

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: P799234

Luminaire Tested: **ARCH2-100-727-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

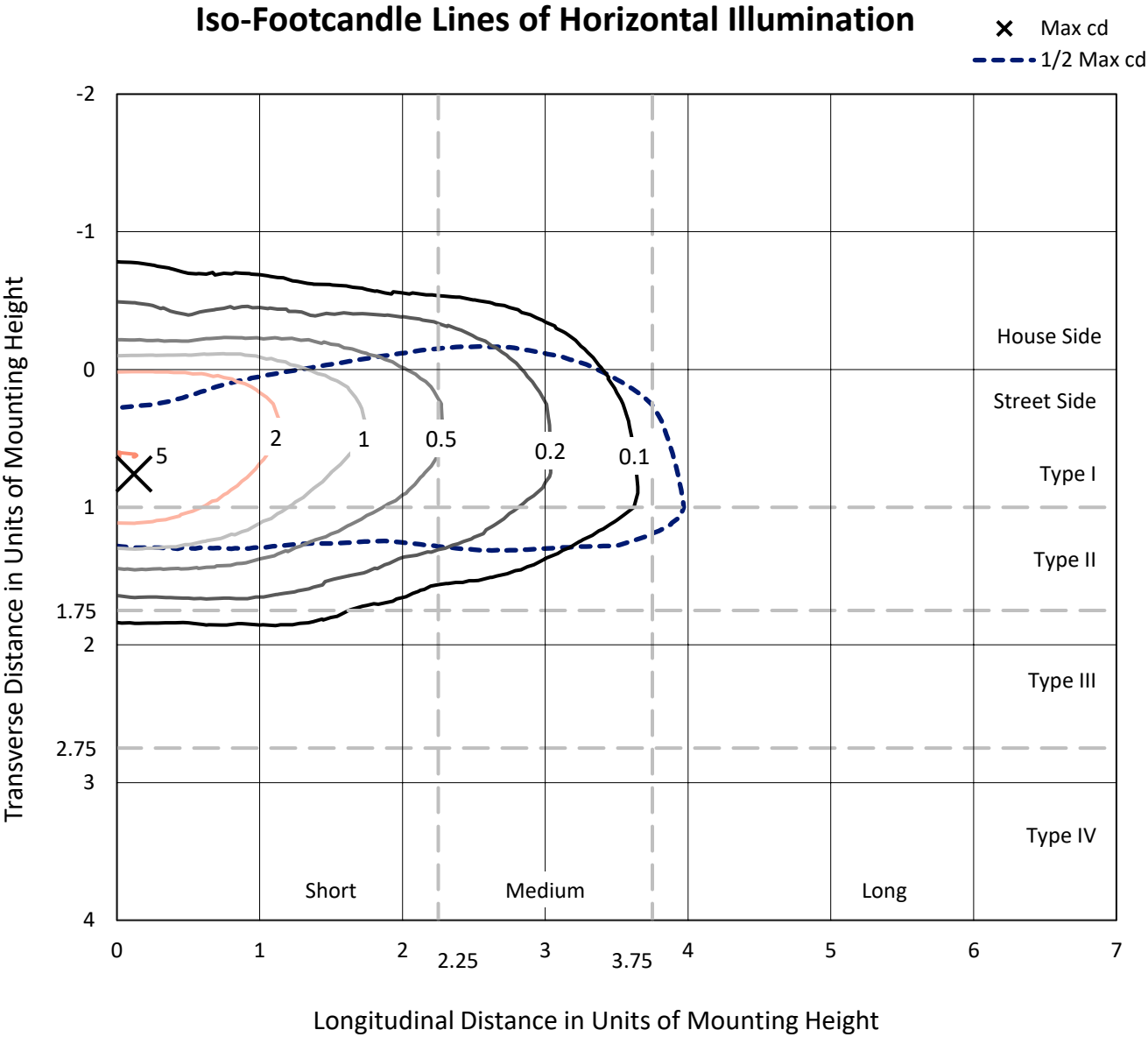
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8675 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 103.3
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



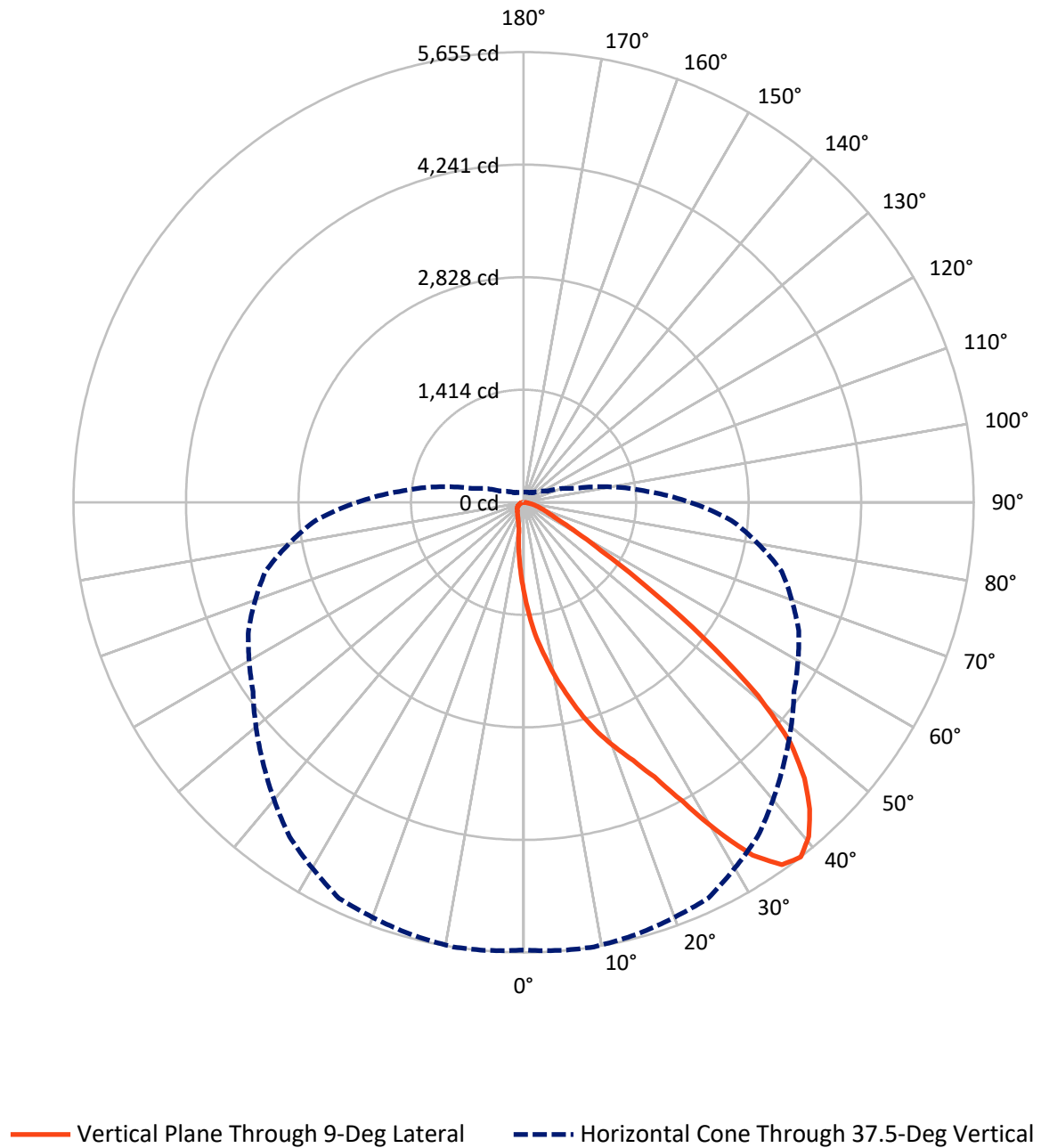
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Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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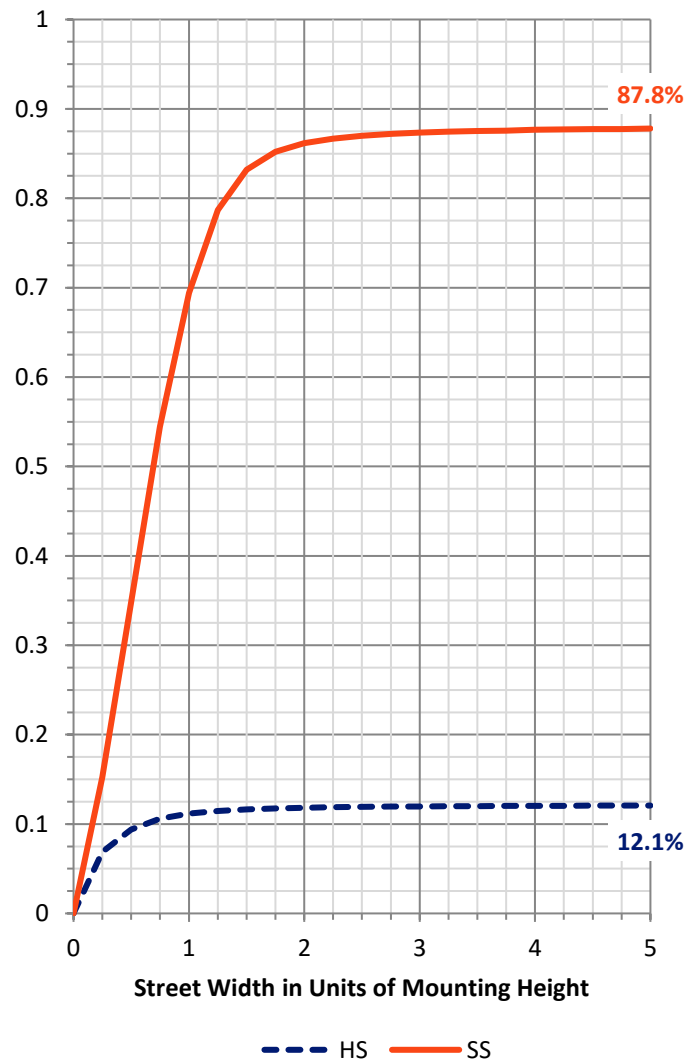
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1055.0	0.0	1055.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7620.0	0.0	7620.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	8675.0	0.0	8675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.3
10°-20°	400.6	4.6
20°-30°	823.2	9.5
30°-40°	1455.0	16.8
40°-50°	1932.9	22.3
50°-60°	1833.2	21.1
60°-70°	1398.6	16.1
70°-80°	678.0	7.8
80°-90°	38.2	0.4
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°	8675.0	100.0
0°-180°	8675.0	100.0

Coefficient of Utilization



