

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: P1210298

Luminaire Tested: **ARCH2-80-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210298
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: ARCH2-80-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

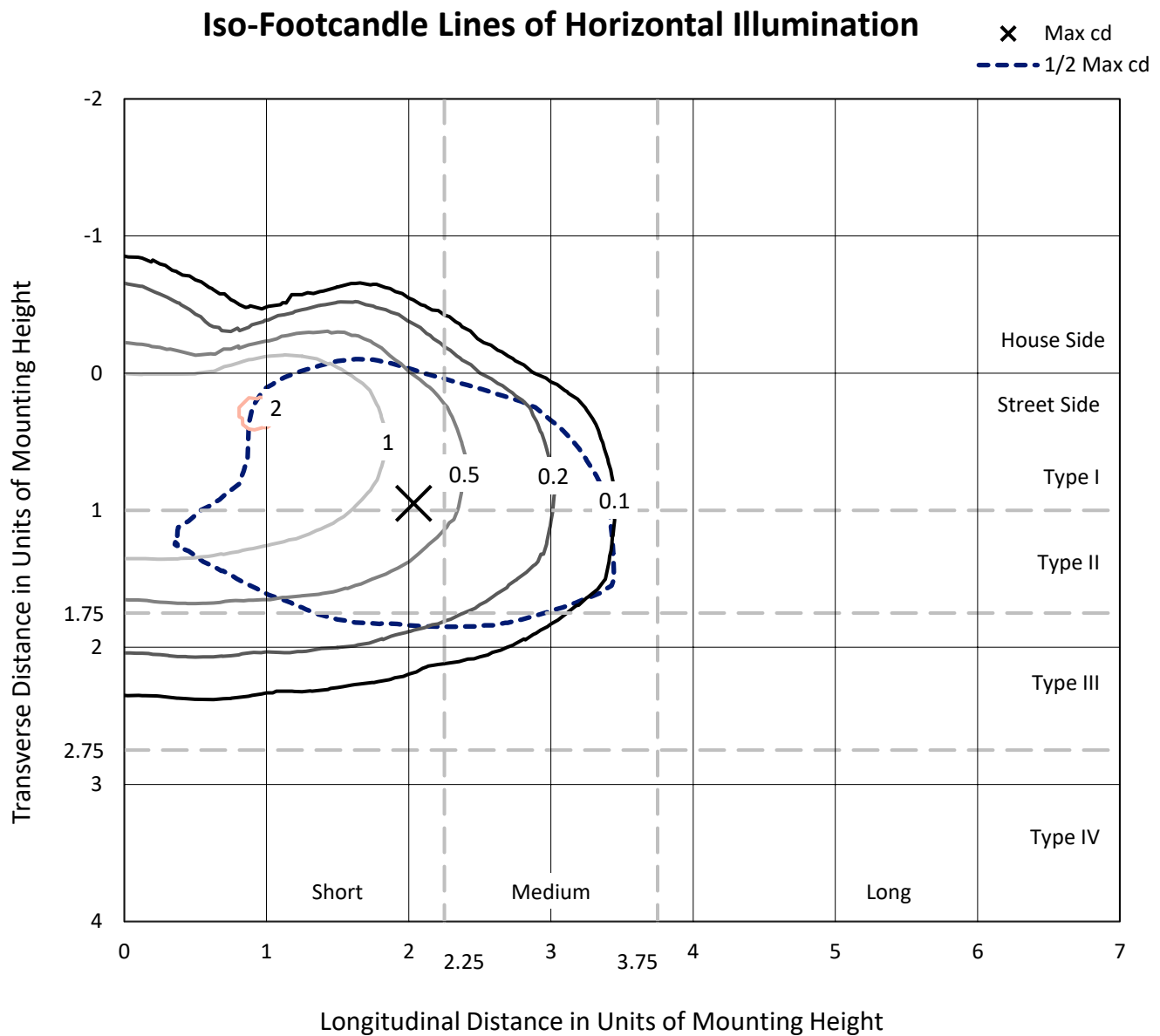
Lumens per Lamp: N/A
Luminaire Lumens: 7631 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.3
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



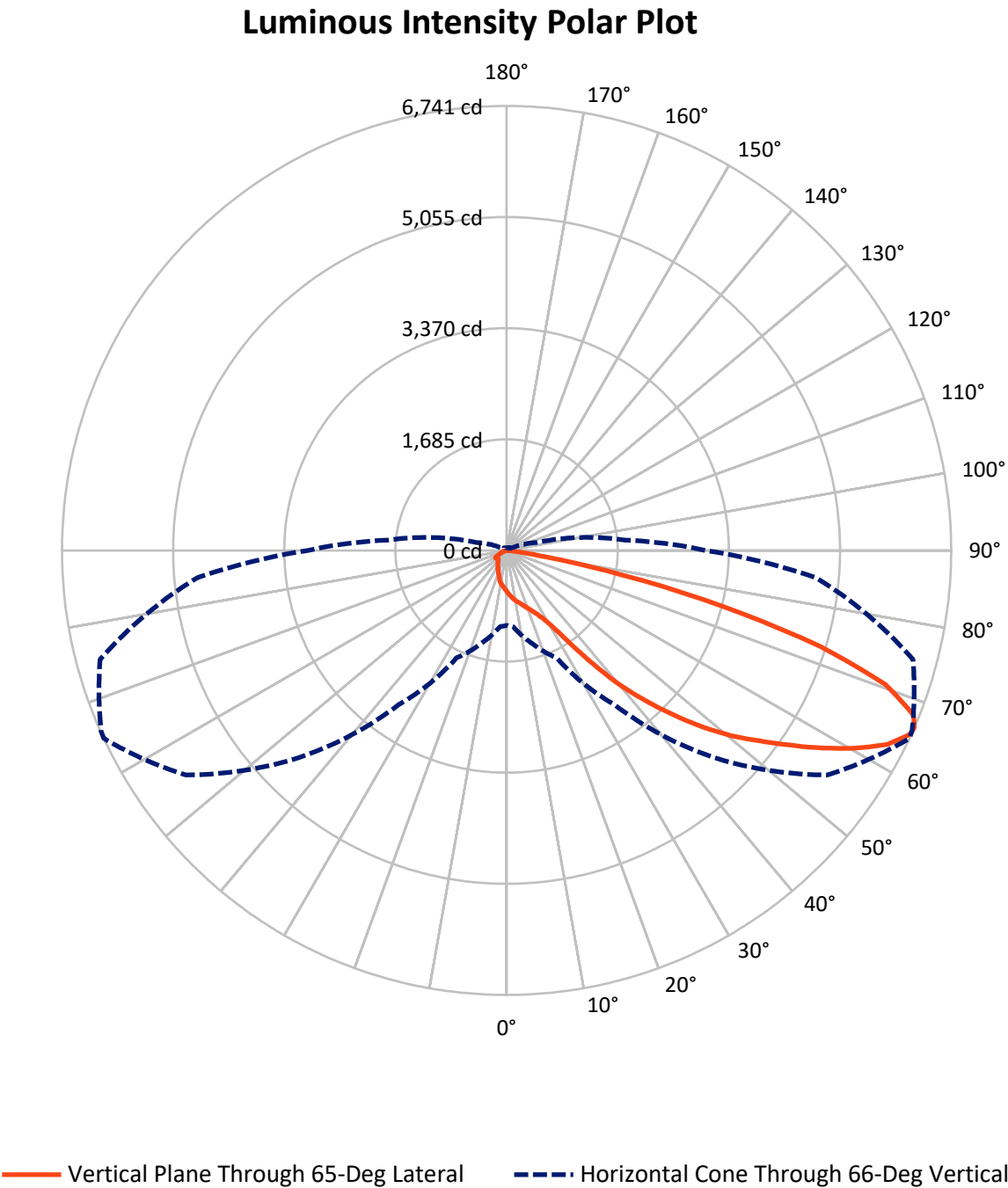
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Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

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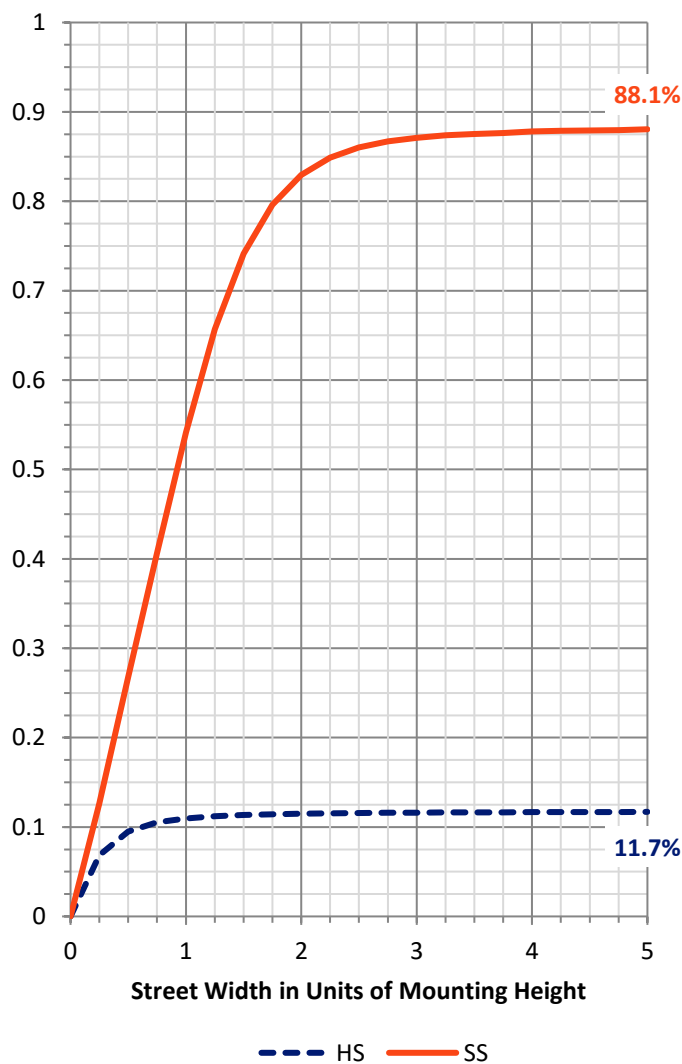
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	900.6	0.0	900.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6730.4	0.0	6730.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	7631.0	0.0	7631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	0.8
10°-20°	174.5	2.3
20°-30°	319.4	4.2
30°-40°	648.9	8.5
40°-50°	1370.3	18.0
50°-60°	2106.6	27.6
60°-70°	2120.5	27.8
70°-80°	792.3	10.4
80°-90°	39.6	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°	7631.0	100.0
