

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: P800274

Luminaire Tested: **ARCH2-90-730-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800274
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: ARCH2-90-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

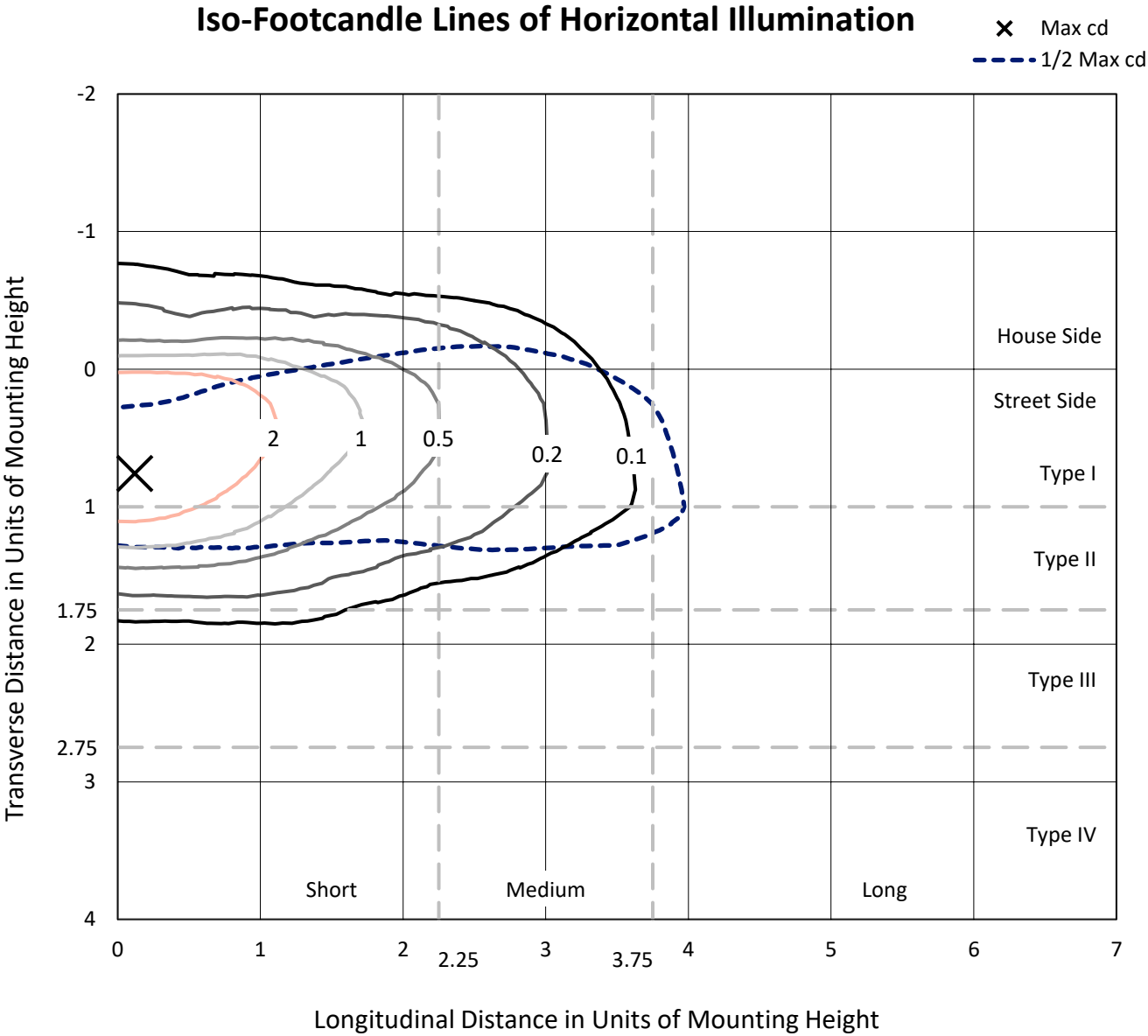
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8438 lumens
Efficiency: N/A
Efficacy: 90.1 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): 93.7
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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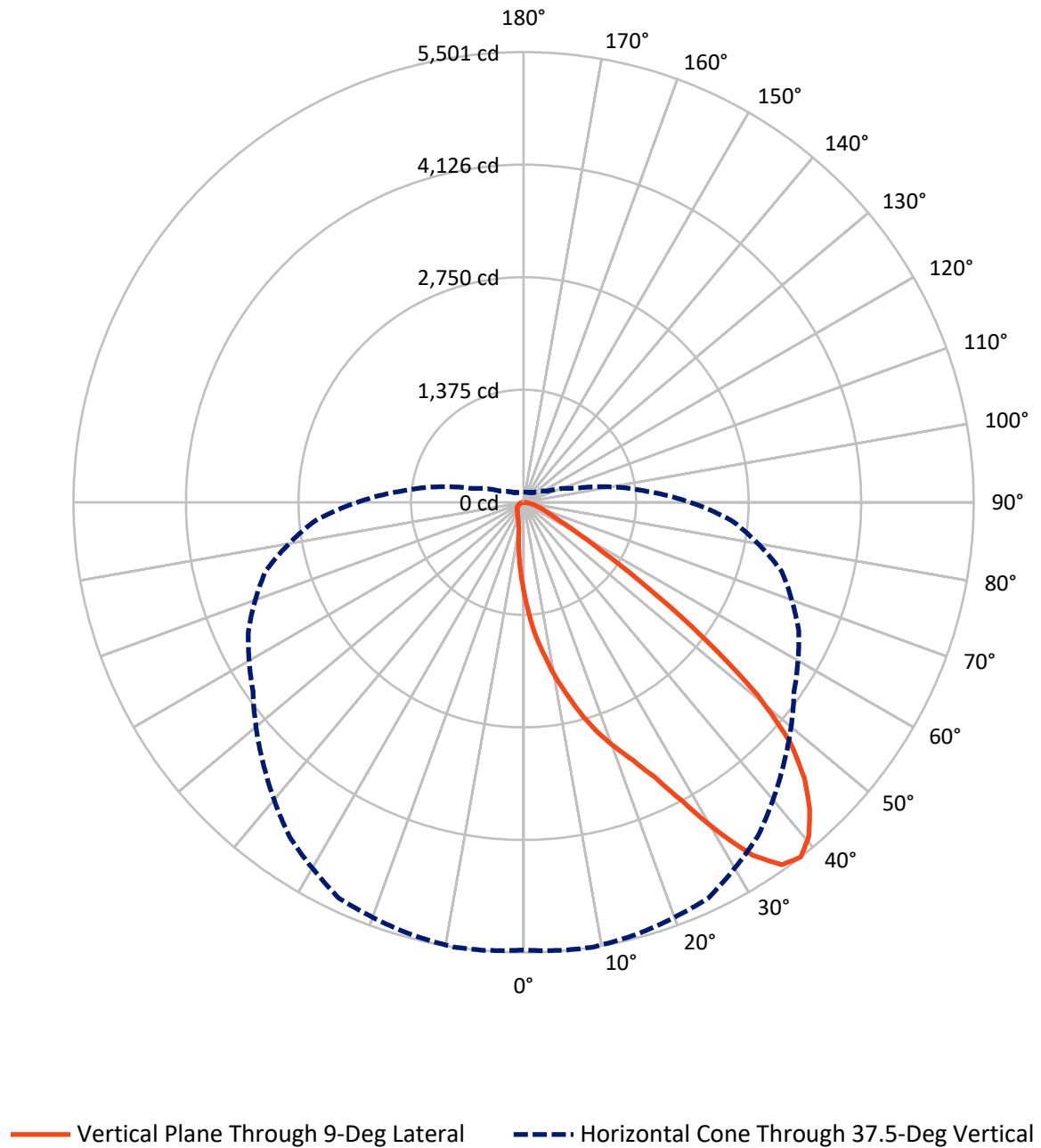


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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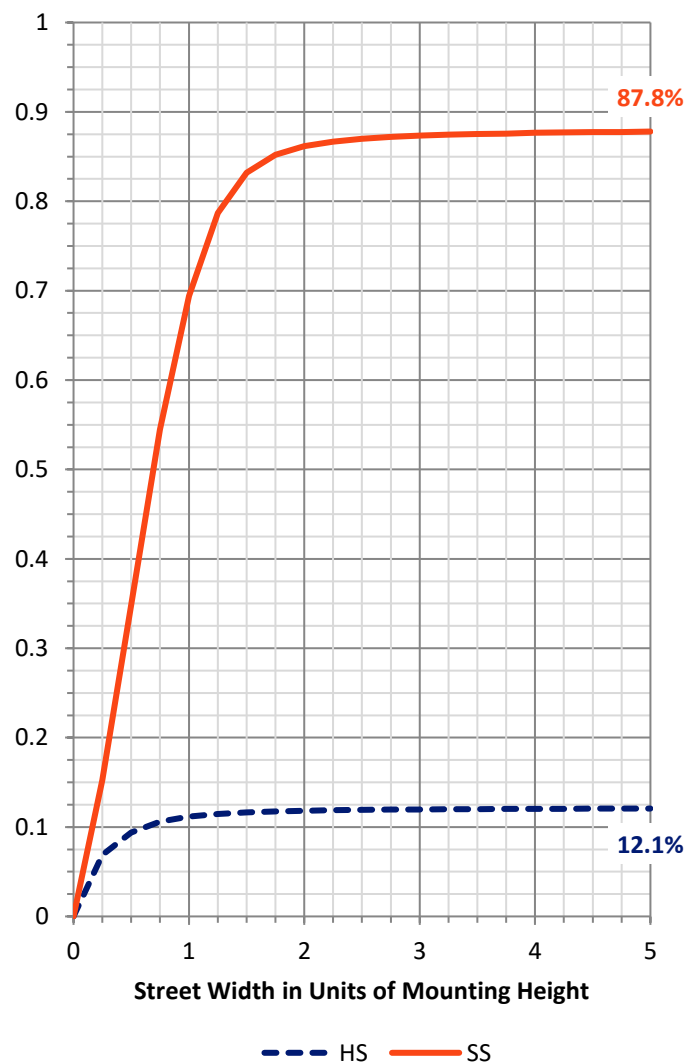
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1026.2	0.0	1026.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7411.8	0.0	7411.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	8438.0	0.0	8438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	1.3
10°-20°	389.7	4.6
20°-30°	800.7	9.5
30°-40°	1415.3	16.8
40°-50°	1880.1	22.3
50°-60°	1783.1	21.1
60°-70°	1360.4	16.1
70°-80°	659.5	7.8
