

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: P1211573

Luminaire Tested: **ARCH4-50-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-50-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7920 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 53.2
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

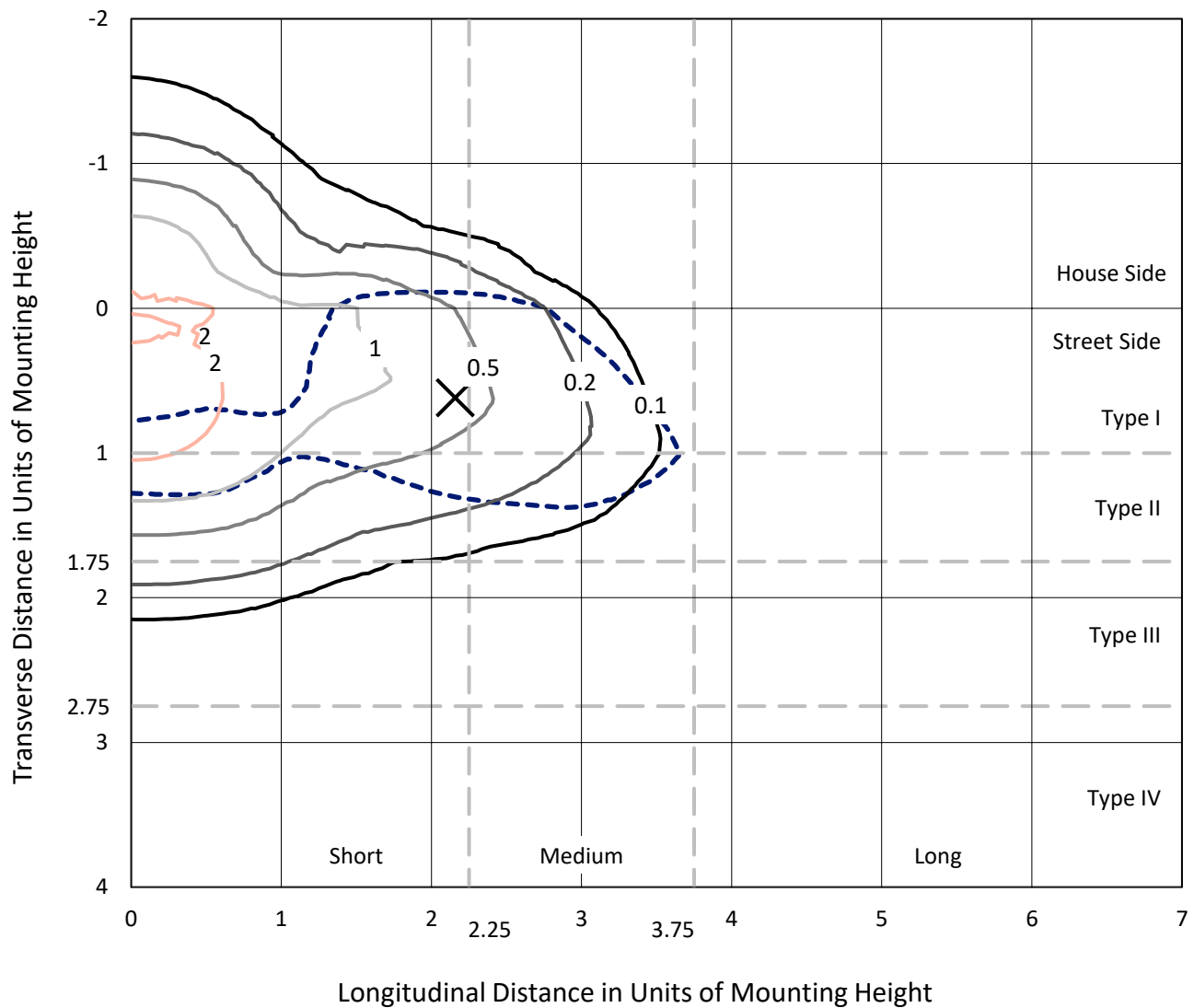


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Iso-Footcandle Lines of Horizontal Illumination

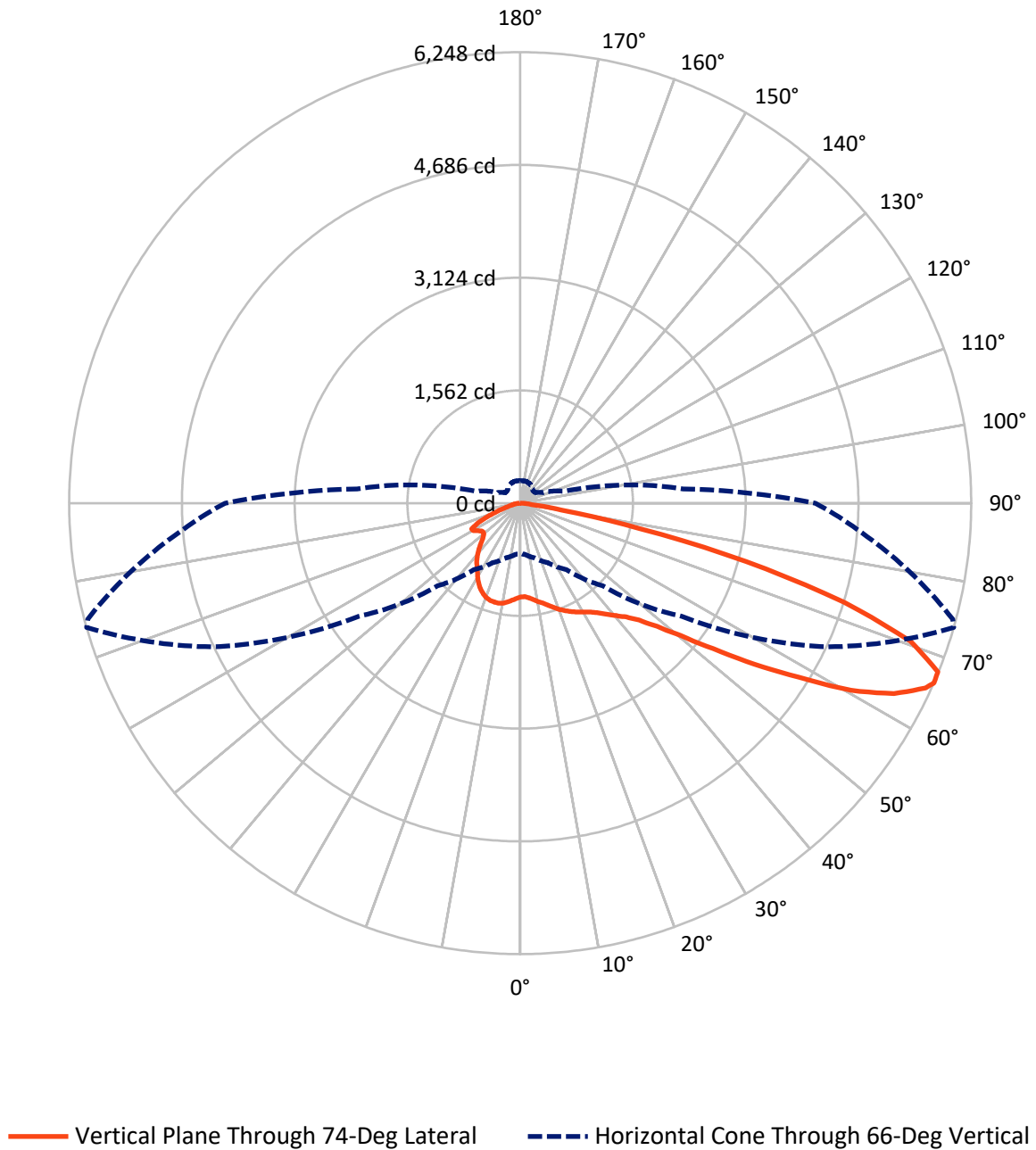
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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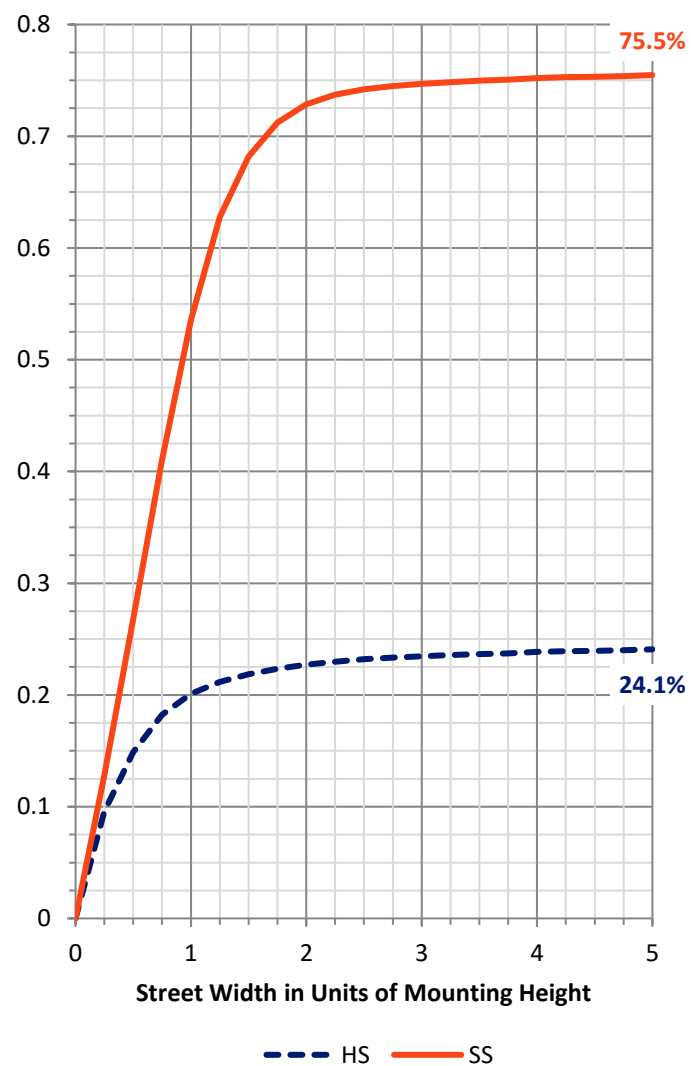
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1928.7	0.0	1928.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5991.3	0.0	5991.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	7920.0	0.0	7920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	1.6
10°-20°	380.9	4.8
20°-30°	714.7	9.0
30°-40°	1099.4	13.9
40°-50°	1478.8	18.7
50°-60°	1748.8	22.1
60°-70°	1617.7	20.4
70°-80°	680.6	8.6
80°-90°	75.3	1.0
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°	7920.0	100.0
0°-180°	7920.0	100.0

Coefficient of Utilization



