

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: P1211368

Luminaire Tested: **ARCH4-250-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211368
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: ARCH4-250-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 975mA 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: 26818 lumens
Efficiency: N/A
Efficacy: 107.5 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): 249.5
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



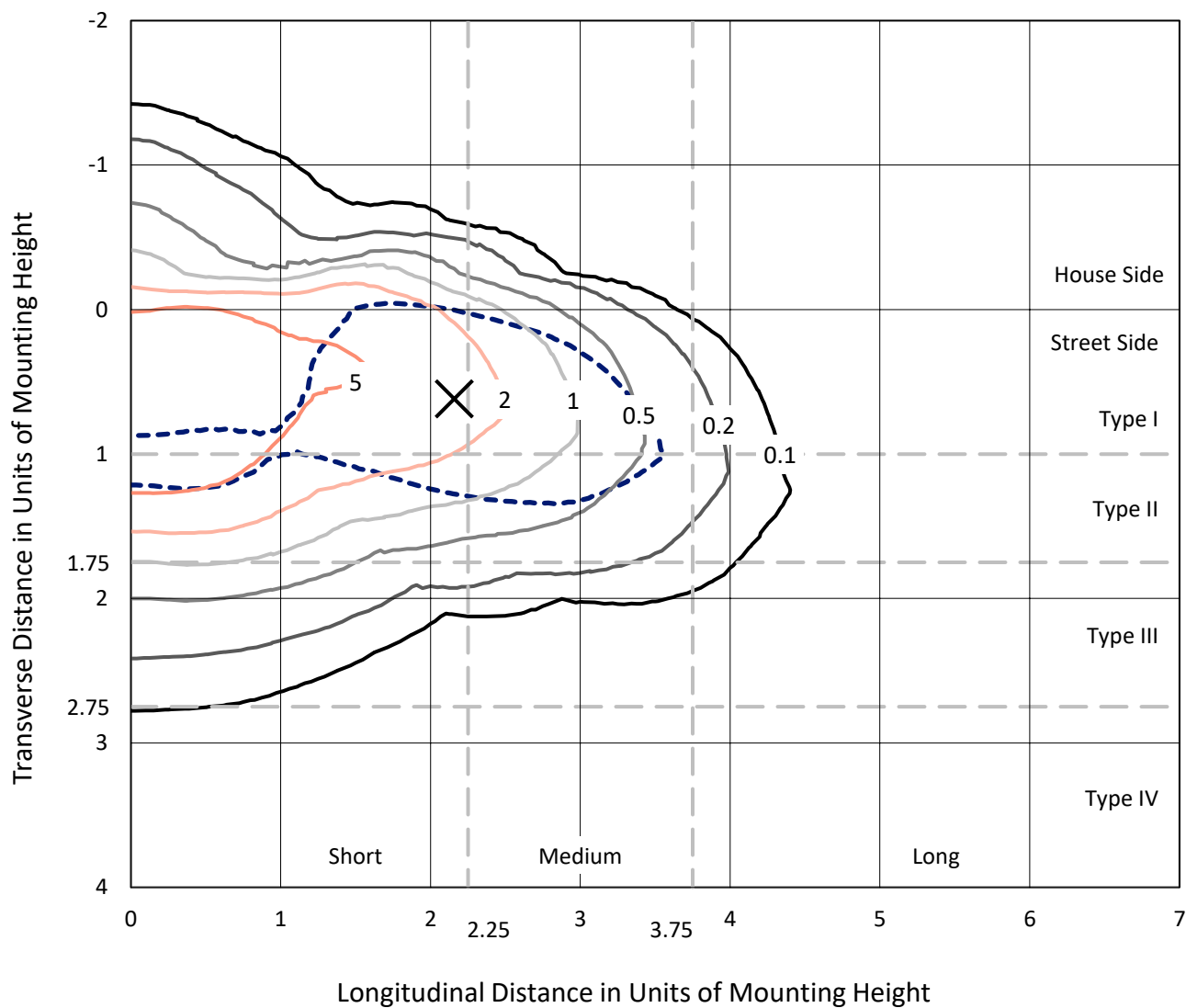
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

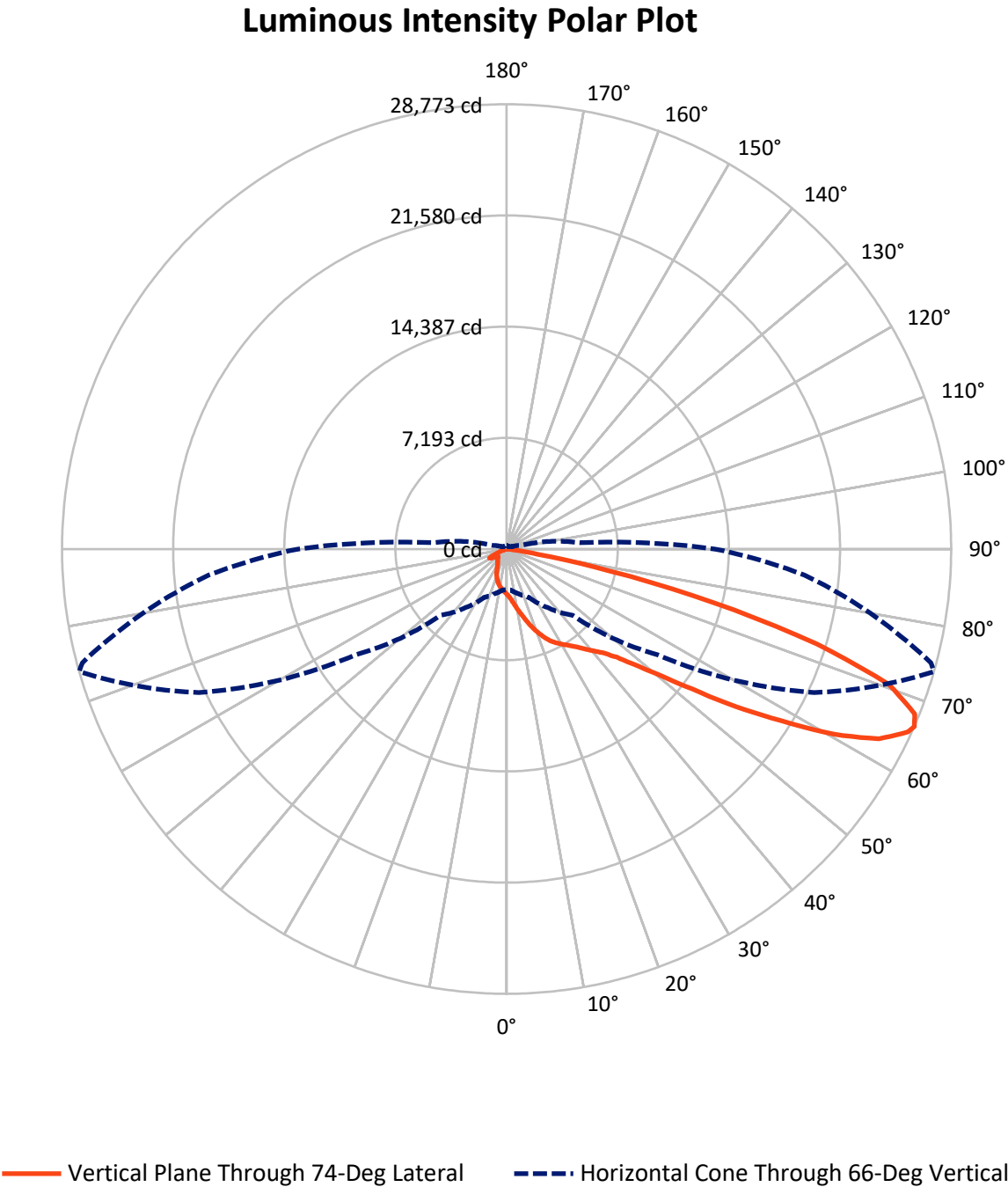
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc

Type II - Short - N/A

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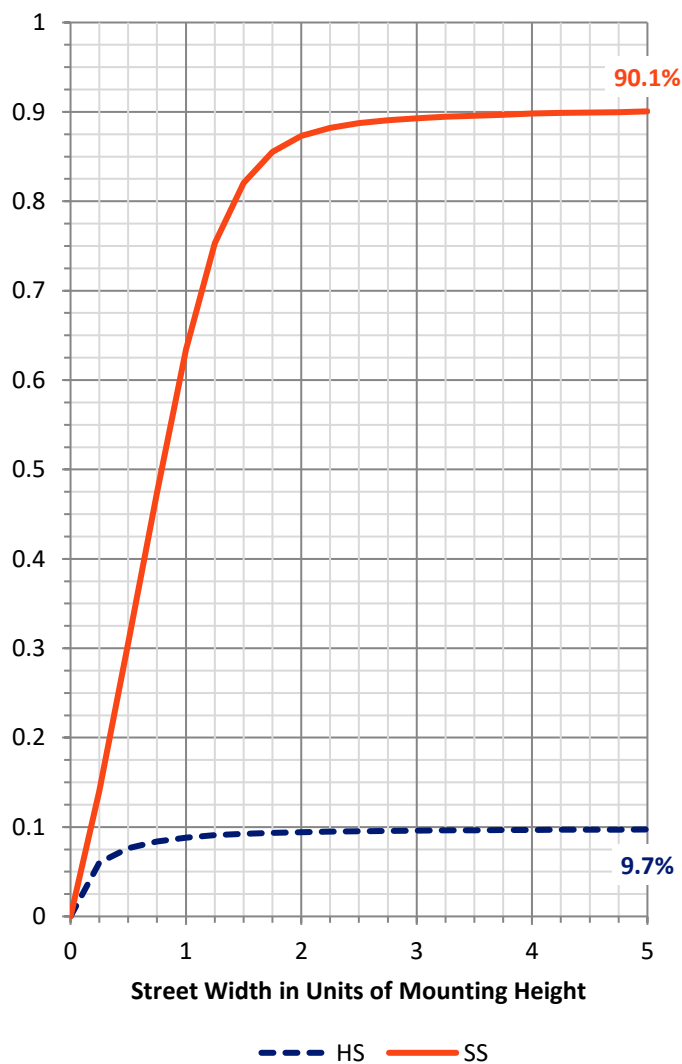
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2629.0	0.0	2629.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	24189.0	0.0	24189.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	26818.0	0.0	26818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.7	1.1
10°-20°	916.0	3.4
20°-30°	1748.2	6.5
30°-40°	3064.1	11.4
40°-50°	5254.1	19.6
50°-60°	6833.4	25.5
60°-70°	6185.9	23.1
70°-80°	2386.9	8.9
80°-90°	143.6	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°	26818.0	100.0
