

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: P1210004

Luminaire Tested: **ARCH1-50-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210004
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: ARCH1-50-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

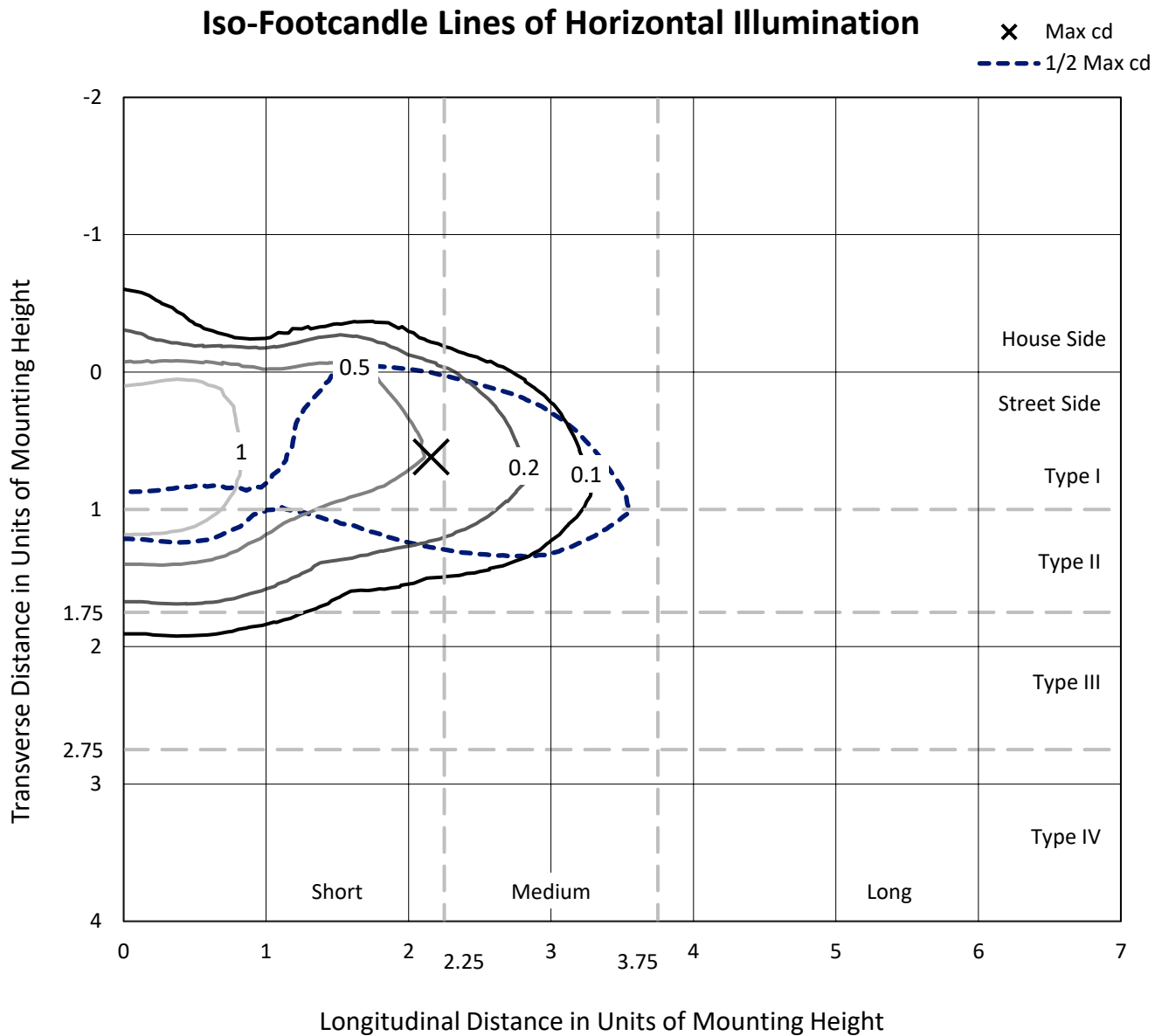
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4176.9 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53
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



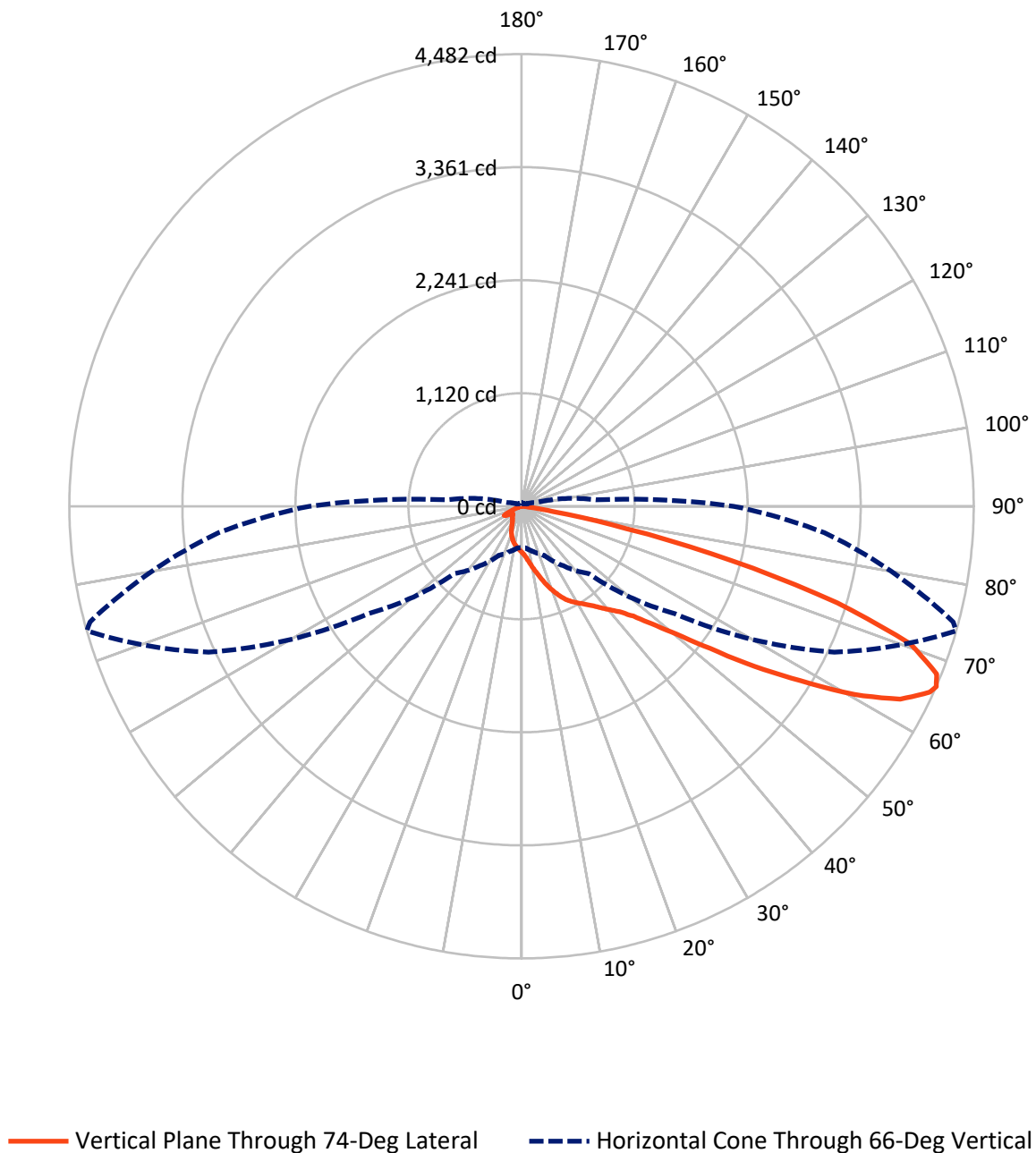
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Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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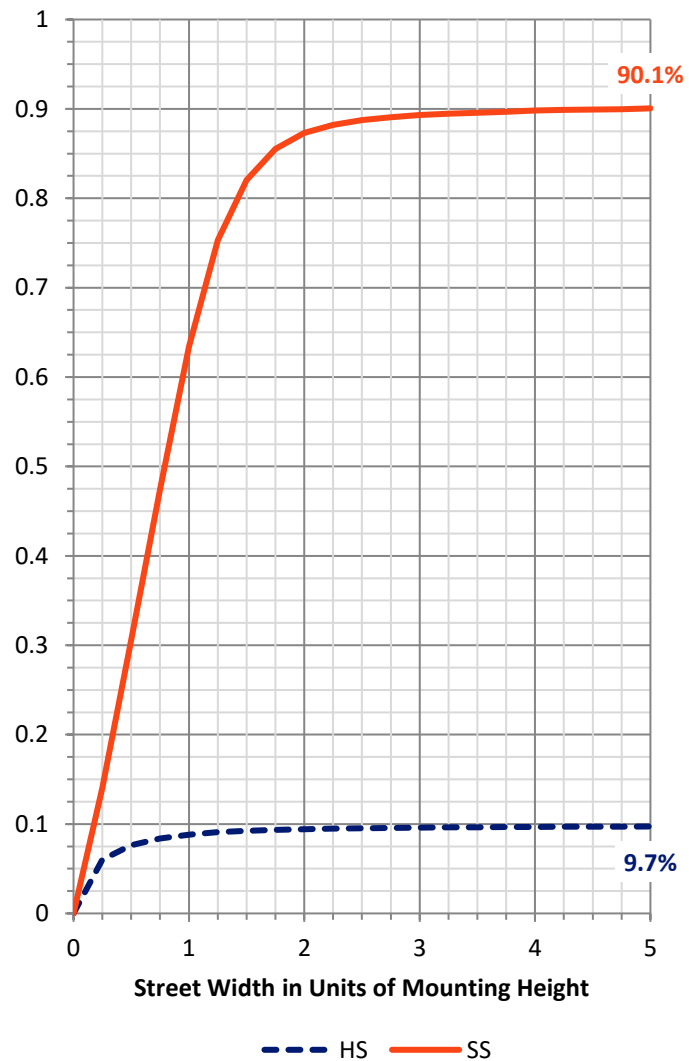
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	409.4	0.0	409.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	3767.5	0.0	3767.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	4176.9	0.0	4176.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	1.1
10°-20°	142.7	3.4
20°-30°	272.3	6.5
30°-40°	477.2	11.4
40°-50°	818.3	19.6
50°-60°	1064.3	25.5
60°-70°	963.5	23.1
70°-80°	371.7	8.9
