

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: P799170

Luminaire Tested: **ARCH1-60-750-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799170
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: ARCH1-60-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

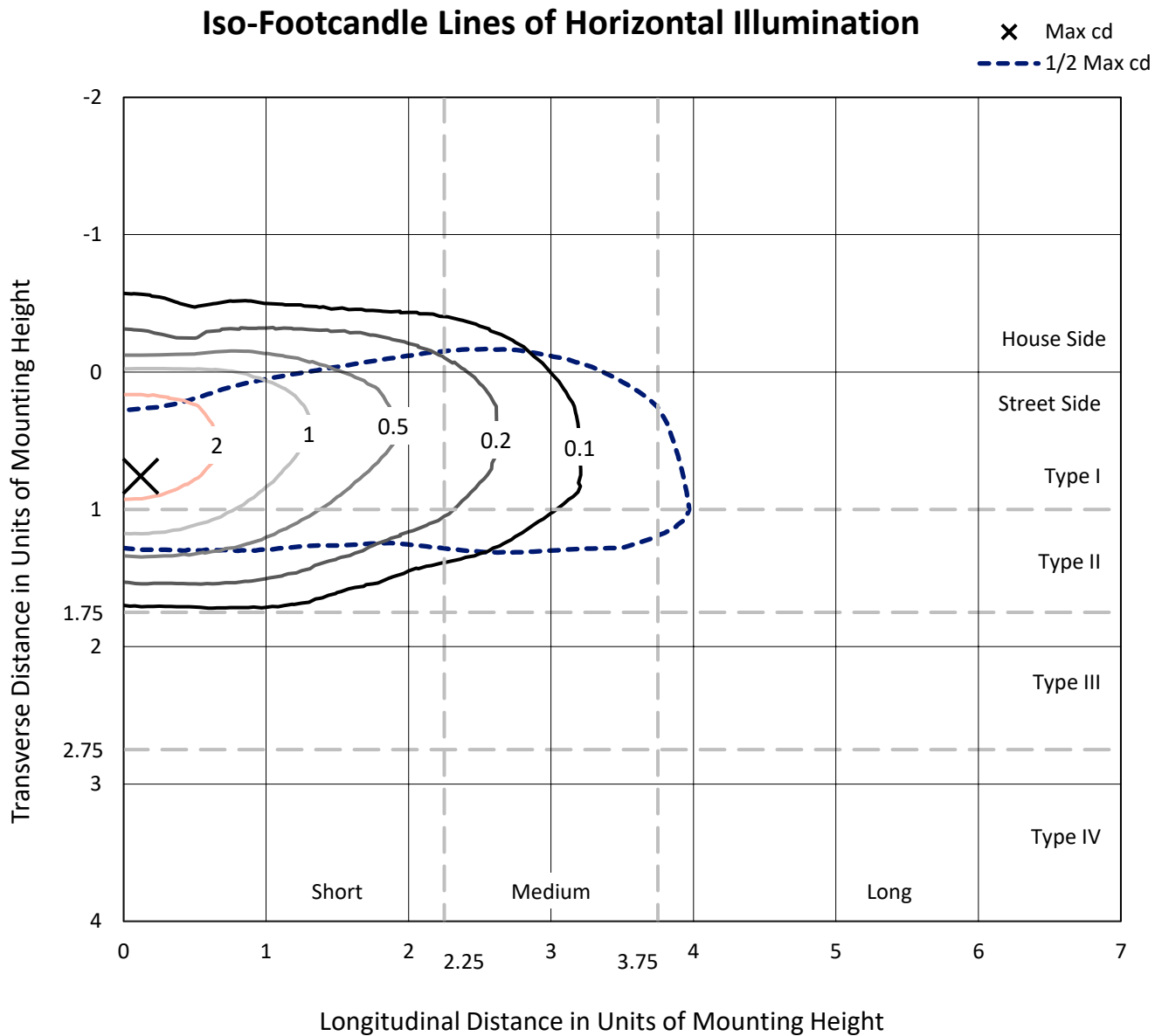
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5281 lumens
Efficiency: N/A
Efficacy: 88.0 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): 60
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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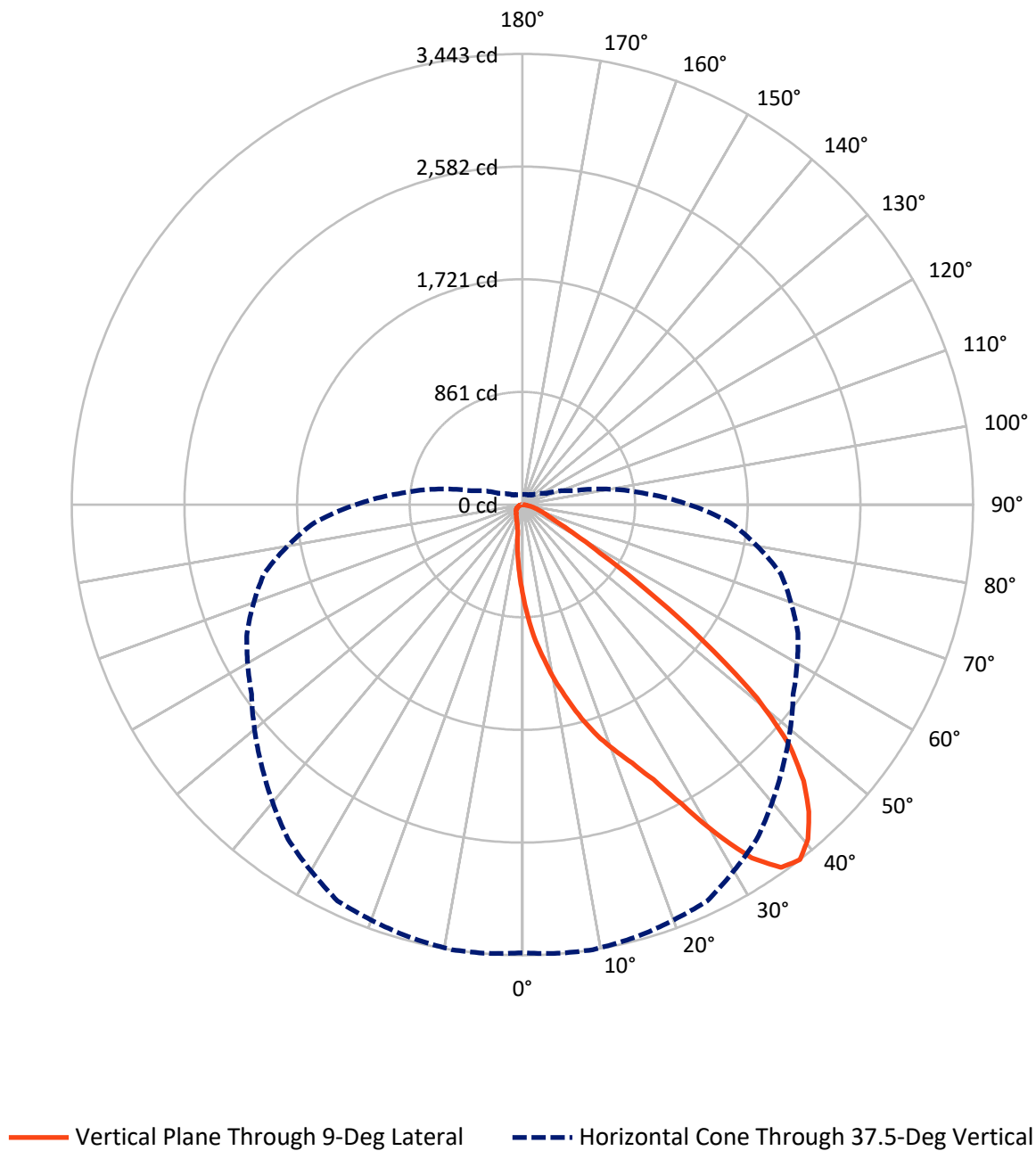


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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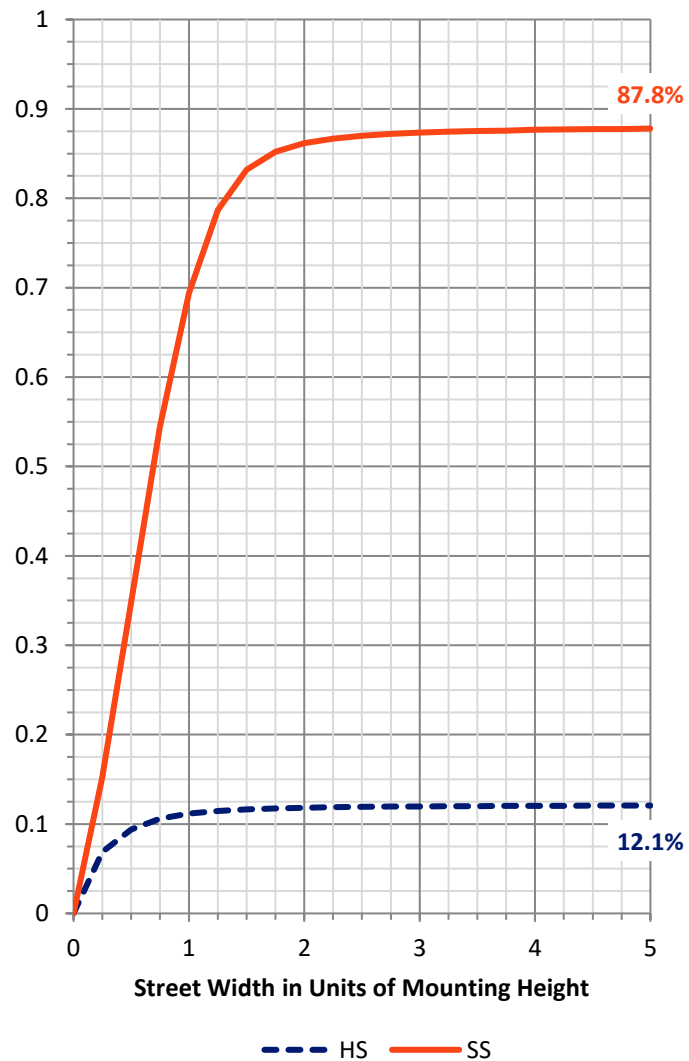
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	642.3	0.0	642.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4638.7	0.0	4638.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	5281.0	0.0	5281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.3
10°-20°	243.9	4.6
20°-30°	501.1	9.5
30°-40°	885.8	16.8
40°-50°	1176.7	22.3
50°-60°	1116.0	21.1
60°-70°	851.4	16.1
