

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: P1211412

Luminaire Tested: **ARCH4-270-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23364 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 269
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

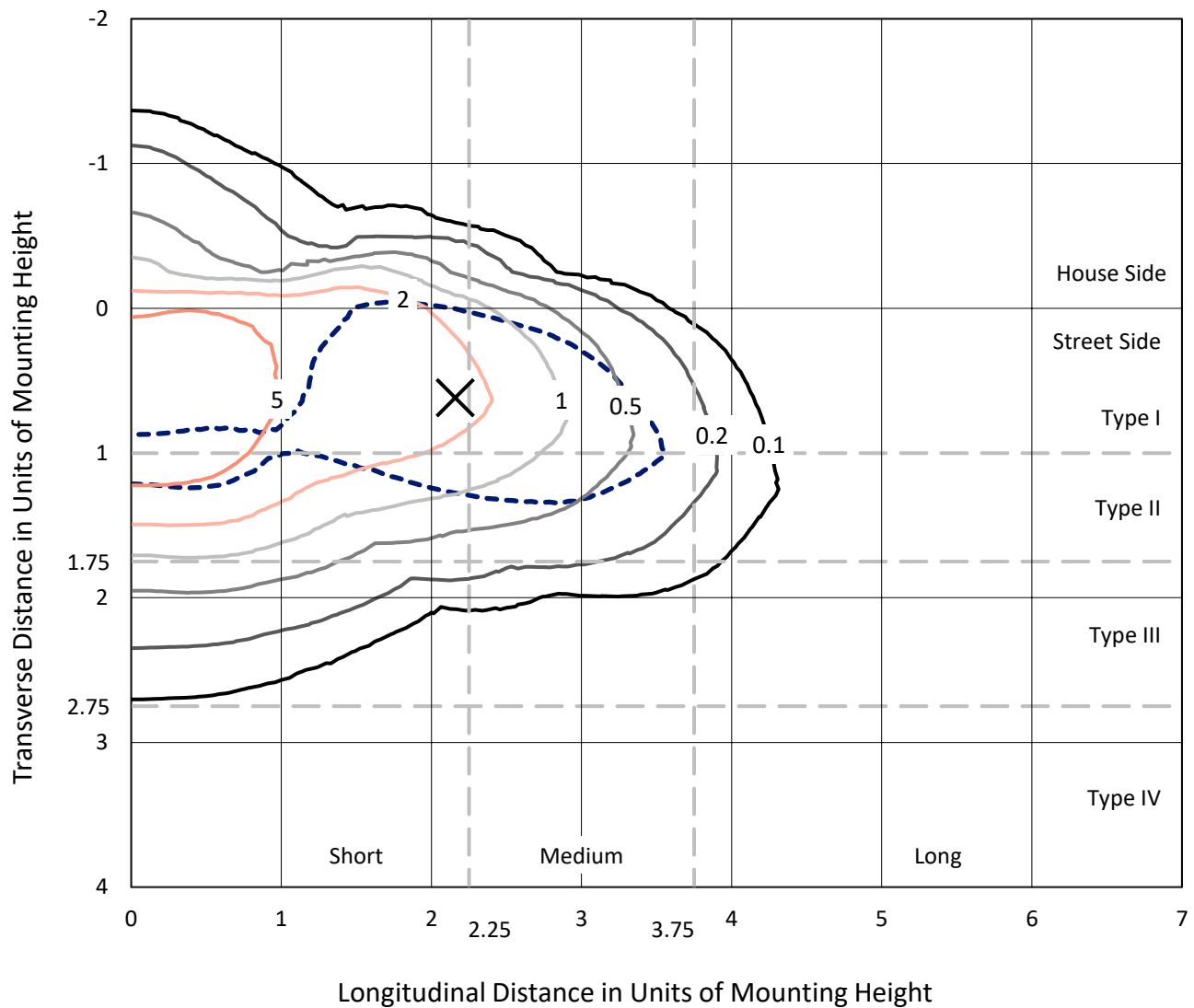


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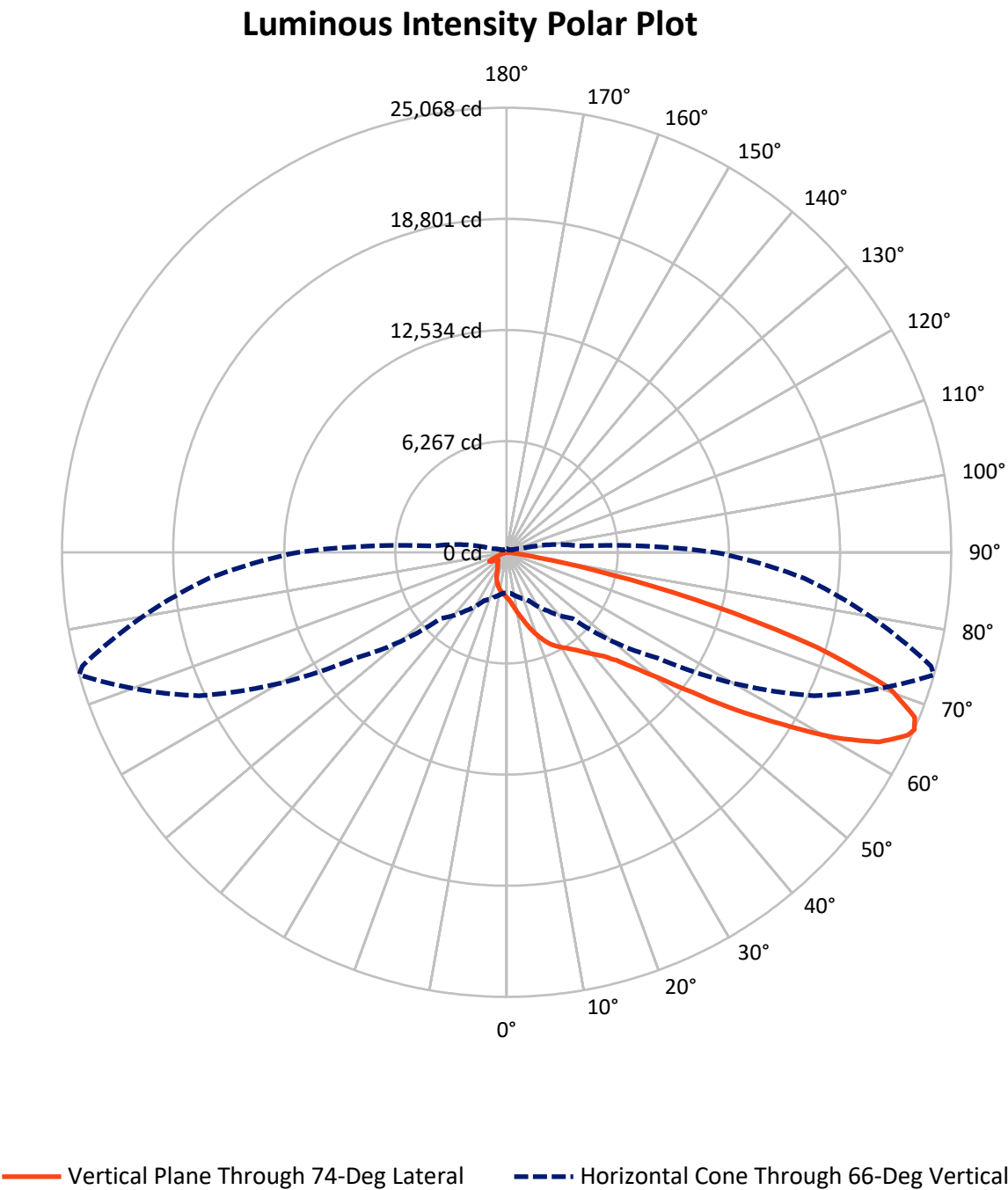
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
Type II - Short - N/A

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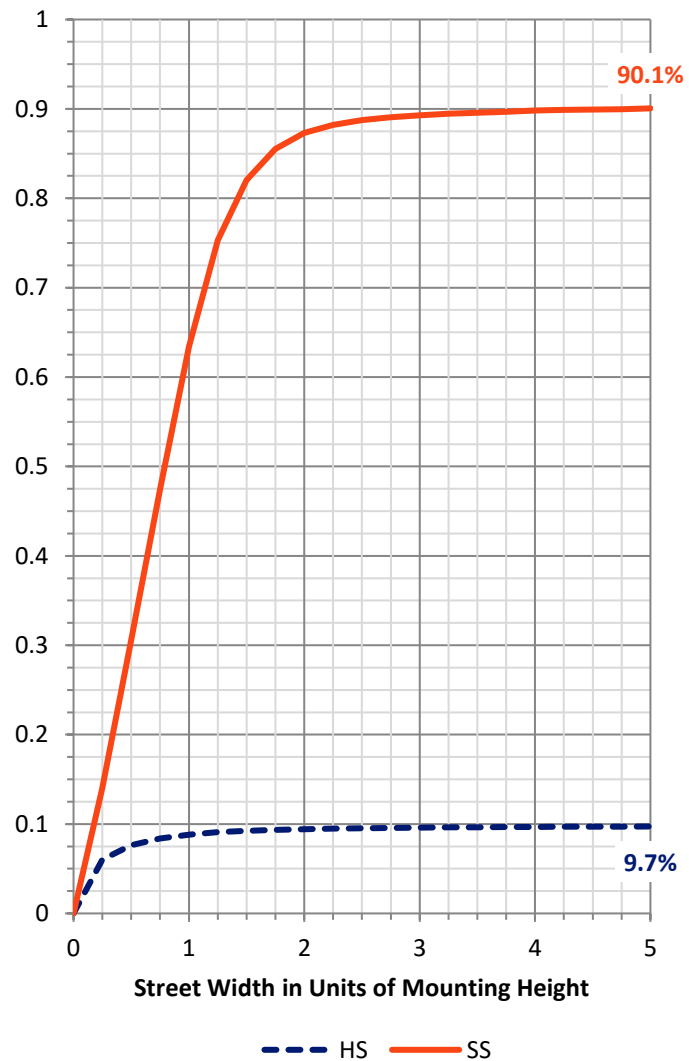
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2290.4	0.0	2290.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	21073.6	0.0	21073.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	23364.0	0.0	23364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.9	1.1
10°-20°	798.0	3.4
20°-30°	1523.0	6.5
30°-40°	2669.5	11.4
40°-50°	4577.4	19.6
50°-60°	5953.3	25.5
60°-70°	5389.2	23.1
70°-80°	2079.4	8.9
80°-90°	125.1	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°	23364.0	100.0
0°-180°	23364.0	100.0

Coefficient of Utilization



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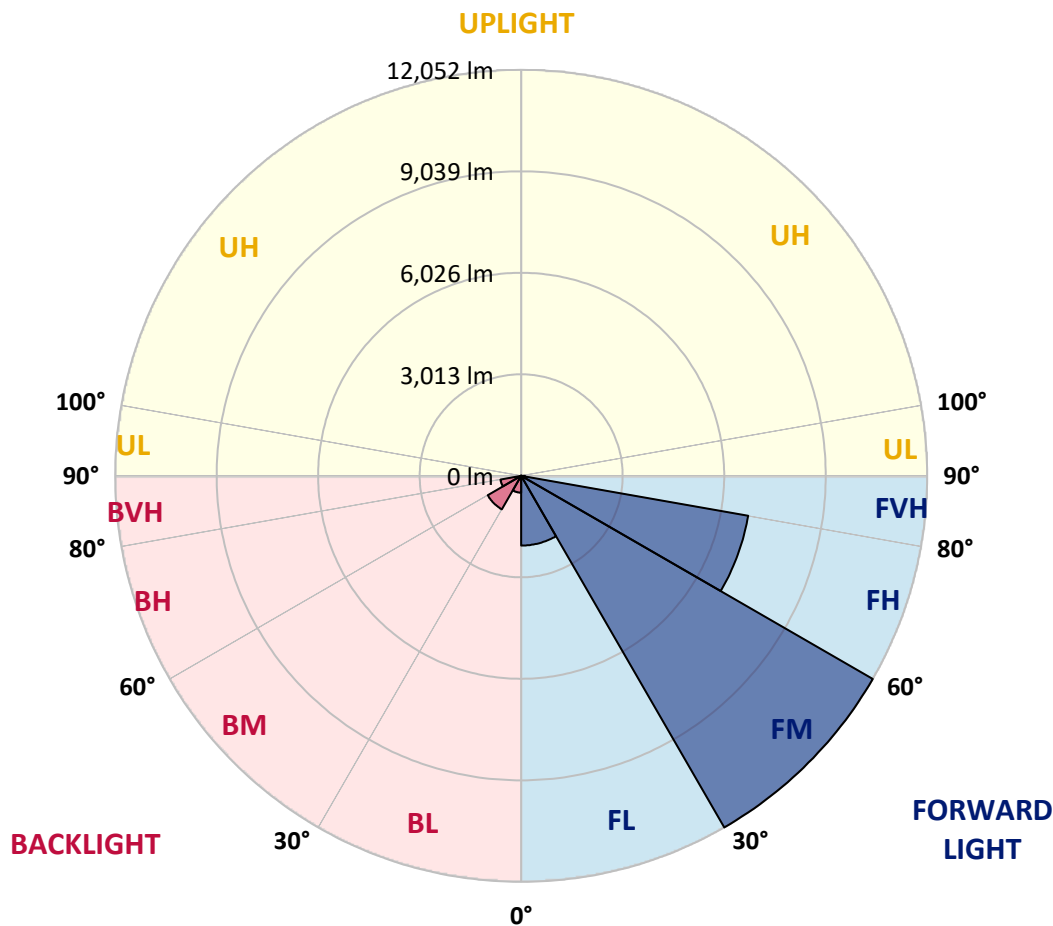
