

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: P1210175

Luminaire Tested: **ARCH2-40-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

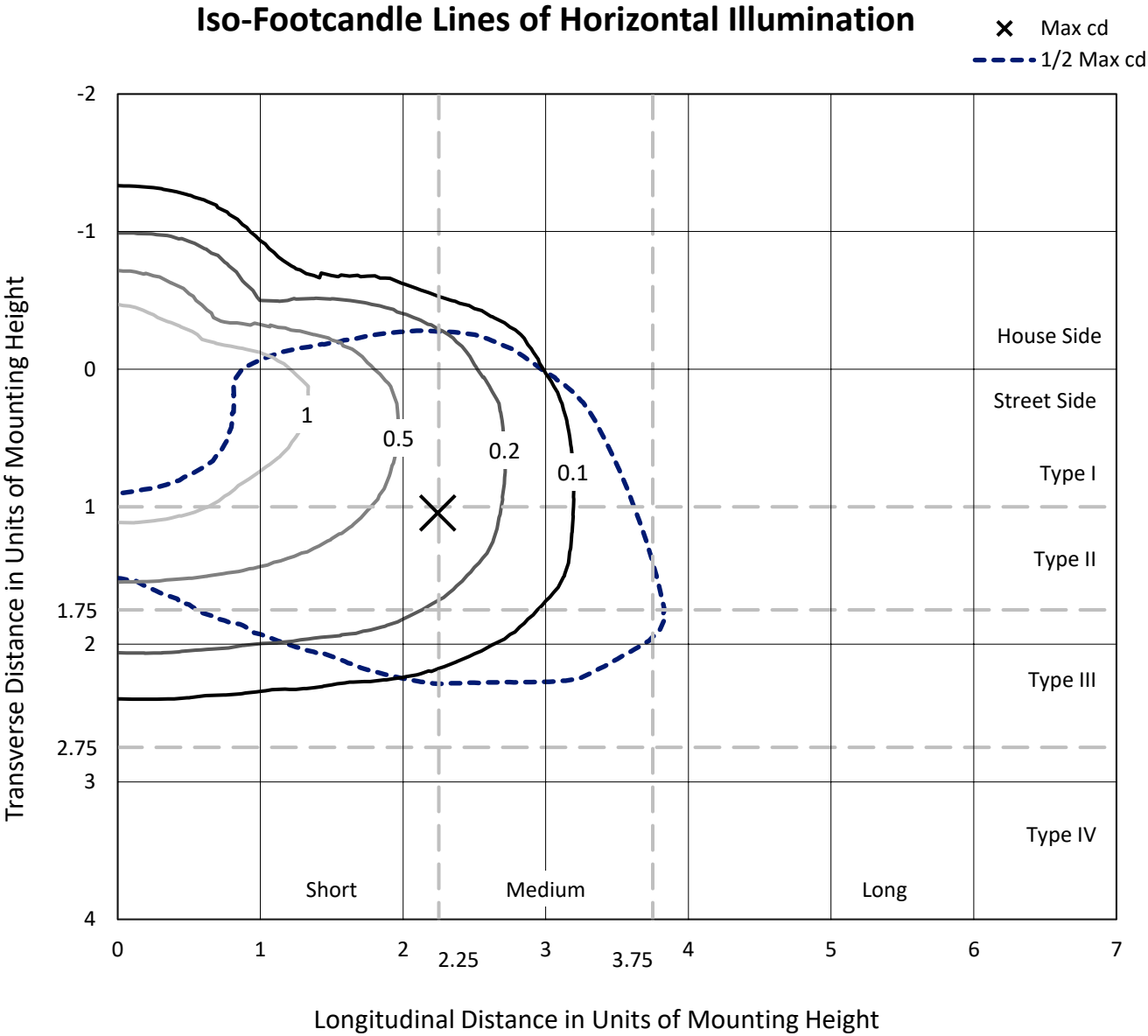
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6507 lumens
Efficiency: N/A
Efficacy: 147.6 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): 44.1
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



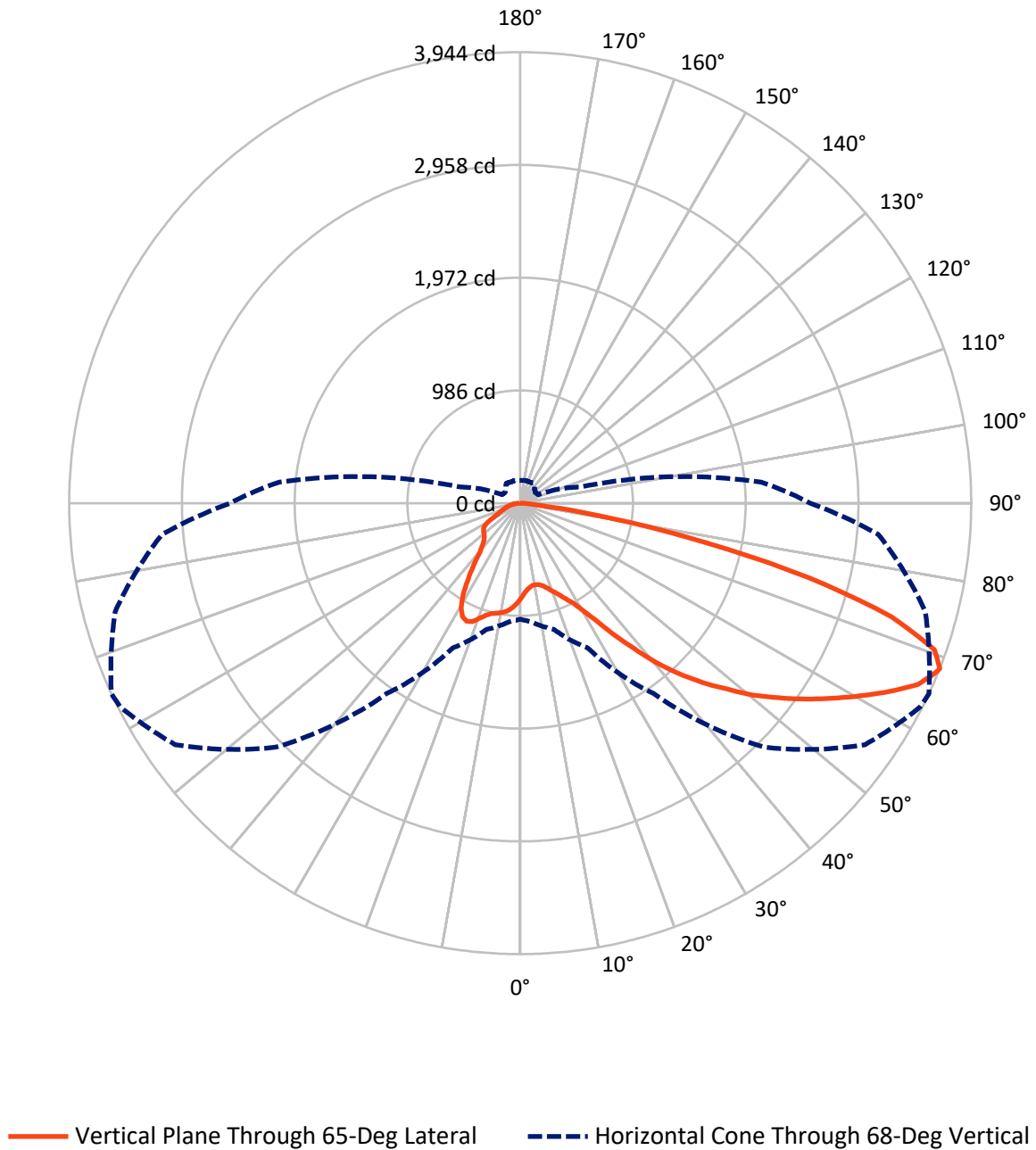
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Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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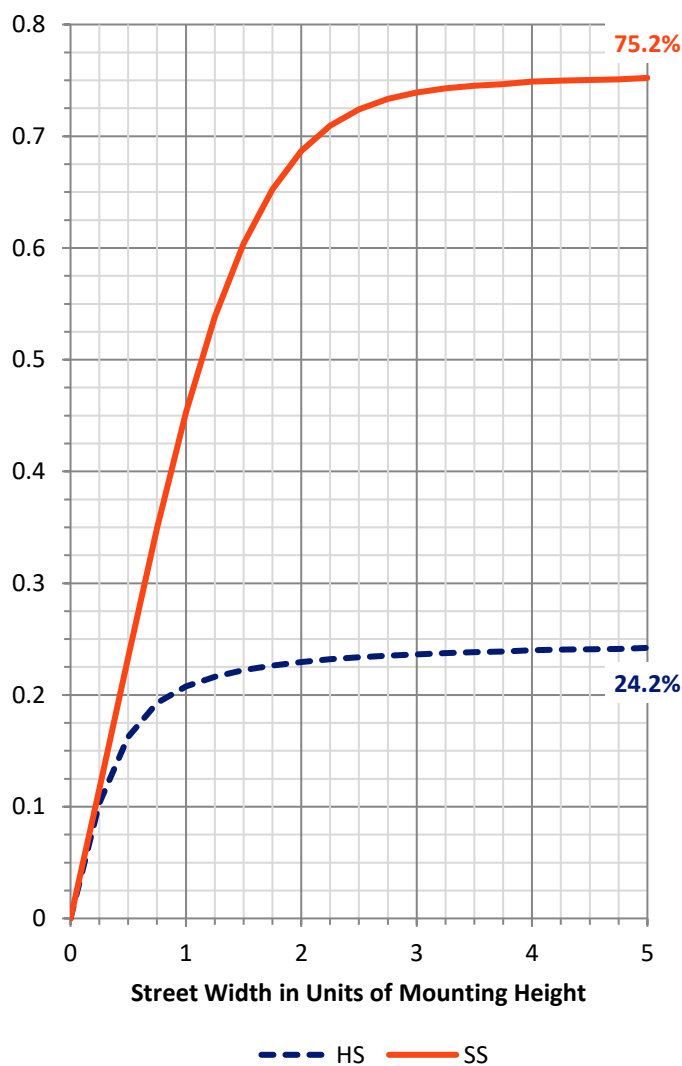
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1595.3	0.0	1595.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	4911.7	0.0	4911.7
	% Fixture	75.5	0.0	75.5
Total	Lumens	6507.0	0.0	6507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	1.2
10°-20°	258.7	4.0
20°-30°	468.3	7.2
30°-40°	736.7	11.3
40°-50°	1097.2	16.9
50°-60°	1439.4	22.1
60°-70°	1574.0	24.2
70°-80°	778.9	12.0
80°-90°	74.3	1.1
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°	6507.0	100.0
0°-180°	6507.0	100.0

Coefficient of Utilization



