

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: P798995

Luminaire Tested: **ARCH1-50-730-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-50-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

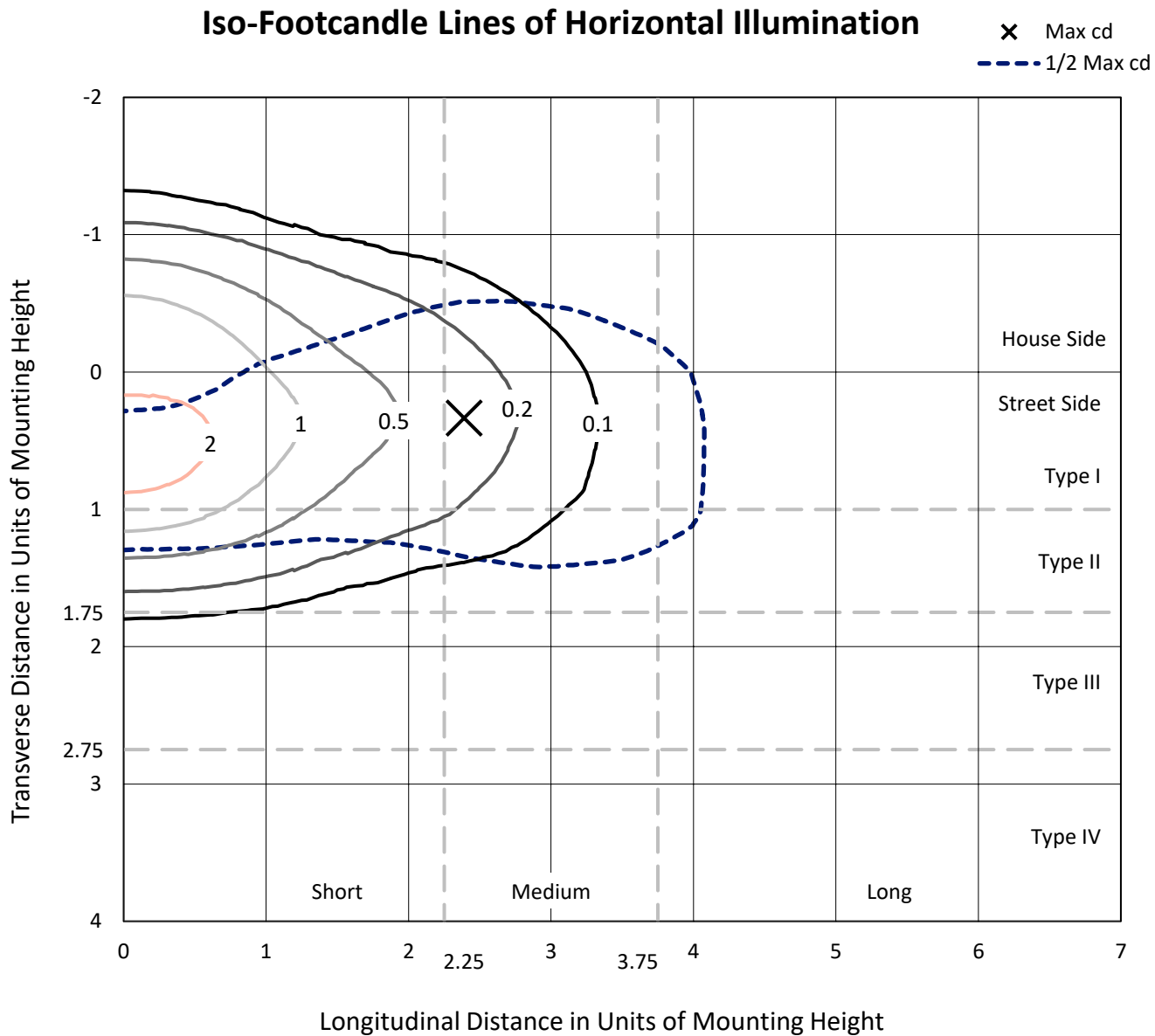
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6559 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 53
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



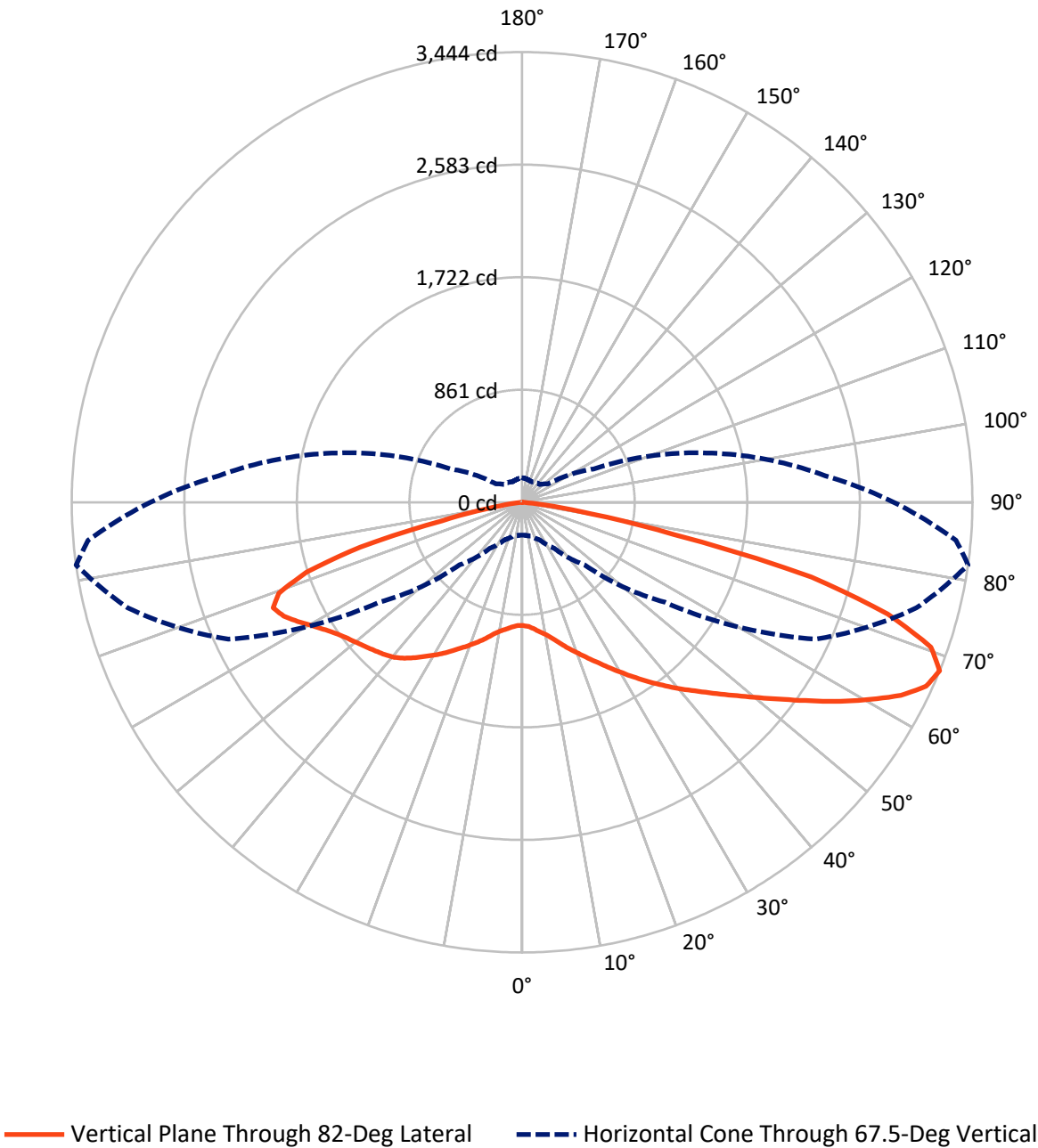
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Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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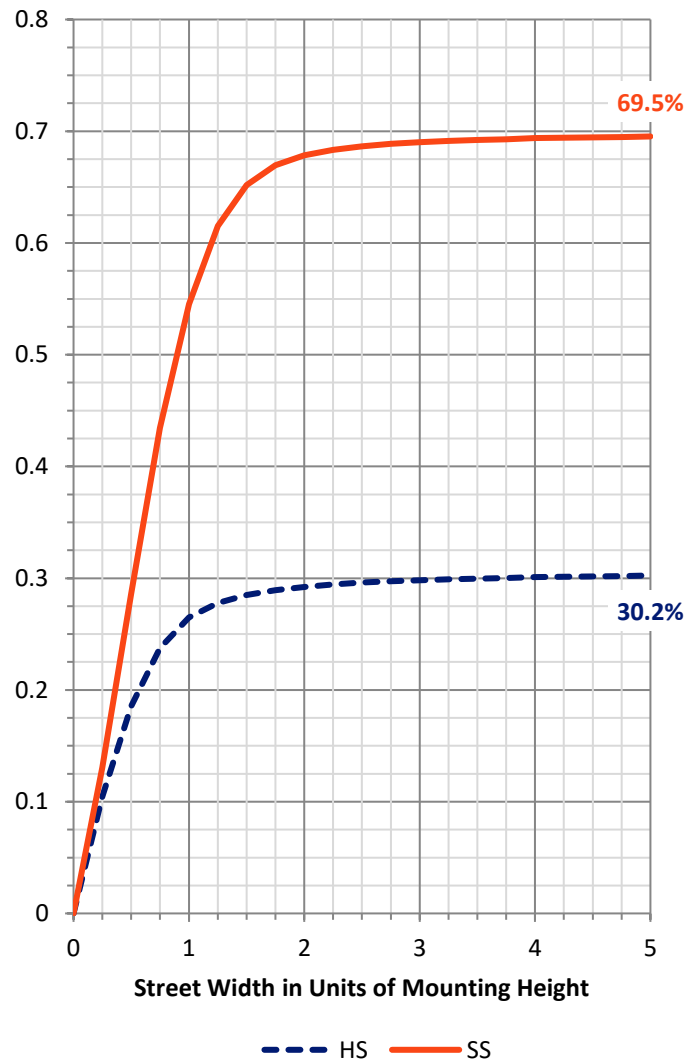
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1997.5	0.0	1997.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4561.5	0.0	4561.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	6559.0	0.0	6559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	1.5
10°-20°	351.0	5.4
20°-30°	705.4	10.8
30°-40°	1108.1	16.9
40°-50°	1349.8	20.6
50°-60°	1275.4	19.4
60°-70°	1053.2	16.1
70°-80°	573.5	8.7
80°-90°	45.1	0.7
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°	6559.0	100.0
0°-180°	6559.0	100.0

