

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: P799161

Luminaire Tested: **ARCH1-60-740-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-60-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7122 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

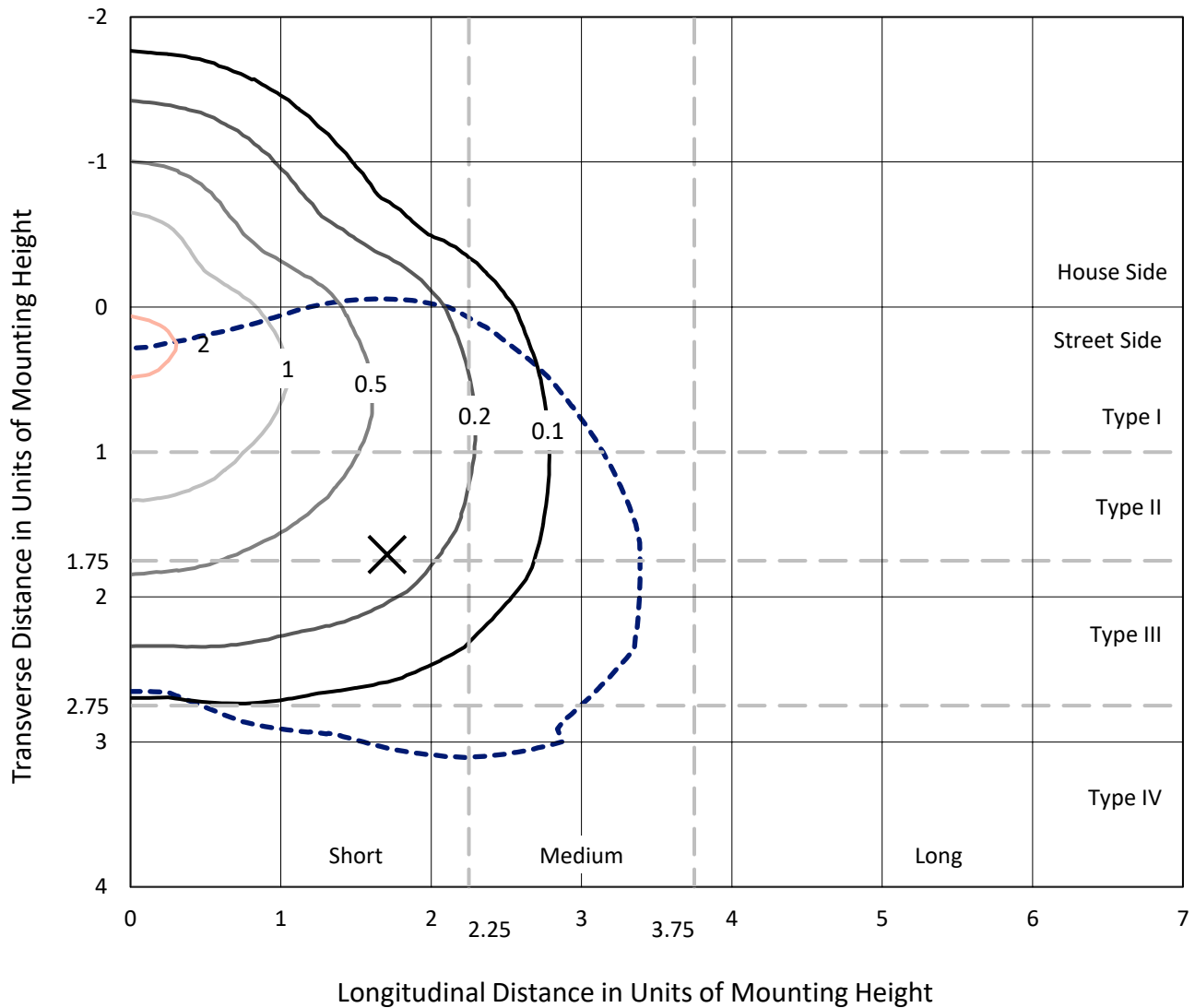


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

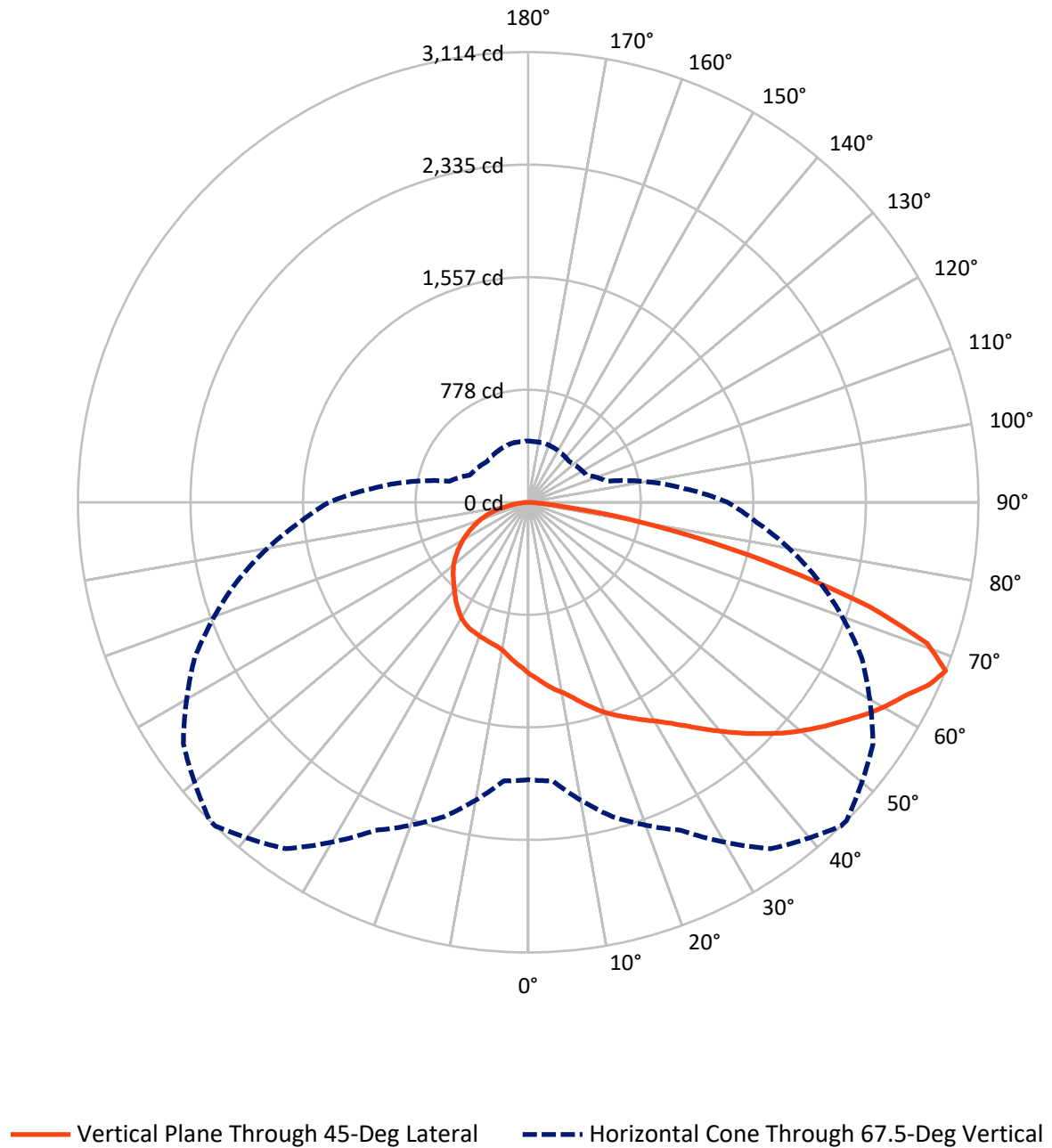


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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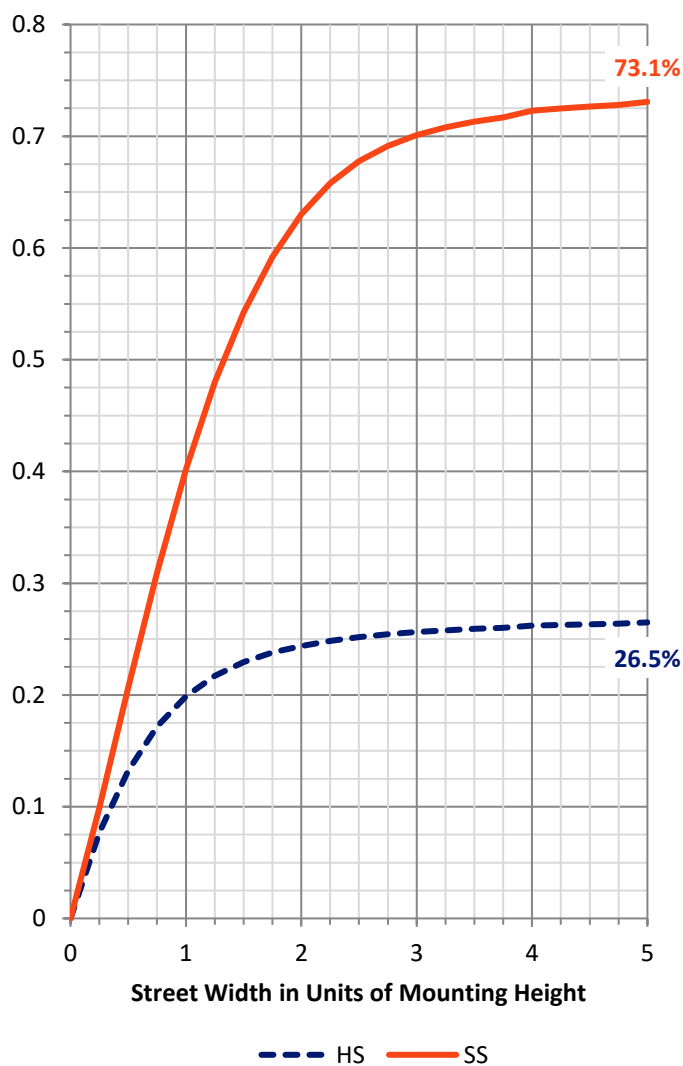
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1902.6	0.0	1902.6
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	5219.3	0.0	5219.3
	% Fixture	73.3	0.0	73.3
Total	Lumens	7122.0	0.0	7122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	1.6
10°-20°	351.3	4.9
20°-30°	606.4	8.5
30°-40°	894.3	12.6
40°-50°	1211.5	17.0