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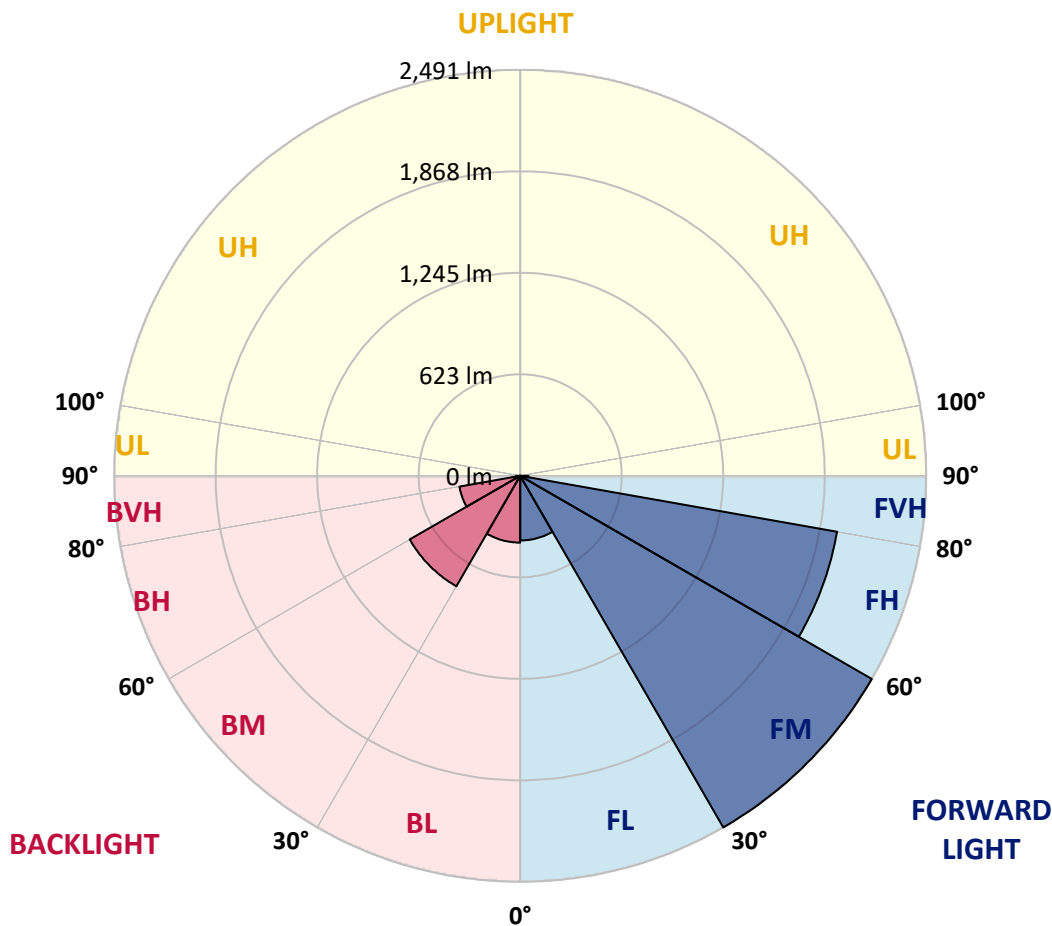
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	396.7	6.1			
FM	(30°-60°)	2490.8	38.3			
FH	(60°-80°)	1974.2	30.3			G2/5000
FVH	(80°-90°)	50.0	0.8			G1/100
BL	(0°-30°)	409.9	6.3	B1/500		
BM	(30°-60°)	782.5	12.0	B1/1000		
BH	(60°-80°)	378.7	5.8	B1/500		G1/500
BVH	(80°-90°)	24.3	0.4			G1/100
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°	63°	65°	75°	85°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	725.8	724.1	728.3	732.5	741.7	752.6	767.7	780.3	782.0	805.5	824.0
5°	683.0	680.5	684.7	689.7	693.9	707.3	723.3	741.7	749.3	783.7	823.1
7.5°	687.2	686.4	688.0	686.4	686.4	692.2	703.1	721.6	730.0	771.1	827.3
10°	711.5	713.2	714.0	709.0	704.0	701.5	704.8	717.4	723.3	771.9	845.8
12.5°	751.8	754.3	755.2	745.9	739.2	728.3	722.4	727.5	731.7	780.3	871.8
15°	806.3	808.0	802.1	796.3	779.5	766.1	751.8	747.6	749.3	798.0	901.2
17.5°	870.1	867.6	867.6	853.3	831.5	810.5	787.0	783.7	783.7	826.5	943.1
20°	939.8	942.3	934.7	915.4	893.6	860.9	837.4	822.3	824.0	859.2	994.3
22.5°	1040.4	1044.6	1024.5	996.8	963.2	925.5	891.9	867.6	868.4	902.0	1047.2
25°	1148.7	1150.4	1137.8	1100.9	1055.5	1001.8	957.4	926.3	925.5	949.8	1115.1
