

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: P1211336

Luminaire Tested: **ARCH4-240-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211336
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: ARCH4-240-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 940mA 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: 26062 lumens
Efficiency: N/A
Efficacy: 108.5 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

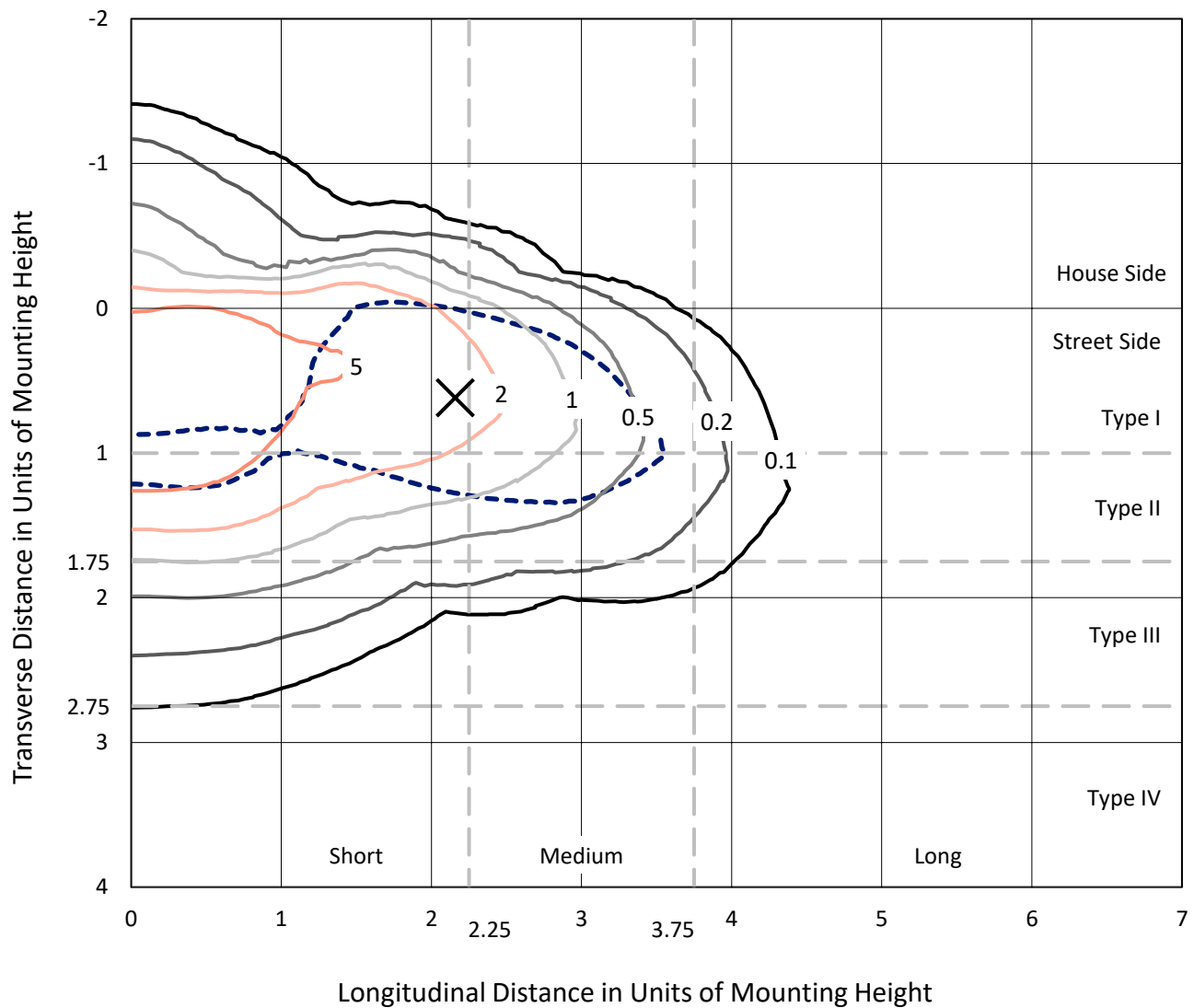
Input Watts (W): 240.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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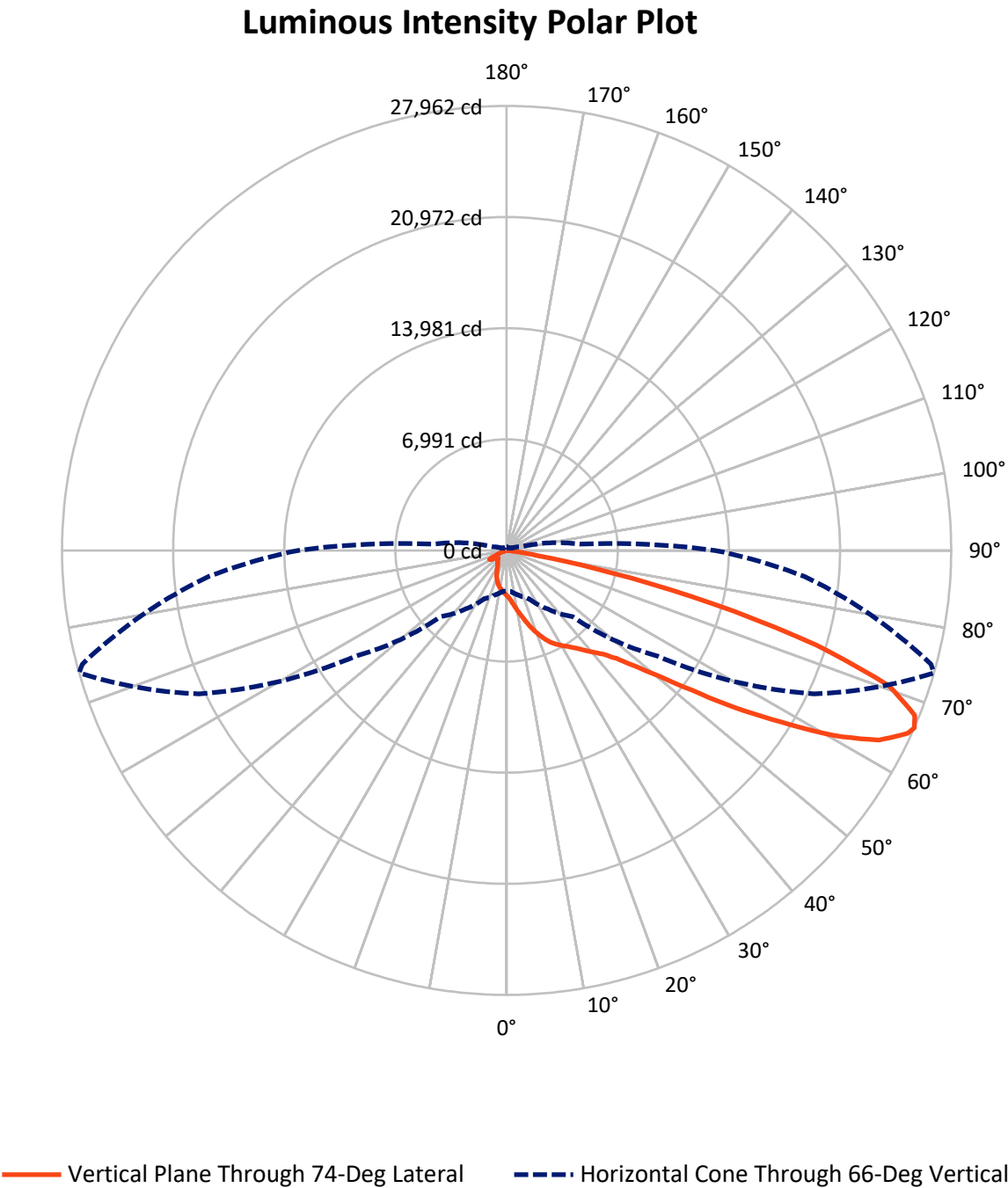
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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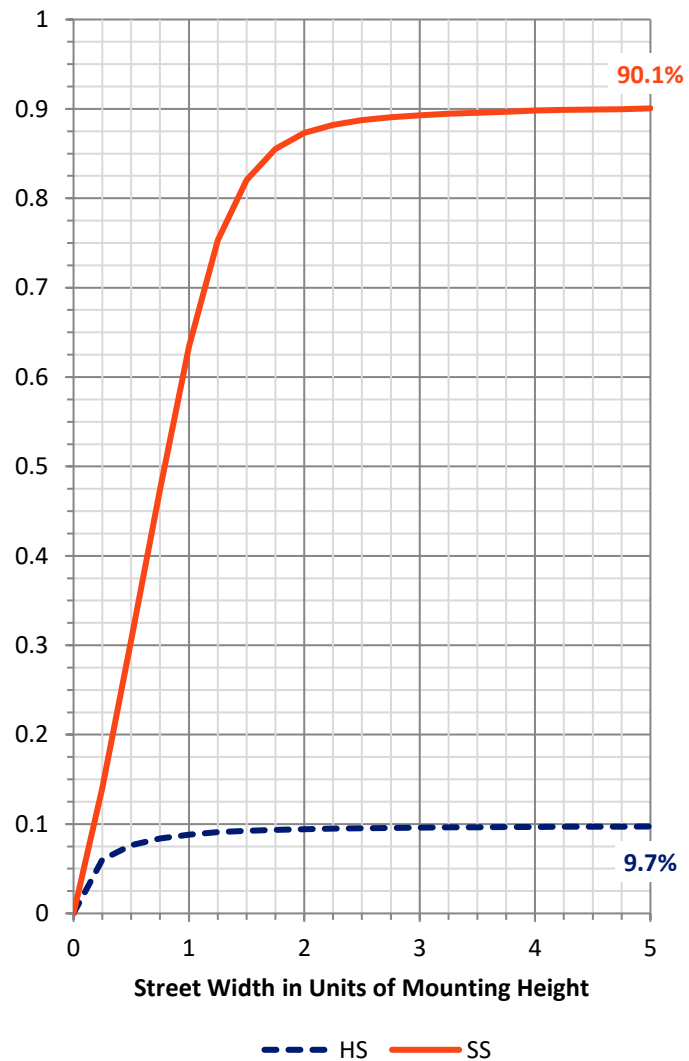
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2554.9	0.0	2554.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	23507.1	0.0	23507.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	26062.0	0.0	26062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	1.1
10°-20°	890.2	3.4
20°-30°	1698.9	6.5
30°-40°	2977.7	11.4
40°-50°	5106.0	19.6
50°-60°	6640.8	25.5
60°-70°	6011.5	23.1
70°-80°	2319.6	8.9
80°-90°	139.6	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°	26062.0	100.0