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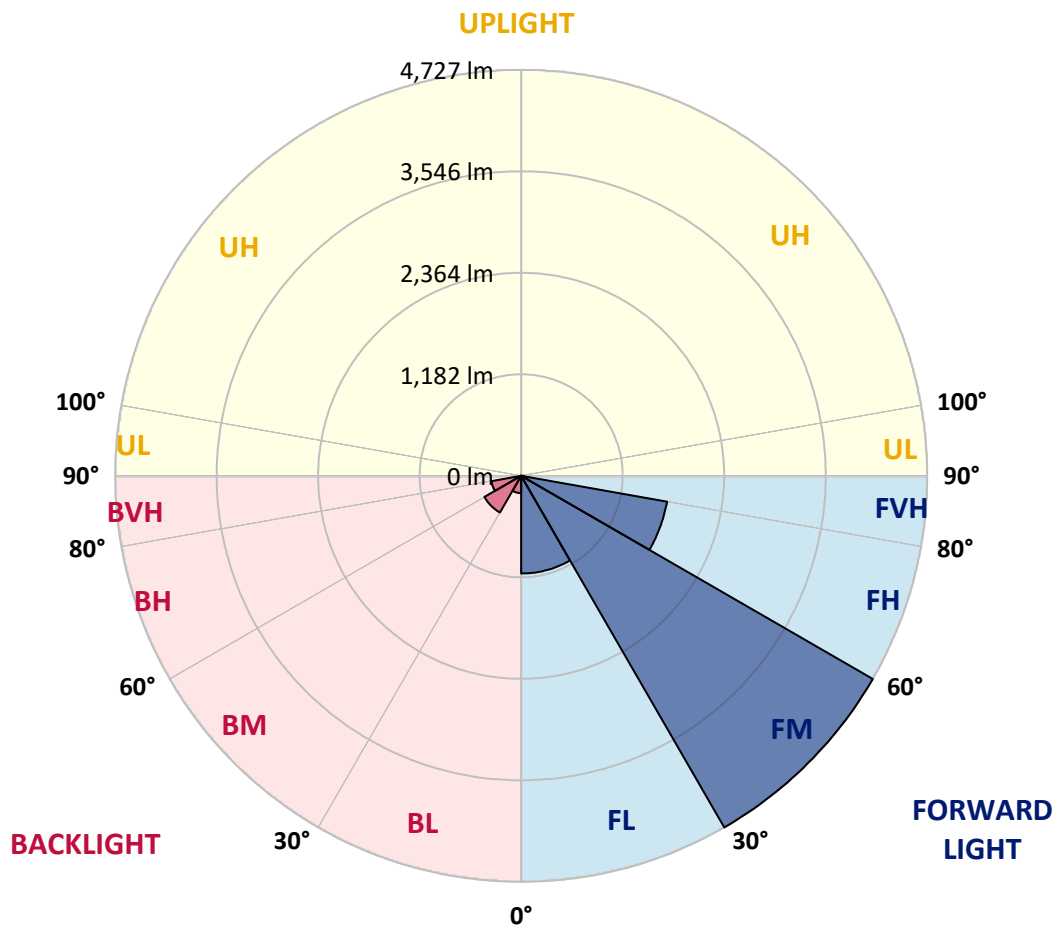
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1137.7	13.1			
FM	(30°-60°)	4727.5	54.5			
FH	(60°-80°)	1724.6	19.9			G1/1800
FVH	(80°-90°)	30.2	0.3			G1/100
BL	(0°-30°)	201.3	2.3	B1/500		
BM	(30°-60°)	493.7	5.7	B1/1000		
BH	(60°-80°)	352.1	4.1	B1/500		G1/500
BVH	(80°-90°)	7.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1146.7	1146.7	1146.7	1146.7	1146.7	1146.7	1146.7	1146.7	1146.7	1146.7	1146.7
2.5°	1420.9	1396.0	1424.5	1420.9	1396.0	1380.0	1330.1	1314.1	1255.3	1212.6	1175.2
5°	1713.0	1688.0	1713.0	1705.8	1670.2	1631.1	1549.2	1495.7	1390.7	1298.1	1214.4
7.5°	1955.1	1955.1	1965.8	1967.6	1924.9	1864.3	1762.8	1682.7	1534.9	1392.5	1258.9
10°	2216.9	2218.7	2241.8	2225.8	2168.8	2086.9	1958.7	1857.2	1679.1	1492.2	1301.6
12.5°	2496.5	2498.2	2505.4	2498.2	2430.6	2325.5	2170.6	2037.0	1832.3	1606.1	1360.4
15°	2776.0	2777.8	2786.7	2774.2	2699.4	2576.6	2400.3	2236.5	1994.3	1734.3	1431.6
17.5°	3037.8	3041.3	3048.5	3032.4	2954.1	2808.1	2628.2	2430.6	2167.0	1871.4	1511.8
20°	3272.8	3276.4	3281.7	3260.3	3182.0	3036.0	2841.9	2635.3	2343.3	2012.1	1599.0