27.5°	1259.4	1267.0	1241.8	1206.6	1164.6	1097.5	1038.8	996.8	990.1	1022.8	1199.9
30°	1373.6	1382.8	1358.4	1324.0	1272.0	1215.0	1145.3	1096.7	1092.5	1136.1	1313.1
32.5°	1488.5	1491.0	1471.7	1443.2	1396.2	1342.5	1286.3	1232.6	1228.4	1299.7	1460.0
35°	1582.5	1590.0	1576.6	1569.9	1535.5	1486.0	1431.4	1400.4	1411.3	1502.8	1650.4
37.5°	1695.8	1703.3	1688.2	1686.5	1675.6	1632.8	1595.1	1597.6	1608.5	1732.7	1851.0
40°	1859.4	1867.8	1829.2	1812.4	1812.4	1770.4	1757.8	1817.4	1831.7	1959.2	2059.9
42.5°	1997.8	2011.2	1988.6	1977.7	1945.0	1915.6	1930.7	2014.6	2038.9	2175.7	2242.0
45°	2064.9	2075.0	2101.9	2133.7	2101.9	2050.7	2107.7	2202.6	2237.0	2375.4	2424.1
47.5°	2101.0	2110.3	2141.3	2226.9	2248.7	2205.9	2286.5	2404.8	2428.3	2573.4	2597.8
50°	2106.1	2135.4	2175.7	2261.3	2361.1	2367.0	2466.0	2610.3	2638.0	2768.1	2750.5
52.5°	2064.9	2076.7	2159.8	2304.1	2414.8	2515.5	2661.5	2807.5	2827.7	2951.0	2885.6
55°	1997.8	2014.6	2097.7	2294.0	2466.9	2656.5	2860.4	3001.3	3024.0	3128.9	3010.6
57.5°	1937.4	1945.8	2034.7	2264.6	2518.9	2797.4	3037.4	3203.6	3218.7	3284.9	3102.9
60°	1870.3	1879.5	1968.5	2201.7	2557.5	2904.0	3222.0	3407.5	3420.9	3449.4	3210.3
62.5°	1696.6	1720.9	1832.5	2097.7	2547.4	3025.7	3419.2	3608.8	3625.6	3594.6	3295.0