Coefficient of Utilization



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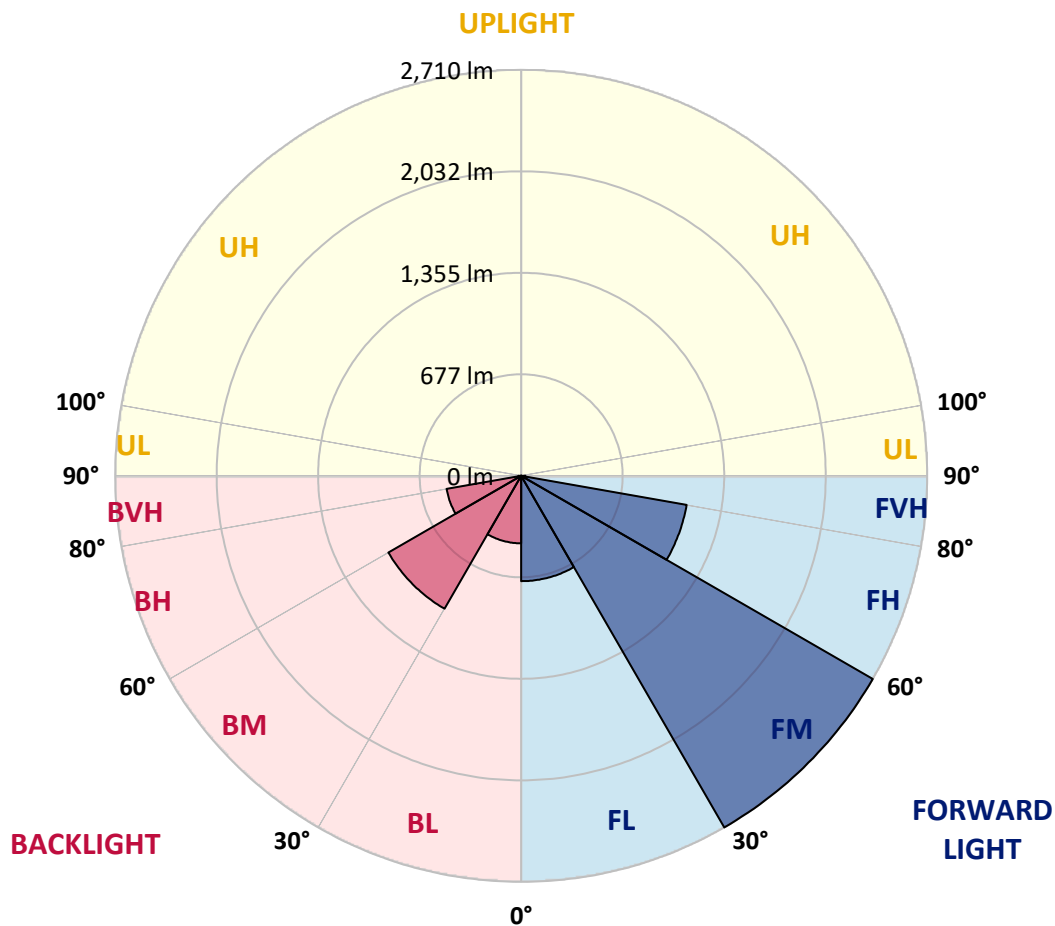
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	703.4	10.7			
FM	(30°-60°)	2709.8	41.3			
FH	(60°-80°)	1121.2	17.1			G1/1800
FVH	(80°-90°)	27.2	0.4			G1/100
BL	(0°-30°)	450.4	6.9	B1/500		
BM	(30°-60°)	1023.5	15.6	B2/2500		
BH	(60°-80°)	505.6	7.7	B2/1000		G2/1000
BVH	(80°-90°)	17.9	0.3			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9
2.5°	985.7	985.7	993.3	993.3	986.7	976.2	973.3	961.9	951.4	951.4	952.4
5°	1080.0	1079.0	1084.8	1077.1	1060.9	1040.0	1025.7	1000.9	980.0	973.3	972.4
7.5°	1195.2	1194.3	1197.1	1184.8	1154.3	1120.0	1091.4	1051.4	1017.1	1002.9	999.0
10°	1323.8	1322.9	1320.0	1299.0	1258.1	1204.8	1161.9	1106.7	1055.2	1032.4	1027.6
12.5°	1471.4	1469.5	1462.9	1432.4	1376.2	1307.6	1245.7	1174.3	1105.7	1074.3	1063.8
15°	1636.2	1633.3	1620.9	1583.8	1508.6	1421.9	1341.9	1250.5	1166.7	1125.7	1111.4
17.5°	1809.5	1809.5	1790.5	1735.2	1651.4	1543.8	1444.8	1328.6	1230.5	1180.0	1162.9
20°	1985.7	1984.8	1960.9	1894.3	1795.2	1671.4	1545.7	1418.1	1296.2	1235.2	1214.3
22.5°	2171.4	2169.5	2140.0	2063.8	1945.7	1805.7	1659.0	1506.7	1368.6	1295.2	1268.6