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2070.4	8.9			
FM	(30°-60°)	12052.3	51.6			
FH	(60°-80°)	6842.5	29.3			G3/7500
FVH	(80°-90°)	108.4	0.5			G2/225
BL	(0°-30°)	499.6	2.1	B1/500		
BM	(30°-60°)	1147.9	4.9	B2/2500		
BH	(60°-80°)	626.2	2.7	B2/1000		G2/1000
BVH	(80°-90°)	16.8	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2550.4	2550.4	2550.4	2550.4	2550.4	2550.4	2550.4	2550.4	2550.4	2550.4	2550.4
2.5°	3062.1	3037.0	2990.8	2986.6	2948.9	2902.7	2823.0	2739.1	2680.4	2672.0	2600.7
5°	3666.2	3653.6	3607.4	3578.1	3506.8	3397.7	3213.1	3028.6	2873.4	2856.6	2697.2
7.5°	3825.6	3834.0	3842.4	3871.7	3846.5	3796.2	3657.8	3397.7	3154.4	3116.7	2839.8
10°	3850.7	3842.4	3842.4	3880.1	3951.4	4022.7	4005.9	3783.6	3469.0	3422.9	3037.0
12.5°	4123.4	4136.0	4106.6	4089.8	4077.3	4115.0	4240.8	4144.4	3800.4	3762.7	3276.1
15°	4475.8	4471.6	4429.6	4429.6	4391.9	4328.9	4408.6	4479.9	4198.9	4152.8	3548.7
17.5°	4731.6	4748.4	4744.2	4769.4	4756.8	4672.9	4631.0	4777.8	4610.0	4551.3	3859.1
20°	4937.2	4983.3	5000.1	5079.8	5117.5	5058.8	4949.8	5042.0	5004.3	4949.8	4173.7
22.5°	5155.3	5193.0	5222.4	5360.8	5465.7	5453.1	5314.7	5293.7	5386.0	5335.7	4484.1
25°	5373.4	5390.2	5478.3	5646.1	5813.9	5855.8	5713.2	5549.6	5730.0	5683.8	4761.0