65°	1377.7	1412.1	1548.9	1861.9	2453.4	3104.5	3580.3	3794.3	3822.8	3703.6	3317.7
67.5°	1069.8	1094.1	1204.1	1477.6	2123.7	3065.1	3684.3	3921.8	3930.2	3686.0	3191.8
68°	1014.4	1038.8	1143.6	1397.0	2032.2	3018.1	3681.8	3925.2	3943.6	3666.7	3143.1
70°	776.1	803.8	903.7	1106.7	1637.9	2719.4	3528.3	3844.6	3842.1	3433.5	2841.1
72.5°	485.0	500.9	569.7	698.1	1083.2	2069.1	2994.6	3390.7	3397.4	2799.1	2179.1
75°	307.9	307.9	304.6	338.1	555.5	1178.9	2226.0	2610.3	2615.4	1960.1	1373.6
77.5°	267.7	260.1	224.0	189.6	221.5	458.1	1317.3	1685.7	1658.0	1055.5	652.0
80°	225.7	213.1	183.8	152.7	142.6	143.5	506.0	855.8	818.9	380.1	216.5
82.5°	162.8	151.9	138.4	120.0	109.9	85.6	105.7	247.5	241.7	109.9	70.5
85°	88.1	79.7	78.0	78.9	66.3	52.9	44.5	54.5	54.5	47.8	40.3
87.5°	31.0	22.7	26.9	30.2	26.0	21.8	17.6	21.0	21.8	21.0	19.3
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°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	834.9	843.3	863.4	881.0	893.6	904.5	910.4	912.9	918.8	919.6	917.9
5°	841.6	863.4	893.6	919.6	933.9	939.8	941.4	942.3	939.8	941.4	939.8
7.5°	859.2	886.9	929.7	952.3	954.9	945.6	946.5	943.1	946.5	949.8	949.8
10°	886.1	921.3	961.6	970.0	959.1	954.0	964.1	984.2	990.9	1000.2	1000.2