50°-60°	1480.8	20.8
60°-70°	1527.2	21.4
70°-80°	836.5	11.7
80°-90°	100.3	1.4
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°	7122.0	100.0
0°-180°	7122.0	100.0

Coefficient of Utilization



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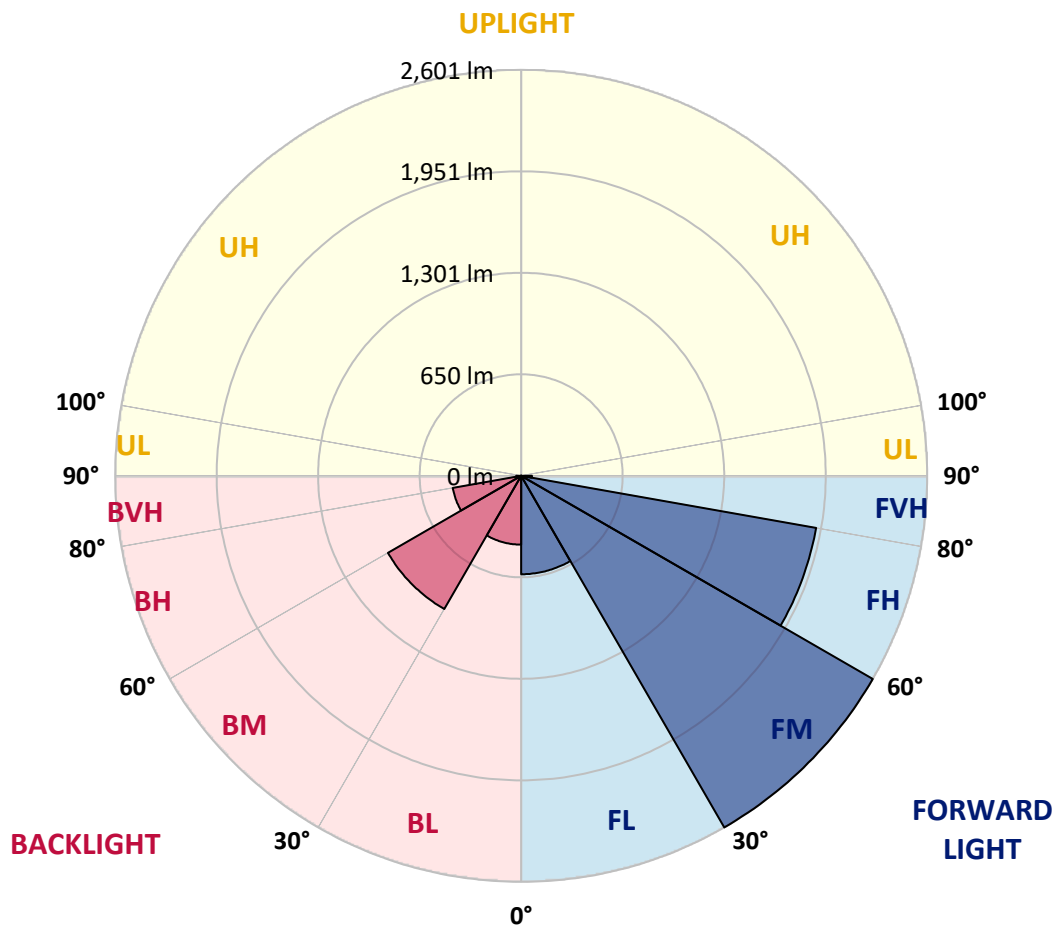
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	630.5	8.9			
FM	(30°-60°)	2601.0	36.5			
FH	(60°-80°)	1918.8	26.9			G2/5000
FVH	(80°-90°)	69.1	1.0			G1/100
BL	(0°-30°)	441.0	6.2	B1/500		
BM	(30°-60°)	985.5	13.8	B1/1000		
BH	(60°-80°)	444.9	6.2	B1/500		G1/500
BVH	(80°-90°)	31.2	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1239.8	1238.8	1240.9	1233.3	1223.6	1222.5	1222.5	1216.0	1208.4	1193.2	1181.3
5°	1298.4	1296.2	1297.3	1286.4	1273.4	1266.9	1265.8	1251.8	1234.4	1210.6	1188.9
7.5°	1352.5	1350.4	1349.3	1337.4	1317.9	1307.0	1305.9	1285.4	1264.8	1227.9	1196.5
