

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: P1210685

Luminaire Tested: **ARCH3-40-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210685
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: ARCH3-40-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7056 lumens
Efficiency: N/A
Efficacy: 161.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.6
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

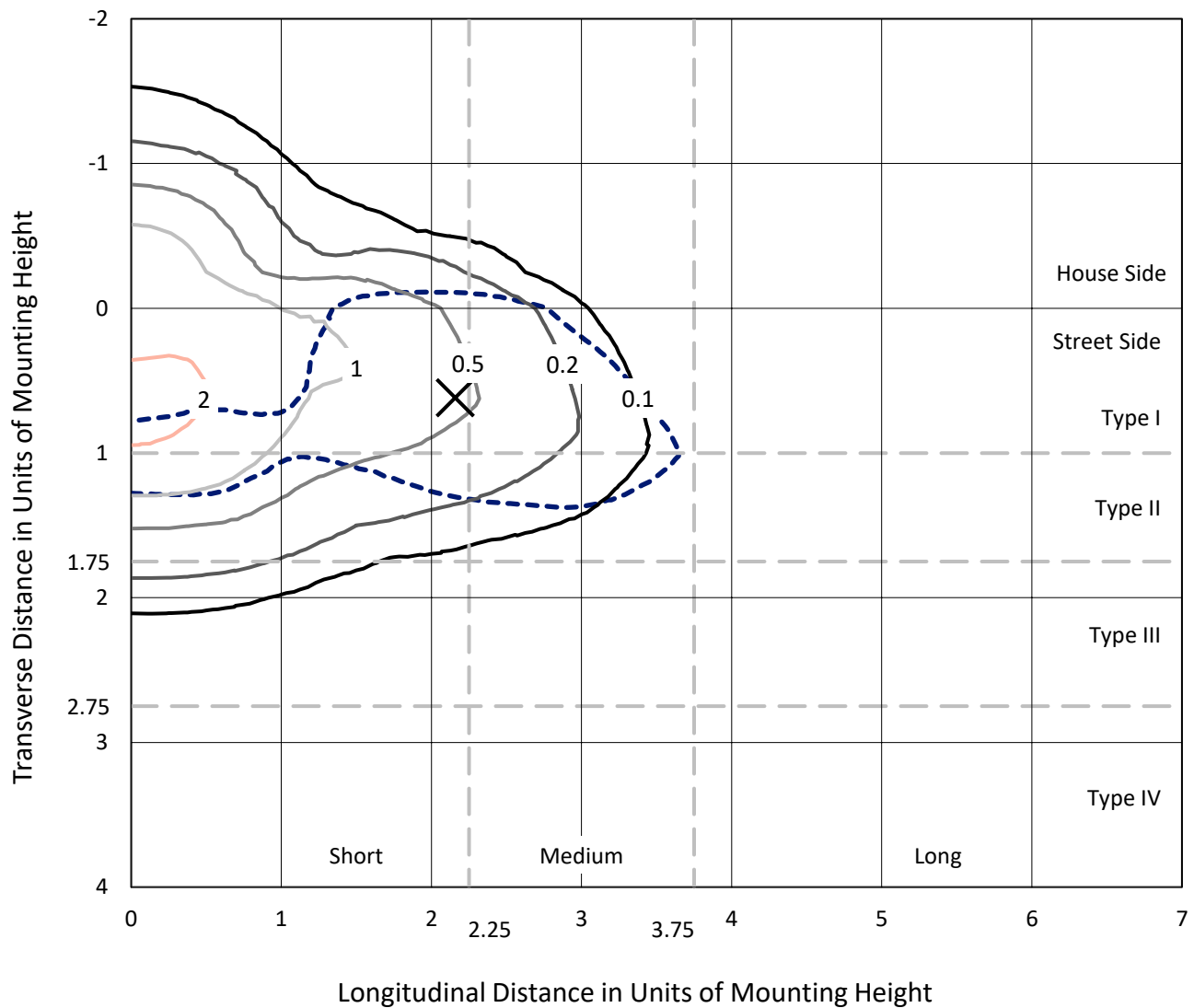


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Iso-Footcandle Lines of Horizontal Illumination

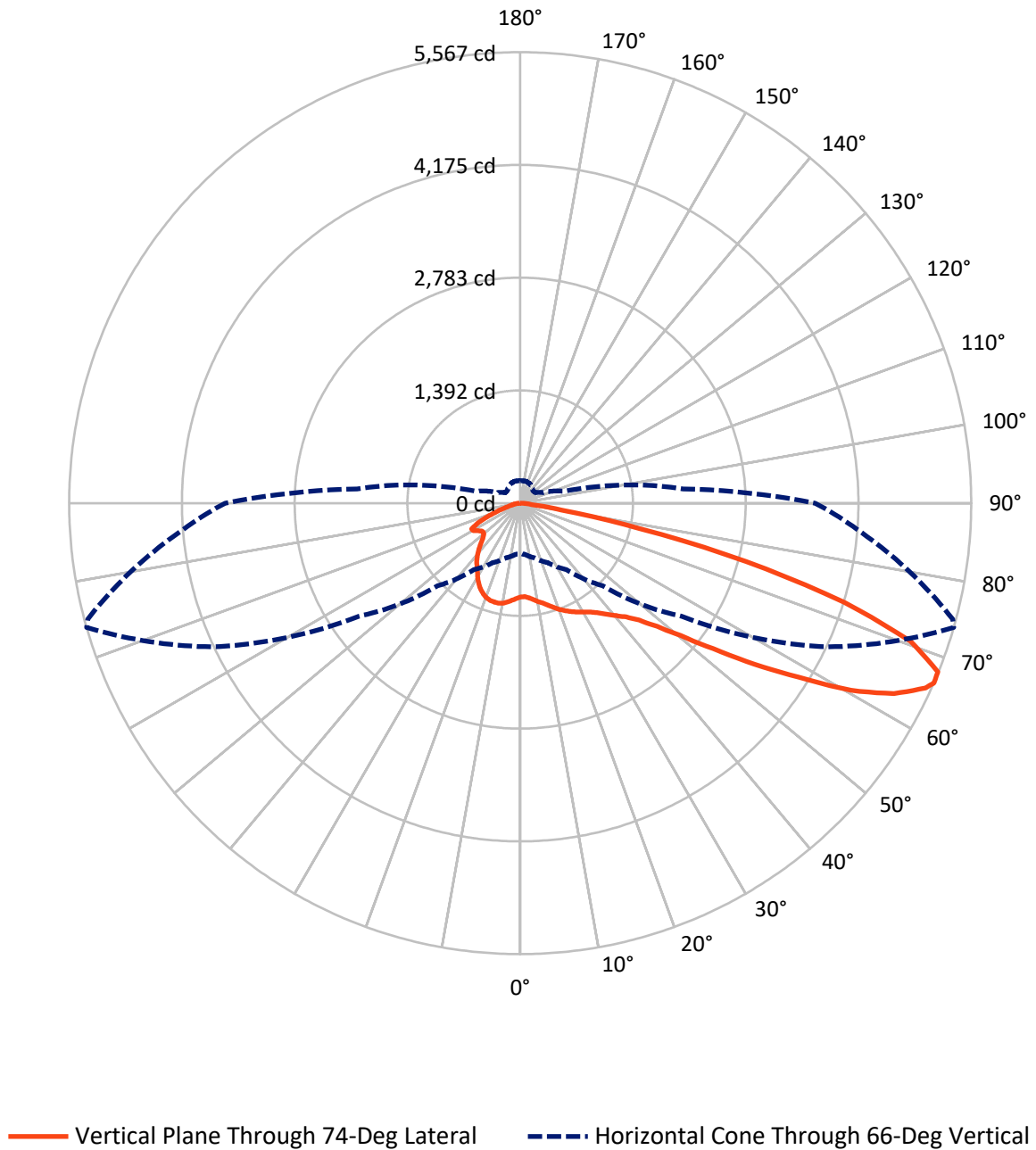
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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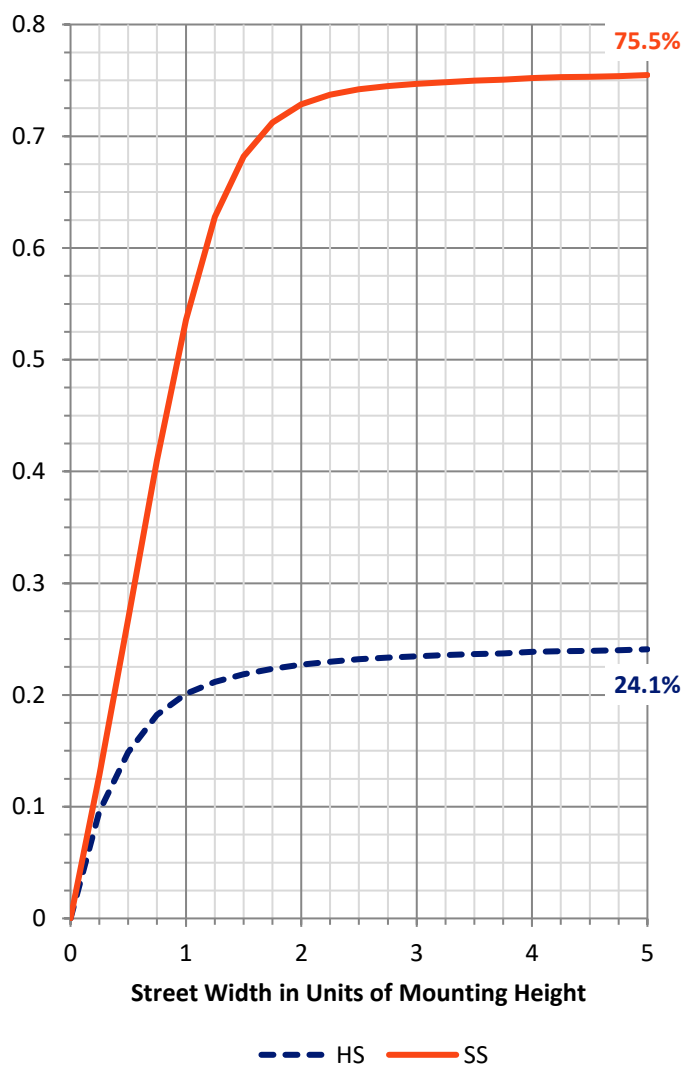
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1718.3	0.0	1718.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5337.7	0.0	5337.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	7056.0	0.0	7056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	1.6
10°-20°	339.3	4.8
20°-30°	636.7	9.0
30°-40°	979.5	13.9
40°-50°	1317.4	18.7
50°-60°	1558.0	22.1
60°-70°	1441.3	20.4
70°-80°	606.3	8.6
80°-90°	67.1	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°	7056.0	100.0