27.5°	5612.5	5620.9	5725.8	5931.3	6166.2	6254.3	6141.1	5839.0	5994.2	5994.2	5012.7
30°	6048.8	6132.7	6174.6	6359.2	6564.7	6686.4	6552.1	6145.2	6229.1	6266.9	5276.9
32.5°	6988.4	7001.0	6988.4	7068.1	7110.0	7181.3	7026.1	6489.2	6468.2	6510.2	5537.0
35°	8423.0	8372.6	8238.4	8121.0	7877.7	7743.4	7542.1	6929.7	6761.9	6820.6	5792.9
37.5°	10163.8	10092.5	9786.3	9425.5	8905.4	8368.4	8116.8	7466.6	7135.2	7210.7	6069.7
40°	11824.9	11778.7	11413.8	10969.2	10079.9	9161.2	8628.5	7919.6	7550.5	7579.8	6350.8
42.5°	13192.4	13184.0	12877.8	12412.1	11271.2	10017.0	9232.6	8364.2	7986.7	8032.9	6644.4
45°	14228.5	14148.8	13922.2	13586.7	12424.7	10906.2	9962.4	9039.6	8687.2	8741.8	7084.9
47.5°	14228.5	14241.0	14387.8	14354.3	13230.1	11741.0	10759.4	9891.1	9723.3	9773.7	7810.5
50°	13070.7	13188.2	13842.5	14392.0	13649.6	12391.2	11619.3	10956.6	11128.6	11204.1	9077.3
52.5°	10780.4	10977.6	12114.3	13368.5	13339.2	12718.4	12508.6	12311.5	13083.3	13217.5	10948.2
55°	8192.3	8322.3	9803.0	11451.6	11988.5	12449.9	13284.6	14031.3	15671.4	15642.1	12848.4
57.5°	6120.1	6241.7	7516.9	9345.8	10054.7	11288.0	13683.1	15998.6	18238.6	18351.8	14631.1
60°	4500.9	4593.2	5679.6	7181.3	8204.8	9509.4	13523.7	17936.6	21195.9	21065.8	16204.2