10°	1403.5	1401.3	1399.2	1382.9	1359.1	1342.8	1340.6	1314.6	1288.6	1243.1	1203.0
12.5°	1468.5	1464.2	1462.0	1442.5	1407.8	1390.5	1387.2	1352.5	1320.0	1264.8	1216.0
15°	1536.8	1533.5	1530.3	1511.9	1472.8	1450.1	1444.7	1401.3	1356.9	1292.9	1235.5
17.5°	1587.7	1584.5	1584.5	1568.2	1532.5	1506.4	1502.1	1450.1	1394.8	1319.0	1250.7
20°	1619.2	1615.9	1619.2	1609.4	1582.3	1560.6	1556.3	1498.9	1432.7	1342.8	1263.7
22.5°	1641.9	1638.7	1644.1	1639.7	1620.2	1607.2	1604.0	1547.6	1471.8	1367.7	1276.7
25°	1682.0	1682.0	1682.0	1674.4	1656.0	1651.7	1651.7	1602.9	1521.6	1400.2	1296.2
27.5°	1762.2	1757.9	1752.5	1730.8	1699.4	1698.3	1704.8	1659.3	1579.1	1442.5	1320.0
30°	1880.3	1878.2	1857.6	1812.1	1759.0	1753.5	1757.9	1719.9	1640.8	1486.9	1347.1
32.5°	2033.2	2025.6	1983.3	1915.0	1839.2	1814.2	1822.9	1782.8	1705.9	1532.5	1373.1
35°	2141.5	2143.7	2113.4	2051.6	1961.6	1895.5	1902.0	1853.3	1776.3	1583.4	1405.7
