

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: P1210041

Luminaire Tested: **ARCH1-60-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210041
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: ARCH1-60-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6966 lumens
Efficiency: N/A
Efficacy: 116.1 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



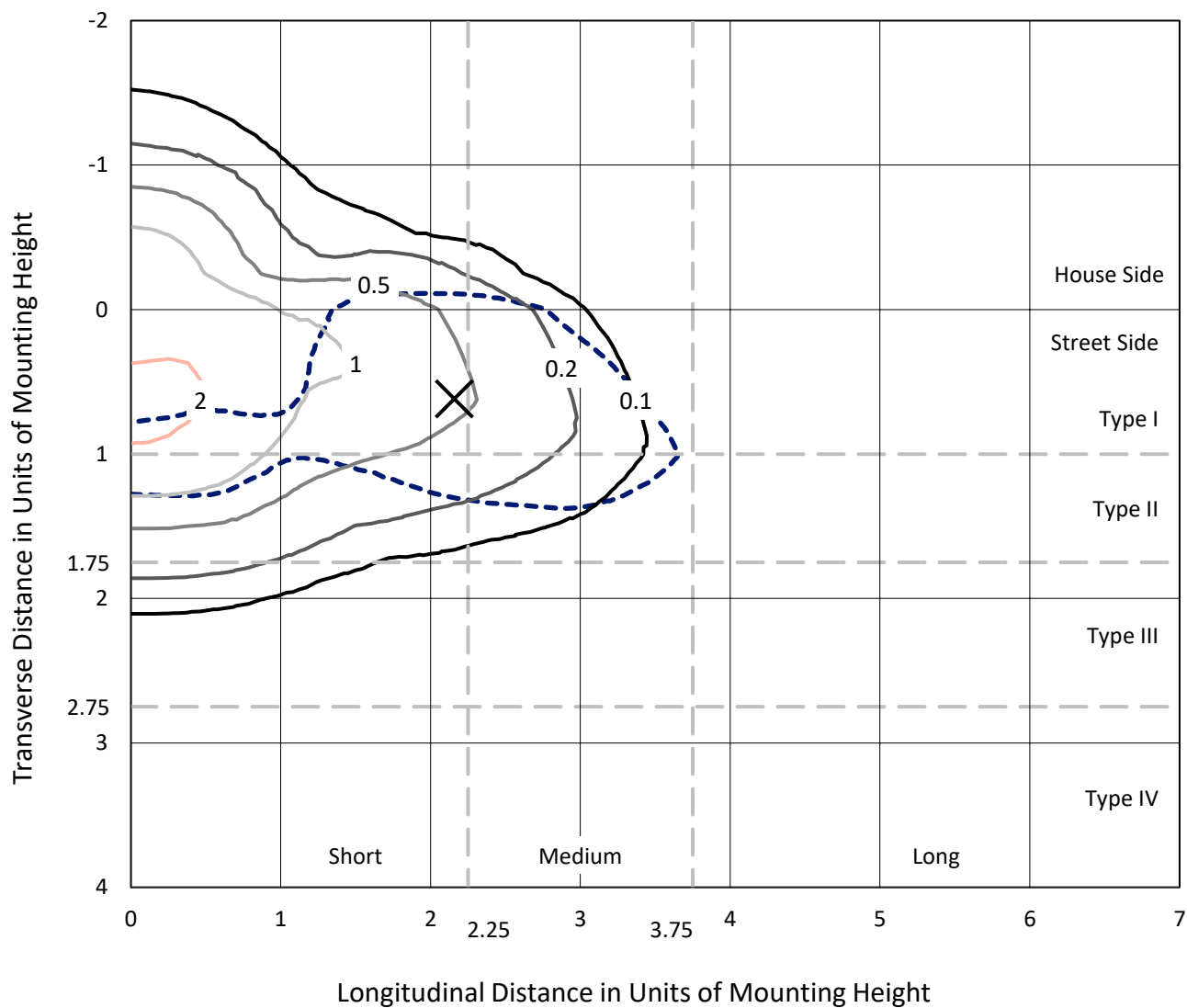
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

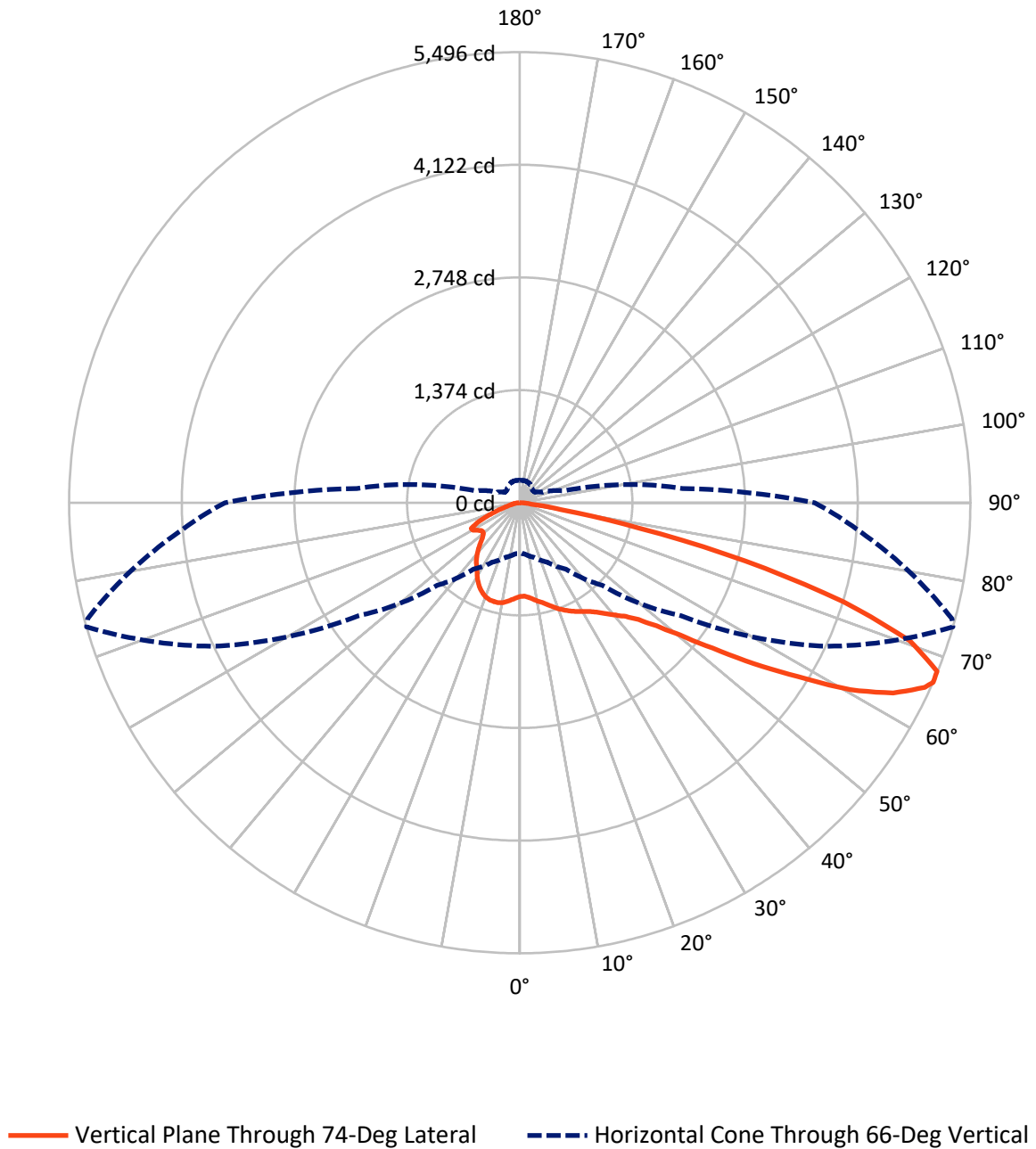
--- 1/2 Max cd



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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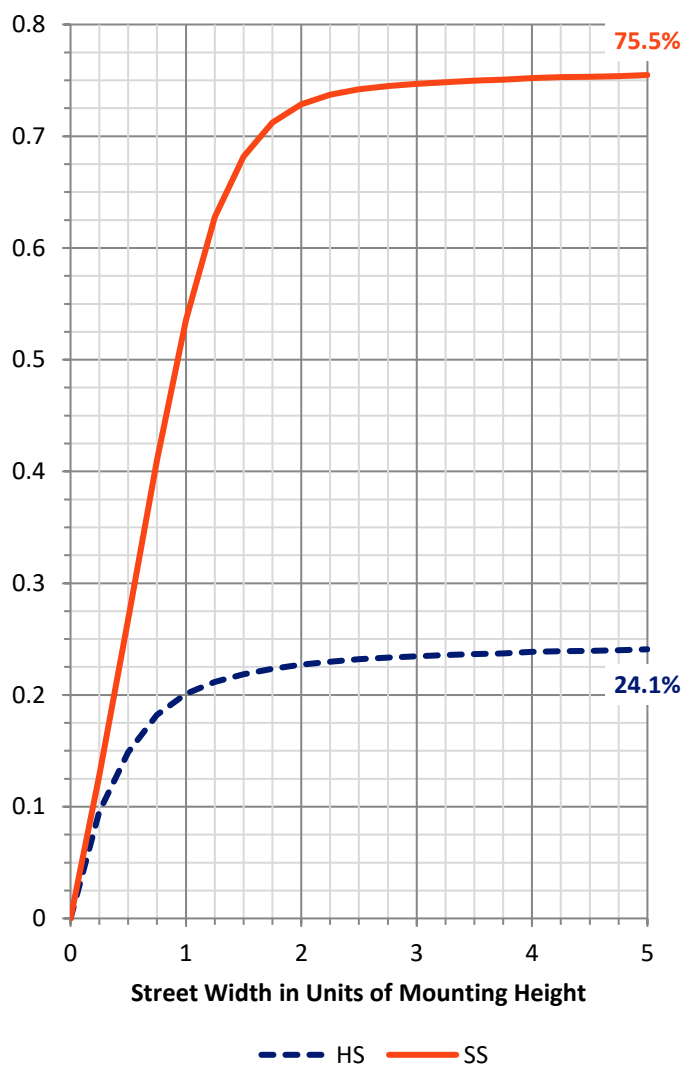
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1696.4	0.0	1696.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5269.6	0.0	5269.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	6966.0	0.0	6966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	1.6
10°-20°	335.0	4.8
20°-30°	628.6	9.0
30°-40°	967.0	13.9
40°-50°	1300.6	18.7
50°-60°	1538.2	22.1
60°-70°	1422.9	20.4
70°-80°	598.6	8.6
80°-90°	66.2	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°	6966.0	100.0
0°-180°	6966.0	100.0

Coefficient of Utilization