80°-90°	22.3	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°	4176.9	100.0
0°-180°	4176.9	100.0

Coefficient of Utilization



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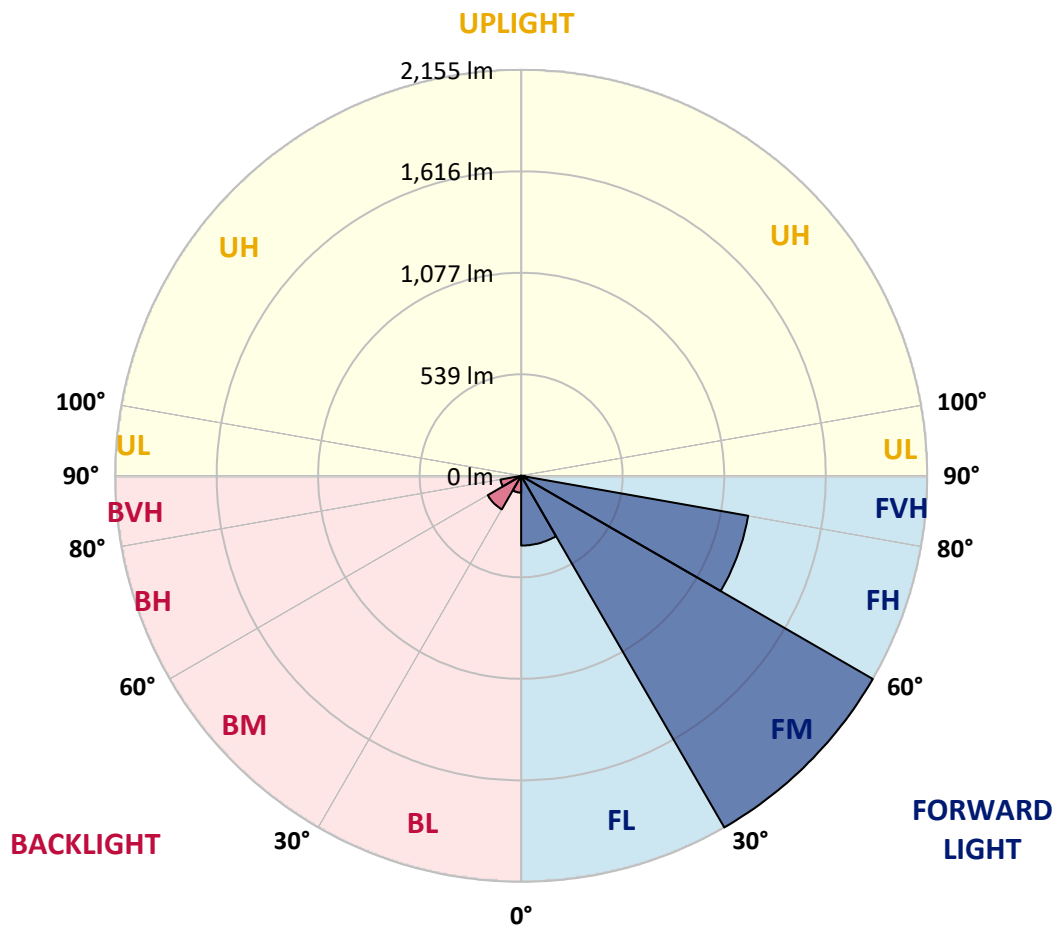
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	370.1	8.9			
FM	(30°-60°)	2154.7	51.6			
FH	(60°-80°)	1223.3	29.3			G1/1800
FVH	(80°-90°)	19.4	0.5			G1/100
BL	(0°-30°)	89.3	2.1	B0/110		
BM	(30°-60°)	205.2	4.9	B0/220		
BH	(60°-80°)	111.9	2.7	B1/500		G1/500
BVH	(80°-90°)	3.0	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0
2.5°	547.4	542.9	534.7	533.9	527.2	518.9	504.7	489.7	479.2	477.7	465.0
5°	655.4	653.2	644.9	639.7	626.9	607.4	574.4	541.4	513.7	510.7	482.2
7.5°	683.9	685.4	686.9	692.2	687.7	678.7	653.9	607.4	563.9	557.2	507.7
10°	688.4	686.9	686.9	693.7	706.4	719.2	716.2	676.4	620.2	611.9	542.9
12.5°	737.2	739.4	734.2	731.2	728.9	735.7	758.2	740.9	679.4	672.7	585.7
15°	800.2	799.4	791.9	791.9	785.2	773.9	788.2	800.9	750.7	742.4	634.4
17.5°	845.9	848.9	848.2	852.7	850.4	835.4	827.9	854.2	824.2	813.7	689.9
20°	882.7	890.9	893.9	908.2	914.9	904.4	884.9	901.4	894.7	884.9	746.2
22.5°	921.7	928.4	933.7	958.4	977.2	974.9	950.2	946.4	962.9	953.9	801.7