70°-80°	412.8	7.8
80°-90°	23.2	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°	5281.0	100.0
0°-180°	5281.0	100.0

Coefficient of Utilization



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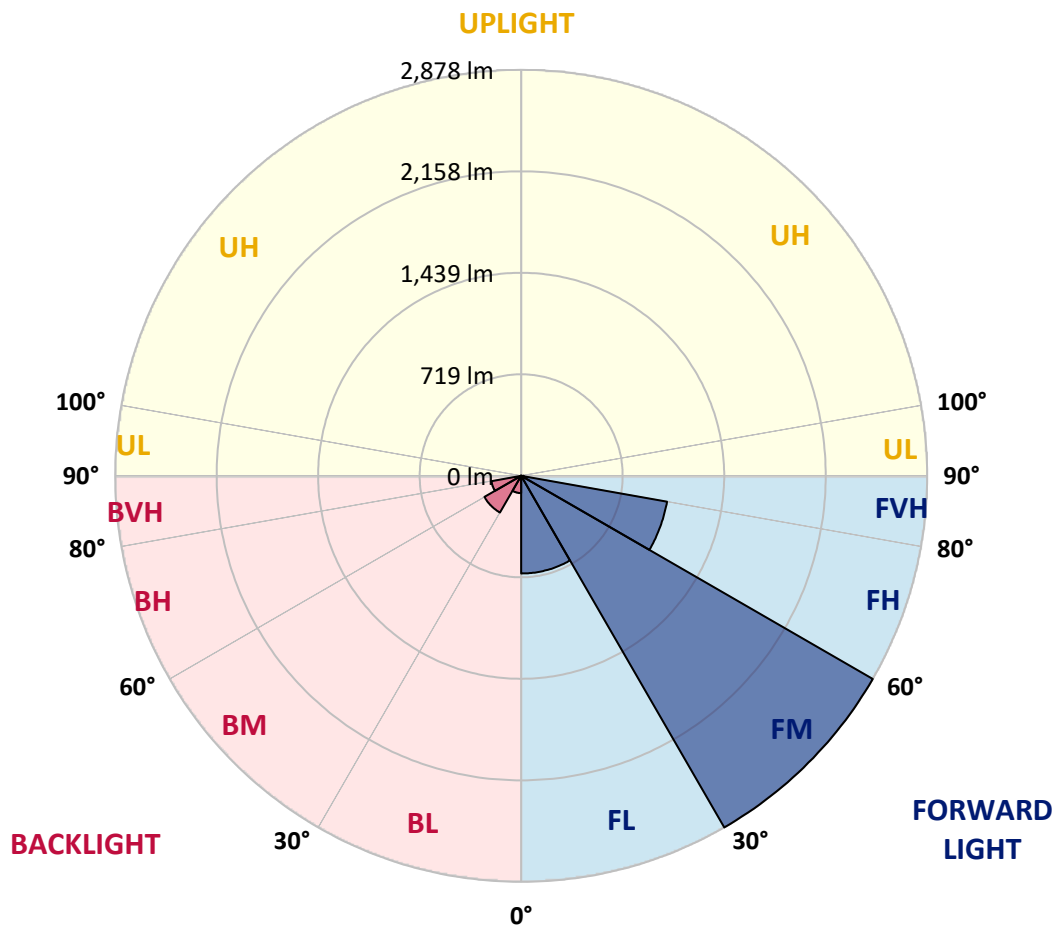
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	692.6	13.1			
FM	(30°-60°)	2877.9	54.5			
FH	(60°-80°)	1049.8	19.9			G1/1800
FVH	(80°-90°)	18.4	0.3			G1/100
BL	(0°-30°)	122.6	2.3	B1/500		
BM	(30°-60°)	300.5	5.7	B1/1000		
BH	(60°-80°)	214.3	4.1	B1/500		G1/500
BVH	(80°-90°)	4.8	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°	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1
2.5°	865.0	849.8	867.2	865.0	849.8	840.1	809.7	800.0	764.2	738.2	715.4
5°	1042.8	1027.6	1042.8	1038.5	1016.8	992.9	943.1	910.5	846.6	790.2	739.3
7.5°	1190.2	1190.2	1196.7	1197.8	1171.8	1134.9	1073.1	1024.4	934.4	847.7	766.4
10°	1349.6	1350.6	1364.7	1355.0	1320.3	1270.4	1192.4	1130.6	1022.2	908.4	792.4
12.5°	1519.7	1520.8	1525.2	1520.8	1479.6	1415.7	1321.4	1240.1	1115.4	977.8	828.2
15°	1689.9	1691.0	1696.4	1688.8	1643.3	1568.5	1461.2	1361.5	1214.1	1055.8	871.5
17.5°	1849.3	1851.4	1855.8	1846.0	1798.3	1709.4	1600.0	1479.6	1319.2	1139.3	920.3