25°	2384.8	2381.9	2345.7	2252.4	2112.4	1954.3	1786.7	1610.5	1451.4	1361.9	1330.5
27.5°	2611.4	2607.6	2564.8	2456.2	2302.8	2112.4	1927.6	1730.5	1542.9	1436.2	1400.9
30°	2813.3	2810.5	2763.8	2652.4	2476.2	2269.5	2061.9	1850.5	1639.0	1515.2	1471.4
32.5°	2965.7	2965.7	2923.8	2814.3	2631.4	2420.0	2197.1	1963.8	1739.0	1600.0	1548.6
35°	3058.1	3060.9	3024.7	2937.1	2764.7	2561.9	2337.1	2097.1	1845.7	1690.5	1635.2
37.5°	3071.4	3080.9	3060.0	3000.9	2857.1	2680.0	2474.3	2225.7	1956.2	1781.9	1720.0
40°	3009.5	3016.2	3017.1	2994.3	2895.2	2764.7	2595.2	2361.9	2073.3	1878.1	1806.7
42.5°	2885.7	2890.5	2899.0	2905.7	2867.6	2801.9	2687.6	2488.6	2198.1	1976.2	1892.4
45°	2725.7	2724.7	2739.0	2767.6	2765.7	2780.9	2739.0	2603.8	2327.6	2087.6	1987.6
47.5°	2486.7	2481.9	2532.4	2597.1	2629.5	2700.9	2740.0	2694.3	2468.6	2210.5	2096.2
50°	2112.4	2107.6	2218.1	2370.5	2465.7	2574.3	2687.6	2748.6	2616.2	2348.6	2214.3
52.5°	1657.1	1652.4	1792.4	2059.0	2266.7	2424.8	2581.9	2760.9	2756.2	2502.8	2347.6
55°	1232.4	1228.6	1364.8	1653.3	1989.5	2251.4	2452.4	2728.6	2887.6	2680.0	2509.5
57.5°	868.6	866.7	984.8	1223.8	1633.3	2040.0	2327.6	2665.7	3008.6	2872.4	2692.4