25°	960.7	963.7	979.4	1009.4	1039.4	1046.9	1021.4	992.2	1024.4	1016.2	851.2
27.5°	1003.4	1004.9	1023.7	1060.4	1102.4	1118.1	1097.9	1043.9	1071.6	1071.6	896.2
30°	1081.4	1096.4	1103.9	1136.9	1173.6	1195.4	1171.4	1098.6	1113.6	1120.4	943.4
32.5°	1249.4	1251.6	1249.4	1263.6	1271.1	1283.9	1256.1	1160.1	1156.4	1163.9	989.9
35°	1505.9	1496.9	1472.9	1451.9	1408.4	1384.4	1348.4	1238.9	1208.9	1219.4	1035.6
37.5°	1817.1	1804.3	1749.6	1685.1	1592.1	1496.1	1451.1	1334.9	1275.6	1289.1	1085.1
40°	2114.0	2105.8	2040.6	1961.1	1802.1	1637.8	1542.6	1415.9	1349.9	1355.1	1135.4
42.5°	2358.5	2357.0	2302.3	2219.0	2015.1	1790.8	1650.6	1495.4	1427.9	1436.1	1187.9
45°	2543.8	2529.5	2489.0	2429.0	2221.3	1949.8	1781.1	1616.1	1553.1	1562.8	1266.6
47.5°	2543.8	2546.0	2572.2	2566.3	2365.3	2099.0	1923.6	1768.3	1738.3	1747.3	1396.4
50°	2336.8	2357.8	2474.8	2573.0	2440.3	2215.3	2077.3	1958.8	1989.6	2003.1	1622.8
52.5°	1927.3	1962.6	2165.8	2390.0	2384.8	2273.8	2236.3	2201.0	2339.0	2363.0	1957.3
55°	1464.6	1487.9	1752.6	2047.3	2143.3	2225.8	2375.0	2508.5	2801.7	2796.5	2297.0
57.5°	1094.1	1115.9	1343.9	1670.8	1797.6	2018.1	2446.3	2860.2	3260.7	3280.9	2615.7