62.5°	3330.6	3380.9	4165.3	5142.7	6501.8	7747.6	12521.2	19262.1	23557.5	23293.2	17080.9
65°	2575.6	2592.3	2999.2	3519.4	4727.4	6023.6	11027.9	19463.4	24862.0	24581.0	17064.1
66°	2294.5	2307.1	2604.9	3007.6	4022.7	5272.7	10373.5	19140.5	25067.6	24769.8	16854.3
67.5°	1925.4	1917.0	2093.2	2357.4	3020.2	4068.9	9211.6	18196.6	24824.3	24673.3	16183.2
70°	1426.2	1430.4	1518.5	1581.4	1766.0	2252.6	6652.8	15784.7	22877.9	22869.5	14341.7
72.5°	1057.1	1069.7	1136.8	1149.4	1103.2	1220.7	3834.0	12554.8	18301.5	18305.7	10721.7
75°	792.8	813.8	834.7	843.1	801.2	771.8	1732.4	8448.1	12038.8	11950.7	6069.7
77.5°	604.0	612.4	629.2	616.6	608.2	532.7	721.5	4119.2	5943.9	5415.4	1967.3
80°	440.4	440.4	457.2	440.4	436.2	381.7	394.3	1321.3	1745.0	1451.4	423.7
82.5°	276.9	272.7	285.2	281.0	272.7	243.3	230.7	369.1	402.7	360.7	205.5
85°	155.2	151.0	146.8	142.6	130.0	109.1	125.8	138.4	184.6	188.8	146.8
87.5°	54.5	54.5	50.3	46.1	37.8	37.8	46.1	46.1	67.1	67.1	75.5
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°	2550.4	2550.4	2550.4	2550.4	2550.4	2550.4	2550.4	2550.4	2550.4	2550.4	2550.4
2.5°	2567.2	2521.0	2453.9	2365.8	2302.9	2240.0	2172.9	2135.1	2080.6	2068.0	2084.8
5°	2613.3	2529.4	2361.6	2177.1	2017.7	1875.0	1740.8	1661.1	1581.4	1552.0	1564.6