37.5°	2266.2	2273.8	2228.2	2181.6	2098.2	1985.5	1992.0	1925.9	1846.7	1647.3	1440.3
40°	2438.5	2423.3	2346.4	2291.1	2199.0	2079.8	2085.2	2007.1	1928.0	1708.0	1480.4
42.5°	2582.6	2555.5	2462.3	2391.9	2281.3	2179.5	2184.9	2094.9	2010.4	1775.2	1524.9
45°	2789.6	2714.8	2580.5	2545.8	2365.9	2277.0	2282.4	2188.1	2097.1	1846.7	1572.6
47.5°	2909.9	2790.7	2705.1	2686.7	2459.1	2377.8	2384.3	2286.8	2190.3	1928.0	1622.4
50°	2902.3	2825.4	2800.5	2754.9	2541.4	2472.1	2478.6	2388.6	2284.6	2008.2	1670.1
52.5°	2852.5	2866.6	2853.6	2777.7	2623.8	2563.1	2570.7	2489.4	2381.0	2083.0	1714.5
55°	2929.4	2939.2	2914.3	2814.6	2714.8	2654.2	2662.8	2595.6	2476.4	2149.1	1752.5
57.5°	3021.6	2986.9	2961.9	2879.6	2809.1	2752.8	2762.5	2704.0	2558.8	2202.2	1781.7
60°	3017.2	2944.6	2969.5	2883.9	2873.1	2843.8	2852.5	2792.9	2621.6	2241.2	1793.6
62.5°	2795.0	2756.0	2881.8	2852.5	2925.1	2925.1	2935.9	2847.1	2659.6	2257.5	1787.1
