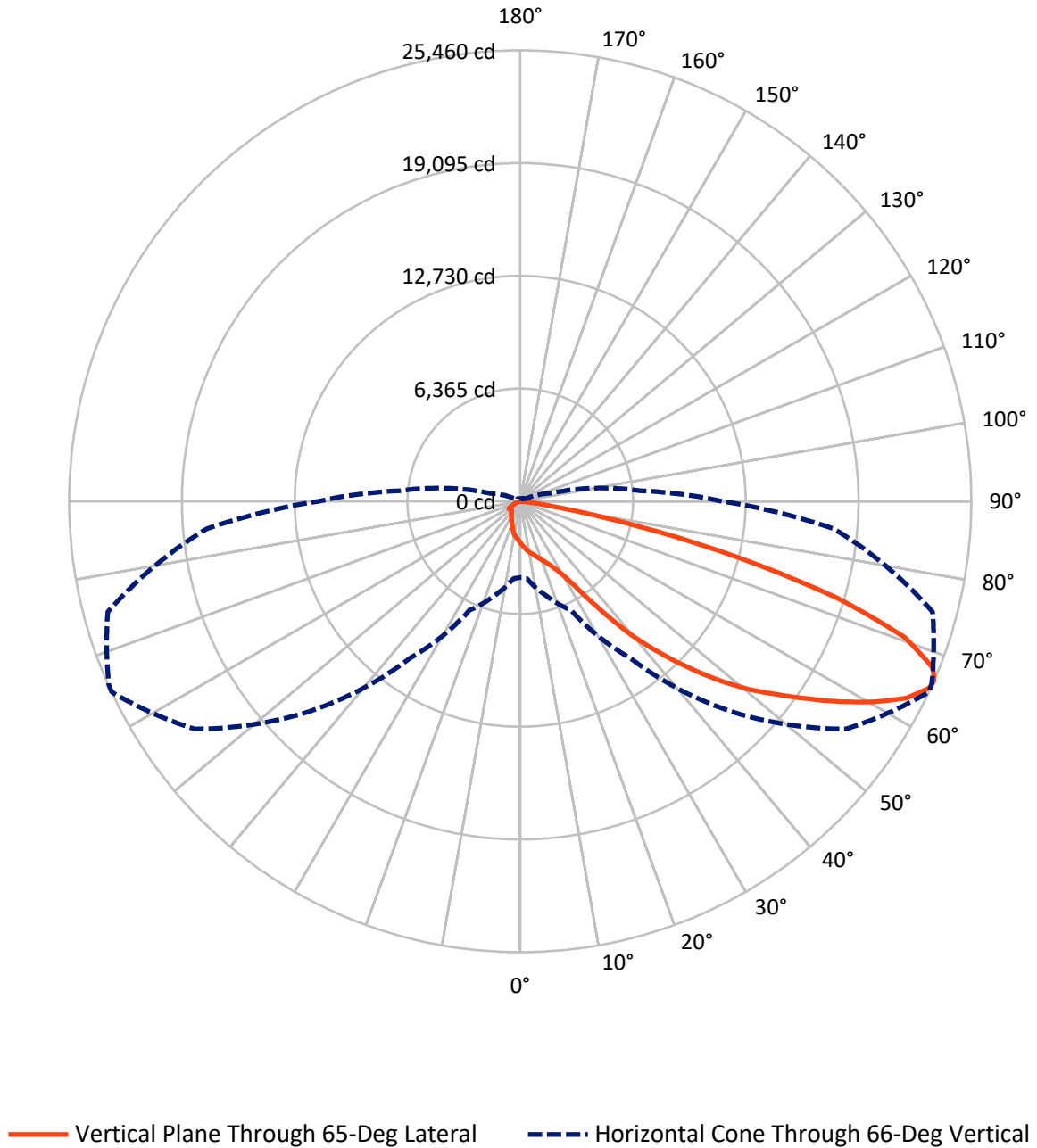
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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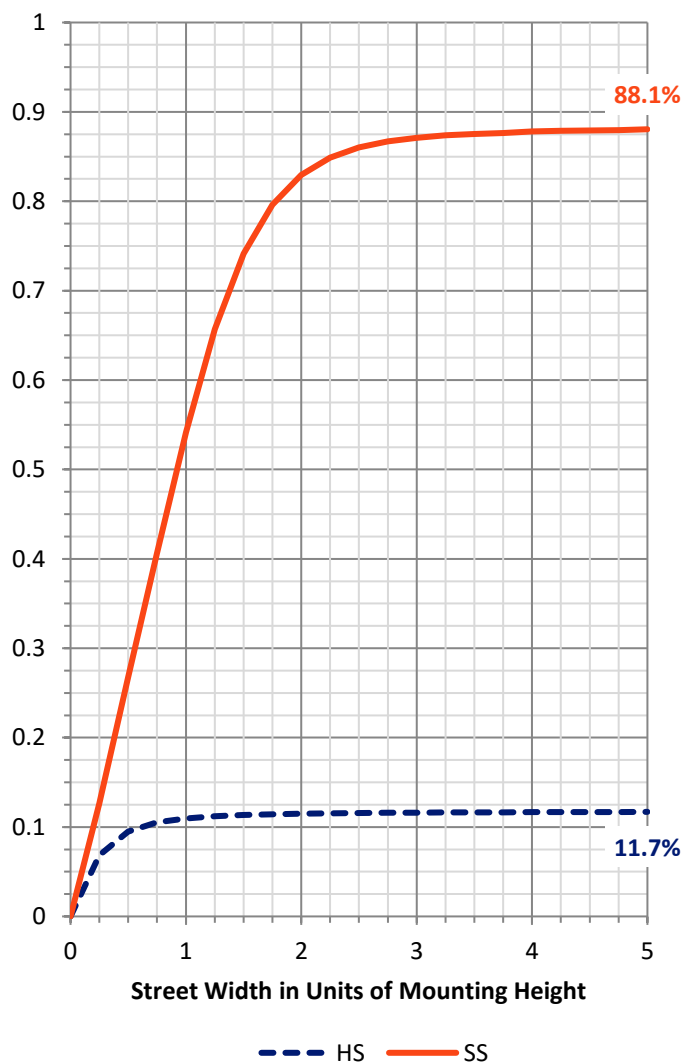
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3401.7	0.0	3401.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	25421.3	0.0	25421.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	28823.0	0.0	28823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	0.8
10°-20°	659.0	2.3
20°-30°	1206.2	4.2
30°-40°	2451.0	8.5
40°-50°	5175.8	18.0
50°-60°	7956.9	27.6
60°-70°	8009.2	27.8
70°-80°	2992.7	10.4
80°-90°	149.5	0.5
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°	28823.0	100.0
0°-180°	28823.0	100.0

Coefficient of Utilization



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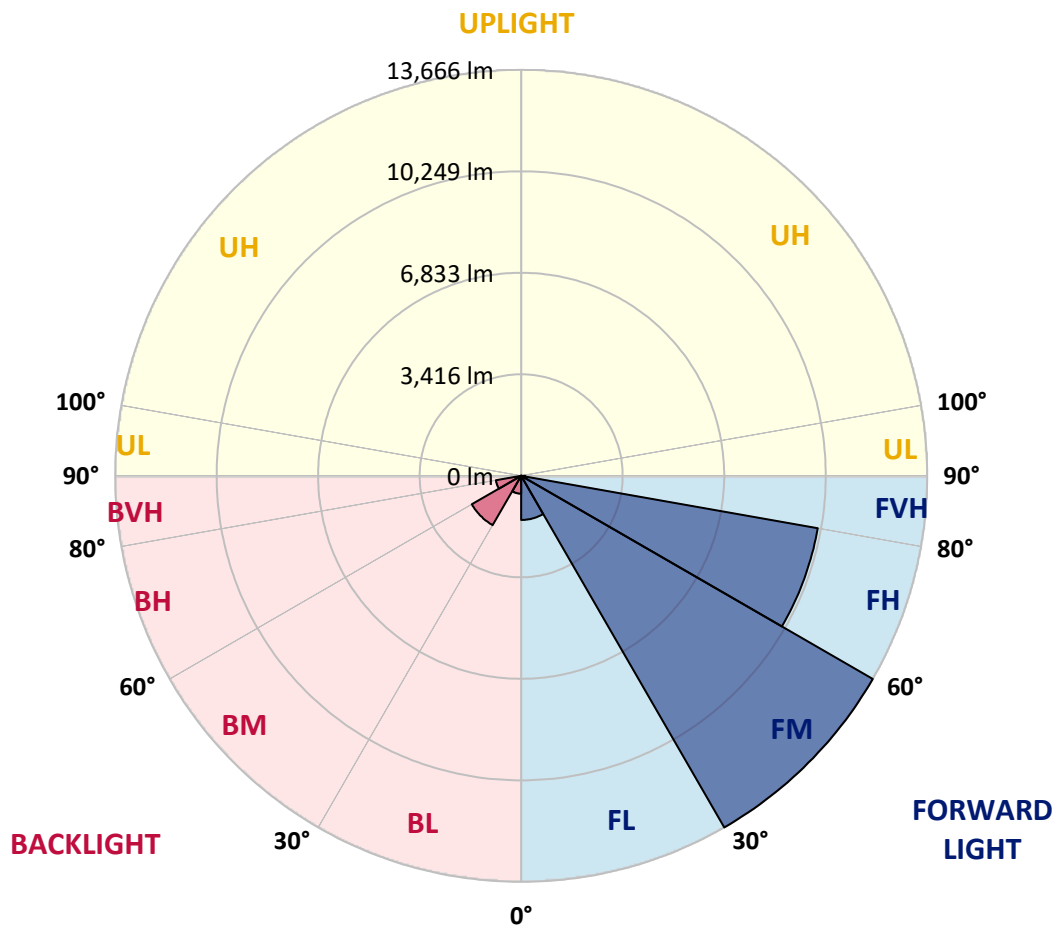
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1485.8	5.2			
FM	(30°-60°)	13665.8	47.4			
FH	(60°-80°)	10137.7	35.2			G4/12000
FVH	(80°-90°)	131.9	0.5			G2/225
BL	(0°-30°)	602.1	2.1	B2/1000		
BM	(30°-60°)	1917.9	6.7	B2/2500		
BH	(60°-80°)	864.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	17.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3
2.5°	2677.8	2683.0	2672.5	2651.6	2630.7	2604.5	2562.7	2494.7	2484.2	2437.2	2384.9
5°	2860.8	2871.3	2855.6	2850.3	2839.9	2803.3	2745.7	2646.4	2635.9	2541.8	2421.5
7.5°	2923.6	2939.3	2928.8	2928.8	2928.8	2913.1	2887.0	2798.0	2782.4	2662.1	2479.0