0°-180°	7631.0	100.0

Coefficient of Utilization



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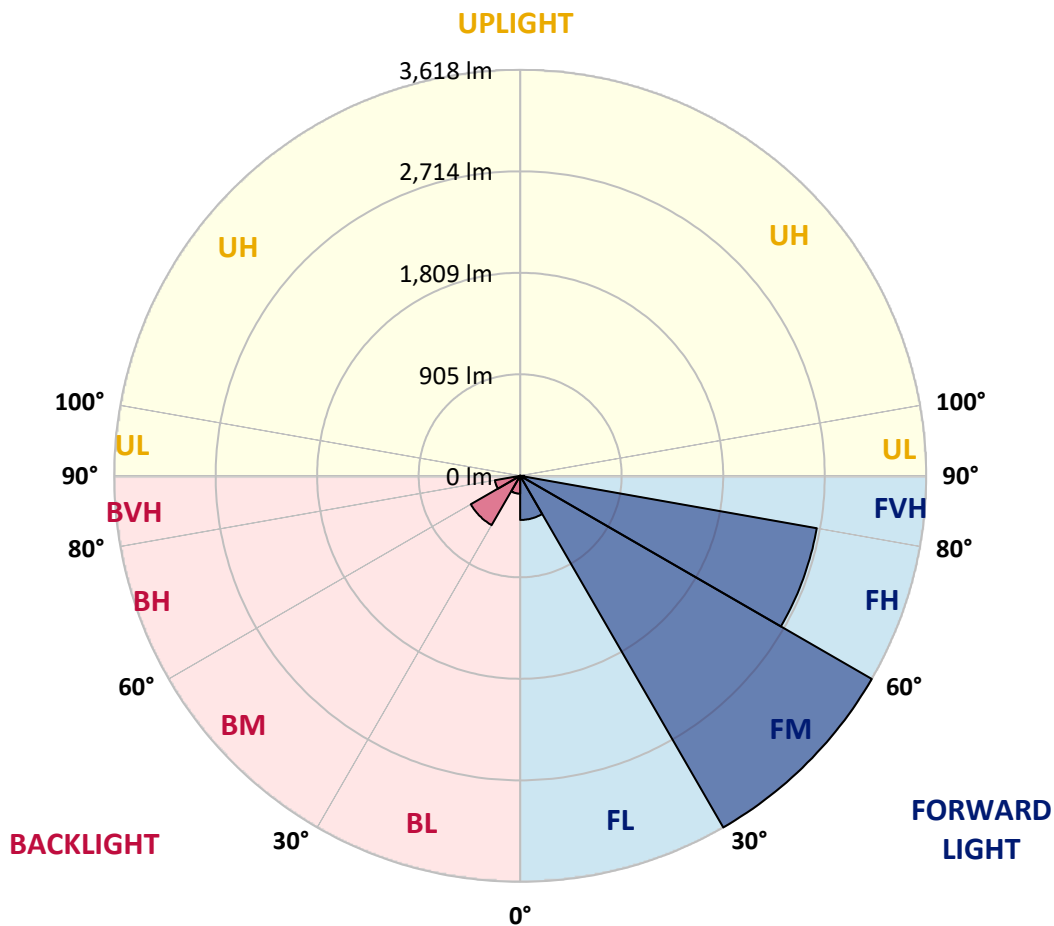
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	393.4	5.2			
FM	(30°-60°)	3618.1	47.4			
FH	(60°-80°)	2684.0	35.2			G2/5000
FVH	(80°-90°)	34.9	0.5			G1/100
BL	(0°-30°)	159.4	2.1	B1/500		
BM	(30°-60°)	507.8	6.7	B1/1000		
BH	(60°-80°)	228.8	3.0	B1/500		G1/500
BVH	(80°-90°)	4.7	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7
2.5°	708.9	710.3	707.6	702.0	696.5	689.6	678.5	660.5	657.7	645.3	631.4
5°	757.4	760.2	756.0	754.6	751.9	742.2	726.9	700.6	697.9	672.9	641.1
7.5°	774.0	778.2	775.4	775.4	775.4	771.3	764.3	740.8	736.6	704.8	656.3
10°	786.5	789.3	787.9	793.4	797.6	794.8	790.6	776.8	772.6	740.8	677.1
12.5°	805.9	807.3	808.6	811.4	818.3	821.1	819.7	807.3	804.5	782.3	703.4
15°	823.9	823.9	825.3	837.7	847.4	852.9	854.3	844.6	841.9	823.9	736.6
17.5°	840.5	841.9	846.0	859.9	876.5	887.6	894.5	890.3	886.2	872.3	775.4
20°	865.4	868.2	872.3	891.7	908.3	926.3	940.2	938.8	937.4	927.7	821.1
22.5°	908.3	911.1	918.0	936.0	952.6	974.8	998.3	997.0	992.8	985.9	875.1
