

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: P798915

Luminaire Tested: **ARCH1-40-750-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798915
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: ARCH1-40-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

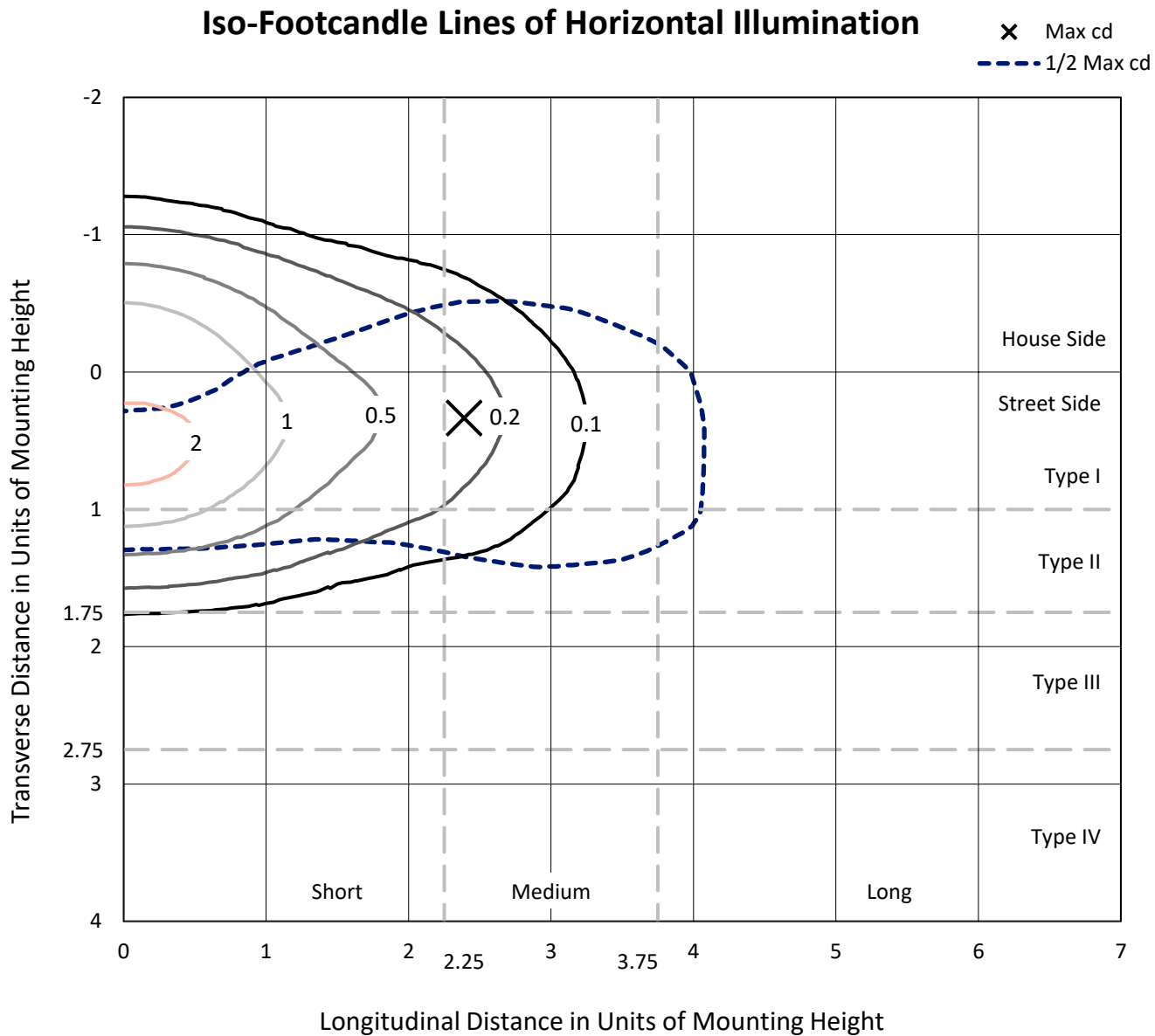
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5919 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 43
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

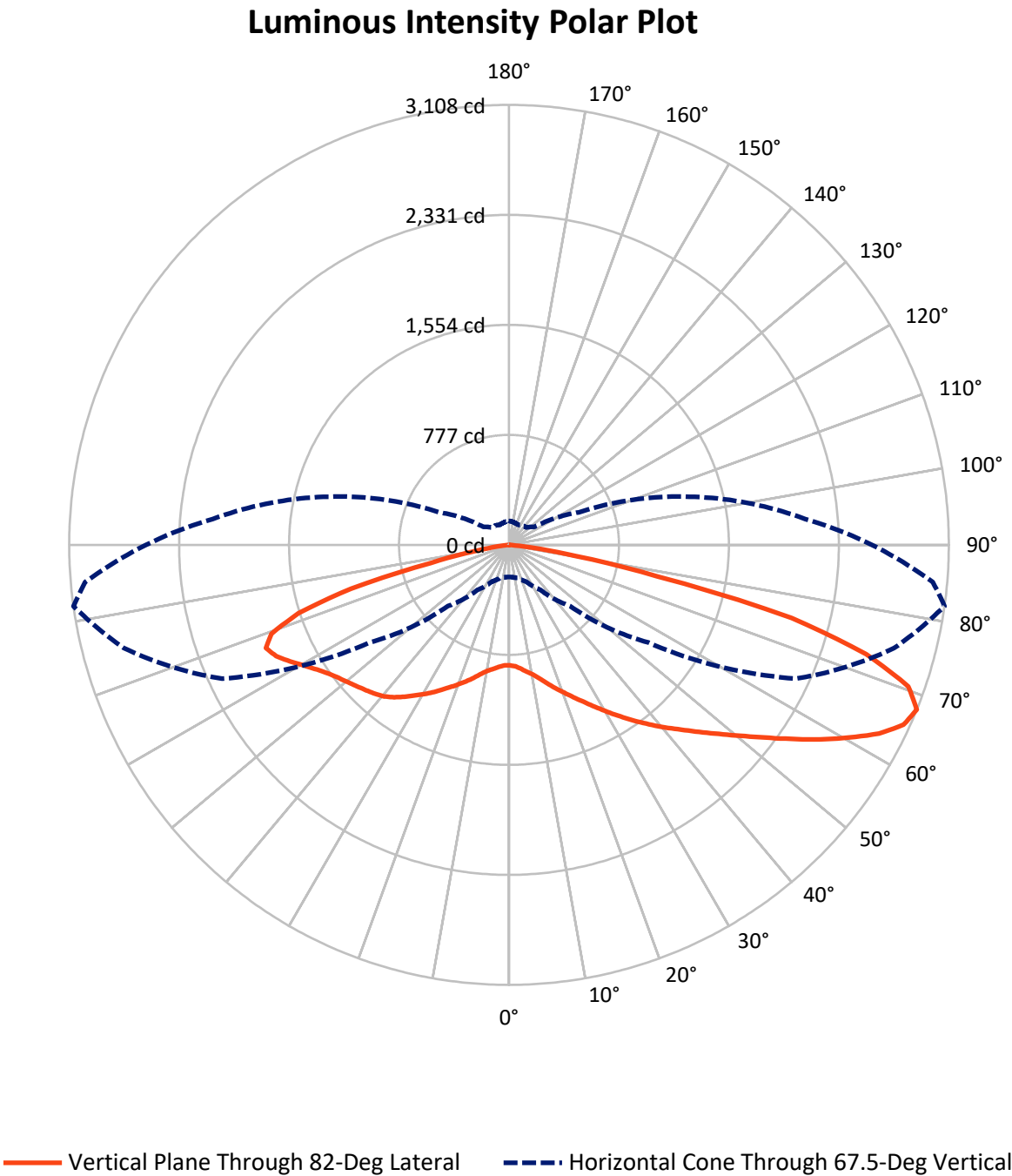


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Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Medium - N/A

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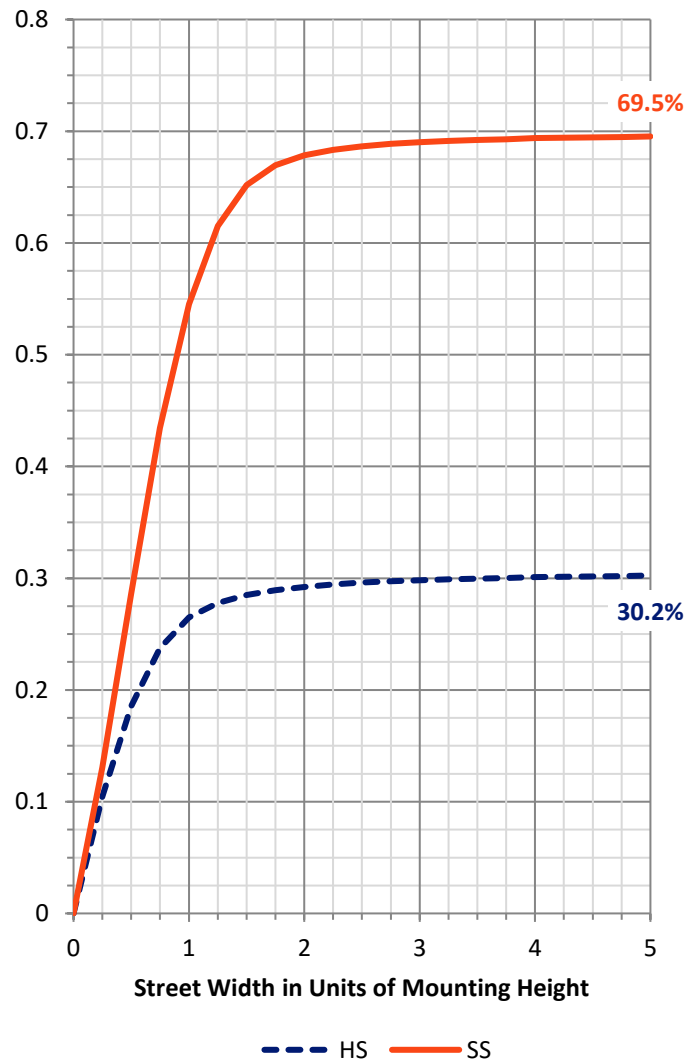
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1802.6	0.0	1802.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4116.4	0.0	4116.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	5919.0	0.0	5919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	1.5
10°-20°	316.7	5.4
20°-30°	636.6	10.8
30°-40°	999.9	16.9
40°-50°	1218.1	20.6
50°-60°	1151.0	19.4
60°-70°	950.5	16.1
70°-80°	517.6	8.7