10°	2970.6	2981.1	2975.9	2996.8	3012.5	3002.0	2986.3	2934.0	2918.3	2798.0	2557.5
12.5°	3043.9	3049.1	3054.3	3064.8	3090.9	3101.4	3096.2	3049.1	3038.6	2954.9	2656.8
15°	3111.8	3111.8	3117.1	3164.1	3200.8	3221.7	3226.9	3190.3	3179.8	3111.8	2782.4
17.5°	3174.6	3179.8	3195.5	3247.8	3310.6	3352.4	3378.6	3362.9	3347.2	3294.9	2928.8
20°	3268.7	3279.2	3294.9	3368.1	3430.9	3498.9	3551.2	3545.9	3540.7	3504.1	3101.4
22.5°	3430.9	3441.3	3467.5	3535.5	3598.2	3681.9	3770.8	3765.6	3749.9	3723.7	3305.4
25°	3676.7	3676.7	3692.4	3749.9	3828.3	3927.7	4011.4	4027.1	4011.4	3995.7	3561.6
27.5°	3985.2	3990.5	3990.5	4053.2	4126.5	4252.0	4356.6	4372.3	4372.3	4356.6	3906.8
30°	4414.1	4398.4	4388.0	4440.3	4518.7	4701.8	4884.8	4916.2	4900.5	4926.6	4393.2
32.5°	5151.5	5125.4	5036.5	5046.9	5094.0	5345.0	5653.6	5763.4	5758.2	5805.3	5177.7
35°	6171.4	6119.1	5988.3	5878.5	5873.3	6145.2	6615.9	7029.1	7023.9	7186.0	6370.1
37.5°	7322.0	7390.0	7144.2	6955.9	6898.4	7112.8	7719.5	8613.8	8660.9	8943.3	7933.9
40°	8859.6	8901.4	8587.6	8320.9	8048.9	8127.4	8927.6	10318.8	10402.4	10716.2	9497.7
42.5°	10198.5	10240.3	10057.3	9733.0	9387.8	9241.4	10146.2	11866.8	11934.8	12368.9	11108.5
45°	11108.5	11139.9	11202.6	11234.0	10841.8	10538.4	11636.7	13456.8	13540.4	14042.5	12682.7
47.5°	11819.8	11845.9	11971.4	12285.2	12206.8	11966.2	13153.4	15109.4	15130.3	15690.0	14215.1