0°-180°	7056.0	100.0

Coefficient of Utilization



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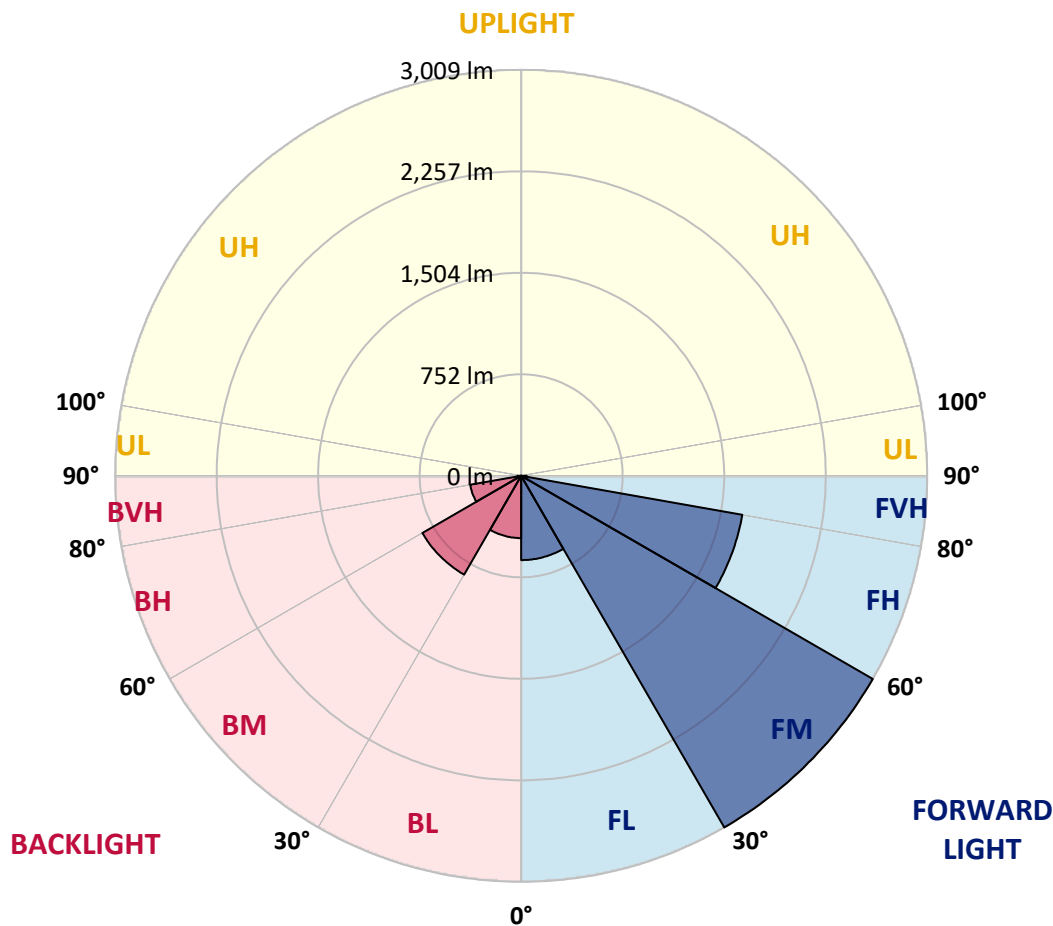
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	624.5	8.9			
FM	(30°-60°)	3009.0	42.6			
FH	(60°-80°)	1664.0	23.6			G1/1800
FVH	(80°-90°)	40.1	0.6			G1/100
BL	(0°-30°)	461.8	6.5	B1/500		
BM	(30°-60°)	845.9	12.0	B1/1000		
BH	(60°-80°)	383.6	5.4	B1/500		G1/500
BVH	(80°-90°)	27.0	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7
2.5°	1153.1	1151.3	1154.9	1160.3	1163.1	1158.5	1156.7	1155.8	1155.8	1153.1	1157.6
5°	1098.6	1097.7	1105.9	1115.9	1134.9	1148.5	1166.7	1177.6	1174.0	1168.5	1172.1
7.5°	1027.8	1026.0	1036.0	1055.0	1081.4	1111.3	1155.8	1190.3	1203.9	1202.1	1201.2
10°	1055.0	1053.2	1052.3	1046.9	1055.9	1085.0	1131.3	1192.1	1238.4	1239.3	1240.2
12.5°	1149.4	1154.0	1149.4	1132.2	1112.2	1101.3	1128.6	1196.7	1267.5	1272.9	1295.6
15°	1278.4	1273.8	1264.8	1244.8	1213.9	1181.2	1161.3	1217.5	1309.2	1313.8	1363.7
17.5°	1391.9	1395.5	1390.1	1371.0	1334.7	1292.0	1231.2	1253.9	1353.7	1366.4	1436.4
20°	1515.3	1529.9	1522.6	1499.0	1469.0	1405.5	1329.2	1306.5	1402.8	1411.8	1511.7
22.5°	1657.9	1673.3	1659.7	1637.0	1612.5	1534.4	1436.4	1371.0	1443.6	1462.7	1584.4