60°	804.7	821.2	1015.4	1283.9	1466.9	1700.1	2417.8	3206.7	3789.4	3766.1	2897.0
62.5°	595.4	604.4	744.7	919.4	1162.4	1385.1	2238.5	3443.7	4211.6	4164.3	3053.7
65°	460.5	463.5	536.2	629.2	845.2	1076.9	1971.6	3479.7	4444.8	4394.6	3050.7
66°	410.2	412.5	465.7	537.7	719.2	942.7	1854.6	3421.9	4481.6	4428.3	3013.2
67.5°	344.2	342.7	374.2	421.5	539.9	727.4	1646.8	3253.2	4438.1	4411.1	2893.2
70°	255.0	255.7	271.5	282.7	315.7	402.7	1189.4	2822.0	4090.1	4088.6	2564.0
72.5°	189.0	191.2	203.2	205.5	197.2	218.2	685.4	2244.5	3271.9	3272.7	1916.8
75°	141.7	145.5	149.2	150.7	143.2	138.0	309.7	1510.4	2152.3	2136.5	1085.1
77.5°	108.0	109.5	112.5	110.2	108.7	95.2	129.0	736.4	1062.6	968.2	351.7
80°	78.7	78.7	81.7	78.7	78.0	68.2	70.5	236.2	312.0	259.5	75.7
82.5°	49.5	48.7	51.0	50.2	48.7	43.5	41.2	66.0	72.0	64.5	36.7
85°	27.7	27.0	26.2	25.5	23.2	19.5	22.5	24.7	33.0	33.7	26.2
87.5°	9.7	9.7	9.0	8.2	6.7	6.7	8.2	8.2	12.0	12.0	13.5
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°	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0
2.5°	459.0	450.7	438.7	423.0	411.7	400.5	388.5	381.7	372.0	369.7	372.7