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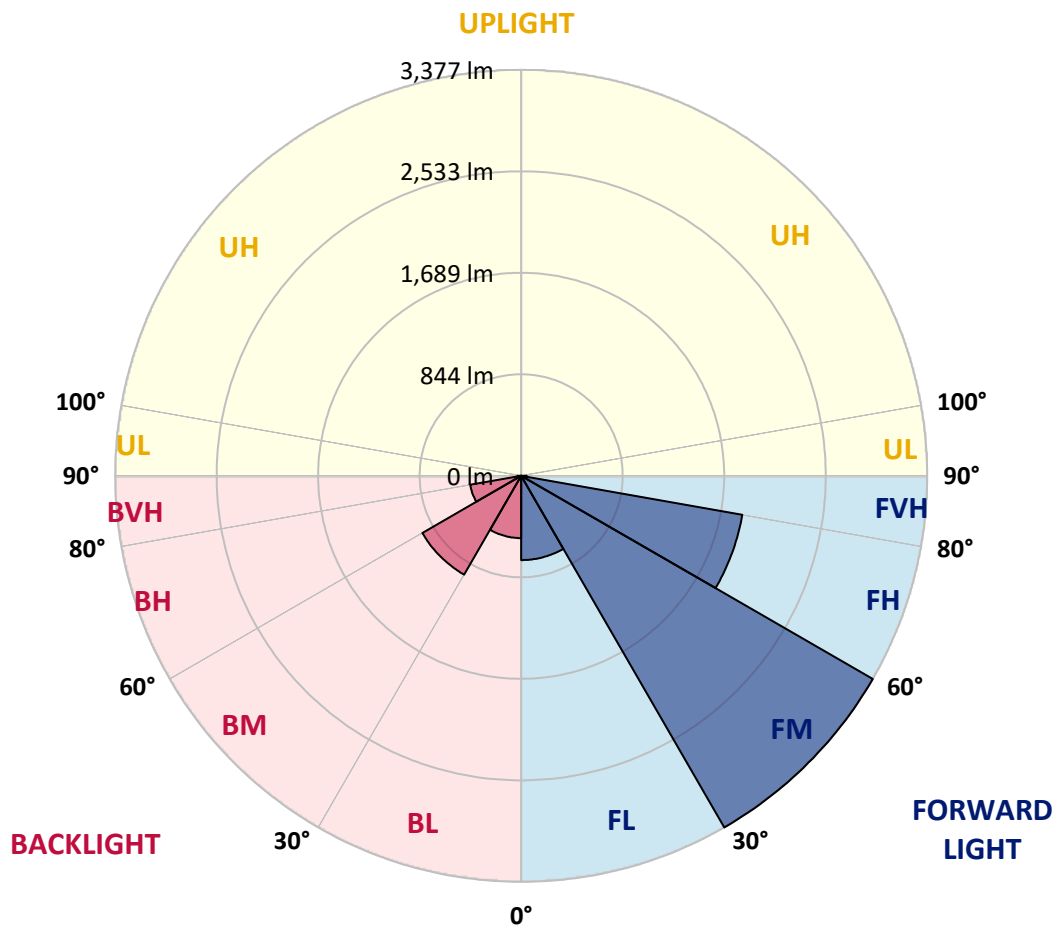
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	701.0	8.9			
FM	(30°-60°)	3377.4	42.6			
FH	(60°-80°)	1867.8	23.6			G2/5000
FVH	(80°-90°)	45.1	0.6			G1/100
BL	(0°-30°)	518.4	6.5	B2/1000		
BM	(30°-60°)	949.5	12.0	B1/1000		
BH	(60°-80°)	430.6	5.4	B1/500		G1/500
BVH	(80°-90°)	30.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1298.4	1298.4	1298.4	1298.4	1298.4	1298.4	1298.4	1298.4	1298.4	1298.4	1298.4
2.5°	1294.3	1292.2	1296.3	1302.4	1305.5	1300.4	1298.4	1297.3	1297.3	1294.3	1299.4
5°	1233.1	1232.1	1241.3	1252.5	1273.9	1289.2	1309.6	1321.8	1317.7	1311.6	1315.7
7.5°	1153.6	1151.6	1162.8	1184.2	1213.8	1247.4	1297.3	1336.1	1351.3	1349.3	1348.3
10°	1184.2	1182.2	1181.2	1175.0	1185.2	1217.8	1269.8	1338.1	1390.1	1391.1	1392.1
12.5°	1290.2	1295.3	1290.2	1270.8	1248.4	1236.2	1266.8	1343.2	1422.7	1428.8	1454.3
15°	1434.9	1429.8	1419.6	1397.2	1362.6	1325.9	1303.4	1366.6	1469.6	1474.7	1530.7
17.5°	1562.3	1566.4	1560.3	1538.9	1498.1	1450.2	1381.9	1407.4	1519.5	1533.8	1612.2
20°	1700.9	1717.2	1709.1	1682.6	1648.9	1577.6	1492.0	1466.5	1574.5	1584.7	1696.8
22.5°	1860.9	1878.2	1862.9	1837.5	1809.9	1722.3	1612.2	1538.9	1620.4	1641.8	1778.4