25°	1828.6	1843.1	1830.4	1795.0	1764.1	1668.8	1551.7	1443.6	1483.6	1504.5	1643.4
27.5°	1963.9	1974.8	1986.6	1965.7	1918.5	1819.5	1671.5	1519.0	1523.5	1545.3	1697.8
30°	2084.6	2111.9	2121.9	2124.6	2084.6	1973.9	1794.1	1597.1	1558.0	1580.7	1752.3
32.5°	2249.9	2290.7	2274.4	2290.7	2267.1	2119.1	1921.2	1677.9	1602.5	1623.4	1804.1
35°	2491.4	2524.1	2481.4	2468.7	2430.5	2266.2	2043.8	1761.4	1661.5	1684.2	1853.1
37.5°	2751.1	2788.3	2726.5	2675.7	2603.1	2411.5	2149.1	1871.3	1743.2	1761.4	1898.5
40°	2978.0	3008.9	2955.3	2888.2	2766.5	2539.5	2239.9	1948.4	1825.0	1847.7	1951.2
42.5°	3187.8	3207.7	3147.8	3083.4	2920.8	2654.8	2337.9	2030.1	1920.3	1942.1	1993.8
45°	3400.2	3415.7	3332.1	3240.4	3049.8	2760.1	2446.0	2144.5	2060.1	2089.2	2062.8
47.5°	3438.4	3442.9	3428.4	3366.6	3151.5	2860.9	2579.5	2298.0	2273.5	2305.3	2181.8
50°	3174.2	3215.0	3304.9	3365.7	3192.3	2945.4	2712.9	2517.7	2567.6	2608.5	2428.7
52.5°	2661.2	2700.2	2908.1	3138.7	3094.3	2964.4	2856.4	2796.4	2982.6	3031.6	2764.7
55°	2120.0	2154.5	2374.3	2706.6	2777.4	2877.3	3009.8	3152.4	3511.9	3544.6	3133.3
57.5°	1746.0	1765.0	1922.1	2241.7	2355.2	2598.5	3092.4	3575.5	4050.3	4100.2	3453.8
60°	1431.8	1452.7	1569.8	1833.1	1983.8	2199.9	3027.1	3993.1	4693.1	4693.1	3865.1