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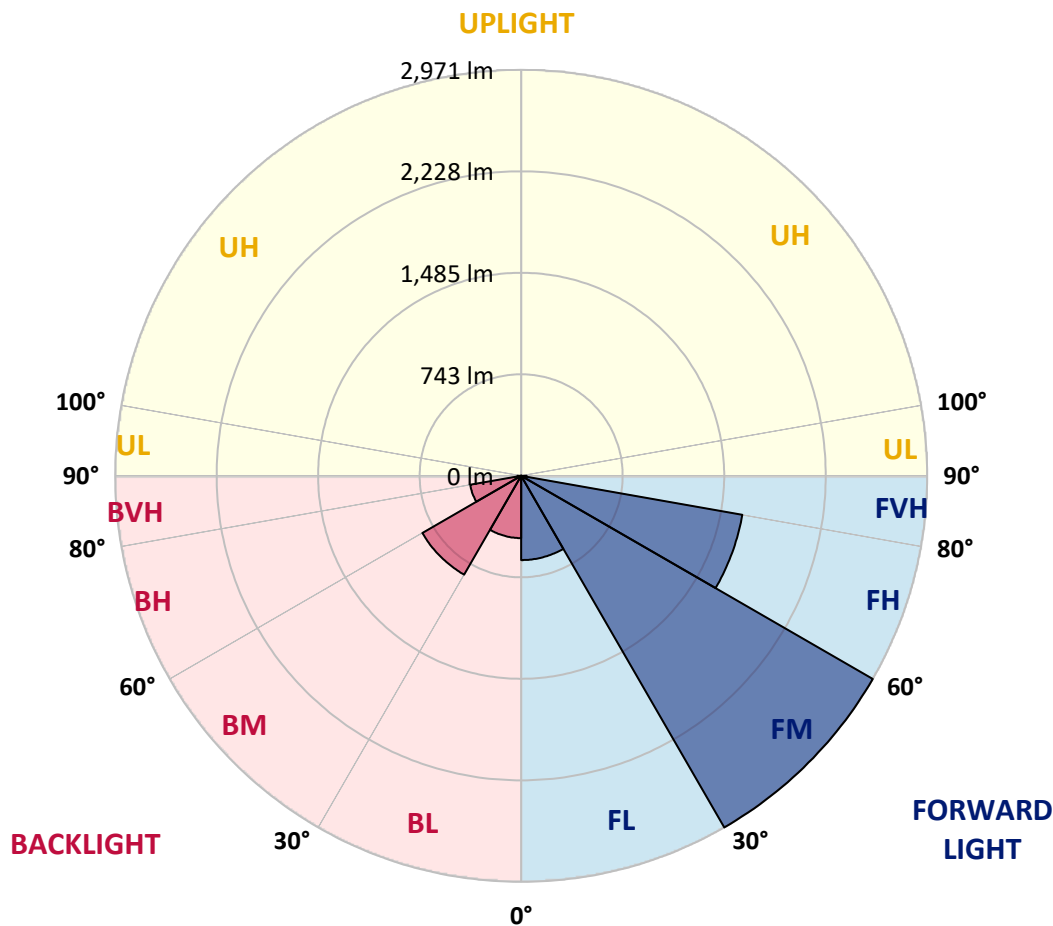
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	616.6	8.9			
FM	(30°-60°)	2970.6	42.6			
FH	(60°-80°)	1642.8	23.6			G1/1800
FVH	(80°-90°)	39.6	0.6			G1/100
BL	(0°-30°)	456.0	6.5	B1/500		
BM	(30°-60°)	835.1	12.0	B1/1000		
BH	(60°-80°)	378.7	5.4	B1/500		G1/500
BVH	(80°-90°)	26.6	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°	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0
2.5°	1138.4	1136.6	1140.2	1145.5	1148.2	1143.8	1142.0	1141.1	1141.1	1138.4	1142.9
5°	1084.6	1083.7	1091.8	1101.6	1120.4	1133.9	1151.8	1162.6	1159.0	1153.6	1157.2
7.5°	1014.7	1012.9	1022.7	1041.6	1067.6	1097.1	1141.1	1175.1	1188.6	1186.8	1185.9
10°	1041.6	1039.8	1038.9	1033.5	1042.5	1071.1	1116.9	1176.9	1222.6	1223.5	1224.4
12.5°	1134.8	1139.3	1134.8	1117.8	1098.0	1087.3	1114.2	1181.4	1251.3	1256.7	1279.1
15°	1262.1	1257.6	1248.6	1228.9	1198.4	1166.2	1146.4	1202.0	1292.5	1297.0	1346.3
17.5°	1374.1	1377.7	1372.3	1353.5	1317.6	1275.5	1215.5	1237.9	1336.5	1349.0	1418.0
20°	1496.0	1510.4	1503.2	1479.9	1450.3	1387.6	1312.3	1289.9	1384.9	1393.8	1492.4
22.5°	1636.7	1652.0	1638.5	1616.1	1591.9	1514.8	1418.0	1353.5	1425.2	1444.0	1564.1