0°-180°	26062.0	100.0

Coefficient of Utilization



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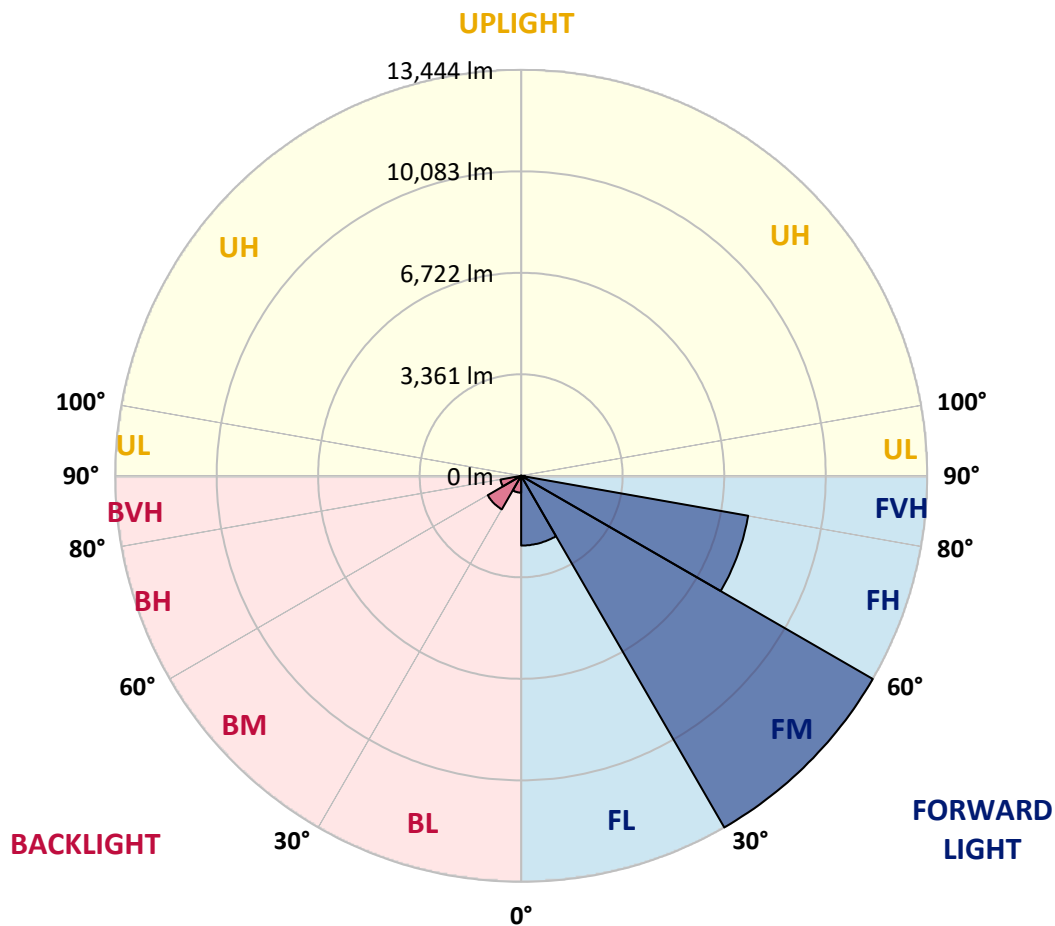
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2309.5	8.9			
FM	(30°-60°)	13444.1	51.6			
FH	(60°-80°)	7632.7	29.3			G4/12000
FVH	(80°-90°)	120.9	0.5			G2/225
BL	(0°-30°)	557.3	2.1	B2/1000		
BM	(30°-60°)	1280.4	4.9	B2/2500		
BH	(60°-80°)	698.5	2.7	B2/1000		G2/1000
BVH	(80°-90°)	18.7	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°	2844.9	2844.9	2844.9	2844.9	2844.9	2844.9	2844.9	2844.9	2844.9	2844.9	2844.9
2.5°	3415.7	3387.7	3336.2	3331.5	3289.4	3237.9	3149.0	3055.5	2989.9	2980.6	2901.0
5°	4089.5	4075.5	4024.0	3991.3	3911.7	3790.1	3584.2	3378.3	3205.2	3186.5	3008.7
7.5°	4267.3	4276.7	4286.1	4318.8	4290.7	4234.6	4080.2	3790.1	3518.7	3476.6	3167.8
10°	4295.4	4286.1	4286.1	4328.2	4407.7	4487.3	4468.5	4220.5	3869.6	3818.1	3387.7
12.5°	4599.6	4613.6	4580.8	4562.1	4548.1	4590.2	4730.6	4623.0	4239.3	4197.2	3654.4
15°	4992.6	4987.9	4941.1	4941.1	4899.0	4828.8	4917.7	4997.3	4683.8	4632.3	3958.5
17.5°	5278.0	5296.7	5292.1	5320.1	5306.1	5212.5	5165.7	5329.5	5142.3	5076.8	4304.8
20°	5507.3	5558.8	5577.5	5666.4	5708.5	5643.0	5521.3	5624.3	5582.2	5521.3	4655.7
22.5°	5750.6	5792.7	5825.5	5979.9	6096.9	6082.8	5928.4	5905.0	6008.0	5951.8	5002.0