20°	1992.4	1994.5	1997.8	1984.8	1937.1	1848.2	1730.0	1604.3	1426.5	1224.9	973.4
22.5°	2136.5	2138.7	2144.1	2126.8	2073.7	1971.8	1855.8	1725.7	1540.3	1319.2	1035.2
25°	2320.8	2323.0	2327.3	2302.4	2229.8	2110.5	1988.0	1854.7	1663.9	1425.4	1111.1
27.5°	2590.7	2588.5	2588.5	2543.0	2418.4	2263.4	2121.4	1985.9	1797.2	1539.3	1194.5
30°	2924.6	2919.2	2915.9	2854.1	2676.4	2435.7	2257.9	2108.3	1925.2	1659.6	1284.5
32.5°	3223.8	3223.8	3217.3	3152.2	2963.6	2667.7	2403.2	2227.6	2048.7	1781.0	1377.7
35°	3400.5	3408.0	3404.8	3356.0	3218.3	2917.0	2599.4	2370.7	2178.8	1907.8	1489.4
37.5°	3424.3	3439.5	3442.7	3413.5	3340.8	3120.8	2817.3	2525.7	2321.9	2044.4	1597.8
40°	3327.8	3360.3	3360.3	3356.0	3330.0	3217.3	3000.5	2705.6	2469.3	2186.4	1707.3
42.5°	3179.3	3212.9	3208.6	3224.8	3218.3	3194.5	3103.4	2873.6	2616.7	2332.7	1807.0
45°	2985.3	3020.0	3011.3	3040.6	3053.6	3079.6	3092.6	2990.7	2762.0	2492.1	1918.6
47.5°	2674.2	2732.7	2745.7	2797.8	2852.0	2933.3	2995.0	3033.0	2897.5	2663.3	2040.1
50°	2214.6	2297.0	2323.0	2432.5	2581.0	2749.0	2848.7	2981.0	2992.9	2838.9	2171.2
52.5°	1585.9	1681.3	1721.4	1901.3	2207.0	2499.7	2679.6	2866.0	3029.7	3007.0	2313.2