5°	467.2	452.2	422.2	389.2	360.7	335.2	311.2	297.0	282.7	277.5	279.7
7.5°	484.5	459.0	408.0	354.7	307.5	269.2	240.7	224.2	211.5	206.2	207.7
10°	510.0	471.0	394.5	315.7	255.0	214.5	190.5	180.0	172.5	169.5	170.2
12.5°	540.7	488.2	377.2	276.7	210.0	174.7	163.5	161.2	159.7	158.2	159.0
15°	575.2	503.2	357.0	238.5	174.7	155.2	151.5	150.7	150.0	150.0	150.0
17.5°	611.2	516.7	334.5	202.5	152.2	143.2	141.0	141.0	141.0	141.7	141.7
20°	644.9	527.2	308.2	170.2	139.5	132.0	130.5	130.5	131.2	132.0	132.0
22.5°	677.9	531.7	277.5	147.7	129.0	122.2	120.0	120.0	120.0	120.7	120.7
25°	706.4	531.7	246.7	133.5	120.0	113.2	110.2	109.5	110.2	110.2	110.2
27.5°	730.4	529.4	216.7	123.7	111.0	104.2	101.2	100.5	102.0	102.7	102.7
30°	755.9	526.4	192.7	114.7	103.5	96.7	93.7	93.7	96.0	99.0	99.0
32.5°	780.7	528.7	174.0	107.2	96.0	90.7	87.7	88.5	93.0	97.5	97.5
35°	806.9	533.2	162.7	102.0	90.7	85.5	83.2	85.5	90.0	94.5	94.5
37.5°	833.2	538.4	156.0	97.5	86.2	81.0	79.5	82.5	87.7	92.2	93.0
40°	860.9	542.9	148.5	93.0	83.2	77.2	76.5	79.5	86.2	90.7	91.5
42.5°	895.4	551.9	139.5	89.2	80.2	72.7	73.5	75.7	82.5	89.2	90.0
45°	962.9	580.4	130.5	85.5	76.5	70.5	69.0	70.5	78.0	85.5	87.0