80°-90°	37.1	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°	8438.0	100.0
0°-180°	8438.0	100.0

Coefficient of Utilization



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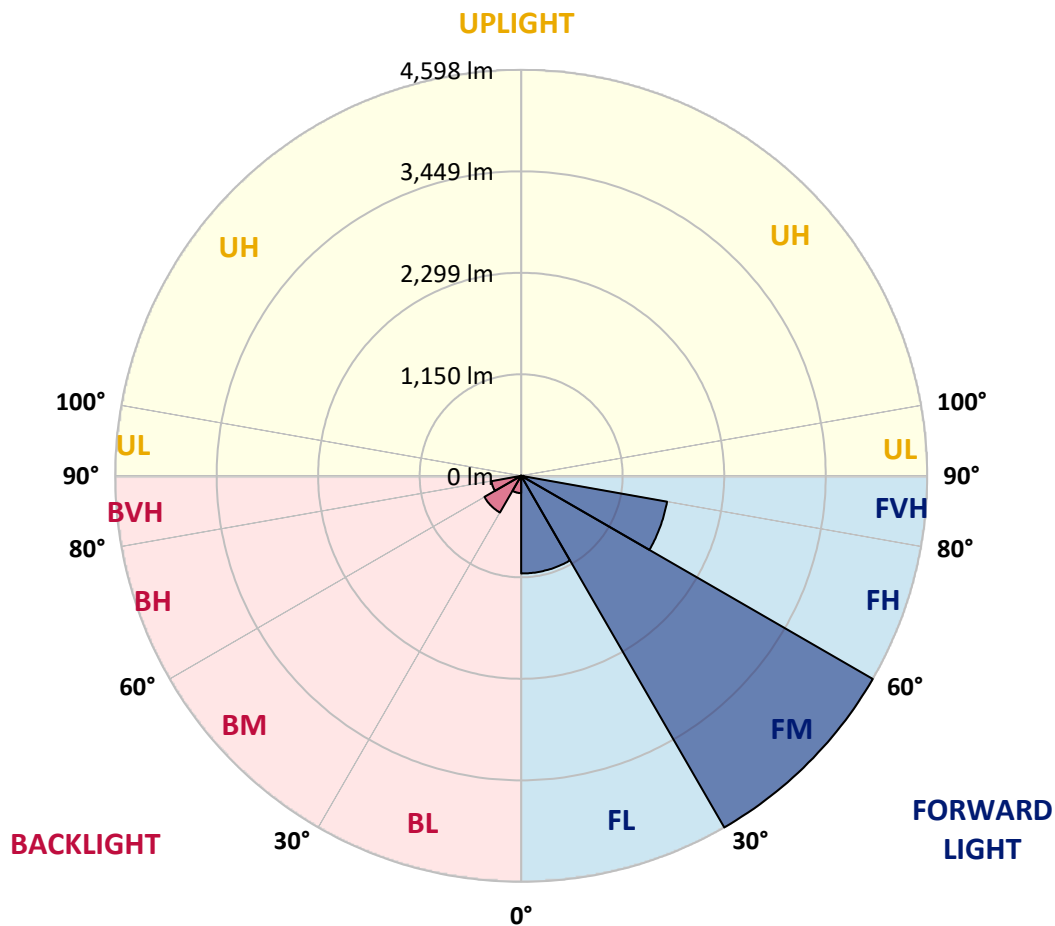
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1106.6	13.1			
FM	(30°-60°)	4598.3	54.5			
FH	(60°-80°)	1677.4	19.9			G1/1800
FVH	(80°-90°)	29.4	0.3			G1/100
BL	(0°-30°)	195.8	2.3	B1/500		
BM	(30°-60°)	480.2	5.7	B1/1000		
BH	(60°-80°)	342.4	4.1	B1/500		G1/500
BVH	(80°-90°)	7.7	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°	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4
2.5°	1382.1	1357.9	1385.6	1382.1	1357.9	1342.3	1293.8	1278.2	1221.1	1179.5	1143.1
5°	1666.2	1641.9	1666.2	1659.2	1624.6	1586.5	1506.8	1454.9	1352.7	1262.6	1181.2
7.5°	1901.7	1901.7	1912.1	1913.8	1872.3	1813.4	1714.7	1636.7	1493.0	1354.4	1224.5
10°	2156.3	2158.1	2180.6	2165.0	2109.6	2029.9	1905.2	1806.5	1633.3	1451.4	1266.1
12.5°	2428.2	2430.0	2436.9	2430.0	2364.2	2262.0	2111.3	1981.4	1782.2	1562.3	1323.2
15°	2700.2	2701.9	2710.6	2698.4	2625.7	2506.2	2334.7	2175.4	1939.8	1687.0	1392.5
17.5°	2954.8	2958.2	2965.2	2949.6	2873.4	2731.3	2556.4	2364.2	2107.8	1820.3	1470.5