12.5°	921.3	963.2	991.8	984.2	974.2	990.9	1020.3	1040.4	1047.2	1050.5	1048.0
15°	961.6	1006.9	1021.1	996.0	1014.4	1050.5	1060.6	1048.8	1032.1	1024.5	1028.7
17.5°	1012.8	1050.5	1042.1	1025.3	1067.3	1072.3	1039.6	1001.8	975.0	964.9	971.6
20°	1066.5	1099.2	1060.6	1068.1	1094.1	1040.4	978.4	929.7	906.2	902.0	908.7
22.5°	1123.5	1144.5	1079.0	1117.6	1079.0	970.0	895.3	870.1	864.2	871.0	876.8
25°	1188.1	1185.6	1110.9	1132.7	1022.8	883.5	839.1	837.4	837.4	841.6	850.0
27.5°	1261.1	1221.7	1142.8	1112.6	925.5	812.2	803.8	804.7	802.1	803.0	807.2
30°	1345.9	1270.3	1178.1	1046.3	816.4	758.5	755.2	752.6	746.8	745.1	746.8
32.5°	1452.4	1321.5	1214.1	937.2	720.8	703.1	701.5	688.0	673.8	672.1	678.0
35°	1587.5	1414.7	1232.6	800.5	641.9	641.0	635.2	614.2	595.7	595.7	591.5
37.5°	1741.9	1534.7	1240.1	667.1	576.4	580.6	563.9	537.0	522.7	514.3	516.9
40°	1899.6	1671.4	1239.3	550.4	519.4	520.2	507.6	474.9	439.7	418.7	423.7
42.5°	2051.5	1795.6	1217.5	488.3	473.2	470.7	460.6	416.2	386.8	370.0	370.9
45°	2173.2	1924.0	1183.9	451.4	431.3	435.5	412.8	386.0	359.1	344.0	343.2
47.5°	2294.8	2021.3	1130.2	428.8	400.2	392.7	383.5	365.0	344.9	328.1	328.9
50°	2405.6	2104.4	1079.9	413.7	371.7	352.4	354.1	343.2	325.6	310.5	309.6
