

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: P1211338

Luminaire Tested: **ARCH4-240-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211338
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: ARCH4-240-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 940mA 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: 25786 lumens
Efficiency: N/A
Efficacy: 107.4 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): 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



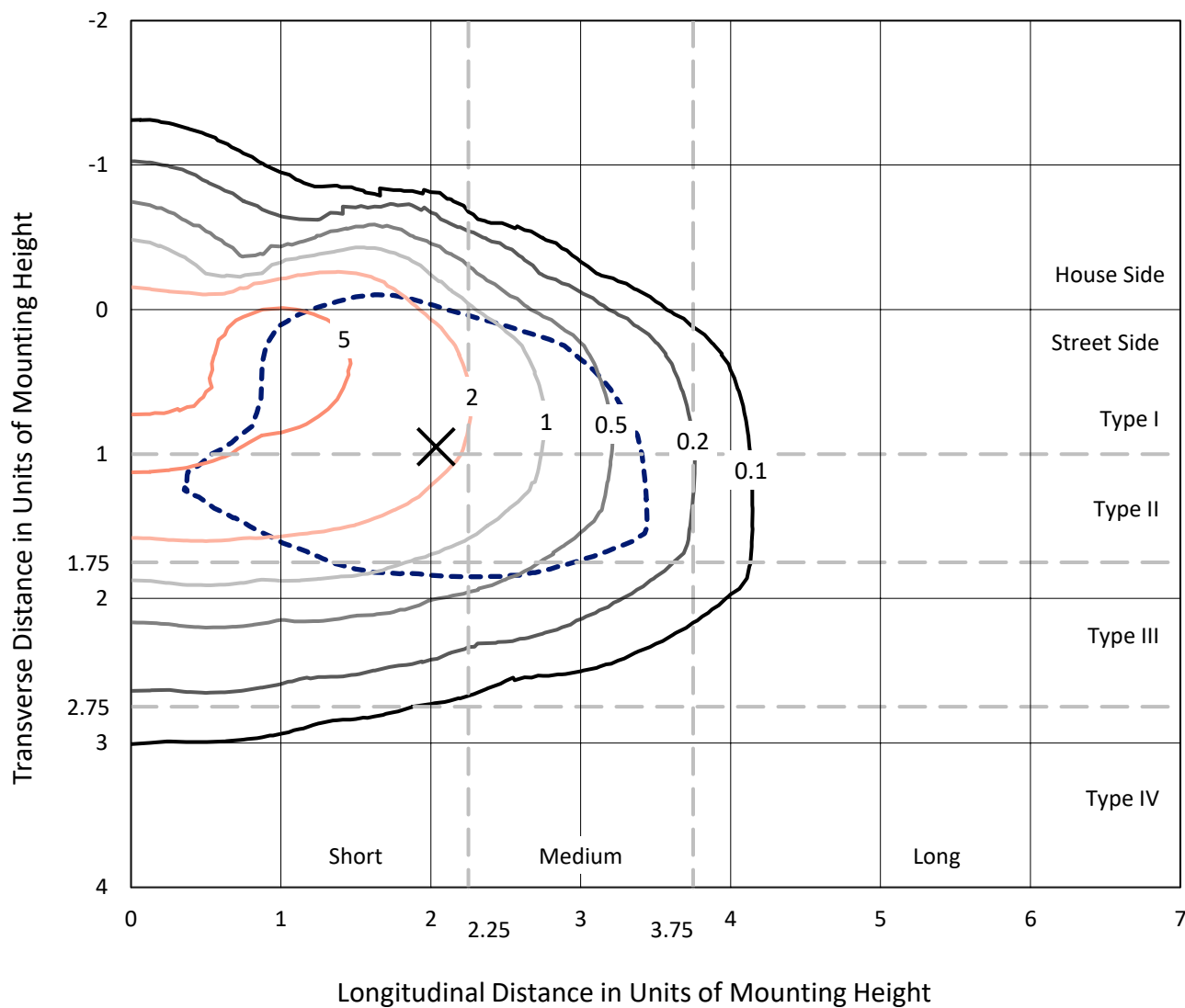
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Iso-Footcandle Lines of Horizontal Illumination

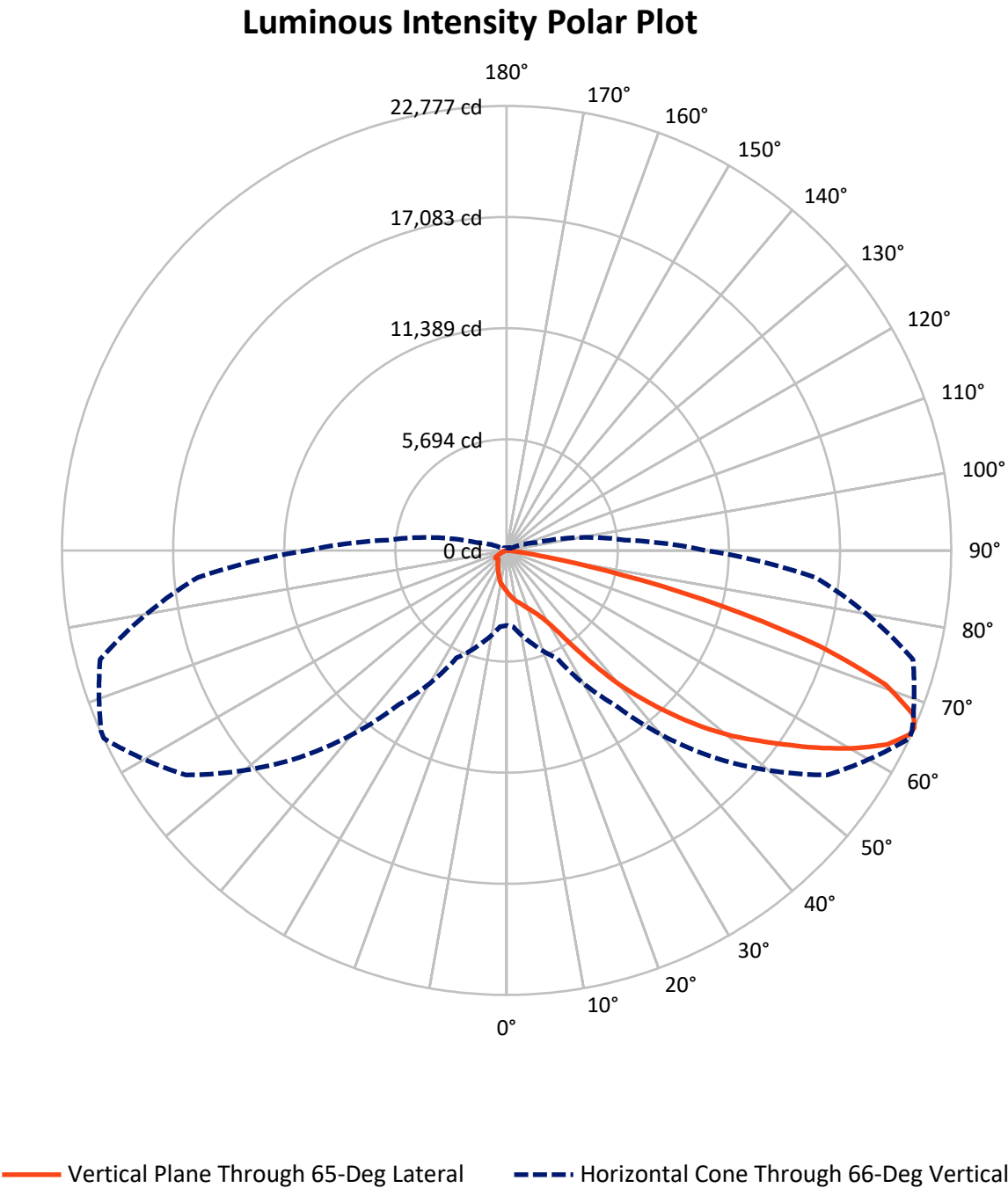
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type III - Short - N/A

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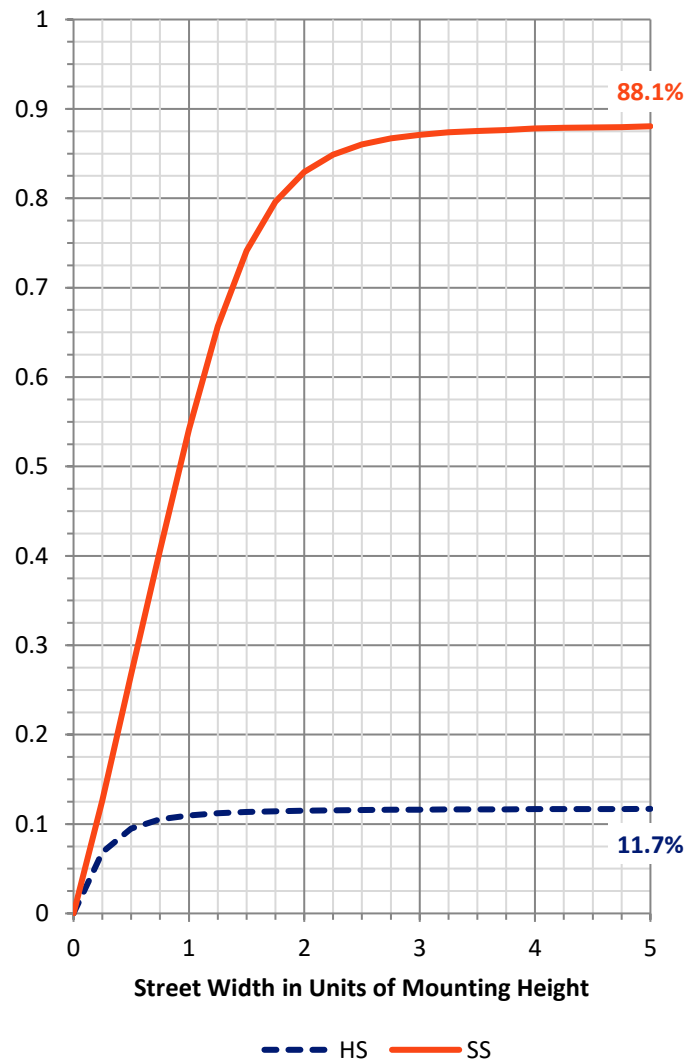
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3043.3	0.0	3043.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	22742.7	0.0	22742.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	25786.0	0.0	25786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	0.8
10°-20°	589.6	2.3
20°-30°	1079.1	4.2
30°-40°	2192.7	8.5
40°-50°	4630.5	18.0
50°-60°	7118.5	27.6
60°-70°	7165.3	27.8
70°-80°	2677.3	10.4