20°	3183.4	3186.9	3192.1	3171.3	3095.1	2953.0	2764.3	2563.3	2279.3	1957.1	1555.3
22.5°	3413.8	3417.2	3425.9	3398.2	3313.3	3150.5	2965.2	2757.3	2461.2	2107.8	1654.1
25°	3708.2	3711.7	3718.6	3678.7	3562.7	3372.2	3176.5	2963.4	2658.6	2277.6	1775.3
27.5°	4139.5	4136.0	4136.0	4063.2	3864.1	3616.4	3389.5	3173.0	2871.6	2459.4	1908.7
30°	4672.9	4664.2	4659.1	4560.3	4276.3	3891.8	3607.7	3368.7	3076.0	2651.7	2052.4
32.5°	5150.9	5150.9	5140.5	5036.6	4735.3	4262.4	3839.8	3559.2	3273.5	2845.7	2201.4
35°	5433.3	5445.4	5440.2	5362.2	5142.3	4660.8	4153.3	3787.9	3481.3	3048.3	2379.8
37.5°	5471.4	5495.6	5500.8	5454.0	5338.0	4986.4	4501.4	4035.5	3709.9	3266.5	2553.0
40°	5317.2	5369.2	5369.2	5362.2	5320.7	5140.5	4794.1	4323.0	3945.5	3493.4	2727.9
42.5°	5079.9	5133.6	5126.7	5152.7	5142.3	5104.2	4958.7	4591.5	4181.0	3727.2	2887.2
45°	4769.9	4825.3	4811.5	4858.2	4879.0	4920.6	4941.4	4778.6	4413.1	3981.8	3065.6
47.5°	4272.8	4366.3	4387.1	4470.3	4556.9	4686.8	4785.5	4846.1	4629.6	4255.5	3259.6
50°	3538.5	3670.1	3711.7	3886.6	4123.9	4392.3	4551.7	4763.0	4782.0	4536.1	3469.2
52.5°	2533.9	2686.3	2750.4	3037.9	3526.3	3994.0	4281.5	4579.4	4840.9	4804.5	3696.1