0°-180°	26818.0	100.0

Coefficient of Utilization



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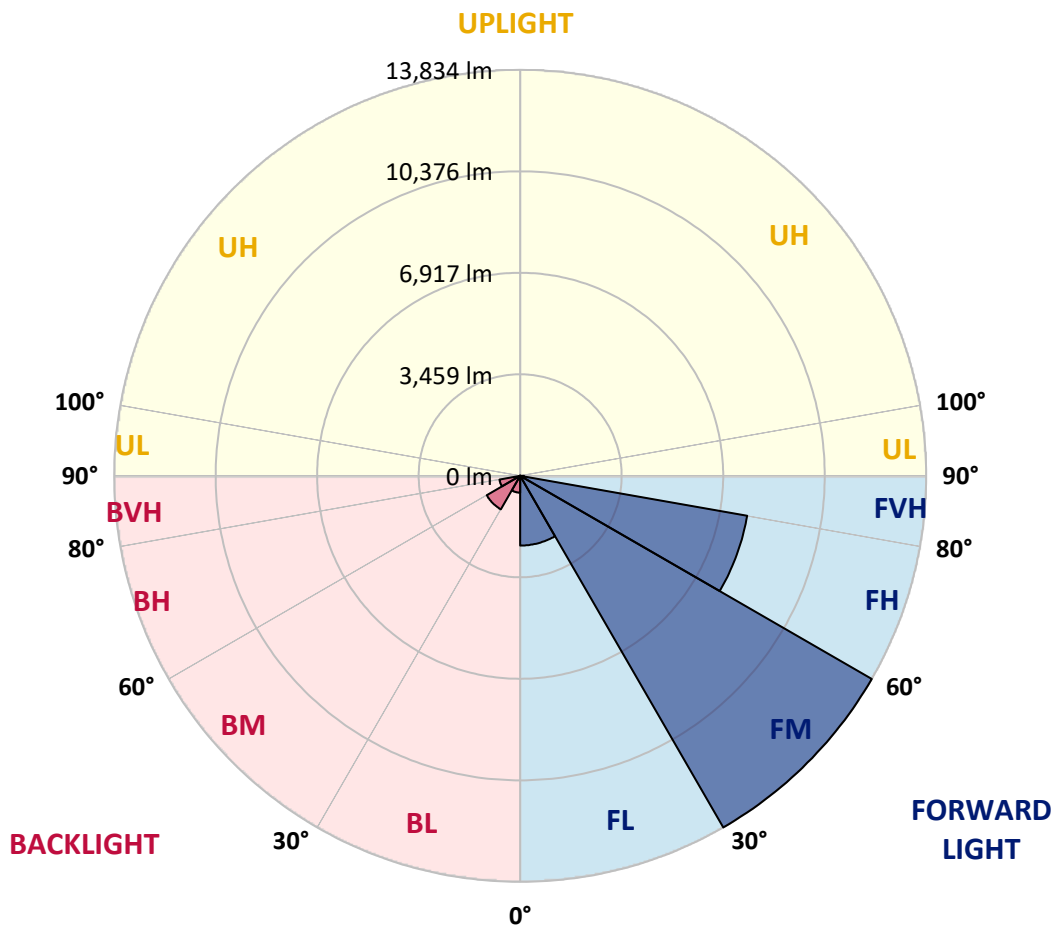
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2376.5	8.9			
FM	(30°-60°)	13834.1	51.6			
FH	(60°-80°)	7854.1	29.3			G4/12000
FVH	(80°-90°)	124.4	0.5			G2/225
BL	(0°-30°)	573.5	2.1	B2/1000		
BM	(30°-60°)	1317.6	4.9	B2/2500		
BH	(60°-80°)	718.7	2.7	B2/1000		G2/1000
BVH	(80°-90°)	19.3	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°	2927.4	2927.4	2927.4	2927.4	2927.4	2927.4	2927.4	2927.4	2927.4	2927.4	2927.4
2.5°	3514.8	3485.9	3433.0	3428.2	3384.8	3331.9	3240.4	3144.1	3076.7	3067.0	2985.2
5°	4208.2	4193.7	4140.8	4107.0	4025.2	3900.0	3688.2	3476.3	3298.2	3278.9	3095.9
7.5°	4391.1	4400.8	4410.4	4444.1	4415.2	4357.4	4198.5	3900.0	3620.8	3577.4	3259.6
10°	4420.0	4410.4	4410.4	4453.7	4535.6	4617.4	4598.2	4343.0	3981.9	3928.9	3485.9
12.5°	4733.0	4747.4	4713.7	4694.5	4680.0	4723.3	4867.8	4757.1	4362.2	4318.9	3760.4
15°	5137.4	5132.6	5084.5	5084.5	5041.1	4968.9	5060.4	5142.2	4819.6	4766.7	4073.3
17.5°	5431.1	5450.4	5445.6	5474.5	5460.0	5363.7	5315.6	5484.1	5291.5	5224.1	4429.6
20°	5667.1	5720.0	5739.3	5830.8	5874.1	5806.7	5681.5	5787.4	5744.1	5681.5	4790.8
