

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: P1211448

Luminaire Tested: **ARCH4-280-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211448
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: ARCH4-280-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1085mA 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: 26774 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - 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



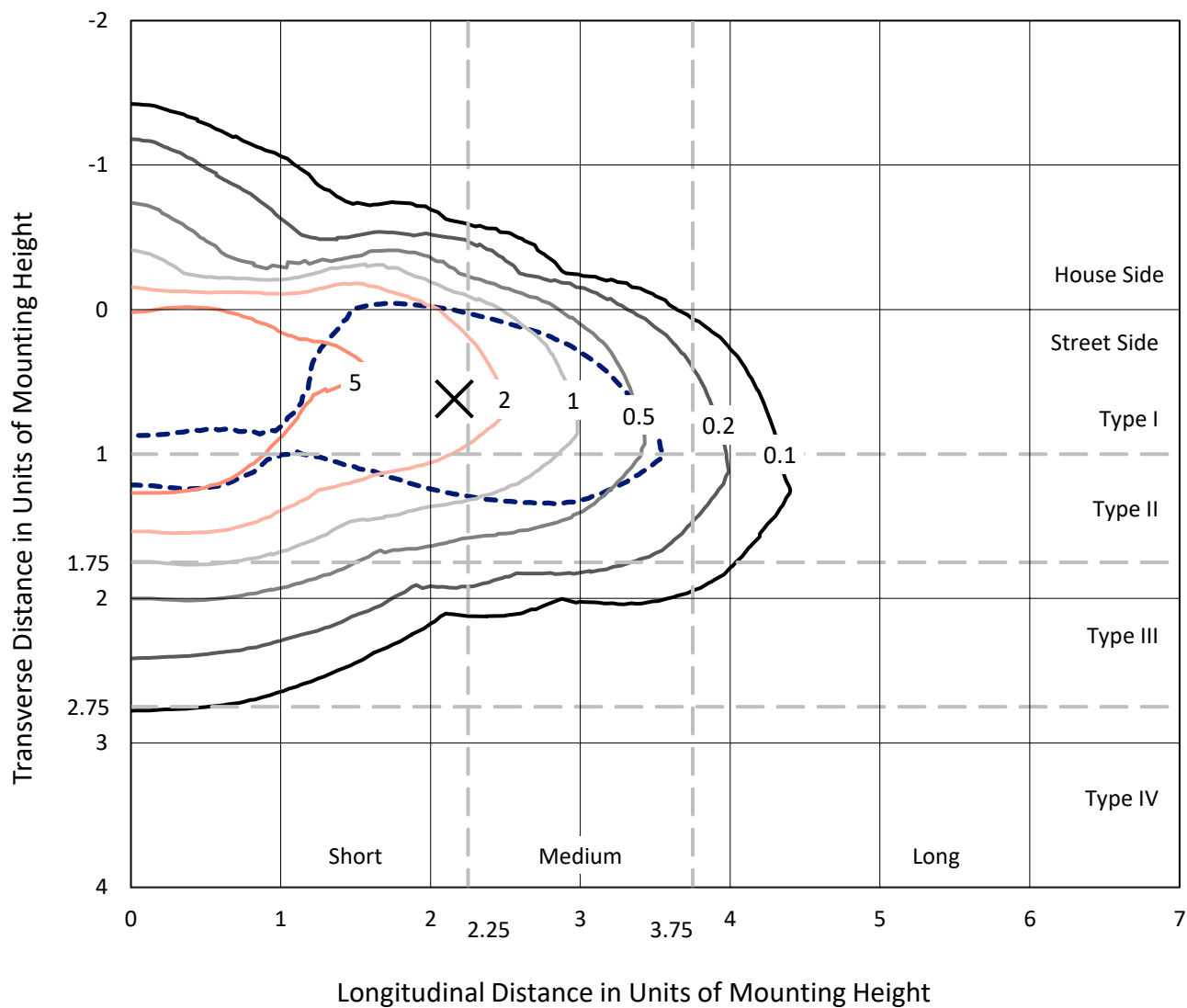
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Iso-Footcandle Lines of Horizontal Illumination

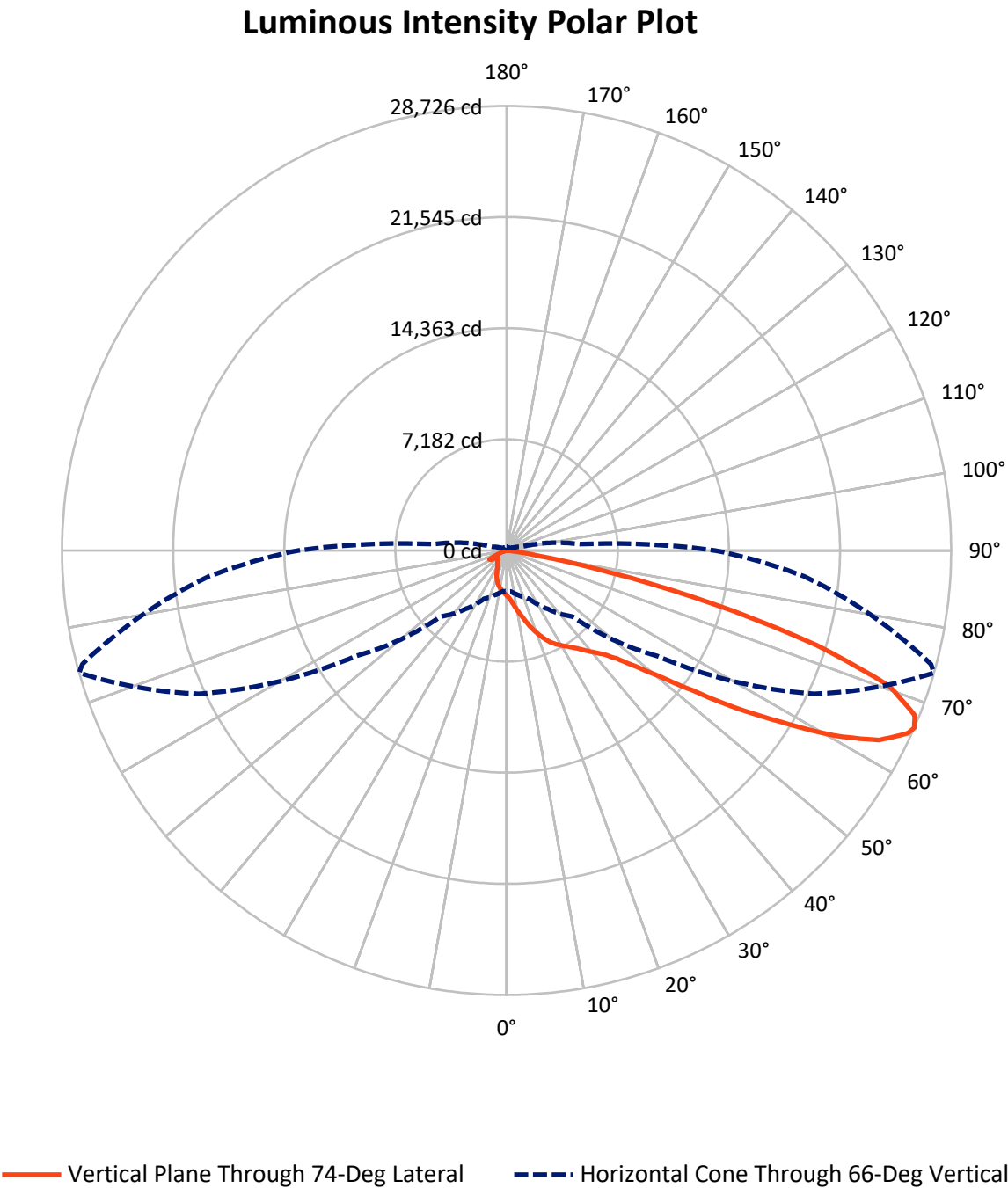
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type II - Short - N/A

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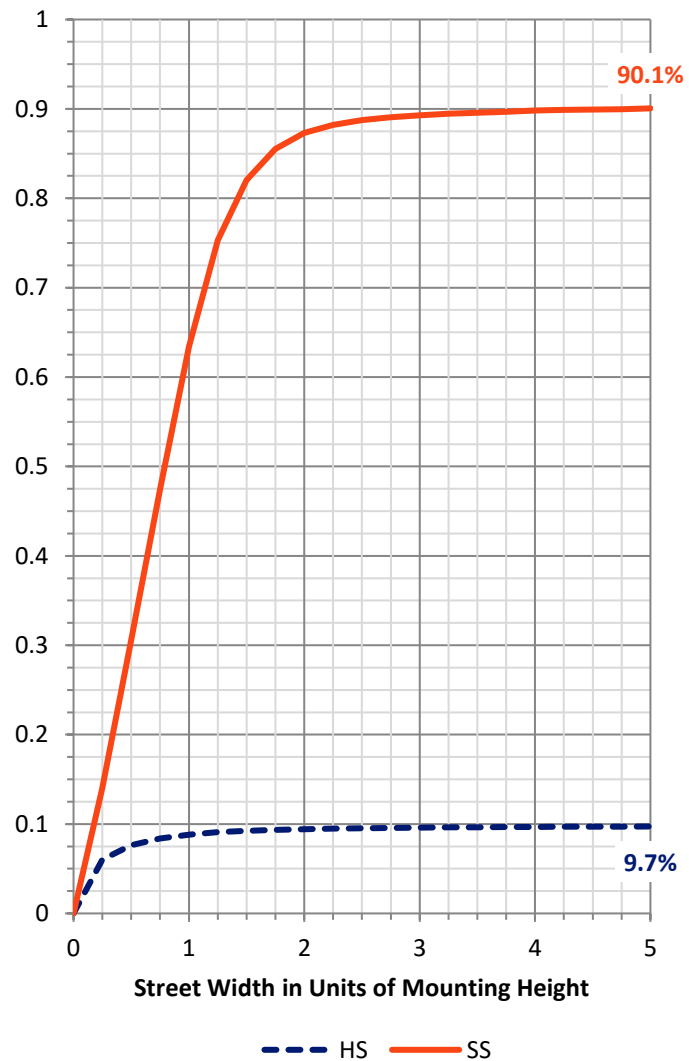
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2624.7	0.0	2624.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	24149.3	0.0	24149.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	26774.0	0.0	26774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.3	1.1
10°-20°	914.5	3.4
20°-30°	1745.3	6.5
30°-40°	3059.1	11.4
40°-50°	5245.5	19.6
50°-60°	6822.2	25.5
60°-70°	6175.8	23.1
70°-80°	2382.9	8.9
80°-90°	143.4	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°	26774.0	100.0