55°	1638.5	1768.4	1830.7	2100.9	2750.4	3484.8	3962.8	4342.1	4808.0	5050.5	3955.9
57.5°	1009.8	1084.2	1125.8	1357.9	1955.4	2831.8	3545.4	4123.9	4707.5	5263.5	4226.1
60°	680.7	724.0	744.8	853.9	1328.4	2116.5	2972.1	3895.2	4575.9	5407.3	4472.0
62.5°	452.0	465.9	486.7	554.2	876.4	1486.0	2282.8	3486.5	4477.2	5415.9	4653.9
65°	349.9	356.8	365.4	394.9	540.4	1039.2	1605.6	2824.9	4330.0	5232.3	4711.0
67.5°	275.4	282.3	292.7	308.3	391.4	704.9	1092.9	2069.7	4028.6	4944.8	4617.5
70°	216.5	221.7	228.6	242.5	304.8	510.9	722.2	1375.2	3420.7	4671.2	4323.0
72.5°	171.5	176.7	183.6	197.4	247.7	374.1	495.3	857.3	2637.8	4336.9	3756.7
75°	135.1	138.6	143.8	157.6	199.2	291.0	336.0	512.7	1792.6	3725.5	2927.1
77.5°	67.5	83.1	95.3	109.1	145.5	200.9	223.4	284.0	756.9	1912.1	1396.0
80°	39.8	48.5	52.0	60.6	95.3	121.2	121.2	114.3	239.0	734.4	569.8
82.5°	22.5	31.2	32.9	34.6	57.2	69.3	55.4	41.6	48.5	245.9	166.3
85°	6.9	10.4	12.1	13.9	19.1	20.8	19.1	17.3	13.9	24.2	15.6
87.5°	0.0	0.0	0.0	0.0	1.7	3.5	3.5	3.5	5.2	5.2	5.2
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°	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4
2.5°	1122.3	1099.8	1056.5	1016.7	978.6	950.9	924.9	900.6	883.3	869.5	867.7