22.5°	5917.4	5960.8	5994.5	6153.4	6273.7	6259.3	6100.4	6076.3	6182.2	6124.5	5147.1
25°	6167.8	6187.1	6288.2	6480.8	6673.4	6721.5	6557.8	6370.0	6577.1	6524.1	5464.8
27.5°	6442.2	6451.9	6572.2	6808.2	7077.8	7178.9	7048.9	6702.2	6880.4	6880.4	5753.7
30°	6943.0	7039.3	7087.4	7299.3	7535.2	7674.8	7520.8	7053.7	7150.0	7193.4	6057.1
32.5°	8021.5	8036.0	8021.5	8113.0	8161.1	8243.0	8064.8	7448.5	7424.5	7472.6	6355.6
35°	9668.2	9610.4	9456.3	9321.5	9042.3	8888.2	8657.1	7954.1	7761.5	7828.9	6649.3
37.5°	11666.3	11584.5	11233.0	10818.9	10221.9	9605.6	9316.7	8570.4	8190.0	8276.7	6967.1
40°	13573.0	13520.0	13101.2	12590.8	11570.0	10515.6	9904.1	9090.4	8666.7	8700.4	7289.7
42.5°	15142.6	15133.0	14781.5	14247.1	12937.4	11497.8	10597.4	9600.8	9167.4	9220.4	7626.7
45°	16331.9	16240.4	15980.4	15595.2	14261.5	12518.6	11435.2	10376.0	9971.5	10034.1	8132.2
47.5°	16331.9	16346.3	16514.9	16476.3	15186.0	13476.7	12350.0	11353.4	11160.8	11218.6	8965.2
50°	15003.0	15137.8	15888.9	16519.7	15667.5	14223.0	13337.1	12576.3	12773.7	12860.4	10419.3
52.5°	12374.1	12600.4	13905.2	15344.9	15311.2	14598.6	14357.8	14131.5	15017.5	15171.5	12566.7
55°	9403.4	9552.6	11252.3	13144.5	13760.8	14290.4	15248.6	16105.6	17988.2	17954.5	14747.8
57.5°	7024.8	7164.5	8628.2	10727.4	11541.1	12956.7	15706.0	18363.8	20934.9	21064.9	16794.1