60°	609.5	606.7	692.4	877.1	1235.2	1720.9	2203.8	2581.9	3099.0	3061.9	2886.7
62.5°	410.5	408.6	469.5	623.8	877.1	1324.8	2016.2	2525.7	3150.5	3252.4	3082.8
65°	311.4	310.5	338.1	422.9	620.9	951.4	1718.1	2519.0	3157.1	3395.2	3249.5
67.5°	251.4	252.4	267.6	316.2	429.5	676.2	1332.4	2477.1	3121.9	3443.8	3330.5
70°	205.7	205.7	212.4	244.8	317.1	456.2	930.5	2286.7	3023.8	3317.1	3234.3
72.5°	157.1	158.1	179.0	198.1	239.0	320.0	596.2	1892.4	2792.4	2924.7	2861.9
75°	124.8	123.8	136.2	162.9	185.7	228.6	365.7	1357.1	2376.2	2285.7	2245.7
77.5°	89.5	88.6	98.1	121.0	141.0	161.9	218.1	684.8	1292.4	1187.6	1158.1
80°	61.0	59.0	67.6	83.8	93.3	95.2	106.7	262.9	563.8	531.4	524.8
82.5°	31.4	31.4	36.2	47.6	48.6	49.5	47.6	84.8	186.7	174.3	166.7
85°	12.4	12.4	13.3	16.2	16.2	17.1	17.1	21.9	20.0	19.0	18.1
87.5°	1.0	1.0	1.9	1.9	2.9	2.9	2.9	3.8	4.8	4.8	4.8
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°	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9
2.5°	950.5	946.7	934.3	931.4	929.5	926.7	927.6	920.9	918.1	919.0	915.2
5°	967.6	960.9	945.7	939.0	937.1	934.3	937.1	932.4	927.6	929.5	927.6
7.5°	991.4	981.9	962.9	956.2	955.2	952.4	956.2	952.4	948.6	950.5	946.7
10°	1016.2	1003.8	982.9	976.2	976.2	975.2	979.0	973.3	969.5	970.5	968.6