62.5°	1077.7	1095.9	1204.8	1410.9	1664.3	1862.2	2818.2	4270.0	5178.0	5156.2	4162.9
65°	740.0	754.5	833.5	970.6	1198.5	1587.1	2533.1	4273.7	5499.4	5470.3	4290.0
66°	621.0	633.7	700.9	811.7	1003.3	1440.0	2432.4	4196.5	5566.6	5525.7	4236.4
67.5°	490.3	499.4	543.9	609.2	735.4	1165.8	2273.5	3977.7	5560.2	5535.7	4100.2
70°	350.5	356.8	389.5	403.1	434.9	674.6	1805.9	3483.8	5114.4	5121.7	3564.6
72.5°	271.5	281.5	301.4	304.2	296.9	358.6	1095.9	2906.3	4183.8	4181.1	2645.7
75°	218.8	224.3	234.2	239.7	237.9	231.5	464.0	2168.2	2880.0	2913.6	1481.8
77.5°	172.5	171.6	180.7	187.9	193.4	181.6	212.5	1271.1	1509.9	1467.2	556.6
80°	127.1	127.1	139.8	142.5	150.7	152.5	141.6	490.3	518.4	471.2	144.4
82.5°	83.5	83.5	97.1	99.0	107.1	118.9	102.6	147.1	143.5	136.2	65.4
85°	45.4	43.6	48.1	54.5	59.0	69.9	61.7	73.5	75.4	74.5	43.6
87.5°	9.1	8.2	12.7	14.5	16.3	21.8	20.0	30.0	41.8	40.9	19.1
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°	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7	1156.7
2.5°	1164.0	1163.1	1173.1	1184.9	1198.5	1206.6	1210.3	1216.6	1212.1	1213.9	1219.4
5°	1181.2	1184.0	1198.5	1213.9	1220.3	1215.7	1205.7	1202.1	1193.9	1192.1	1190.3
7.5°	1206.6	1211.2	1225.7	1229.3	1210.3	1178.5	1155.8	1143.1	1129.5	1125.8	1124.0