5°	1137.9	1092.9	1009.8	931.8	860.8	801.9	751.7	711.8	682.4	661.6	659.9
7.5°	1158.7	1089.4	963.0	846.9	741.3	656.4	583.7	530.0	491.9	476.3	464.2
10°	1176.0	1086.0	916.2	762.1	623.5	516.1	429.5	375.8	348.1	337.7	332.5
12.5°	1205.5	1089.4	876.4	684.1	521.3	394.9	329.1	299.6	287.5	278.9	277.1
15°	1248.8	1105.0	838.3	607.9	417.4	318.7	280.6	261.5	249.4	247.7	245.9
17.5°	1292.1	1118.9	803.6	530.0	346.4	277.1	251.1	235.6	226.9	225.2	225.2
20°	1342.3	1136.2	765.5	455.5	296.2	249.4	228.6	216.5	206.1	204.4	204.4
22.5°	1401.2	1160.4	729.2	389.7	263.3	228.6	211.3	197.4	188.8	187.1	187.1
25°	1480.9	1196.8	699.7	341.2	240.7	211.3	195.7	183.6	176.7	173.2	173.2
27.5°	1569.2	1247.0	678.9	311.8	225.2	197.4	181.9	171.5	164.5	161.1	161.1
30°	1667.9	1302.5	665.1	299.6	216.5	185.3	171.5	161.1	152.4	150.7	150.7
32.5°	1777.0	1366.5	656.4	301.4	214.8	176.7	161.1	150.7	143.8	140.3	140.3
35°	1898.3	1437.6	651.2	311.8	218.2	169.7	152.4	142.0	135.1	131.6	131.6
37.5°	2033.4	1520.7	651.2	322.2	226.9	168.0	143.8	133.4	128.2	124.7	124.7
40°	2159.8	1609.0	658.2	334.3	235.6	168.0	136.8	128.2	121.2	117.8	117.8
42.5°	2258.5	1659.2	663.4	346.4	240.7	166.3	129.9	121.2	116.0	112.6	112.6