60°	5166.3	5272.2	6519.3	8243.0	9417.8	10915.2	15523.0	20588.2	24329.3	24180.1	18599.7
62.5°	3823.0	3880.8	4781.1	5903.0	7463.0	8893.0	14372.3	22109.7	27040.1	26736.7	19606.0
65°	2956.3	2975.6	3442.6	4039.6	5426.3	6914.1	12658.2	22340.8	28537.5	28214.9	19586.7
66°	2633.7	2648.2	2990.0	3452.2	4617.4	6052.2	11907.1	21970.1	28773.4	28431.6	19346.0
67.5°	2210.0	2200.4	2402.6	2705.9	3466.7	4670.4	10573.4	20886.7	28494.2	28320.8	18575.6
70°	1637.0	1641.9	1743.0	1815.2	2027.0	2585.6	7636.3	18118.2	26260.1	26250.5	16461.9
72.5°	1213.3	1227.8	1304.8	1319.3	1266.3	1401.1	4400.8	14410.8	21007.1	21011.9	12306.7
75°	910.0	934.1	958.2	967.8	919.6	885.9	1988.5	9697.1	13818.6	13717.5	6967.1
77.5°	693.3	703.0	722.2	707.8	698.2	611.5	828.2	4728.2	6822.6	6215.9	2258.2
80°	505.6	505.6	524.8	505.6	500.7	438.1	452.6	1516.7	2003.0	1665.9	486.3
82.5°	317.8	313.0	327.4	322.6	313.0	279.3	264.8	423.7	462.2	414.1	235.9
85°	178.1	173.3	168.5	163.7	149.3	125.2	144.4	158.9	211.9	216.7	168.5
87.5°	62.6	62.6	57.8	53.0	43.3	43.3	53.0	53.0	77.0	77.0	86.7
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°	2927.4	2927.4	2927.4	2927.4	2927.4	2927.4	2927.4	2927.4	2927.4	2927.4	2927.4
2.5°	2946.7	2893.7	2816.7	2715.6	2643.3	2571.1	2494.1	2450.7	2388.2	2373.7	2393.0