10°	1248.4	1251.1	1254.8	1217.5	1170.3	1127.7	1099.5	1087.7	1078.6	1071.4	1073.2
12.5°	1301.1	1299.3	1271.1	1193.9	1126.8	1083.2	1064.1	1056.8	1050.5	1045.9	1045.0
15°	1367.4	1354.6	1273.8	1161.3	1085.9	1049.6	1036.0	1033.2	1026.0	1026.0	1025.1
17.5°	1434.5	1401.9	1272.0	1126.8	1046.9	1026.9	1018.7	1016.9	1015.1	1014.2	1016.9
20°	1501.7	1443.6	1257.5	1084.1	1019.6	1007.8	1006.0	1006.9	1005.1	1007.8	1006.0
22.5°	1560.7	1470.9	1230.3	1038.7	1000.5	999.6	995.1	996.9	1003.3	1004.2	1006.9
25°	1606.1	1480.8	1190.3	996.9	986.9	985.1	990.6	997.8	1003.3	1004.2	1008.7
27.5°	1643.4	1475.4	1140.4	964.2	963.3	973.3	989.7	992.4	993.3	993.3	989.7
30°	1671.5	1463.6	1076.8	927.9	932.5	957.0	972.4	972.4	965.1	963.3	968.8
32.5°	1677.9	1448.2	1007.8	890.7	898.0	927.0	946.1	939.7	931.5	931.5	935.2
35°	1683.3	1427.3	952.4	839.8	850.7	885.2	903.4	890.7	881.6	878.9	878.0
37.5°	1681.5	1419.1	902.5	775.4	789.9	823.5	835.3	823.5	809.9	803.5	811.7
40°	1683.3	1413.7	839.8	704.6	719.1	739.1	754.5	745.4	732.7	716.4	724.5
42.5°	1694.2	1420.9	770.8	635.6	635.6	646.5	672.8	666.4	635.6	629.2	636.5
45°	1752.3	1460.0	701.8	566.6	556.6	563.8	591.1	563.8	544.8	544.8	551.1
47.5°	1893.1	1532.6	641.0	505.7	482.1	496.6	503.9	478.5	464.0	460.3	466.7
