

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: P1210330

Luminaire Tested: **ARCH2-90-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210330
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: ARCH2-90-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

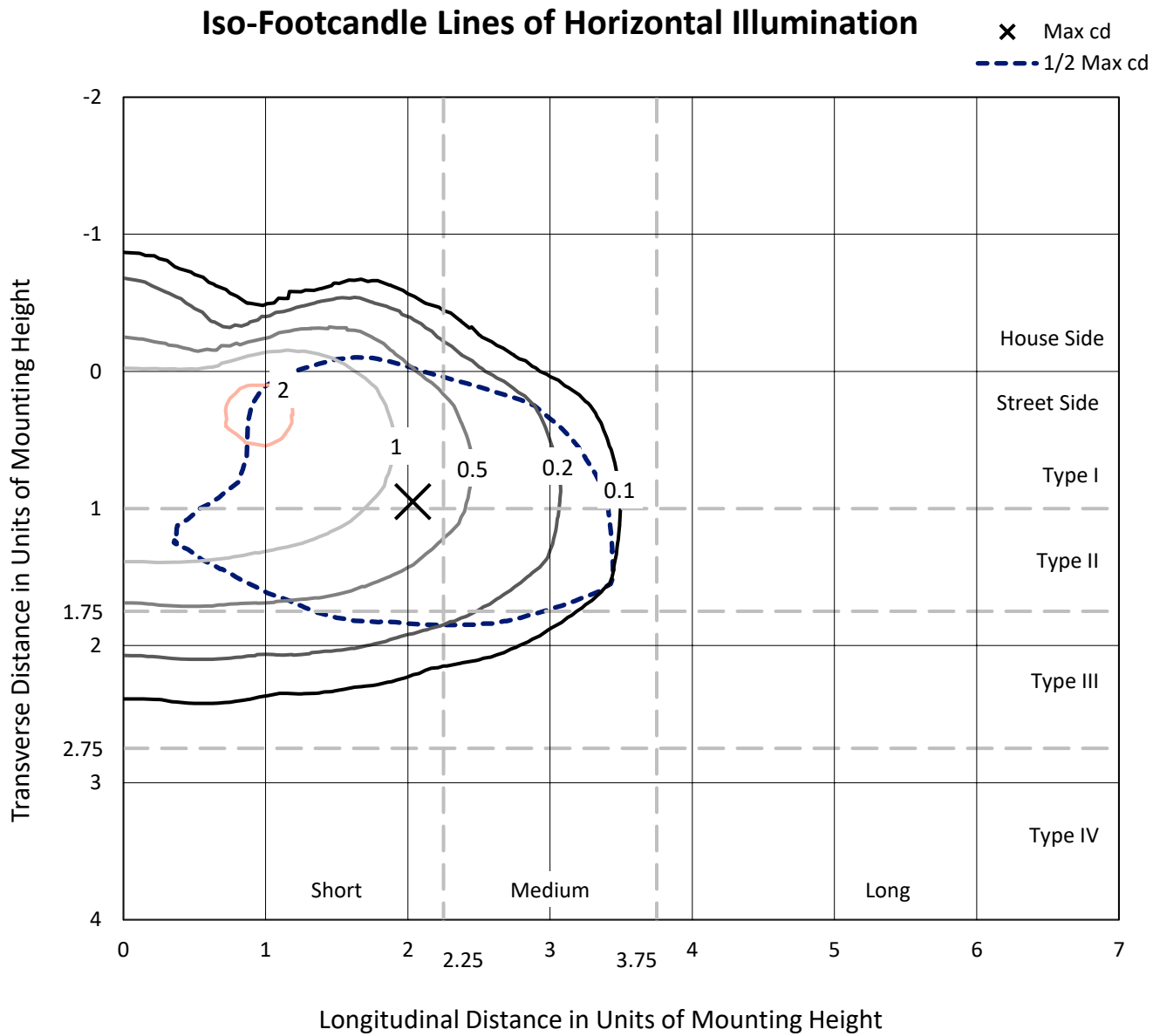
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8234 lumens
Efficiency: N/A
Efficacy: 87.9 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): 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

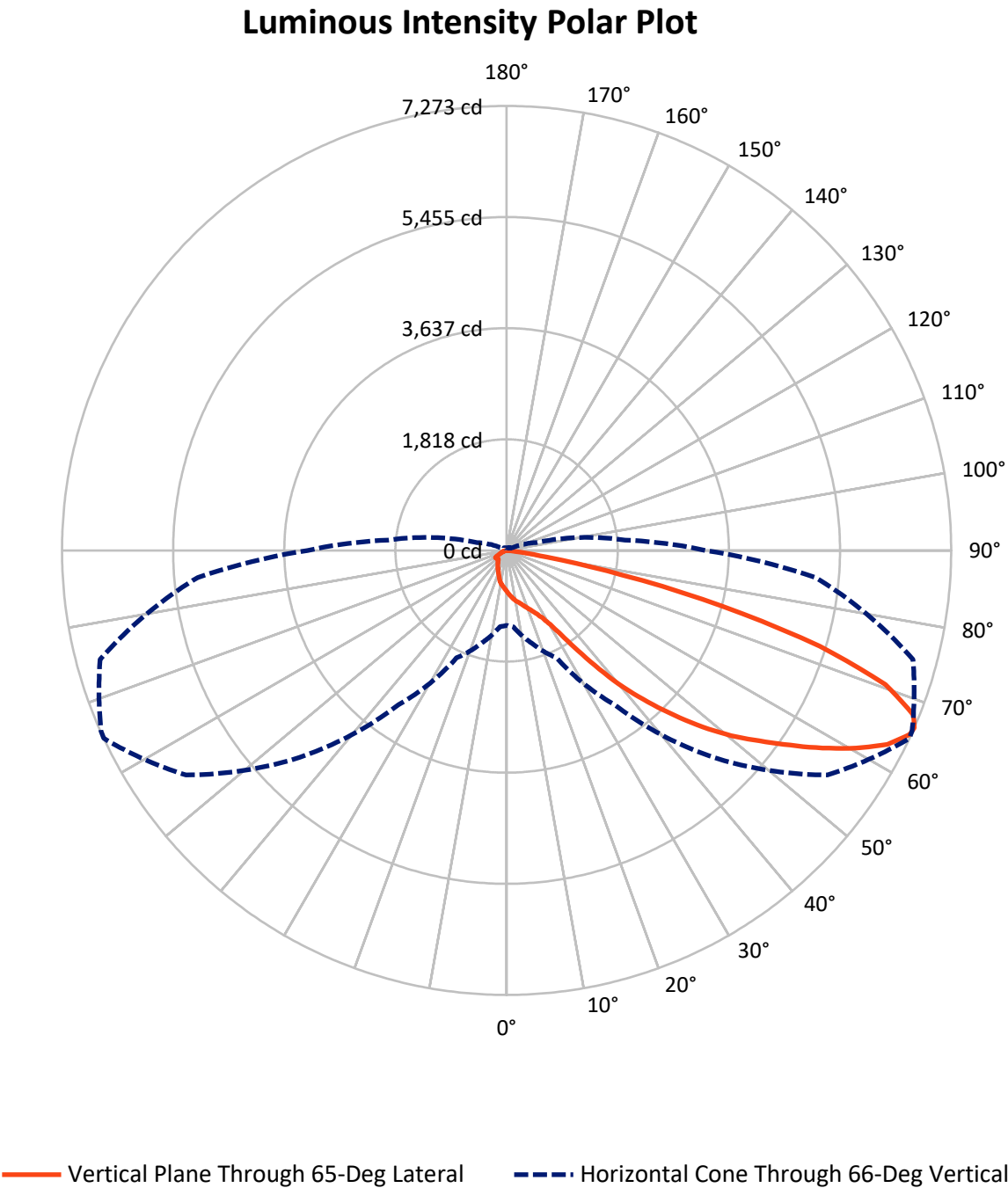


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Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Short - N/A

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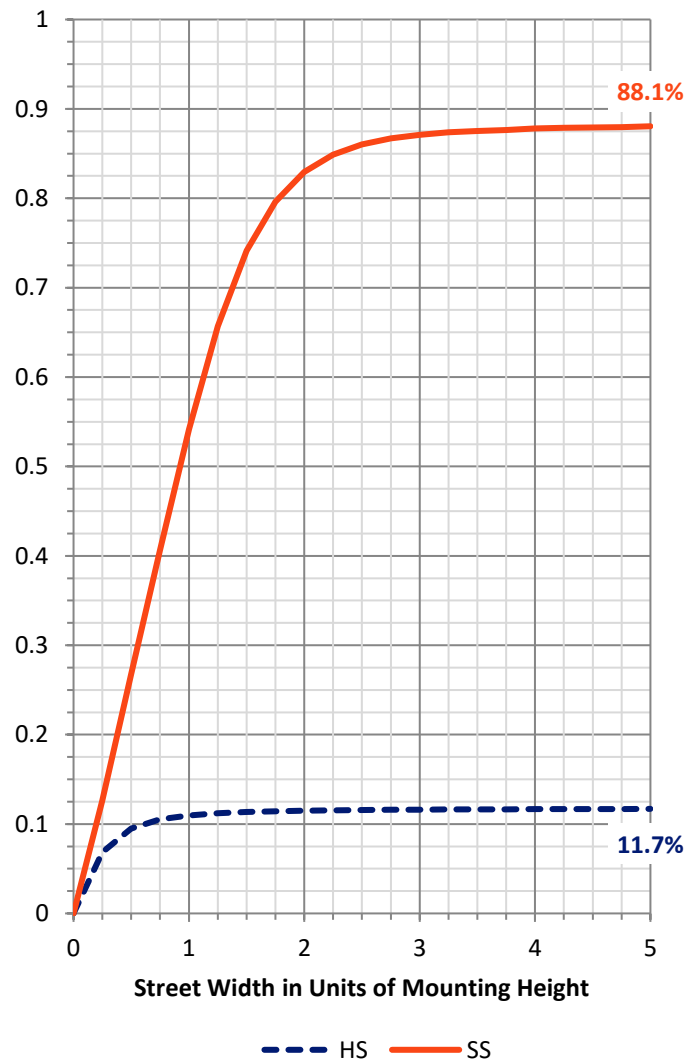
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	971.8	0.0	971.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7262.2	0.0	7262.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	8234.0	0.0	8234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	0.8
10°-20°	188.3	2.3
20°-30°	344.6	4.2
30°-40°	700.2	8.5
40°-50°	1478.6	18.0
50°-60°	2273.1	27.6
60°-70°	2288.0	27.8
70°-80°	854.9	10.4