25°	1805.3	1819.6	1807.1	1772.1	1741.6	1647.5	1531.9	1425.2	1464.6	1485.3	1622.4
27.5°	1938.8	1949.6	1961.2	1940.6	1894.0	1796.3	1650.2	1499.6	1504.1	1525.6	1676.2
30°	2058.0	2084.9	2094.8	2097.5	2058.0	1948.7	1771.2	1576.7	1538.1	1560.6	1730.0
32.5°	2221.2	2261.5	2245.4	2261.5	2238.2	2092.1	1896.7	1656.5	1582.1	1602.7	1781.1
35°	2459.6	2491.9	2449.7	2437.2	2399.5	2237.3	2017.7	1738.9	1640.3	1662.7	1829.5
37.5°	2716.0	2752.7	2691.8	2641.6	2569.9	2380.7	2121.7	1847.4	1721.0	1738.9	1874.3
40°	2940.1	2970.5	2917.6	2851.3	2731.2	2507.1	2211.3	1923.6	1801.7	1824.1	1926.3
42.5°	3147.1	3166.8	3107.7	3044.0	2883.6	2620.9	2308.1	2004.3	1895.8	1917.3	1968.4
45°	3356.9	3372.1	3289.6	3199.1	3010.9	2724.9	2414.8	2117.2	2033.8	2062.5	2036.5
47.5°	3394.5	3399.0	3384.6	3323.7	3111.3	2824.4	2546.6	2268.7	2244.5	2275.9	2153.9
50°	3133.7	3174.0	3262.7	3322.8	3151.6	2907.8	2678.3	2485.6	2534.9	2575.2	2397.8
52.5°	2627.2	2665.8	2871.0	3098.7	3054.8	2926.6	2819.9	2760.8	2944.5	2992.9	2729.4
55°	2093.0	2127.1	2344.0	2672.0	2742.0	2840.6	2971.4	3112.2	3467.1	3499.4	3093.3
57.5°	1723.7	1742.5	1897.6	2213.1	2325.2	2565.4	3053.0	3529.9	3998.6	4047.9	3409.7
60°	1413.6	1434.2	1549.8	1809.7	1958.5	2171.9	2988.5	3942.2	4633.3	4633.3	3815.8