50°	12149.3	12212.0	12520.6	13001.7	13346.9	13414.9	14800.9	16673.2	16730.7	17264.2	15663.8
52.5°	11783.2	11804.1	12583.3	13488.1	14183.7	14874.1	16453.5	18121.9	18289.3	18686.7	16966.1
55°	10548.9	10700.6	11882.5	13472.4	14842.7	16260.0	18221.3	19685.7	19837.3	20088.4	18111.4
57.5°	9115.9	9283.2	10721.5	12797.8	15125.1	17541.4	19858.3	21348.8	21453.4	21521.4	19162.7
60°	7876.4	8033.3	9513.3	11506.0	14842.7	18446.2	21380.2	23001.5	23090.4	22907.3	19690.9
62.5°	6354.4	6511.3	8001.9	9795.8	13733.9	18629.2	22509.9	24471.1	24507.7	24010.9	19366.6
65°	4790.7	4895.3	6140.0	7677.6	11793.6	17656.4	22766.1	25386.4	25349.7	24329.9	18393.9
66°	4293.8	4382.7	5481.0	6788.5	10784.2	16767.3	22420.9	25459.6	25423.0	24094.5	17755.8
67.5°	3702.8	3729.0	4633.8	5554.2	9021.7	14879.3	21369.7	25124.9	25156.2	23446.0	16589.5
70°	2892.2	2887.0	3410.0	3865.0	6160.9	10585.5	17823.8	23017.2	23168.8	20998.4	14147.1
72.5°	1851.4	1788.7	2092.0	2364.0	3587.8	6145.2	12996.5	18760.0	19016.2	16495.4	10538.4
75°	1103.5	1040.8	1114.0	1182.0	1720.7	2954.9	7641.0	12766.4	13012.2	10575.0	6270.8
77.5°	826.3	800.2	805.4	747.9	763.6	1108.8	3488.4	6746.7	6924.5	4330.4	2379.6
80°	632.8	564.8	528.2	554.4	502.1	439.3	1297.0	2322.1	2431.9	1025.1	496.8
82.5°	423.6	366.1	339.9	371.3	319.0	245.8	313.8	449.8	439.3	277.2	193.5
85°	219.7	188.3	188.3	188.3	162.1	120.3	136.0	183.0	183.0	146.4	115.1
87.5°	62.8	57.5	68.0	62.8	47.1	47.1	52.3	62.8	62.8	57.5	52.3