80°-90°	42.7	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°	8234.0	100.0
0°-180°	8234.0	100.0

Coefficient of Utilization



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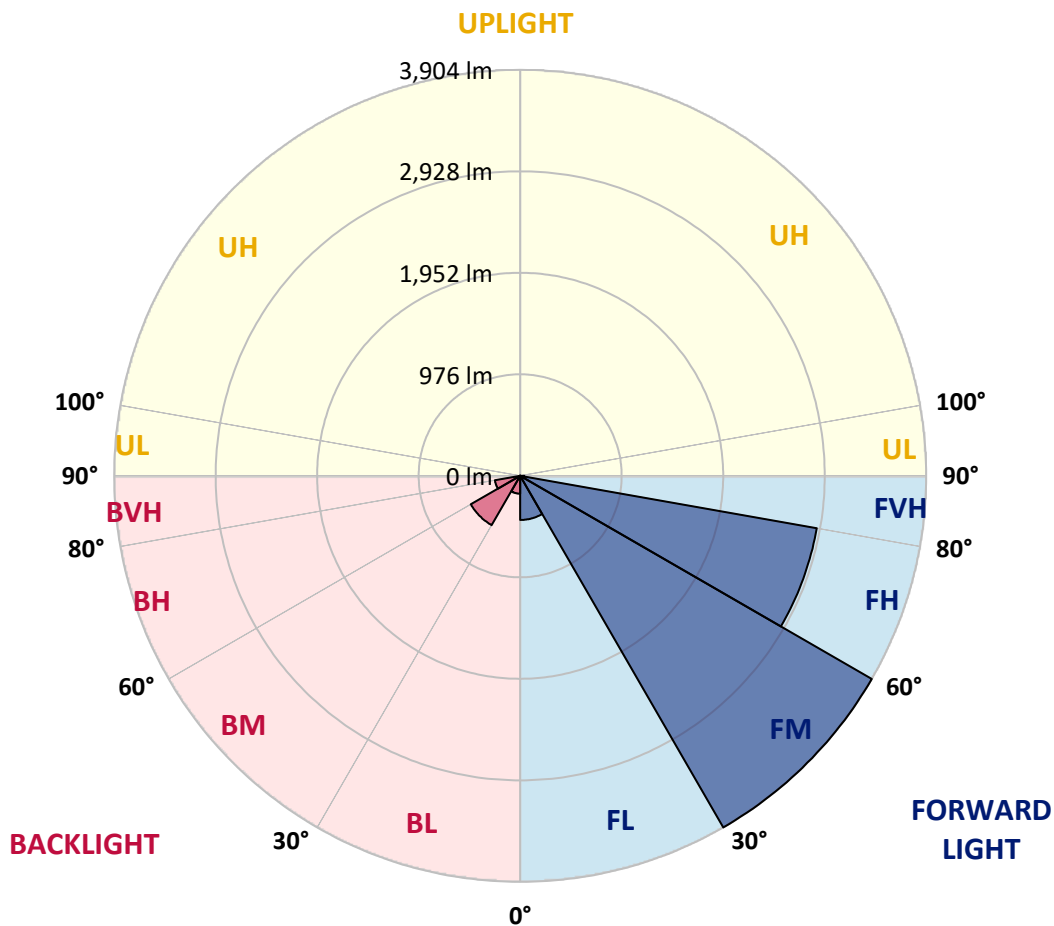
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	424.5	5.2			
FM	(30°-60°)	3904.0	47.4			
FH	(60°-80°)	2896.1	35.2			G2/5000
FVH	(80°-90°)	37.7	0.5			G1/100
BL	(0°-30°)	172.0	2.1	B1/500		
BM	(30°-60°)	547.9	6.7	B1/1000		
BH	(60°-80°)	246.9	3.0	B1/500		G1/500
BVH	(80°-90°)	5.0	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°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	765.0	766.5	763.5	757.5	751.5	744.0	732.1	712.7	709.7	696.2	681.3
5°	817.3	820.2	815.8	814.3	811.3	800.8	784.4	756.0	753.0	726.1	691.8
7.5°	835.2	839.7	836.7	836.7	836.7	832.2	824.7	799.3	794.8	760.5	708.2
10°	848.6	851.6	850.1	856.1	860.6	857.6	853.1	838.2	833.7	799.3	730.6
12.5°	869.6	871.0	872.5	875.5	883.0	886.0	884.5	871.0	868.1	844.2	759.0
15°	889.0	889.0	890.5	903.9	914.4	920.3	921.8	911.4	908.4	889.0	794.8
17.5°	906.9	908.4	912.9	927.8	945.7	957.7	965.2	960.7	956.2	941.3	836.7
20°	933.8	936.8	941.3	962.2	980.1	999.5	1014.5	1013.0	1011.5	1001.0	886.0