25°	2052.5	2068.8	2054.5	2014.8	1980.1	1873.1	1741.7	1620.4	1665.2	1688.7	1844.6
27.5°	2204.3	2216.6	2229.8	2206.4	2153.4	2042.3	1876.2	1705.0	1710.1	1734.5	1905.7
30°	2339.9	2370.5	2381.7	2384.7	2339.9	2215.6	2013.8	1792.6	1748.8	1774.3	1966.9
32.5°	2525.4	2571.2	2552.9	2571.2	2544.7	2378.6	2156.4	1883.3	1798.7	1822.2	2025.0
35°	2796.4	2833.1	2785.2	2771.0	2728.2	2543.7	2294.0	1977.1	1865.0	1890.5	2080.0
37.5°	3087.9	3129.7	3060.4	3003.3	2921.8	2706.8	2412.2	2100.4	1956.7	1977.1	2131.0
40°	3342.7	3377.3	3317.2	3241.8	3105.2	2850.5	2514.2	2187.0	2048.4	2073.9	2190.1
42.5°	3578.1	3600.5	3533.3	3460.9	3278.5	2979.9	2624.2	2278.7	2155.4	2179.9	2238.0
45°	3816.6	3833.9	3740.1	3637.2	3423.2	3098.1	2745.5	2407.1	2312.4	2345.0	2315.4
47.5°	3859.4	3864.5	3848.2	3778.9	3537.3	3211.2	2895.3	2579.4	2551.9	2587.5	2448.9
50°	3562.8	3608.7	3709.6	3777.9	3583.2	3306.0	3045.1	2826.0	2882.1	2927.9	2726.1
52.5°	2987.0	3030.8	3264.2	3523.1	3473.1	3327.4	3206.1	3138.9	3347.8	3402.8	3103.2
55°	2379.6	2418.4	2665.0	3038.0	3117.5	3229.6	3378.4	3538.4	3941.9	3978.6	3517.0
57.5°	1959.8	1981.2	2157.5	2516.2	2643.6	2916.7	3471.1	4013.3	4546.3	4602.3	3876.7
60°	1607.1	1630.6	1762.0	2057.6	2226.8	2469.3	3397.7	4482.1	5267.8	5267.8	4338.4
62.5°	1209.7	1230.1	1352.4	1583.7	1868.0	2090.2	3163.3	4792.9	5812.0	5787.5	4672.6