25°	5993.9	6012.6	6110.9	6298.1	6485.2	6532.0	6372.9	6190.4	6391.7	6340.2	5310.8
27.5°	6260.6	6270.0	6387.0	6616.2	6878.3	6976.5	6850.2	6513.3	6686.4	6686.4	5591.5
30°	6747.3	6840.8	6887.6	7093.5	7322.8	7458.5	7308.8	6854.9	6948.5	6990.6	5886.3
32.5°	7795.4	7809.4	7795.4	7884.3	7931.1	8010.6	7837.5	7238.6	7215.2	7262.0	6176.4
35°	9395.6	9339.5	9189.8	9058.7	8787.3	8637.6	8413.0	7729.9	7542.7	7608.2	6461.8
37.5°	11337.5	11257.9	10916.3	10513.9	9933.7	9334.8	9054.1	8328.8	7959.1	8043.4	6770.7
40°	13190.4	13138.9	12731.8	12235.8	11243.9	10219.2	9624.9	8834.1	8422.4	8455.1	7084.2
42.5°	14715.8	14706.4	14364.8	13845.5	12572.7	11173.7	10298.7	9330.1	8909.0	8960.5	7411.7
45°	15871.5	15782.6	15529.9	15155.6	13859.5	12165.7	11112.9	10083.5	9690.4	9751.2	7903.0
47.5°	15871.5	15885.5	16049.3	16011.9	14757.9	13096.8	12001.9	11033.3	10846.2	10902.3	8712.5
50°	14580.1	14711.1	15441.0	16054.0	15225.8	13822.1	12961.1	12221.8	12413.7	12497.9	10125.6
52.5°	12025.3	12245.2	13513.2	14912.3	14879.5	14187.0	13953.1	13733.2	14594.1	14743.8	12212.5
55°	9138.3	9283.3	10935.1	12773.9	13372.9	13887.6	14818.7	15651.6	17481.1	17448.4	14332.1
57.5°	6826.8	6962.5	8384.9	10425.0	11215.8	12591.5	15263.2	17846.1	20344.7	20471.1	16320.7