7.5°	2709.8	2567.2	2281.9	1984.1	1719.8	1505.9	1346.5	1254.2	1182.9	1153.5	1161.9
10°	2852.4	2634.3	2206.4	1766.0	1426.2	1199.7	1065.5	1006.7	964.8	948.0	952.2
12.5°	3024.4	2730.8	2109.9	1547.8	1174.5	977.4	914.4	901.9	893.5	885.1	889.3
15°	3217.3	2814.6	1996.7	1333.9	977.4	868.3	847.3	843.1	838.9	838.9	838.9
17.5°	3418.7	2890.2	1870.8	1132.6	851.5	801.2	788.6	788.6	788.6	792.8	792.8
20°	3607.4	2948.9	1724.0	952.2	780.2	738.3	729.9	729.9	734.1	738.3	738.3
22.5°	3792.0	2974.0	1552.0	826.4	721.5	683.7	671.2	671.2	671.2	675.3	675.3
25°	3951.4	2974.0	1380.1	746.7	671.2	633.4	616.6	612.4	616.6	616.6	616.6
27.5°	4085.6	2961.5	1212.3	692.1	620.8	583.1	566.3	562.1	570.5	574.7	574.7
30°	4228.3	2944.7	1078.0	641.8	578.9	541.1	524.3	524.3	536.9	553.7	553.7
32.5°	4366.7	2957.3	973.2	599.8	536.9	507.6	490.8	495.0	520.1	545.3	545.3
35°	4513.5	2982.4	910.3	570.5	507.6	478.2	465.6	478.2	503.4	528.5	528.5
37.5°	4660.3	3011.8	872.5	545.3	482.4	453.0	444.6	461.4	490.8	515.9	520.1
40°	4815.5	3037.0	830.6	520.1	465.6	432.1	427.9	444.6	482.4	507.6	511.8
42.5°	5008.5	3087.3	780.2	499.2	448.8	406.9	411.1	423.7	461.4	499.2	503.4
45°	5386.0	3246.7	729.9	478.2	427.9	394.3	385.9	394.3	436.2	478.2	486.6
47.5°	6094.9	3607.4	675.3	457.2	406.9	385.9	352.4	360.7	398.5	444.6	448.8