62.5°	1064.0	1081.9	1189.5	1392.9	1643.0	1838.4	2782.3	4215.6	5111.9	5090.4	4109.8
65°	730.5	744.9	822.9	958.2	1183.2	1566.8	2500.8	4219.2	5429.2	5400.6	4235.3
66°	613.1	625.7	692.0	801.3	990.5	1421.6	2401.3	4143.0	5495.6	5455.2	4182.4
67.5°	484.0	493.0	536.9	601.5	726.0	1150.9	2244.5	3926.9	5489.3	5465.1	4047.9
70°	346.0	352.3	384.5	398.0	429.4	666.0	1782.9	3439.3	5049.2	5056.4	3519.1
72.5°	268.0	277.9	297.6	300.3	293.1	354.1	1081.9	2869.2	4130.4	4127.7	2612.0
75°	216.0	221.4	231.3	236.6	234.8	228.6	458.0	2140.5	2843.2	2876.4	1462.9
77.5°	170.3	169.4	178.4	185.5	190.9	179.3	209.7	1254.9	1490.6	1448.5	549.5
80°	125.5	125.5	138.0	140.7	148.8	150.6	139.8	484.0	511.8	465.2	142.5
82.5°	82.5	82.5	95.9	97.7	105.8	117.4	101.3	145.2	141.6	134.5	64.5
85°	44.8	43.0	47.5	53.8	58.3	69.0	61.0	72.6	74.4	73.5	43.0
87.5°	9.0	8.1	12.5	14.3	16.1	21.5	19.7	29.6	41.2	40.3	18.8
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°	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0
2.5°	1149.1	1148.2	1158.1	1169.7	1183.2	1191.3	1194.8	1201.1	1196.6	1198.4	1203.8
5°	1166.2	1168.8	1183.2	1198.4	1204.7	1200.2	1190.4	1186.8	1178.7	1176.9	1175.1
7.5°	1191.3	1195.7	1210.1	1213.7	1194.8	1163.5	1141.1	1128.5	1115.1	1111.5	1109.7