0°-180°	26774.0	100.0

Coefficient of Utilization



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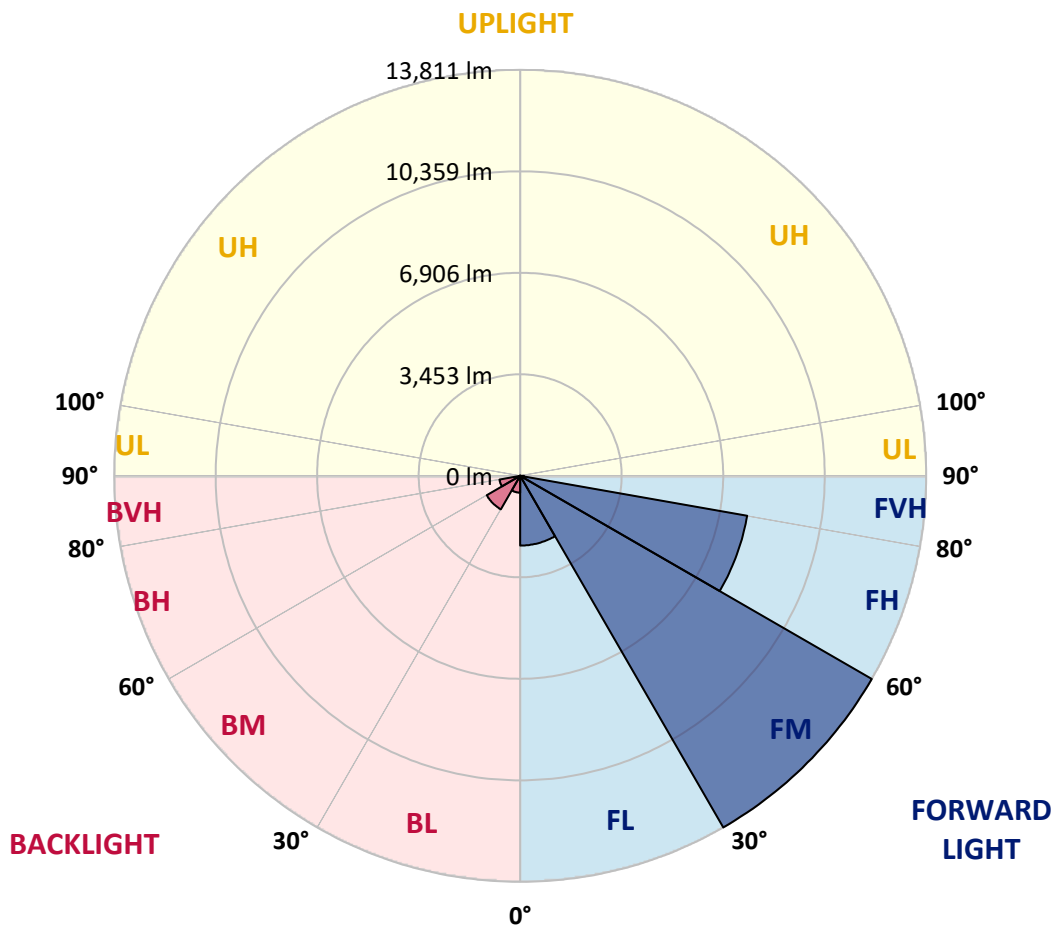
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2372.6	8.9			
FM	(30°-60°)	13811.4	51.6			
FH	(60°-80°)	7841.2	29.3			G4/12000
FVH	(80°-90°)	124.2	0.5			G2/225
BL	(0°-30°)	572.5	2.1	B2/1000		
BM	(30°-60°)	1315.4	4.9	B2/2500		
BH	(60°-80°)	717.6	2.7	B2/1000		G2/1000
BVH	(80°-90°)	19.2	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6
2.5°	3509.1	3480.2	3427.3	3422.5	3379.3	3326.4	3235.1	3138.9	3071.6	3062.0	2980.3
5°	4201.3	4186.8	4134.0	4100.3	4018.6	3893.6	3682.1	3470.6	3292.7	3273.5	3090.9
7.5°	4383.9	4393.5	4403.1	4436.8	4408.0	4350.3	4191.6	3893.6	3614.8	3571.5	3254.3
10°	4412.8	4403.1	4403.1	4446.4	4528.1	4609.8	4590.6	4335.9	3975.3	3922.5	3480.2
12.5°	4725.2	4739.6	4706.0	4686.8	4672.3	4715.6	4859.8	4749.2	4355.1	4311.8	3754.2
15°	5129.0	5124.2	5076.1	5076.1	5032.9	4960.8	5052.1	5133.8	4811.7	4758.9	4066.7
17.5°	5422.2	5441.4	5436.6	5465.5	5451.1	5354.9	5306.9	5475.1	5282.8	5215.5	4422.4
20°	5657.8	5710.6	5729.9	5821.2	5864.5	5797.2	5672.2	5777.9	5734.7	5672.2	4782.9
22.5°	5907.7	5951.0	5984.6	6143.3	6263.4	6249.0	6090.4	6066.3	6172.1	6114.4	5138.6