60°	5020.7	5123.6	6335.5	8010.6	9152.3	10607.5	15085.4	20007.8	23643.5	23498.4	18075.4
62.5°	3715.2	3771.4	4646.3	5736.6	7252.6	8642.3	13967.1	21486.4	26277.8	25983.0	19053.3
65°	2873.0	2891.7	3345.6	3925.8	5273.3	6719.2	12301.4	21711.0	27733.0	27419.5	19034.6
66°	2559.5	2573.5	2905.7	3354.9	4487.3	5881.6	11571.4	21350.7	27962.3	27630.1	18800.6
67.5°	2147.7	2138.3	2334.9	2629.7	3369.0	4538.7	10275.3	20297.9	27690.9	27522.5	18052.0
70°	1590.9	1595.6	1693.8	1764.0	1969.9	2512.7	7421.1	17607.5	25519.8	25510.5	15997.8
72.5°	1179.1	1193.2	1268.0	1282.1	1230.6	1361.6	4276.7	14004.5	20414.9	20419.6	11959.8
75°	884.3	907.7	931.1	940.5	893.7	861.0	1932.5	9423.7	13429.0	13330.8	6770.7
77.5°	673.8	683.1	701.9	687.8	678.5	594.2	804.8	4594.9	6630.3	6040.7	2194.5
80°	491.3	491.3	510.0	491.3	486.6	425.8	439.8	1473.9	1946.5	1619.0	472.6
82.5°	308.8	304.1	318.2	313.5	304.1	271.4	257.4	411.8	449.2	402.4	229.3
85°	173.1	168.4	163.8	159.1	145.1	121.7	140.4	154.4	205.9	210.6	163.8
87.5°	60.8	60.8	56.1	51.5	42.1	42.1	51.5	51.5	74.9	74.9	84.2
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°	2844.9	2844.9	2844.9	2844.9	2844.9	2844.9	2844.9	2844.9	2844.9	2844.9	2844.9
2.5°	2863.6	2812.1	2737.3	2639.0	2568.8	2498.6	2423.8	2381.7	2320.8	2306.8	2325.5
5°	2915.1	2821.5	2634.3	2428.5	2250.6	2091.6	1941.8	1852.9	1764.0	1731.3	1745.3