22.5°	980.1	983.1	990.6	1010.0	1027.9	1051.8	1077.2	1075.7	1071.3	1063.8	944.3
25°	1050.3	1050.3	1054.8	1071.3	1093.7	1122.0	1146.0	1150.4	1146.0	1141.5	1017.5
27.5°	1138.5	1140.0	1140.0	1157.9	1178.8	1214.7	1244.6	1249.0	1249.0	1244.6	1116.1
30°	1261.0	1256.5	1253.5	1268.5	1290.9	1343.2	1395.5	1404.4	1399.9	1407.4	1255.0
32.5°	1471.7	1464.2	1438.8	1441.8	1455.2	1526.9	1615.1	1646.5	1645.0	1658.4	1479.1
35°	1763.0	1748.1	1710.7	1679.3	1677.8	1755.5	1890.0	2008.0	2006.5	2052.9	1819.8
37.5°	2091.7	2111.1	2040.9	1987.1	1970.7	2031.9	2205.3	2460.7	2474.2	2554.9	2266.5
40°	2531.0	2542.9	2453.3	2377.1	2299.4	2321.8	2550.4	2947.8	2971.7	3061.4	2713.2
42.5°	2913.4	2925.4	2873.1	2780.5	2681.9	2640.0	2898.5	3390.1	3409.5	3533.5	3173.4
45°	3173.4	3182.4	3200.3	3209.3	3097.2	3010.6	3324.3	3844.3	3868.2	4011.6	3623.1
47.5°	3376.6	3384.1	3419.9	3509.6	3487.2	3418.4	3757.6	4316.4	4322.4	4482.2	4060.9
50°	3470.7	3488.7	3576.8	3714.3	3812.9	3832.3	4228.2	4763.1	4779.5	4931.9	4474.8
52.5°	3366.1	3372.1	3594.7	3853.2	4051.9	4249.1	4700.4	5177.0	5224.8	5338.3	4846.8
55°	3013.5	3056.9	3394.5	3848.7	4240.2	4645.1	5205.4	5623.7	5667.0	5738.7	5174.0
57.5°	2604.2	2652.0	3062.9	3656.0	4320.9	5011.1	5673.0	6098.8	6128.7	6148.1	5474.3