25°	6157.7	6176.9	6277.9	6470.1	6662.4	6710.5	6547.0	6359.6	6566.3	6513.4	5455.9
27.5°	6431.7	6441.3	6561.5	6797.0	7066.2	7167.1	7037.3	6691.2	6869.1	6869.1	5744.3
30°	6931.6	7027.7	7075.8	7287.3	7522.8	7662.2	7508.4	7042.2	7138.3	7181.6	6047.1
32.5°	8008.3	8022.8	8008.3	8099.7	8147.7	8229.5	8051.6	7436.3	7412.3	7460.4	6345.1
35°	9652.3	9594.6	9440.8	9306.2	9027.4	8873.6	8642.9	7941.0	7748.8	7816.1	6638.4
37.5°	11647.2	11565.5	11214.6	10801.2	10205.1	9589.8	9301.4	8556.3	8176.6	8263.1	6955.6
40°	13550.7	13497.9	13079.7	12570.1	11551.1	10498.3	9887.9	9075.5	8652.5	8686.1	7277.7
42.5°	15117.8	15108.2	14757.3	14223.7	12916.2	11478.9	10580.1	9585.0	9152.4	9205.3	7614.2
45°	16305.1	16213.8	15954.2	15569.6	14238.1	12498.0	11416.5	10358.9	9955.2	10017.6	8118.9
47.5°	16305.1	16319.5	16487.8	16449.3	15161.1	13454.6	12329.8	11334.7	11142.5	11200.1	8950.5
50°	14978.4	15113.0	15862.9	16492.6	15641.8	14199.7	13315.2	12555.7	12752.8	12839.3	10402.2
52.5°	12353.8	12579.7	13882.4	15319.7	15286.0	14574.6	14334.3	14108.3	14992.8	15146.6	12546.1
55°	9387.9	9536.9	11233.8	13122.9	13738.2	14267.0	15223.5	16079.2	17958.7	17925.0	14723.6
57.5°	7013.3	7152.7	8614.0	10709.8	11522.2	12935.4	15680.2	18333.6	20900.5	21030.3	16766.6
60°	5157.8	5263.6	6508.6	8229.5	9402.4	10897.3	15497.5	20554.4	24289.4	24140.4	18569.2