55°	1025.4	1106.7	1145.8	1314.9	1721.4	2181.0	2480.2	2717.5	3009.1	3160.9	2475.8
57.5°	632.0	678.6	704.6	849.8	1223.8	1772.3	2218.9	2581.0	2946.3	3294.2	2644.9
60°	426.0	453.1	466.1	534.4	831.4	1324.6	1860.1	2437.9	2863.9	3384.2	2798.8
62.5°	282.9	291.6	304.6	346.9	548.5	930.1	1428.7	2182.1	2802.1	3389.6	2912.7
65°	219.0	223.3	228.7	247.1	338.2	650.4	1004.9	1768.0	2710.0	3274.7	2948.4
67.5°	172.4	176.7	183.2	192.9	245.0	441.2	684.0	1295.4	2521.3	3094.8	2889.9
70°	135.5	138.7	143.1	151.8	190.8	319.8	452.0	860.7	2140.9	2923.5	2705.6
72.5°	107.3	110.6	114.9	123.6	155.0	234.1	310.0	536.6	1650.9	2714.3	2351.2
75°	84.6	86.7	90.0	98.6	124.7	182.1	210.3	320.9	1121.9	2331.6	1831.9
77.5°	42.3	52.0	59.6	68.3	91.1	125.7	139.8	177.8	473.7	1196.7	873.7
80°	24.9	30.4	32.5	37.9	59.6	75.9	75.9	71.5	149.6	459.6	356.6
82.5°	14.1	19.5	20.6	21.7	35.8	43.4	34.7	26.0	30.4	153.9	104.1
85°	4.3	6.5	7.6	8.7	11.9	13.0	11.9	10.8	8.7	15.2	9.8
87.5°	0.0	0.0	0.0	0.0	1.1	2.2	2.2	2.2	3.3	3.3	3.3
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°	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1
2.5°	702.4	688.3	661.2	636.3	612.4	595.1	578.8	563.7	552.8	544.2	543.1