60°	2250.1	2294.9	2717.7	3287.0	4240.2	5269.6	6107.8	6570.9	6596.3	6544.0	5625.2
62.5°	1815.3	1860.1	2285.9	2798.4	3923.4	5321.9	6430.5	6990.8	7001.2	6859.3	5532.6
65°	1368.6	1398.5	1754.0	2193.3	3369.1	5044.0	6503.7	7252.2	7241.8	6950.4	5254.7
66°	1226.6	1252.0	1565.8	1939.3	3080.8	4790.0	6405.1	7273.2	7262.7	6883.2	5072.4
67.5°	1057.8	1065.3	1323.7	1586.7	2577.3	4250.6	6104.8	7177.5	7186.5	6697.9	4739.2
70°	826.2	824.7	974.1	1104.1	1760.0	3024.0	5091.8	6575.4	6618.7	5998.7	4041.5
72.5°	528.9	511.0	597.6	675.3	1024.9	1755.5	3712.8	5359.2	5432.5	4712.3	3010.6
75°	315.2	297.3	318.2	337.7	491.6	844.2	2182.8	3647.0	3717.3	3021.0	1791.4
77.5°	236.1	228.6	230.1	213.7	218.1	316.7	996.5	1927.4	1978.2	1237.1	679.8
80°	180.8	161.4	150.9	158.4	143.4	125.5	370.5	663.4	694.7	292.8	141.9
82.5°	121.0	104.6	97.1	106.1	91.1	70.2	89.6	128.5	125.5	79.2	55.3
85°	62.8	53.8	53.8	53.8	46.3	34.4	38.8	52.3	52.3	41.8	32.9
87.5°	17.9	16.4	19.4	17.9	13.4	13.4	14.9	17.9	17.9	16.4	14.9
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°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	669.3	663.4	646.9	635.0	623.0	612.6	600.6	597.6	591.7	593.1	590.2
5°	673.8	657.4	629.0	602.1	581.2	563.3	540.9	531.9	519.9	515.5	512.5