10°	1232.5	1235.2	1238.8	1202.0	1155.4	1113.3	1085.5	1073.8	1064.9	1057.7	1059.5
12.5°	1284.5	1282.7	1254.9	1178.7	1112.4	1069.4	1050.5	1043.4	1037.1	1032.6	1031.7
15°	1349.9	1337.4	1257.6	1146.4	1072.0	1036.2	1022.7	1020.1	1012.9	1012.9	1012.0
17.5°	1416.2	1384.0	1255.8	1112.4	1033.5	1013.8	1005.7	1003.9	1002.1	1001.2	1003.9
20°	1482.6	1425.2	1241.5	1070.3	1006.6	995.0	993.2	994.1	992.3	995.0	993.2
22.5°	1540.8	1452.1	1214.6	1025.4	987.8	986.9	982.4	984.2	990.5	991.4	994.1
25°	1585.7	1462.0	1175.1	984.2	974.3	972.5	977.9	985.1	990.5	991.4	995.9
27.5°	1622.4	1456.6	1125.8	951.9	951.0	960.9	977.0	979.7	980.6	980.6	977.0
30°	1650.2	1444.9	1063.1	916.1	920.6	944.8	960.0	960.0	952.8	951.0	956.4
32.5°	1656.5	1429.7	995.0	879.3	886.5	915.2	934.0	927.7	919.7	919.7	923.2
35°	1661.8	1409.1	940.3	829.1	839.9	873.9	891.9	879.3	870.4	867.7	866.8
37.5°	1660.1	1401.0	891.0	765.5	779.8	813.0	824.6	813.0	799.6	793.3	801.3
40°	1661.8	1395.6	829.1	695.6	709.9	729.6	744.9	735.9	723.4	707.2	715.3
42.5°	1672.6	1402.8	761.0	627.5	627.5	638.2	664.2	657.9	627.5	621.2	628.3
45°	1730.0	1441.3	692.9	559.3	549.5	556.6	583.5	556.6	537.8	537.8	544.1
47.5°	1868.9	1513.1	632.8	499.3	476.0	490.3	497.5	472.4	458.0	454.5	460.7