50°	2180.0	1677.9	604.7	455.8	426.7	437.6	433.1	432.2	417.7	419.5	423.1
52.5°	2615.8	1961.1	593.8	431.3	395.0	397.7	393.1	395.0	392.2	401.3	404.0
55°	3090.6	2259.9	607.4	434.9	373.2	354.1	355.9	365.0	375.9	390.4	393.1
57.5°	3445.6	2409.7	642.8	459.4	345.9	316.9	321.4	338.7	359.5	371.3	377.7
60°	3709.8	2391.5	694.6	465.8	313.2	283.3	291.4	316.9	335.0	345.0	351.4
62.5°	3796.1	2278.0	707.3	419.5	270.6	251.5	271.5	297.8	306.0	316.9	321.4
65°	3725.3	2117.3	614.7	340.5	237.9	227.9	256.9	276.9	287.8	293.3	294.2
66°	3641.7	2021.1	564.7	309.6	226.1	220.6	251.5	267.8	278.7	277.8	278.7
67.5°	3458.3	1819.5	483.9	266.0	208.8	209.7	242.4	253.3	256.9	254.2	254.2
70°	2834.6	1281.1	346.8	201.6	183.4	196.1	217.9	220.6	228.8	225.2	225.2
72.5°	1747.8	629.2	232.4	154.3	163.4	183.4	182.5	191.6	210.6	216.1	219.7
75°	858.9	255.1	153.4	130.7	146.2	153.4	151.6	174.3	201.6	225.2	233.3
77.5°	325.9	127.1	107.1	114.4	118.0	115.3	120.8	158.0	201.6	244.2	252.4
80°	100.8	88.1	84.4	94.4	89.0	84.4	90.8	130.7	170.7	185.2	185.2
82.5°	60.8	69.0	65.4	64.5	59.9	60.8	65.4	93.5	131.7	138.0	138.0
85°	42.7	45.4	37.2	35.4	34.5	33.6	33.6	54.5	78.1	77.2	79.9
87.5°	16.3	18.2	13.6	13.6	12.7	9.1	7.3	9.1	9.1	6.4	4.5
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)