65°	830.6	846.9	935.5	1089.4	1345.2	1781.4	2843.3	4797.0	6172.8	6140.2	4815.3
66°	697.1	711.3	786.8	911.1	1126.1	1616.3	2730.2	4710.3	6248.2	6202.3	4755.2
67.5°	550.3	560.5	610.4	683.8	825.5	1308.5	2551.9	4464.7	6241.1	6213.5	4602.3
70°	393.4	400.5	437.2	452.5	488.2	757.2	2027.0	3910.3	5740.7	5748.8	4001.0
72.5°	304.7	315.9	338.3	341.4	333.3	402.6	1230.1	3262.2	4696.1	4693.0	2969.7
75°	245.6	251.7	262.9	269.0	267.0	259.9	520.8	2433.6	3232.6	3270.3	1663.2
77.5°	193.6	192.6	202.8	211.0	217.1	203.8	238.5	1426.8	1694.8	1646.9	624.7
80°	142.7	142.7	156.9	160.0	169.2	171.2	159.0	550.3	581.9	528.9	162.0
82.5°	93.8	93.8	109.0	111.1	120.3	133.5	115.2	165.1	161.0	152.9	73.4
85°	51.0	48.9	54.0	61.1	66.2	78.5	69.3	82.5	84.6	83.6	48.9
87.5°	10.2	9.2	14.3	16.3	18.3	24.5	22.4	33.6	46.9	45.9	21.4
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°	1298.4	1298.4	1298.4	1298.4	1298.4	1298.4	1298.4	1298.4	1298.4	1298.4	1298.4
2.5°	1306.5	1305.5	1316.7	1329.9	1345.2	1354.4	1358.5	1365.6	1360.5	1362.6	1368.7
5°	1325.9	1328.9	1345.2	1362.6	1369.7	1364.6	1353.4	1349.3	1340.1	1338.1	1336.1
7.5°	1354.4	1359.5	1375.8	1379.9	1358.5	1322.8	1297.3	1283.1	1267.8	1263.7	1261.7