22.5°	3509.6	3513.2	3522.1	3493.6	3406.4	3239.0	3048.5	2834.8	2530.3	2167.0	1700.5
25°	3812.3	3815.9	3823.0	3782.1	3662.8	3466.9	3265.7	3046.7	2733.3	2341.5	1825.2
27.5°	4255.7	4252.2	4252.2	4177.4	3972.6	3718.0	3484.7	3262.1	2952.3	2528.5	1962.3
30°	4804.2	4795.3	4789.9	4688.4	4396.4	4001.1	3709.1	3463.3	3162.4	2726.2	2110.1
32.5°	5295.6	5295.6	5284.9	5178.1	4868.3	4382.1	3947.7	3659.2	3365.4	2925.6	2263.2
35°	5585.9	5598.3	5593.0	5512.9	5286.7	4791.7	4270.0	3894.3	3579.1	3133.9	2446.6
37.5°	5625.0	5650.0	5655.3	5607.2	5487.9	5126.5	4627.9	4148.9	3814.1	3358.3	2624.7
40°	5466.6	5520.0	5520.0	5512.9	5470.1	5284.9	4928.8	4444.5	4056.3	3591.5	2804.5
42.5°	5222.6	5277.8	5270.7	5297.4	5286.7	5247.5	5098.0	4720.5	4298.5	3831.9	2968.3
45°	4903.9	4960.9	4946.6	4994.7	5016.1	5058.8	5080.2	4912.8	4537.1	4093.7	3151.7
47.5°	4392.8	4489.0	4510.4	4595.8	4684.9	4818.4	4919.9	4982.2	4759.6	4375.0	3351.2
50°	3637.8	3773.2	3815.9	3995.7	4239.7	4515.7	4679.5	4896.8	4916.3	4663.5	3566.6
52.5°	2605.1	2761.8	2827.7	3123.2	3625.4	4106.1	4401.7	4708.0	4976.9	4939.5	3799.9
55°	1684.5	1818.0	1882.1	2159.9	2827.7	3582.6	4074.1	4464.1	4943.0	5192.3	4067.0