7.5°	3022.7	2863.6	2545.4	2213.2	1918.4	1679.8	1502.0	1399.1	1319.5	1286.8	1296.1
10°	3181.8	2938.5	2461.2	1969.9	1590.9	1338.2	1188.5	1123.0	1076.2	1057.5	1062.2
12.5°	3373.6	3046.1	2353.6	1726.6	1310.1	1090.2	1020.0	1006.0	996.6	987.3	992.0
15°	3588.9	3139.7	2227.3	1488.0	1090.2	968.6	945.2	940.5	935.8	935.8	935.8
17.5°	3813.5	3223.9	2086.9	1263.4	949.9	893.7	879.7	879.7	879.7	884.3	884.3
20°	4024.0	3289.4	1923.1	1062.2	870.3	823.5	814.2	814.2	818.8	823.5	823.5
22.5°	4229.9	3317.5	1731.3	921.8	804.8	762.7	748.7	748.7	748.7	753.3	753.3
25°	4407.7	3317.5	1539.4	832.9	748.7	706.5	687.8	683.1	687.8	687.8	687.8
27.5°	4557.4	3303.4	1352.3	772.1	692.5	650.4	631.7	627.0	636.4	641.0	641.0
30°	4716.5	3284.7	1202.5	715.9	645.7	603.6	584.9	584.9	598.9	617.6	617.6
32.5°	4870.9	3298.8	1085.6	669.1	598.9	566.2	547.5	552.1	580.2	608.3	608.3
35°	5034.7	3326.8	1015.4	636.4	566.2	533.4	519.4	533.4	561.5	589.6	589.6
37.5°	5198.5	3359.6	973.3	608.3	538.1	505.3	496.0	514.7	547.5	575.5	580.2
40°	5371.6	3387.7	926.5	580.2	519.4	481.9	477.3	496.0	538.1	566.2	570.9
42.5°	5586.8	3443.8	870.3	556.8	500.7	453.9	458.6	472.6	514.7	556.8	561.5
45°	6008.0	3621.6	814.2	533.4	477.3	439.8	430.5	439.8	486.6	533.4	542.8
47.5°	6798.7	4024.0	753.3	510.0	453.9	430.5	393.0	402.4	444.5	496.0	500.7