80°-90°	40.7	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°	5919.0	100.0
0°-180°	5919.0	100.0

Coefficient of Utilization



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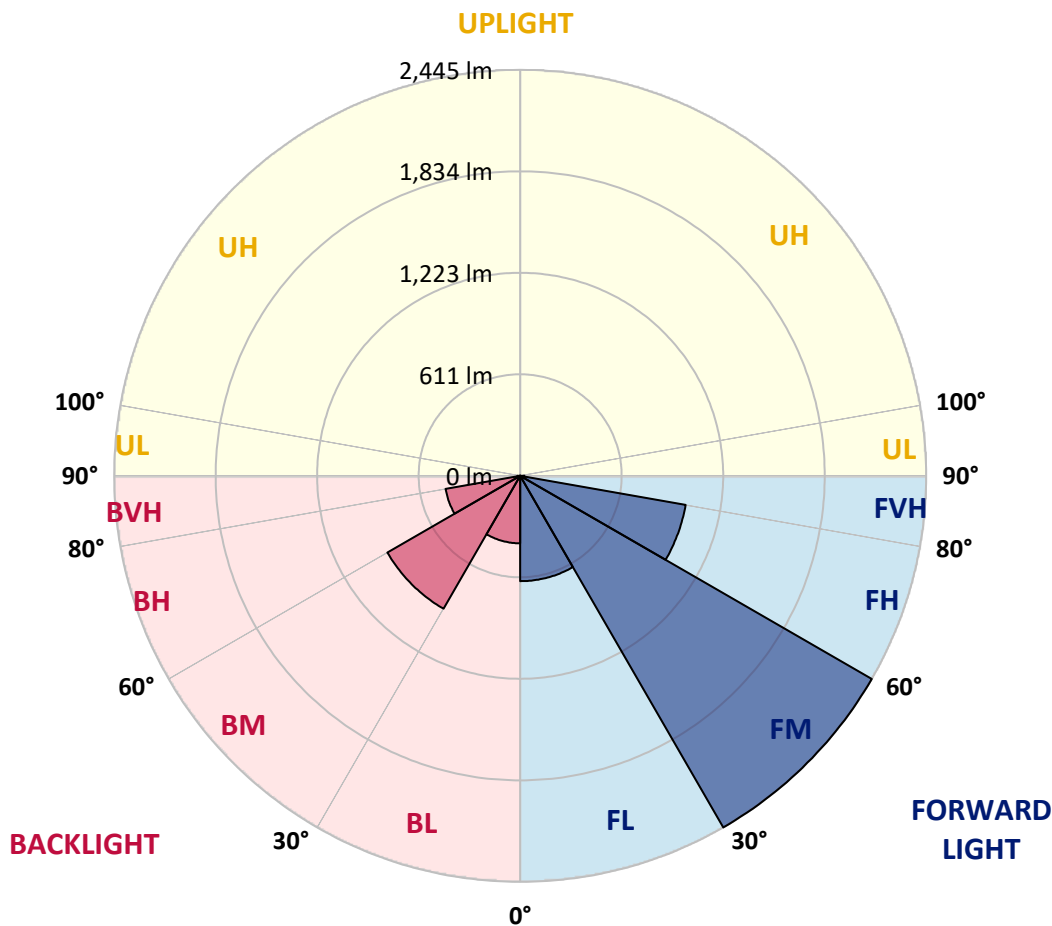
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	634.7	10.7			
FM	(30°-60°)	2445.4	41.3			
FH	(60°-80°)	1011.8	17.1			G1/1800
FVH	(80°-90°)	24.5	0.4			G1/100
BL	(0°-30°)	406.5	6.9	B1/500		
BM	(30°-60°)	923.7	15.6	B1/1000		
BH	(60°-80°)	456.2	7.7	B1/500		G1/500
BVH	(80°-90°)	16.2	0.3			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9
2.5°	889.5	889.5	896.4	896.4	890.4	880.9	878.4	868.0	858.6	858.6	859.4
5°	974.6	973.8	978.9	972.0	957.4	938.5	925.6	903.3	884.4	878.4	877.5
7.5°	1078.6	1077.7	1080.3	1069.2	1041.7	1010.7	984.9	948.8	917.9	905.0	901.6
10°	1194.6	1193.8	1191.2	1172.3	1135.3	1087.2	1048.5	998.7	952.3	931.6	927.3
12.5°	1327.8	1326.1	1320.1	1292.6	1241.9	1180.0	1124.2	1059.7	997.8	969.5	960.0
15°	1476.5	1474.0	1462.8	1429.3	1361.4	1283.2	1211.0	1128.5	1052.8	1015.9	1003.0
17.5°	1633.0	1633.0	1615.8	1565.9	1490.3	1393.2	1303.8	1198.9	1110.4	1064.9	1049.4
20°	1791.9	1791.1	1769.6	1709.4	1620.1	1508.3	1394.9	1279.7	1169.7	1114.7	1095.8