80°-90°	133.7	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°	25786.0	100.0
0°-180°	25786.0	100.0

Coefficient of Utilization



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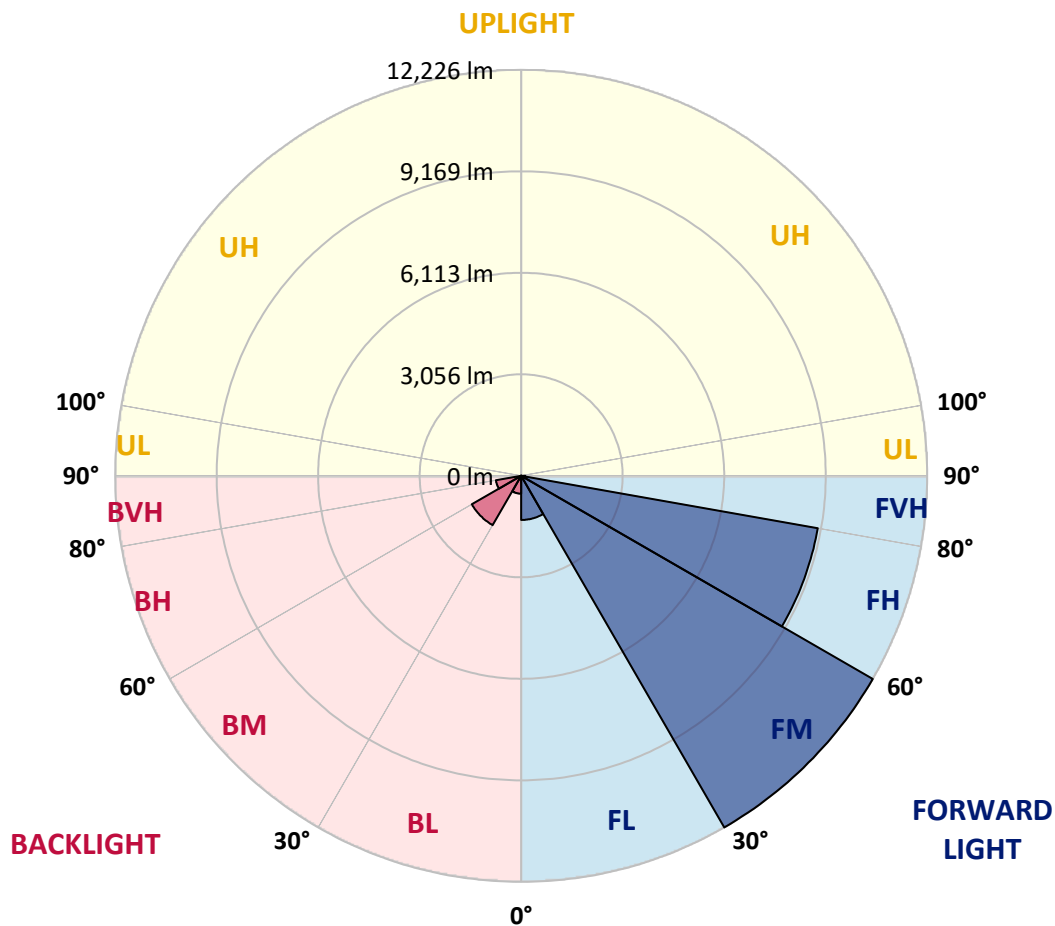
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1329.2	5.2			
FM	(30°-60°)	12225.9	47.4			
FH	(60°-80°)	9069.6	35.2			G4/12000
FVH	(80°-90°)	118.0	0.5			G2/225
BL	(0°-30°)	538.6	2.1	B2/1000		
BM	(30°-60°)	1715.8	6.7	B2/2500		
BH	(60°-80°)	773.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	15.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2100.8	2100.8	2100.8	2100.8	2100.8	2100.8	2100.8	2100.8	2100.8	2100.8	2100.8
2.5°	2395.6	2400.3	2390.9	2372.2	2353.5	2330.1	2292.7	2231.8	2222.5	2180.4	2133.6
5°	2559.4	2568.7	2554.7	2550.0	2540.7	2507.9	2456.4	2367.5	2358.2	2274.0	2166.3
7.5°	2615.5	2629.6	2620.2	2620.2	2620.2	2606.2	2582.8	2503.2	2489.2	2381.6	2217.8
10°	2657.6	2667.0	2662.3	2681.0	2695.1	2685.7	2671.7	2624.9	2610.8	2503.2	2288.0
12.5°	2723.1	2727.8	2732.5	2741.8	2765.2	2774.6	2769.9	2727.8	2718.5	2643.6	2376.9
15°	2784.0	2784.0	2788.6	2830.7	2863.5	2882.2	2886.9	2854.1	2844.8	2784.0	2489.2
17.5°	2840.1	2844.8	2858.8	2905.6	2961.8	2999.2	3022.6	3008.5	2994.5	2947.7	2620.2
20°	2924.3	2933.7	2947.7	3013.2	3069.4	3130.2	3177.0	3172.3	3167.6	3134.9	2774.6