5°	2999.6	2903.3	2710.7	2498.9	2315.9	2152.2	1998.2	1906.7	1815.2	1781.5	1795.9
7.5°	3110.4	2946.7	2619.3	2277.4	1974.1	1728.5	1545.6	1439.6	1357.8	1324.1	1333.7
10°	3274.1	3023.7	2532.6	2027.0	1637.0	1377.0	1223.0	1155.6	1107.4	1088.2	1093.0
12.5°	3471.5	3134.5	2421.9	1776.7	1348.2	1121.9	1049.6	1035.2	1025.6	1015.9	1020.7
15°	3693.0	3230.8	2291.9	1531.1	1121.9	996.7	972.6	967.8	963.0	963.0	963.0
17.5°	3924.1	3317.4	2147.4	1300.0	977.4	919.6	905.2	905.2	905.2	910.0	910.0
20°	4140.8	3384.8	1978.9	1093.0	895.6	847.4	837.8	837.8	842.6	847.4	847.4
22.5°	4352.6	3413.7	1781.5	948.5	828.2	784.8	770.4	770.4	770.4	775.2	775.2
25°	4535.6	3413.7	1584.1	857.0	770.4	727.0	707.8	703.0	707.8	707.8	707.8
27.5°	4689.6	3399.3	1391.5	794.4	712.6	669.3	650.0	645.2	654.8	659.6	659.6
30°	4853.3	3380.0	1237.4	736.7	664.4	621.1	601.9	601.9	616.3	635.6	635.6
32.5°	5012.2	3394.5	1117.0	688.5	616.3	582.6	563.3	568.1	597.0	625.9	625.9
35°	5180.8	3423.3	1044.8	654.8	582.6	548.9	534.4	548.9	577.8	606.7	606.7
37.5°	5349.3	3457.0	1001.5	625.9	553.7	520.0	510.4	529.6	563.3	592.2	597.0
40°	5527.4	3485.9	953.3	597.0	534.4	495.9	491.1	510.4	553.7	582.6	587.4
42.5°	5748.9	3543.7	895.6	573.0	515.2	467.0	471.9	486.3	529.6	573.0	577.8
45°	6182.2	3726.7	837.8	548.9	491.1	452.6	443.0	452.6	500.7	548.9	558.5