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°	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3
2.5°	2343.0	2322.1	2264.6	2222.7	2180.9	2144.3	2102.5	2092.0	2071.1	2076.3	2065.8
5°	2358.7	2301.2	2201.8	2107.7	2034.5	1971.7	1893.3	1861.9	1820.0	1804.3	1793.9
7.5°	2379.6	2296.0	2149.5	2018.8	1893.3	1767.7	1642.2	1569.0	1521.9	1501.0	1485.3
10°	2426.7	2316.9	2123.4	1919.4	1705.0	1527.2	1401.6	1349.3	1318.0	1312.7	1307.5
12.5°	2489.5	2348.3	2097.2	1793.9	1511.5	1344.1	1265.7	1250.0	1244.7	1244.7	1239.5
15°	2583.6	2400.6	2055.4	1647.4	1359.8	1244.7	1208.1	1182.0	1171.5	1171.5	1171.5
17.5°	2677.8	2463.3	1992.6	1495.8	1255.2	1182.0	1145.4	1129.7	1119.2	1124.4	1119.2
20°	2798.0	2536.5	1908.9	1365.0	1187.2	1129.7	1093.1	1077.4	1072.1	1072.1	1072.1
22.5°	2934.0	2620.2	1804.3	1265.7	1129.7	1077.4	1040.8	1025.1	1014.6	1019.8	1019.8
25°	3117.1	2724.8	1694.5	1166.3	1072.1	1025.1	983.2	962.3	962.3	967.5	972.8
27.5°	3352.4	2850.3	1584.7	1103.5	1019.8	972.8	925.7	904.8	910.0	920.5	920.5
30°	3697.6	3022.9	1474.9	1035.5	962.3	910.0	868.2	847.3	857.7	878.6	878.6
32.5°	4189.2	3305.4	1380.7	957.1	878.6	821.1	779.3	763.6	789.7	831.6	831.6
35°	5067.9	3823.1	1323.2	878.6	789.7	721.7	669.4	653.7	690.4	742.7	742.7
37.5°	6244.6	4654.7	1344.1	810.6	716.5	638.1	580.5	559.6	585.8	632.8	648.5
40°	7557.3	5658.8	1527.2	753.1	648.5	570.1	512.5	491.6	507.3	528.2	533.5
42.5°	8870.1	6725.8	1872.3	711.3	596.2	512.5	460.2	444.5	455.0	460.2	465.5