45°	2371.1	1712.9	653.0	351.6	240.7	162.8	124.7	116.0	110.8	107.4	107.4
47.5°	2495.8	1778.8	651.2	355.1	235.6	155.9	119.5	110.8	107.4	103.9	103.9
50°	2622.2	1851.5	654.7	353.3	228.6	145.5	112.6	107.4	102.2	98.7	98.7
52.5°	2766.0	1927.7	661.6	349.9	213.0	133.4	107.4	102.2	97.0	93.5	91.8
55°	2925.3	2010.8	675.5	342.9	192.3	121.2	102.2	97.0	90.1	86.6	84.9
57.5°	3108.9	2113.0	691.1	329.1	169.7	110.8	97.0	90.1	79.7	74.5	72.7
60°	3283.9	2229.1	708.4	296.2	147.2	100.5	91.8	81.4	71.0	67.5	65.8
62.5°	3448.4	2343.4	717.0	237.3	124.7	91.8	86.6	74.5	64.1	60.6	58.9
65°	3554.0	2468.1	698.0	161.1	102.2	84.9	79.7	69.3	58.9	53.7	53.7
67.5°	3561.0	2527.0	632.2	105.7	83.1	76.2	72.7	62.4	52.0	48.5	46.8
70°	3386.0	2438.6	483.2	83.1	69.3	65.8	65.8	55.4	45.0	41.6	39.8
72.5°	2984.2	2159.8	308.3	67.5	58.9	55.4	55.4	46.8	39.8	34.6	32.9
75°	2355.5	1666.2	164.5	55.4	48.5	46.8	43.3	38.1	32.9	29.4	27.7
77.5°	1082.5	734.4	76.2	39.8	36.4	36.4	32.9	27.7	26.0	22.5	22.5
80°	427.8	249.4	38.1	26.0	24.2	24.2	24.2	19.1	19.1	15.6	13.9
82.5°	117.8	52.0	19.1	15.6	15.6	15.6	13.9	12.1	12.1	10.4	10.4
85°	12.1	8.7	8.7	8.7	8.7	6.9	6.9	5.2	3.5	3.5	3.5
87.5°	5.2	5.2	5.2	5.2	5.2	3.5	1.7	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)