22.5°	3069.4	3078.7	3102.1	3162.9	3219.1	3294.0	3373.5	3368.8	3354.8	3331.4	2957.1
25°	3289.3	3289.3	3303.3	3354.8	3425.0	3513.9	3588.7	3602.8	3588.7	3574.7	3186.3
27.5°	3565.3	3570.0	3570.0	3626.2	3691.7	3804.0	3897.5	3911.6	3911.6	3897.5	3495.2
30°	3949.0	3935.0	3925.6	3972.4	4042.6	4206.3	4370.1	4398.2	4384.1	4407.5	3930.3
32.5°	4608.7	4585.3	4505.8	4515.2	4557.3	4781.9	5057.9	5156.2	5151.5	5193.6	4632.1
35°	5521.1	5474.3	5357.4	5259.1	5254.4	5497.7	5918.8	6288.5	6283.8	6428.8	5698.9
37.5°	6550.5	6611.3	6391.4	6223.0	6171.5	6363.3	6906.1	7706.2	7748.3	8000.9	7097.9
40°	7926.1	7963.5	7682.8	7444.2	7200.9	7271.0	7986.9	9231.5	9306.4	9587.1	8496.9
42.5°	9123.9	9161.3	8997.6	8707.5	8398.7	8267.6	9077.1	10616.5	10677.3	11065.6	9938.0
45°	9938.0	9966.1	10022.2	10050.3	9699.4	9428.0	10410.6	12038.9	12113.7	12562.9	11346.4
47.5°	10574.4	10597.7	10710.0	10990.8	10920.6	10705.4	11767.5	13517.4	13536.1	14036.7	12717.3
50°	10869.1	10925.3	11201.3	11631.8	11940.6	12001.4	13241.3	14916.4	14967.9	15445.1	14013.4
52.5°	10541.6	10560.3	11257.5	12066.9	12689.2	13306.8	14719.9	16212.4	16362.2	16717.8	15178.4
55°	9437.4	9573.1	10630.5	12052.9	13278.8	14546.8	16301.3	17611.4	17747.1	17971.7	16203.1
57.5°	8155.4	8305.1	9591.8	11449.3	13531.4	15693.1	17765.8	19099.3	19192.9	19253.7	17143.5