10°	1401.3	1404.3	1408.4	1366.6	1313.6	1265.7	1234.1	1220.9	1210.7	1202.6	1204.6
12.5°	1460.4	1458.4	1426.8	1340.1	1264.7	1215.8	1194.4	1186.2	1179.1	1174.0	1173.0
15°	1534.8	1520.5	1429.8	1303.4	1218.9	1178.1	1162.8	1159.8	1151.6	1151.6	1150.6
17.5°	1610.2	1573.5	1427.8	1264.7	1175.0	1152.6	1143.4	1141.4	1139.4	1138.4	1141.4
20°	1685.6	1620.4	1411.5	1216.8	1144.5	1131.2	1129.2	1130.2	1128.2	1131.2	1129.2
22.5°	1751.9	1651.0	1380.9	1165.9	1123.1	1122.0	1116.9	1119.0	1126.1	1127.1	1130.2
25°	1802.8	1662.2	1336.1	1119.0	1107.8	1105.7	1111.9	1120.0	1126.1	1127.1	1132.2
27.5°	1844.6	1656.1	1280.0	1082.3	1081.3	1092.5	1110.8	1113.9	1114.9	1114.9	1110.8
30°	1876.2	1642.8	1208.7	1041.5	1046.6	1074.1	1091.5	1091.5	1083.3	1081.3	1087.4
32.5°	1883.3	1625.5	1131.2	999.8	1007.9	1040.5	1061.9	1054.8	1045.6	1045.6	1049.7
35°	1889.4	1602.0	1069.1	942.7	954.9	993.6	1014.0	999.8	989.6	986.5	985.5
37.5°	1887.4	1592.9	1013.0	870.3	886.6	924.3	937.6	924.3	909.0	901.9	911.1
40°	1889.4	1586.8	942.7	790.8	807.1	829.6	846.9	836.7	822.4	804.1	813.3
42.5°	1901.7	1594.9	865.2	713.4	713.4	725.6	755.2	748.0	713.4	706.2	714.4
45°	1966.9	1638.7	787.8	635.9	624.7	632.9	663.4	632.9	611.5	611.5	618.6
47.5°	2124.9	1720.3	719.5	567.6	541.1	557.5	565.6	537.1	520.8	516.7	523.8