47.5°	6995.9	4140.8	775.2	524.8	467.0	443.0	404.4	414.1	457.4	510.4	515.2
50°	8556.0	5021.9	741.5	500.7	447.8	409.3	365.9	365.9	399.6	447.8	447.8
52.5°	10987.4	6601.1	760.7	481.5	423.7	375.6	332.2	327.4	346.7	380.4	380.4
55°	13611.5	8334.5	833.0	462.2	394.8	356.3	308.1	284.1	298.5	317.8	317.8
57.5°	15691.5	9206.0	1030.4	452.6	361.1	341.9	279.3	245.6	260.0	279.3	279.3
60°	16606.3	8695.6	1251.9	462.2	337.0	317.8	250.4	216.7	240.7	260.0	264.8
62.5°	15864.9	7159.7	1343.3	438.1	303.3	284.1	245.6	202.2	231.1	245.6	250.4
65°	14261.5	5440.8	1049.6	380.4	279.3	245.6	221.5	192.6	216.7	231.1	231.1
66°	13500.8	4742.6	895.6	351.5	269.6	231.1	211.9	192.6	211.9	221.5	226.3
67.5°	12321.1	3741.1	664.4	308.1	250.4	211.9	197.4	183.0	202.2	211.9	211.9
70°	9634.5	2229.3	399.6	240.7	216.7	187.8	178.1	168.5	183.0	187.8	187.8
72.5°	6033.0	1059.3	255.2	178.1	183.0	178.1	149.3	158.9	163.7	168.5	168.5
75°	2922.6	418.9	173.3	130.0	149.3	168.5	120.4	139.6	144.4	154.1	149.3
77.5°	813.7	202.2	110.7	96.3	130.0	130.0	91.5	110.7	130.0	163.7	149.3
80°	235.9	130.0	72.2	72.2	91.5	91.5	62.6	77.0	86.7	96.3	101.1
82.5°	163.7	86.7	48.1	53.0	53.0	57.8	38.5	38.5	48.1	48.1	53.0
85°	130.0	38.5	28.9	33.7	24.1	28.9	19.3	19.3	24.1	19.3	19.3
87.5°	53.0	19.3	19.3	19.3	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)