60°	7046.4	7186.8	8510.9	10293.6	13278.8	16502.5	19127.4	20577.9	20657.4	20493.7	17616.1
62.5°	5684.9	5825.3	7158.7	8763.6	12286.8	16666.3	20138.1	21892.7	21925.4	21480.9	17326.0
65°	4285.9	4379.5	5493.0	6868.6	10551.0	15796.0	20367.3	22711.5	22678.7	21766.3	16455.7
66°	3841.4	3920.9	4903.5	6073.2	9647.9	15000.6	20058.5	22777.0	22744.2	21555.8	15884.9
67.5°	3312.7	3336.1	4145.5	4969.0	8071.1	13311.5	19118.1	22477.5	22505.6	20975.6	14841.5
70°	2587.4	2582.8	3050.7	3457.7	5511.8	9470.1	15945.7	20591.9	20727.6	18785.8	12656.5
72.5°	1656.3	1600.2	1871.6	2114.9	3209.7	5497.7	11627.1	16783.3	17012.5	14757.3	9428.0
75°	987.3	931.1	996.6	1057.4	1539.4	2643.6	6835.9	11421.2	11641.1	9460.8	5610.0
77.5°	739.3	715.9	720.6	669.1	683.1	991.9	3120.8	6035.8	6194.9	3874.1	2128.9
80°	566.1	505.3	472.6	496.0	449.2	393.0	1160.4	2077.4	2175.7	917.1	444.5
82.5°	379.0	327.5	304.1	332.2	285.4	219.9	280.7	402.4	393.0	248.0	173.1
85°	196.5	168.4	168.4	168.4	145.0	107.6	121.7	163.8	163.8	131.0	102.9
87.5°	56.1	51.5	60.8	56.1	42.1	42.1	46.8	56.1	56.1	51.5	46.8
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°	2100.8	2100.8	2100.8	2100.8	2100.8	2100.8	2100.8	2100.8	2100.8	2100.8	2100.8
2.5°	2096.2	2077.4	2026.0	1988.5	1951.1	1918.4	1880.9	1871.6	1852.9	1857.5	1848.2