50°	7454.0	4375.1	646.0	436.2	390.1	356.6	318.8	318.8	348.2	390.1	390.1
52.5°	9572.3	5750.9	662.8	419.5	369.1	327.2	289.4	285.2	302.0	331.4	331.4
55°	11858.4	7261.0	725.7	402.7	344.0	310.4	268.5	247.5	260.1	276.9	276.9
57.5°	13670.6	8020.3	897.7	394.3	314.6	297.8	243.3	213.9	226.5	243.3	243.3
60°	14467.5	7575.6	1090.6	402.7	293.6	276.9	218.1	188.8	209.7	226.5	230.7
62.5°	13821.6	6237.5	1170.3	381.7	264.3	247.5	213.9	176.2	201.3	213.9	218.1
65°	12424.7	4740.0	914.4	331.4	243.3	213.9	193.0	167.8	188.8	201.3	201.3
66°	11762.0	4131.8	780.2	306.2	234.9	201.3	184.6	167.8	184.6	193.0	197.2
67.5°	10734.3	3259.3	578.9	268.5	218.1	184.6	172.0	159.4	176.2	184.6	184.6
70°	8393.6	1942.1	348.2	209.7	188.8	163.6	155.2	146.8	159.4	163.6	163.6
72.5°	5256.0	922.8	222.3	155.2	159.4	155.2	130.0	138.4	142.6	146.8	146.8
75°	2546.2	364.9	151.0	113.3	130.0	146.8	104.9	121.6	125.8	134.2	130.0
77.5°	708.9	176.2	96.5	83.9	113.3	113.3	79.7	96.5	113.3	142.6	130.0
80°	205.5	113.3	62.9	62.9	79.7	79.7	54.5	67.1	75.5	83.9	88.1
82.5°	142.6	75.5	41.9	46.1	46.1	50.3	33.6	33.6	41.9	41.9	46.1
85°	113.3	33.6	25.2	29.4	21.0	25.2	16.8	16.8	21.0	16.8	16.8
87.5°	46.1	16.8	16.8	16.8	12.6	12.6	8.4	4.2	4.2	4.2	4.2
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)