12.5°	1052.4	1036.2	1013.3	1007.6	1004.8	1007.6	1008.6	1000.9	994.3	995.2	992.4
15°	1096.2	1078.1	1053.3	1044.8	1042.9	1041.9	1038.1	1028.6	1020.0	1019.0	1016.2
17.5°	1143.8	1120.9	1091.4	1082.9	1074.3	1071.4	1061.9	1049.5	1036.2	1036.2	1032.4
20°	1189.5	1163.8	1128.6	1116.2	1103.8	1092.4	1076.2	1056.2	1039.0	1036.2	1032.4
22.5°	1239.0	1208.6	1167.6	1149.5	1127.6	1104.8	1077.1	1050.5	1028.6	1023.8	1020.9
25°	1294.3	1256.2	1207.6	1180.9	1145.7	1110.5	1069.5	1035.2	1009.5	1001.9	1000.0
27.5°	1355.2	1309.5	1250.5	1211.4	1160.0	1104.8	1052.4	1011.4	980.0	970.5	967.6
30°	1417.1	1362.9	1289.5	1232.4	1160.0	1086.7	1020.9	973.3	937.1	923.8	921.9
32.5°	1479.0	1418.1	1324.8	1243.8	1148.6	1056.2	980.0	923.8	882.9	866.7	870.5
35°	1553.3	1479.0	1357.1	1248.6	1129.5	1019.0	933.3	867.6	825.7	811.4	814.3
37.5°	1630.5	1540.0	1382.9	1244.8	1102.9	977.1	880.9	817.1	764.8	740.0	742.9
40°	1697.1	1595.2	1400.9	1231.4	1068.6	929.5	829.5	745.7	673.3	649.5	646.7
42.5°	1760.0	1636.2	1410.5	1211.4	1029.5	874.3	756.2	648.6	576.2	546.7	547.6
45°	1825.7	1676.2	1406.7	1184.8	980.9	809.5	661.9	553.3	489.5	462.9	463.8
47.5°	1900.9	1719.0	1402.9	1156.2	921.9	725.7	571.4	469.5	414.3	395.2	393.3