5°	2110.2	2058.7	1969.8	1885.6	1820.1	1764.0	1693.8	1665.7	1628.3	1614.2	1604.9
7.5°	2128.9	2054.0	1923.0	1806.1	1693.8	1581.5	1469.2	1403.7	1361.6	1342.8	1328.8
10°	2171.0	2072.8	1899.6	1717.2	1525.3	1366.2	1253.9	1207.2	1179.1	1174.4	1169.7
12.5°	2227.2	2100.8	1876.2	1604.9	1352.2	1202.5	1132.3	1118.3	1113.6	1113.6	1108.9
15°	2311.4	2147.6	1838.8	1473.9	1216.5	1113.6	1080.8	1057.4	1048.1	1048.1	1048.1
17.5°	2395.6	2203.8	1782.7	1338.2	1122.9	1057.4	1024.7	1010.6	1001.3	1006.0	1001.3
20°	2503.2	2269.3	1707.8	1221.2	1062.1	1010.6	977.9	963.9	959.2	959.2	959.2
22.5°	2624.9	2344.1	1614.2	1132.3	1010.6	963.9	931.1	917.1	907.7	912.4	912.4
25°	2788.6	2437.7	1516.0	1043.4	959.2	917.1	879.6	860.9	860.9	865.6	870.3
27.5°	2999.2	2550.0	1417.7	987.3	912.4	870.3	828.2	809.5	814.1	823.5	823.5
30°	3308.0	2704.4	1319.5	926.4	860.9	814.1	776.7	758.0	767.3	786.1	786.1
32.5°	3747.8	2957.1	1235.2	856.2	786.1	734.6	697.2	683.1	706.5	743.9	743.9
35°	4533.9	3420.3	1183.8	786.1	706.5	645.7	598.9	584.9	617.6	664.4	664.4
37.5°	5586.6	4164.2	1202.5	725.2	641.0	570.8	519.4	500.6	524.0	566.1	580.2
40°	6761.0	5062.6	1366.2	673.8	580.2	510.0	458.5	439.8	453.9	472.6	477.2
42.5°	7935.4	6017.1	1675.1	636.3	533.4	458.5	411.7	397.7	407.1	411.7	416.4
45°	9105.2	6962.2	2063.4	612.9	491.3	416.4	369.6	369.6	374.3	374.3	374.3