25°	973.4	973.4	977.6	992.8	1013.6	1039.9	1062.0	1066.2	1062.0	1057.9	943.0
27.5°	1055.1	1056.5	1056.5	1073.1	1092.5	1125.7	1153.4	1157.6	1157.6	1153.4	1034.3
30°	1168.7	1164.5	1161.7	1175.6	1196.3	1244.8	1293.3	1301.6	1297.4	1304.3	1163.1
32.5°	1363.9	1357.0	1333.4	1336.2	1348.7	1415.1	1496.8	1525.9	1524.5	1537.0	1370.8
35°	1633.9	1620.1	1585.4	1556.4	1555.0	1627.0	1751.6	1861.0	1859.6	1902.5	1686.5
37.5°	1938.5	1956.5	1891.4	1841.6	1826.4	1883.1	2043.8	2280.5	2293.0	2367.8	2100.5
40°	2345.6	2356.7	2273.6	2203.0	2131.0	2151.8	2363.6	2731.9	2754.1	2837.2	2514.5
42.5°	2700.1	2711.2	2662.7	2576.9	2485.5	2446.7	2686.2	3141.8	3159.8	3274.7	2941.0
45°	2941.0	2949.3	2965.9	2974.2	2870.4	2790.1	3080.9	3562.7	3584.9	3717.8	3357.8
47.5°	3129.3	3136.3	3169.5	3252.6	3231.8	3168.1	3482.4	4000.3	4005.8	4154.0	3763.5
50°	3216.6	3233.2	3314.9	3442.3	3533.6	3551.6	3918.6	4414.3	4429.5	4570.8	4147.1
52.5°	3119.6	3125.2	3331.5	3571.0	3755.2	3938.0	4356.1	4797.8	4842.2	4947.4	4491.8
55°	2792.9	2833.0	3145.9	3566.9	3929.7	4304.9	4824.2	5211.9	5252.0	5318.5	4795.1
57.5°	2413.5	2457.8	2838.6	3388.3	4004.4	4644.1	5257.5	5652.2	5679.9	5697.9	5073.4
60°	2085.3	2126.8	2518.7	3046.2	3929.7	4883.7	5660.5	6089.7	6113.3	6064.8	5213.2