22.5°	1959.5	1957.8	1931.2	1862.4	1755.9	1629.5	1497.2	1359.6	1235.0	1168.8	1144.8
25°	2152.1	2149.5	2116.8	2032.6	1906.3	1763.6	1612.3	1453.3	1309.8	1229.0	1200.6
27.5°	2356.6	2353.2	2314.5	2216.5	2078.1	1906.3	1739.5	1561.6	1392.3	1296.0	1264.2
30°	2538.8	2536.2	2494.1	2393.6	2234.6	2048.1	1860.7	1669.9	1479.1	1367.4	1327.8
32.5°	2676.3	2676.3	2638.5	2539.7	2374.7	2183.9	1982.7	1772.2	1569.4	1443.9	1397.5
35°	2759.7	2762.3	2729.6	2650.5	2495.0	2311.9	2109.1	1892.5	1665.6	1525.5	1475.7
37.5°	2771.7	2780.3	2761.4	2708.1	2578.3	2418.5	2232.8	2008.5	1765.3	1608.0	1552.2
40°	2715.9	2721.9	2722.7	2702.1	2612.7	2495.0	2342.0	2131.4	1871.0	1694.8	1630.4
42.5°	2604.1	2608.4	2616.2	2622.2	2587.8	2528.5	2425.4	2245.7	1983.6	1783.4	1707.7
45°	2459.7	2458.9	2471.8	2497.6	2495.8	2509.6	2471.8	2349.7	2100.5	1883.9	1793.7
47.5°	2244.0	2239.7	2285.3	2343.7	2372.9	2437.4	2472.6	2431.4	2227.7	1994.8	1891.6
50°	1906.3	1902.0	2001.7	2139.2	2225.1	2323.1	2425.4	2480.4	2360.9	2119.4	1998.2
52.5°	1495.4	1491.1	1617.5	1858.1	2045.5	2188.2	2330.0	2491.5	2487.2	2258.6	2118.5
55°	1112.1	1108.7	1231.6	1492.0	1795.4	2031.7	2213.1	2462.3	2605.8	2418.5	2264.6
57.5°	783.8	782.1	888.7	1104.4	1474.0	1840.9	2100.5	2405.6	2715.0	2592.1	2429.7