62.5°	3816.7	3874.4	4773.3	5893.3	7450.7	8878.4	14348.7	22073.4	26995.7	26692.9	19573.8
65°	2951.5	2970.7	3437.0	4033.0	5417.4	6902.8	12637.4	22304.2	28490.7	28168.6	19554.6
66°	2629.4	2643.8	2985.1	3446.6	4609.8	6042.3	11887.5	21934.0	28726.2	28384.9	19314.2
67.5°	2206.4	2196.8	2398.7	2701.5	3461.0	4662.7	10556.0	20852.5	28447.4	28274.4	18545.1
70°	1634.4	1639.2	1740.1	1812.2	2023.7	2581.3	7623.8	18088.5	26217.0	26207.4	16434.9
72.5°	1211.3	1225.8	1302.7	1317.1	1264.2	1398.8	4393.5	14387.1	20972.6	20977.4	12286.5
75°	908.5	932.5	956.6	966.2	918.1	884.5	1985.3	9681.2	13795.9	13694.9	6955.6
77.5°	692.2	701.8	721.0	706.6	697.0	610.5	826.8	4720.4	6811.4	6205.7	2254.5
80°	504.7	504.7	524.0	504.7	499.9	437.4	451.9	1514.2	1999.7	1663.2	485.5
82.5°	317.3	312.5	326.9	322.1	312.5	278.8	264.4	423.0	461.5	413.4	235.5
85°	177.9	173.0	168.2	163.4	149.0	125.0	144.2	158.6	211.5	216.3	168.2
87.5°	62.5	62.5	57.7	52.9	43.3	43.3	52.9	52.9	76.9	76.9	86.5
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°	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6	2922.6
2.5°	2941.8	2889.0	2812.1	2711.1	2639.0	2566.9	2490.0	2446.7	2384.2	2369.8	2389.0
5°	2994.7	2898.6	2706.3	2494.8	2312.1	2148.7	1994.9	1903.5	1812.2	1778.6	1793.0