7.5°	679.8	655.9	614.1	576.7	540.9	505.0	469.1	448.2	434.8	428.8	424.3
10°	693.3	661.9	606.6	548.3	487.1	436.3	400.4	385.5	376.5	375.0	373.5
12.5°	711.2	670.8	599.1	512.5	431.8	384.0	361.6	357.1	355.6	355.6	354.1
15°	738.1	685.8	587.2	470.6	388.5	355.6	345.1	337.7	334.7	334.7	334.7
17.5°	765.0	703.7	569.2	427.3	358.6	337.7	327.2	322.7	319.7	321.2	319.7
20°	799.3	724.6	545.3	390.0	339.2	322.7	312.3	307.8	306.3	306.3	306.3
22.5°	838.2	748.5	515.5	361.6	322.7	307.8	297.3	292.8	289.9	291.3	291.3
25°	890.5	778.4	484.1	333.2	306.3	292.8	280.9	274.9	274.9	276.4	277.9
27.5°	957.7	814.3	452.7	315.2	291.3	277.9	264.5	258.5	260.0	263.0	263.0
30°	1056.3	863.6	421.3	295.8	274.9	260.0	248.0	242.0	245.0	251.0	251.0
32.5°	1196.8	944.3	394.4	273.4	251.0	234.6	222.6	218.1	225.6	237.6	237.6
35°	1447.8	1092.2	378.0	251.0	225.6	206.2	191.2	186.8	197.2	212.2	212.2
37.5°	1783.9	1329.7	384.0	231.6	204.7	182.3	165.8	159.9	167.3	180.8	185.3
40°	2158.9	1616.6	436.3	215.1	185.3	162.9	146.4	140.4	144.9	150.9	152.4
42.5°	2533.9	1921.4	534.9	203.2	170.3	146.4	131.5	127.0	130.0	131.5	133.0
45°	2907.5	2223.2	658.9	195.7	156.9	133.0	118.0	118.0	119.5	119.5	119.5