62.5°	1682.4	1723.9	2118.5	2593.5	3636.1	4932.2	5959.6	6478.8	6488.5	6357.0	5127.4
65°	1268.3	1296.0	1625.6	2032.7	3122.4	4674.6	6027.4	6721.1	6711.4	6441.4	4869.8
66°	1136.8	1160.3	1451.1	1797.3	2855.2	4439.2	5936.0	6740.5	6730.8	6379.1	4700.9
67.5°	980.3	987.3	1226.8	1470.5	2388.5	3939.4	5657.7	6651.9	6660.2	6207.4	4392.1
70°	765.7	764.3	902.8	1023.3	1631.1	2802.5	4718.9	6093.9	6134.0	5559.4	3745.5
72.5°	490.2	473.6	553.9	625.9	949.9	1627.0	3440.9	4966.8	5034.6	4367.2	2790.1
75°	292.2	275.5	294.9	312.9	455.6	782.3	2023.0	3380.0	3445.0	2799.8	1660.2
77.5°	218.8	211.9	213.2	198.0	202.2	293.5	923.6	1786.2	1833.3	1146.5	630.0
80°	167.5	149.5	139.9	146.8	132.9	116.3	343.4	614.8	643.9	271.4	131.5
82.5°	112.2	96.9	90.0	98.3	84.5	65.1	83.1	119.1	116.3	73.4	51.2
85°	58.2	49.8	49.8	49.8	42.9	31.8	36.0	48.5	48.5	38.8	30.5
87.5°	16.6	15.2	18.0	16.6	12.5	12.5	13.8	16.6	16.6	15.2	13.8
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°	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7
2.5°	620.3	614.8	599.6	588.5	577.4	567.7	556.6	553.9	548.3	549.7	546.9
5°	624.5	609.2	582.9	558.0	538.6	522.0	501.2	492.9	481.9	477.7	474.9