7.5°	3105.3	2941.8	2615.0	2273.7	1970.8	1725.7	1543.0	1437.3	1355.6	1321.9	1331.5
10°	3268.7	3018.8	2528.4	2023.7	1634.4	1374.8	1221.0	1153.7	1105.6	1086.4	1091.2
12.5°	3465.8	3129.3	2417.9	1773.8	1345.9	1120.0	1047.9	1033.5	1023.9	1014.3	1019.1
15°	3686.9	3225.5	2288.1	1528.6	1120.0	995.0	971.0	966.2	961.4	961.4	961.4
17.5°	3917.6	3312.0	2143.9	1297.9	975.8	918.1	903.7	903.7	903.7	908.5	908.5
20°	4134.0	3379.3	1975.6	1091.2	894.1	846.0	836.4	836.4	841.2	846.0	846.0
22.5°	4345.5	3408.1	1778.6	947.0	826.8	783.5	769.1	769.1	769.1	773.9	773.9
25°	4528.1	3408.1	1581.5	855.6	769.1	725.8	706.6	701.8	706.6	706.6	706.6
27.5°	4681.9	3393.7	1389.2	793.1	711.4	668.2	648.9	644.1	653.7	658.5	658.5
30°	4845.4	3374.5	1235.4	735.5	663.4	620.1	600.9	600.9	615.3	634.5	634.5
32.5°	5004.0	3388.9	1115.2	687.4	615.3	581.6	562.4	567.2	596.1	624.9	624.9
35°	5172.3	3417.7	1043.1	653.7	581.6	548.0	533.6	548.0	576.8	605.7	605.7
37.5°	5340.5	3451.4	999.8	624.9	552.8	519.1	509.5	528.8	562.4	591.3	596.1
40°	5518.4	3480.2	951.8	596.1	533.6	495.1	490.3	509.5	552.8	581.6	586.4
42.5°	5739.5	3537.9	894.1	572.0	514.3	466.3	471.1	485.5	528.8	572.0	576.8
45°	6172.1	3720.6	836.4	548.0	490.3	451.9	442.2	451.9	499.9	548.0	557.6
47.5°	6984.5	4134.0	773.9	524.0	466.3	442.2	403.8	413.4	456.7	509.5	514.3