50°	2446.9	1883.3	678.7	511.6	479.0	491.2	486.1	485.1	468.8	470.8	474.9
52.5°	2936.1	2201.3	666.5	484.1	443.3	446.4	441.3	443.3	440.3	450.4	453.5
55°	3469.1	2536.6	681.8	488.2	418.9	397.5	399.5	409.7	421.9	438.2	441.3
57.5°	3867.5	2704.7	721.5	515.7	388.3	355.7	360.8	380.1	403.6	416.8	424.0
60°	4164.1	2684.3	779.6	522.8	351.6	318.0	327.1	355.7	376.1	387.3	394.4
62.5°	4260.9	2557.0	793.9	470.8	303.7	282.3	304.7	334.3	343.4	355.7	360.8
65°	4181.4	2376.6	689.9	382.2	267.0	255.8	288.4	310.8	323.1	329.2	330.2
66°	4087.7	2268.5	633.9	347.5	253.8	247.6	282.3	300.6	312.9	311.8	312.9
67.5°	3881.8	2042.3	543.2	298.6	234.4	235.4	272.1	284.3	288.4	285.4	285.4
70°	3181.7	1438.0	389.3	226.2	205.9	220.1	244.6	247.6	256.8	252.7	252.7
72.5°	1961.8	706.2	260.9	173.2	183.4	205.9	204.8	215.0	236.4	242.5	246.6
75°	964.1	286.4	172.2	146.8	164.1	172.2	170.2	195.7	226.2	252.7	261.9
77.5°	365.9	142.7	120.3	128.4	132.5	129.4	135.5	177.3	226.2	274.1	283.3
80°	113.1	98.9	94.8	106.0	99.9	94.8	101.9	146.8	191.6	207.9	207.9
82.5°	68.3	77.5	73.4	72.4	67.3	68.3	73.4	105.0	147.8	154.9	154.9
85°	47.9	51.0	41.8	39.7	38.7	37.7	37.7	61.1	87.6	86.6	89.7
87.5°	18.3	20.4	15.3	15.3	14.3	10.2	8.2	10.2	10.2	7.1	5.1
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)