47.5°	1089.6	644.9	120.7	81.7	72.7	69.0	63.0	64.5	71.2	79.5	80.2
50°	1332.6	782.2	115.5	78.0	69.7	63.7	57.0	57.0	62.2	69.7	69.7
52.5°	1711.3	1028.2	118.5	75.0	66.0	58.5	51.7	51.0	54.0	59.2	59.2
55°	2120.0	1298.1	129.7	72.0	61.5	55.5	48.0	44.2	46.5	49.5	49.5
57.5°	2444.0	1433.9	160.5	70.5	56.2	53.2	43.5	38.2	40.5	43.5	43.5
60°	2586.5	1354.4	195.0	72.0	52.5	49.5	39.0	33.7	37.5	40.5	41.2
62.5°	2471.0	1115.1	209.2	68.2	47.2	44.2	38.2	31.5	36.0	38.2	39.0
65°	2221.3	847.4	163.5	59.2	43.5	38.2	34.5	30.0	33.7	36.0	36.0
66°	2102.8	738.7	139.5	54.7	42.0	36.0	33.0	30.0	33.0	34.5	35.2
67.5°	1919.1	582.7	103.5	48.0	39.0	33.0	30.7	28.5	31.5	33.0	33.0
70°	1500.6	347.2	62.2	37.5	33.7	29.2	27.7	26.2	28.5	29.2	29.2
72.5°	939.7	165.0	39.7	27.7	28.5	27.7	23.2	24.7	25.5	26.2	26.2
75°	455.2	65.2	27.0	20.2	23.2	26.2	18.7	21.7	22.5	24.0	23.2
77.5°	126.7	31.5	17.2	15.0	20.2	20.2	14.2	17.2	20.2	25.5	23.2
80°	36.7	20.2	11.2	11.2	14.2	14.2	9.7	12.0	13.5	15.0	15.7
82.5°	25.5	13.5	7.5	8.2	8.2	9.0	6.0	6.0	7.5	7.5	8.2
85°	20.2	6.0	4.5	5.2	3.7	4.5	3.0	3.0	3.7	3.0	3.0
87.5°	8.2	3.0	3.0	3.0	2.2	2.2	1.5	0.7	0.7	0.7	0.7
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)