57.5°	1038.1	1114.7	1157.4	1396.0	2010.3	2911.3	3645.0	4239.7	4839.8	5411.4	4344.8
60°	699.8	744.3	765.7	877.9	1365.7	2175.9	3055.6	4004.7	4704.4	5559.1	4597.6
62.5°	464.7	479.0	500.4	569.8	901.0	1527.8	2346.9	3584.4	4602.9	5568.1	4784.6
65°	359.7	366.8	375.7	406.0	555.6	1068.4	1650.7	2904.2	4451.6	5379.3	4843.3
67.5°	283.1	290.2	300.9	317.0	402.4	724.7	1123.6	2127.9	4141.8	5083.7	4747.2
70°	222.6	227.9	235.0	249.3	313.4	525.3	742.5	1413.8	3516.8	4802.4	4444.5
72.5°	176.3	181.6	188.7	203.0	254.6	384.6	509.3	881.4	2711.9	4458.7	3862.2
75°	138.9	142.5	147.8	162.0	204.8	299.1	345.4	527.1	1843.0	3830.1	3009.3
77.5°	69.4	85.5	97.9	112.2	149.6	206.6	229.7	292.0	778.1	1965.8	1435.2
80°	41.0	49.9	53.4	62.3	97.9	124.6	124.6	117.5	245.7	755.0	585.8
82.5°	23.1	32.1	33.8	35.6	58.8	71.2	57.0	42.7	49.9	252.9	170.9
85°	7.1	10.7	12.5	14.2	19.6	21.4	19.6	17.8	14.2	24.9	16.0
87.5°	0.0	0.0	0.0	0.0	1.8	3.6	3.6	3.6	5.3	5.3	5.3
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°	1146.7	1146.7	1146.7	1146.7	1146.7	1146.7	1146.7	1146.7	1146.7	1146.7	1146.7
2.5°	1153.9	1130.7	1086.2	1045.2	1006.1	977.6	950.9	925.9	908.1	893.9	892.1
5°	1169.9	1123.6	1038.1	958.0	885.0	824.4	772.8	731.8	701.6	680.2	678.4