52.5°	2483.6	2158.9	1052.2	405.3	337.3	316.3	322.2	316.3	299.5	288.6	287.8
55°	2561.7	2200.9	1061.4	394.4	299.5	282.8	292.8	291.2	281.9	278.6	279.4
57.5°	2624.6	2232.8	1094.1	374.2	263.5	253.4	270.2	265.1	258.4	259.3	259.3
60°	2685.9	2273.9	1132.7	328.1	232.4	233.3	249.2	240.0	235.8	243.3	244.2
62.5°	2749.6	2318.3	1100.9	260.9	205.6	211.4	229.9	222.4	224.0	234.9	238.3
65°	2742.1	2314.1	897.0	214.0	182.1	193.8	221.5	219.0	219.8	224.0	225.7
67.5°	2587.7	2166.5	616.7	182.1	165.3	179.6	214.8	204.7	205.6	203.1	203.9
68°	2535.7	2114.4	543.7	177.0	161.9	176.2	211.4	202.2	203.1	200.5	199.7
70°	2252.1	1810.7	344.0	156.1	150.2	167.0	194.7	191.3	190.5	188.8	188.8
72.5°	1716.7	1336.6	181.2	135.1	136.8	152.7	173.7	180.4	176.2	177.0	182.1
75°	1136.9	803.8	125.9	115.8	120.0	130.9	154.4	167.8	163.6	166.1	163.6
77.5°	601.6	433.0	100.7	98.2	98.2	105.7	127.5	148.5	148.5	146.8	144.3
80°	197.2	152.7	80.6	77.2	78.9	83.1	102.4	121.7	124.2	120.8	119.1
82.5°	66.3	70.5	60.4	56.2	57.9	61.3	77.2	93.1	94.0	87.3	85.6
85°	41.1	47.0	37.8	36.9	36.9	37.8	47.0	51.2	47.0	42.0	43.6
87.5°	19.3	23.5	17.6	15.1	12.6	10.9	8.4	3.4	3.4	1.7	1.7
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)