50°	8541.9	5013.6	740.3	499.9	447.0	408.6	365.3	365.3	399.0	447.0	447.0
52.5°	10969.4	6590.3	759.5	480.7	423.0	374.9	331.7	326.9	346.1	379.7	379.7
55°	13589.2	8320.8	831.6	461.5	394.2	355.7	307.6	283.6	298.0	317.3	317.3
57.5°	15665.8	9190.9	1028.7	451.9	360.5	341.3	278.8	245.2	259.6	278.8	278.8
60°	16579.1	8681.3	1249.8	461.5	336.5	317.3	250.0	216.3	240.3	259.6	264.4
62.5°	15838.8	7147.9	1341.1	437.4	302.8	283.6	245.2	201.9	230.7	245.2	250.0
65°	14238.1	5431.8	1047.9	379.7	278.8	245.2	221.1	192.3	216.3	230.7	230.7
66°	13478.6	4734.8	894.1	350.9	269.2	230.7	211.5	192.3	211.5	221.1	225.9
67.5°	12300.9	3735.0	663.4	307.6	250.0	211.5	197.1	182.7	201.9	211.5	211.5
70°	9618.7	2225.6	399.0	240.3	216.3	187.5	177.9	168.2	182.7	187.5	187.5
72.5°	6023.1	1057.5	254.8	177.9	182.7	177.9	149.0	158.6	163.4	168.2	168.2
75°	2917.8	418.2	173.0	129.8	149.0	168.2	120.2	139.4	144.2	153.8	149.0
77.5°	812.4	201.9	110.6	96.1	129.8	129.8	91.3	110.6	129.8	163.4	149.0
80°	235.5	129.8	72.1	72.1	91.3	91.3	62.5	76.9	86.5	96.1	100.9
82.5°	163.4	86.5	48.1	52.9	52.9	57.7	38.5	38.5	48.1	48.1	52.9
85°	129.8	38.5	28.8	33.6	24.0	28.8	19.2	19.2	24.0	19.2	19.2
87.5°	52.9	19.2	19.2	19.2	14.4	14.4	9.6	4.8	4.8	4.8	4.8
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)