50°	2152.2	1656.5	597.0	450.0	421.3	432.0	427.6	426.7	412.3	414.1	417.7
52.5°	2582.4	1936.1	586.2	425.8	389.9	392.6	388.1	389.9	387.2	396.2	398.9
55°	3051.2	2231.0	599.7	429.4	368.4	349.6	351.4	360.3	371.1	385.4	388.1
57.5°	3401.7	2378.9	634.6	453.6	341.5	312.8	317.3	334.3	355.0	366.6	372.9
60°	3662.5	2361.0	685.7	459.8	309.2	279.7	287.7	312.8	330.8	340.6	346.9
62.5°	3747.7	2249.0	698.3	414.1	267.1	248.3	268.0	294.0	302.1	312.8	317.3
65°	3677.8	2090.3	606.8	336.1	234.8	225.0	253.7	273.4	284.1	289.5	290.4
66°	3595.3	1995.3	557.5	305.7	223.2	217.8	248.3	264.4	275.2	274.3	275.2
67.5°	3414.2	1796.3	477.8	262.6	206.2	207.1	239.3	250.1	253.7	251.0	251.0
70°	2798.4	1264.8	342.4	199.0	181.1	193.6	215.1	217.8	225.9	222.3	222.3
72.5°	1725.5	621.2	229.5	152.4	161.3	181.1	180.2	189.1	208.0	213.3	216.9
75°	848.0	251.9	151.5	129.1	144.3	151.5	149.7	172.1	199.0	222.3	230.4
77.5°	321.8	125.5	105.8	112.9	116.5	113.8	119.2	156.0	199.0	241.1	249.2
80°	99.5	86.9	83.4	93.2	87.8	83.4	89.6	129.1	168.5	182.9	182.9
82.5°	60.1	68.1	64.5	63.6	59.2	60.1	64.5	92.3	130.0	136.2	136.2
85°	42.1	44.8	36.8	35.0	34.1	33.2	33.2	53.8	77.1	76.2	78.9
87.5°	16.1	17.9	13.4	13.4	12.5	9.0	7.2	9.0	9.0	6.3	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)