7.5°	1191.2	1120.0	990.0	870.7	762.1	674.9	600.1	544.9	505.7	489.7	477.2
10°	1209.1	1116.5	942.0	783.5	641.0	530.6	441.6	386.4	357.9	347.2	341.9
12.5°	1239.3	1120.0	901.0	703.4	536.0	406.0	338.3	308.1	295.6	286.7	284.9
15°	1283.8	1136.0	861.8	625.0	429.1	327.6	288.5	268.9	256.4	254.6	252.9
17.5°	1328.4	1150.3	826.2	544.9	356.1	284.9	258.2	242.2	233.3	231.5	231.5
20°	1380.0	1168.1	787.0	468.3	304.5	256.4	235.0	222.6	211.9	210.1	210.1
22.5°	1440.5	1193.0	749.6	400.6	270.7	235.0	217.2	203.0	194.1	192.3	192.3
25°	1522.4	1230.4	719.4	350.8	247.5	217.2	201.2	188.7	181.6	178.1	178.1
27.5°	1613.3	1282.1	698.0	320.5	231.5	203.0	187.0	176.3	169.2	165.6	165.6
30°	1714.8	1339.0	683.8	308.1	222.6	190.5	176.3	165.6	156.7	154.9	154.9
32.5°	1826.9	1404.9	674.9	309.8	220.8	181.6	165.6	154.9	147.8	144.2	144.2
35°	1951.6	1477.9	669.5	320.5	224.4	174.5	156.7	146.0	138.9	135.3	135.3
37.5°	2090.5	1563.4	669.5	331.2	233.3	172.7	147.8	137.1	131.8	128.2	128.2
40°	2220.5	1654.2	676.6	343.7	242.2	172.7	140.7	131.8	124.6	121.1	121.1
42.5°	2322.0	1705.8	682.0	356.1	247.5	170.9	133.5	124.6	119.3	115.7	115.7
45°	2437.7	1761.0	671.3	361.5	247.5	167.4	128.2	119.3	114.0	110.4	110.4