45°	10177.6	7782.2	2306.4	685.1	549.1	465.5	413.2	413.2	418.4	418.4	418.4
47.5°	11417.1	8812.5	2761.4	679.9	507.3	418.4	376.6	381.8	381.8	387.0	387.0
50°	12588.6	9733.0	3221.7	695.6	470.7	376.6	345.2	345.2	345.2	350.4	345.2
52.5°	13566.6	10538.4	3702.8	721.7	434.1	345.2	313.8	313.8	313.8	319.0	313.8
55°	14492.3	11270.6	4194.4	758.3	402.7	319.0	287.6	277.2	277.2	282.4	277.2
57.5°	15245.4	11757.0	4659.9	763.6	376.6	292.9	266.7	251.0	251.0	251.0	251.0
60°	15276.8	11474.6	4795.9	669.4	345.2	266.7	240.6	219.7	224.9	224.9	224.9
62.5°	14277.9	9989.3	3854.5	502.1	308.6	240.6	219.7	198.7	198.7	198.7	198.7
65°	12316.6	7771.8	2259.4	397.5	266.7	214.4	193.5	177.8	177.8	177.8	172.6
66°	11396.1	6814.7	1731.1	360.9	251.0	209.2	188.3	172.6	167.4	162.1	162.1
67.5°	9895.1	5386.9	1082.6	319.0	230.1	193.5	172.6	156.9	151.7	146.4	146.4
70°	7452.7	3420.4	528.2	245.8	198.7	167.4	151.7	136.0	130.7	125.5	120.3
72.5°	5230.0	2003.1	277.2	188.3	162.1	146.4	130.7	115.1	109.8	104.6	104.6
75°	2954.9	967.5	183.0	136.0	130.7	120.3	109.8	94.1	88.9	88.9	88.9
77.5°	1119.2	334.7	125.5	99.4	104.6	94.1	78.4	78.4	73.2	78.4	73.2
80°	292.9	146.4	78.4	73.2	78.4	68.0	57.5	62.8	62.8	62.8	62.8
82.5°	156.9	83.7	47.1	52.3	47.1	47.1	36.6	41.8	47.1	41.8	47.1
85°	109.8	41.8	26.1	26.1	20.9	20.9	15.7	20.9	26.1	20.9	20.9
87.5°	57.5	15.7	15.7	15.7	15.7	10.5	5.2	0.0	5.2	5.2	5.2
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)