50°	8314.8	4880.3	720.6	486.6	435.2	397.7	355.6	355.6	388.4	435.2	435.2
52.5°	10677.7	6415.0	739.3	467.9	411.8	365.0	322.9	318.2	336.9	369.6	369.6
55°	13227.8	8099.5	809.5	449.2	383.7	346.3	299.5	276.1	290.1	308.8	308.8
57.5°	15249.2	8946.4	1001.3	439.8	350.9	332.2	271.4	238.6	252.7	271.4	271.4
60°	16138.2	8450.5	1216.6	449.2	327.5	308.8	243.3	210.6	234.0	252.7	257.4
62.5°	15417.6	6957.8	1305.5	425.8	294.8	276.1	238.6	196.5	224.6	238.6	243.3
65°	13859.5	5287.4	1020.0	369.6	271.4	238.6	215.2	187.2	210.6	224.6	224.6
66°	13120.2	4608.9	870.3	341.6	262.0	224.6	205.9	187.2	205.9	215.2	219.9
67.5°	11973.8	3635.7	645.7	299.5	243.3	205.9	191.8	177.8	196.5	205.9	205.9
70°	9362.9	2166.4	388.4	234.0	210.6	182.5	173.1	163.8	177.8	182.5	182.5
72.5°	5862.9	1029.4	248.0	173.1	177.8	173.1	145.1	154.4	159.1	163.8	163.8
75°	2840.2	407.1	168.4	126.3	145.1	163.8	117.0	135.7	140.4	149.7	145.1
77.5°	790.8	196.5	107.6	93.6	126.3	126.3	88.9	107.6	126.3	159.1	145.1
80°	229.3	126.3	70.2	70.2	88.9	88.9	60.8	74.9	84.2	93.6	98.3
82.5°	159.1	84.2	46.8	51.5	51.5	56.1	37.4	37.4	46.8	46.8	51.5
85°	126.3	37.4	28.1	32.8	23.4	28.1	18.7	18.7	23.4	18.7	18.7
87.5°	51.5	18.7	18.7	18.7	14.0	14.0	9.4	4.7	4.7	4.7	4.7
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)