47.5°	2565.9	1828.7	669.5	365.0	242.2	160.3	122.9	114.0	110.4	106.8	106.8
50°	2695.9	1903.5	673.1	363.2	235.0	149.6	115.7	110.4	105.1	101.5	101.5
52.5°	2843.7	1981.8	680.2	359.7	219.0	137.1	110.4	105.1	99.7	96.2	94.4
55°	3007.5	2067.3	694.4	352.6	197.7	124.6	105.1	99.7	92.6	89.0	87.3
57.5°	3196.2	2172.4	710.5	338.3	174.5	114.0	99.7	92.6	81.9	76.6	74.8
60°	3376.1	2291.7	728.3	304.5	151.4	103.3	94.4	83.7	73.0	69.4	67.7
62.5°	3545.2	2409.2	737.2	243.9	128.2	94.4	89.0	76.6	65.9	62.3	60.5
65°	3653.9	2537.4	717.6	165.6	105.1	87.3	81.9	71.2	60.5	55.2	55.2
67.5°	3661.0	2597.9	649.9	108.6	85.5	78.3	74.8	64.1	53.4	49.9	48.1
70°	3481.1	2507.1	496.8	85.5	71.2	67.7	67.7	57.0	46.3	42.7	41.0
72.5°	3068.0	2220.5	317.0	69.4	60.5	57.0	57.0	48.1	41.0	35.6	33.8
75°	2421.7	1713.0	169.2	57.0	49.9	48.1	44.5	39.2	33.8	30.3	28.5
77.5°	1112.9	755.0	78.3	41.0	37.4	37.4	33.8	28.5	26.7	23.1	23.1
80°	439.8	256.4	39.2	26.7	24.9	24.9	24.9	19.6	19.6	16.0	14.2
82.5°	121.1	53.4	19.6	16.0	16.0	16.0	14.2	12.5	12.5	10.7	10.7
85°	12.5	8.9	8.9	8.9	8.9	7.1	7.1	5.3	3.6	3.6	3.6
87.5°	5.3	5.3	5.3	5.3	5.3	3.6	1.8	0.0	0.0	0.0	0.0
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)