7.5°	630.0	607.9	569.1	534.5	501.2	468.0	434.8	415.4	402.9	397.4	393.2
10°	642.5	613.4	562.2	508.2	451.4	404.3	371.1	357.2	348.9	347.5	346.2
12.5°	659.1	621.7	555.2	474.9	400.2	355.9	335.1	330.9	329.5	329.5	328.2
15°	684.0	635.6	544.2	436.2	360.0	329.5	319.9	312.9	310.2	310.2	310.2
17.5°	708.9	652.2	527.6	396.0	332.3	312.9	303.2	299.1	296.3	297.7	296.3
20°	740.8	671.6	505.4	361.4	314.3	299.1	289.4	285.2	283.9	283.9	283.9
22.5°	776.8	693.7	477.7	335.1	299.1	285.2	275.5	271.4	268.6	270.0	270.0
25°	825.3	721.4	448.6	308.8	283.9	271.4	260.3	254.8	254.8	256.2	257.5
27.5°	887.6	754.6	419.6	292.2	270.0	257.5	245.1	239.5	240.9	243.7	243.7
30°	979.0	800.3	390.5	274.2	254.8	240.9	229.9	224.3	227.1	232.6	232.6
32.5°	1109.1	875.1	365.5	253.4	232.6	217.4	206.3	202.2	209.1	220.2	220.2
35°	1341.7	1012.2	350.3	232.6	209.1	191.1	177.2	173.1	182.8	196.6	196.6
37.5°	1653.3	1232.3	355.9	214.6	189.7	168.9	153.7	148.2	155.1	167.5	171.7
40°	2000.8	1498.2	404.3	199.4	171.7	150.9	135.7	130.2	134.3	139.9	141.2
42.5°	2348.4	1780.7	495.7	188.3	157.9	135.7	121.8	117.7	120.5	121.8	123.2
45°	2694.5	2060.4	610.6	181.4	145.4	123.2	109.4	109.4	110.8	110.8	110.8