5°	712.2	684.0	632.0	583.2	538.7	501.9	470.4	445.5	427.1	414.1	413.0
7.5°	725.2	681.8	602.7	530.1	463.9	410.8	365.3	331.7	307.9	298.1	290.5
10°	736.0	679.7	573.4	477.0	390.2	323.0	268.8	235.2	217.9	211.4	208.1
12.5°	754.5	681.8	548.5	428.2	326.3	247.1	206.0	187.5	179.9	174.5	173.4
15°	781.6	691.6	524.6	380.5	261.2	199.5	175.6	163.7	156.1	155.0	153.9
17.5°	808.7	700.3	503.0	331.7	216.8	173.4	157.2	147.4	142.0	140.9	140.9
20°	840.1	711.1	479.1	285.1	185.4	156.1	143.1	135.5	129.0	127.9	127.9
22.5°	876.9	726.3	456.4	243.9	164.8	143.1	132.2	123.6	118.2	117.1	117.1
25°	926.8	749.0	437.9	213.5	150.7	132.2	122.5	114.9	110.6	108.4	108.4
27.5°	982.1	780.5	424.9	195.1	140.9	123.6	113.8	107.3	103.0	100.8	100.8
30°	1043.9	815.2	416.2	187.5	135.5	116.0	107.3	100.8	95.4	94.3	94.3
32.5°	1112.2	855.3	410.8	188.6	134.4	110.6	100.8	94.3	90.0	87.8	87.8
35°	1188.0	899.7	407.6	195.1	136.6	106.2	95.4	88.9	84.6	82.4	82.4
37.5°	1272.6	951.7	407.6	201.6	142.0	105.1	90.0	83.5	80.2	78.0	78.0
40°	1351.7	1007.0	411.9	209.2	147.4	105.1	85.6	80.2	75.9	73.7	73.7
42.5°	1413.5	1038.5	415.2	216.8	150.7	104.1	81.3	75.9	72.6	70.5	70.5