60°	550.0	547.5	624.8	791.6	1114.7	1553.0	1988.8	2330.0	2796.6	2763.1	2605.0
62.5°	370.4	368.7	423.7	562.9	791.6	1195.5	1819.5	2279.3	2843.1	2935.0	2782.0
65°	281.0	280.2	305.1	381.6	560.4	858.6	1550.4	2273.2	2849.1	3063.9	2932.4
67.5°	226.9	227.8	241.5	285.3	387.6	610.2	1202.4	2235.4	2817.3	3107.8	3005.5
70°	185.6	185.6	191.7	220.9	286.2	411.7	839.7	2063.5	2728.7	2993.5	2918.7
72.5°	141.8	142.7	161.6	178.8	215.7	288.8	538.0	1707.7	2519.9	2639.4	2582.6
75°	112.6	111.7	122.9	147.0	167.6	206.3	330.0	1224.7	2144.3	2062.7	2026.6
77.5°	80.8	79.9	88.5	109.1	127.2	146.1	196.8	617.9	1166.3	1071.7	1045.1
80°	55.0	53.3	61.0	75.6	84.2	85.9	96.3	237.2	508.8	479.6	473.6
82.5°	28.4	28.4	32.7	43.0	43.8	44.7	43.0	76.5	168.5	157.3	150.4
85°	11.2	11.2	12.0	14.6	14.6	15.5	15.5	19.8	18.0	17.2	16.3
87.5°	0.9	0.9	1.7	1.7	2.6	2.6	2.6	3.4	4.3	4.3	4.3
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°	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9
2.5°	857.7	854.3	843.1	840.5	838.8	836.2	837.1	831.1	828.5	829.4	825.9
5°	873.2	867.2	853.4	847.4	845.7	843.1	845.7	841.4	837.1	838.8	837.1
7.5°	894.7	886.1	868.9	862.9	862.0	859.4	862.9	859.4	856.0	857.7	854.3