47.5°	3261.6	2517.5	788.9	194.2	144.9	119.5	107.6	109.1	109.1	110.6	110.6
50°	3596.2	2780.5	920.3	198.7	134.5	107.6	98.6	98.6	98.6	100.1	98.6
52.5°	3875.6	3010.6	1057.8	206.2	124.0	98.6	89.6	89.6	89.6	91.1	89.6
55°	4140.1	3219.7	1198.2	216.6	115.0	91.1	82.2	79.2	79.2	80.7	79.2
57.5°	4355.2	3358.7	1331.2	218.1	107.6	83.7	76.2	71.7	71.7	71.7	71.7
60°	4364.2	3278.0	1370.1	191.2	98.6	76.2	68.7	62.8	64.2	64.2	64.2
62.5°	4078.8	2853.7	1101.1	143.4	88.2	68.7	62.8	56.8	56.8	56.8	56.8
65°	3518.5	2220.2	645.4	113.5	76.2	61.3	55.3	50.8	50.8	50.8	49.3
66°	3255.6	1946.8	494.5	103.1	71.7	59.8	53.8	49.3	47.8	46.3	46.3
67.5°	2826.8	1538.9	309.3	91.1	65.7	55.3	49.3	44.8	43.3	41.8	41.8
70°	2129.1	977.1	150.9	70.2	56.8	47.8	43.3	38.8	37.4	35.9	34.4
72.5°	1494.1	572.2	79.2	53.8	46.3	41.8	37.4	32.9	31.4	29.9	29.9
75°	844.2	276.4	52.3	38.8	37.4	34.4	31.4	26.9	25.4	25.4	25.4
77.5°	319.7	95.6	35.9	28.4	29.9	26.9	22.4	22.4	20.9	22.4	20.9
80°	83.7	41.8	22.4	20.9	22.4	19.4	16.4	17.9	17.9	17.9	17.9
82.5°	44.8	23.9	13.4	14.9	13.4	13.4	10.5	12.0	13.4	12.0	13.4
85°	31.4	12.0	7.5	7.5	6.0	6.0	4.5	6.0	7.5	6.0	6.0
87.5°	16.4	4.5	4.5	4.5	4.5	3.0	1.5	0.0	1.5	1.5	1.5
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)