45°	1484.0	1072.1	408.7	220.0	150.7	101.9	78.0	72.6	69.4	67.2	67.2
47.5°	1562.0	1113.2	407.6	222.2	147.4	97.6	74.8	69.4	67.2	65.0	65.0
50°	1641.1	1158.8	409.7	221.1	143.1	91.1	70.5	67.2	64.0	61.8	61.8
52.5°	1731.1	1206.5	414.1	219.0	133.3	83.5	67.2	64.0	60.7	58.5	57.5
55°	1830.8	1258.5	422.8	214.6	120.3	75.9	64.0	60.7	56.4	54.2	53.1
57.5°	1945.7	1322.5	432.5	206.0	106.2	69.4	60.7	56.4	49.9	46.6	45.5
60°	2055.2	1395.1	443.3	185.4	92.1	62.9	57.5	50.9	44.4	42.3	41.2
62.5°	2158.2	1466.6	448.8	148.5	78.0	57.5	54.2	46.6	40.1	37.9	36.9
65°	2224.3	1544.7	436.8	100.8	64.0	53.1	49.9	43.4	36.9	33.6	33.6
67.5°	2228.7	1581.5	395.7	66.1	52.0	47.7	45.5	39.0	32.5	30.4	29.3
70°	2119.2	1526.2	302.4	52.0	43.4	41.2	41.2	34.7	28.2	26.0	24.9
72.5°	1867.7	1351.7	192.9	42.3	36.9	34.7	34.7	29.3	24.9	21.7	20.6
75°	1474.2	1042.8	103.0	34.7	30.4	29.3	27.1	23.8	20.6	18.4	17.3
77.5°	677.5	459.6	47.7	24.9	22.8	22.8	20.6	17.3	16.3	14.1	14.1
80°	267.7	156.1	23.8	16.3	15.2	15.2	15.2	11.9	11.9	9.8	8.7
82.5°	73.7	32.5	11.9	9.8	9.8	9.8	8.7	7.6	7.6	6.5	6.5
85°	7.6	5.4	5.4	5.4	5.4	4.3	4.3	3.3	2.2	2.2	2.2
87.5°	3.3	3.3	3.3	3.3	3.3	2.2	1.1	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)