10°	917.0	905.9	886.9	880.9	880.9	880.1	883.5	878.4	874.9	875.8	874.1
12.5°	949.7	935.1	914.5	909.3	906.7	909.3	910.2	903.3	897.3	898.1	895.5
15°	989.2	972.9	950.5	942.8	941.1	940.2	936.8	928.2	920.5	919.6	917.0
17.5°	1032.2	1011.6	984.9	977.2	969.5	966.9	958.3	947.1	935.1	935.1	931.6
20°	1073.5	1050.2	1018.4	1007.3	996.1	985.8	971.2	953.1	937.7	935.1	931.6
22.5°	1118.1	1090.6	1053.7	1037.4	1017.6	997.0	972.0	948.0	928.2	923.9	921.3
25°	1168.0	1133.6	1089.8	1065.7	1033.9	1002.1	965.2	934.2	911.0	904.1	902.4
27.5°	1223.0	1181.7	1128.5	1093.2	1046.8	997.0	949.7	912.7	884.4	875.8	873.2
30°	1278.9	1229.9	1163.7	1112.1	1046.8	980.6	921.3	878.4	845.7	833.7	831.9
32.5°	1334.7	1279.7	1195.5	1122.4	1036.5	953.1	884.4	833.7	796.7	782.1	785.5
35°	1401.8	1334.7	1224.7	1126.7	1019.3	919.6	842.3	783.0	745.1	732.2	734.8
37.5°	1471.4	1389.7	1247.9	1123.3	995.2	881.8	795.0	737.4	690.1	667.8	670.4
40°	1531.5	1439.6	1264.2	1111.3	964.3	838.8	748.6	672.9	607.6	586.1	583.6
42.5°	1588.3	1476.5	1272.8	1093.2	929.1	789.0	682.4	585.3	520.0	493.3	494.2
45°	1647.6	1512.6	1269.4	1069.2	885.2	730.5	597.3	499.3	441.8	417.7	418.6
47.5°	1715.5	1551.3	1266.0	1043.4	831.9	654.9	515.7	423.7	373.9	356.7	355.0