50°	1980.9	1766.7	1398.1	1120.9	856.2	632.4	481.9	391.4	344.8	332.4	329.5
52.5°	2071.4	1818.1	1395.2	1079.0	777.1	533.3	401.9	322.9	291.4	282.9	281.9
55°	2180.0	1878.1	1399.0	1028.6	681.9	440.0	334.3	278.1	257.1	252.4	251.4
57.5°	2312.4	1955.2	1410.5	969.5	581.9	359.0	284.8	250.5	237.1	233.3	233.3
60°	2456.2	2042.8	1431.4	902.9	481.9	296.2	252.4	228.6	222.9	227.6	227.6
62.5°	2611.4	2145.7	1468.6	821.9	388.6	250.5	226.7	210.5	206.7	216.2	217.1
65°	2755.2	2245.7	1492.4	724.8	308.6	217.1	206.7	192.4	194.3	203.8	202.9
67.5°	2843.8	2328.6	1459.0	602.9	244.8	192.4	185.7	173.3	178.1	185.7	186.7
70°	2789.5	2281.9	1294.3	455.2	191.4	167.6	162.9	155.2	159.0	168.6	172.4
72.5°	2523.8	2043.8	1006.7	307.6	154.3	141.0	142.9	139.0	143.8	152.4	161.0
75°	2048.6	1544.8	675.2	197.1	121.9	120.0	122.9	120.0	121.9	130.5	135.2
77.5°	1069.5	753.3	336.2	122.9	90.5	93.3	98.1	99.0	104.8	106.7	108.6
80°	499.0	339.0	140.0	68.6	60.0	65.7	75.2	76.2	78.1	81.0	81.9
82.5°	162.9	101.9	64.8	37.1	34.3	37.1	48.6	58.1	59.0	64.8	64.8
85°	17.1	10.5	14.3	15.2	13.3	16.2	21.9	21.0	9.5	5.7	5.7
87.5°	4.8	3.8	4.8	4.8	3.8	3.8	2.9	1.0	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)