47.5°	3022.7	2333.2	731.1	180.0	134.3	110.8	99.7	101.1	101.1	102.5	102.5
50°	3332.9	2576.9	852.9	184.2	124.6	99.7	91.4	91.4	91.4	92.8	91.4
52.5°	3591.8	2790.1	980.3	191.1	114.9	91.4	83.1	83.1	83.1	84.5	83.1
55°	3836.9	2983.9	1110.5	200.8	106.6	84.5	76.2	73.4	73.4	74.8	73.4
57.5°	4036.3	3112.7	1233.7	202.2	99.7	77.5	70.6	66.5	66.5	66.5	66.5
60°	4044.6	3037.9	1269.7	177.2	91.4	70.6	63.7	58.2	59.5	59.5	59.5
62.5°	3780.1	2644.7	1020.5	132.9	81.7	63.7	58.2	52.6	52.6	52.6	52.6
65°	3260.9	2057.6	598.2	105.2	70.6	56.8	51.2	47.1	47.1	47.1	45.7
66°	3017.2	1804.2	458.3	95.5	66.5	55.4	49.8	45.7	44.3	42.9	42.9
67.5°	2619.8	1426.2	286.6	84.5	60.9	51.2	45.7	41.5	40.2	38.8	38.8
70°	1973.1	905.6	139.9	65.1	52.6	44.3	40.2	36.0	34.6	33.2	31.8
72.5°	1384.7	530.3	73.4	49.8	42.9	38.8	34.6	30.5	29.1	27.7	27.7
75°	782.3	256.2	48.5	36.0	34.6	31.8	29.1	24.9	23.5	23.5	23.5
77.5°	296.3	88.6	33.2	26.3	27.7	24.9	20.8	20.8	19.4	20.8	19.4
80°	77.5	38.8	20.8	19.4	20.8	18.0	15.2	16.6	16.6	16.6	16.6
82.5°	41.5	22.2	12.5	13.8	12.5	12.5	9.7	11.1	12.5	11.1	12.5
85°	29.1	11.1	6.9	6.9	5.5	5.5	4.2	5.5	6.9	5.5	5.5
87.5°	15.2	4.2	4.2	4.2	4.2	2.8	1.4	0.0	1.4	1.4	1.4
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)