50°	1787.7	1594.3	1261.7	1011.6	772.6	570.7	434.9	353.2	311.1	299.9	297.4
52.5°	1869.3	1640.7	1259.1	973.8	701.3	481.3	362.7	291.4	263.0	255.3	254.4
55°	1967.3	1694.8	1262.5	928.2	615.4	397.1	301.7	251.0	232.1	227.8	226.9
57.5°	2086.7	1764.4	1272.8	874.9	525.1	324.0	257.0	226.0	214.0	210.6	210.6
60°	2216.5	1843.5	1291.7	814.8	434.9	267.3	227.8	206.3	201.1	205.4	205.4
62.5°	2356.6	1936.3	1325.3	741.7	350.7	226.0	204.5	189.9	186.5	195.1	196.0
65°	2486.4	2026.6	1346.8	654.0	278.5	196.0	186.5	173.6	175.3	183.9	183.1
67.5°	2566.3	2101.3	1316.7	544.0	220.9	173.6	167.6	156.4	160.7	167.6	168.5
70°	2517.3	2059.2	1168.0	410.8	172.7	151.3	147.0	140.1	143.5	152.1	155.6
72.5°	2277.5	1844.4	908.4	277.6	139.2	127.2	128.9	125.5	129.8	137.5	145.2
75°	1848.7	1394.0	609.3	177.9	110.0	108.3	110.9	108.3	110.0	117.7	122.0
77.5°	965.2	679.8	303.4	110.9	81.6	84.2	88.5	89.4	94.5	96.3	98.0
80°	450.4	306.0	126.3	61.9	54.1	59.3	67.9	68.8	70.5	73.1	73.9
82.5°	147.0	92.0	58.4	33.5	30.9	33.5	43.8	52.4	53.3	58.4	58.4
85°	15.5	9.5	12.9	13.8	12.0	14.6	19.8	18.9	8.6	5.2	5.2
87.5°	4.3	3.4	4.3	4.3	3.4	3.4	2.6	0.9	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)