47.5°	10214.1	7884.0	2470.5	608.3	453.9	374.3	336.9	341.6	341.6	346.2	346.2
50°	11262.2	8707.5	2882.2	622.3	421.1	336.9	308.8	308.8	308.8	313.5	308.8
52.5°	12137.1	9428.0	3312.7	645.7	388.4	308.8	280.7	280.7	280.7	285.4	280.7
55°	12965.3	10083.1	3752.5	678.4	360.3	285.4	257.3	248.0	248.0	252.7	248.0
57.5°	13639.0	10518.2	4168.9	683.1	336.9	262.0	238.6	224.6	224.6	224.6	224.6
60°	13667.1	10265.5	4290.6	598.9	308.8	238.6	215.2	196.5	201.2	201.2	201.2
62.5°	12773.4	8936.7	3448.4	449.2	276.1	215.2	196.5	177.8	177.8	177.8	177.8
65°	11018.8	6952.9	2021.3	355.6	238.6	191.8	173.1	159.1	159.1	159.1	154.4
66°	10195.4	6096.6	1548.7	322.8	224.6	187.2	168.4	154.4	149.7	145.0	145.0
67.5°	8852.5	4819.3	968.5	285.4	205.9	173.1	154.4	140.4	135.7	131.0	131.0
70°	6667.5	3060.0	472.6	219.9	177.8	149.7	135.7	121.7	117.0	112.3	107.6
72.5°	4678.9	1792.0	248.0	168.4	145.0	131.0	117.0	102.9	98.3	93.6	93.6
75°	2643.6	865.6	163.8	121.7	117.0	107.6	98.3	84.2	79.5	79.5	79.5
77.5°	1001.3	299.5	112.3	88.9	93.6	84.2	70.2	70.2	65.5	70.2	65.5
80°	262.0	131.0	70.2	65.5	70.2	60.8	51.5	56.1	56.1	56.1	56.1
82.5°	140.4	74.9	42.1	46.8	42.1	42.1	32.8	37.4	42.1	37.4	42.1
85°	98.3	37.4	23.4	23.4	18.7	18.7	14.0	18.7	23.4	18.7	18.7
87.5°	51.5	14.0	14.0	14.0	14.0	9.4	4.7	0.0	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)