65°	2409.2	2411.4	2632.5	2753.9	2986.9	3036.7	3045.4	2880.7	2637.9	2209.8	1726.4
67.5°	1919.4	1933.4	2251.0	2503.5	2925.1	3112.6	3113.7	2911.0	2544.7	2075.4	1585.6
70°	1404.6	1415.4	1790.4	2097.1	2633.6	2944.6	2927.3	2825.4	2342.0	1841.3	1365.6
72.5°	949.4	959.1	1345.0	1610.5	2161.0	2507.8	2469.9	2497.0	1996.3	1512.9	1097.9
75°	638.3	650.3	957.0	1152.1	1589.9	1904.2	1819.7	1891.2	1544.4	1145.5	800.9
77.5°	402.1	409.7	608.0	755.4	1085.9	1296.2	1211.7	1212.7	889.8	616.7	430.3
80°	255.8	257.9	368.5	435.7	628.6	779.2	689.3	560.3	401.0	327.3	256.9
82.5°	148.5	145.2	220.0	246.0	299.1	295.9	244.9	231.9	175.6	163.6	131.1
85°	59.6	55.3	96.5	90.0	91.0	96.5	71.5	71.5	57.4	44.4	32.5
87.5°	11.9	11.9	13.0	11.9	11.9	13.0	9.8	9.8	8.7	8.7	8.7
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°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1179.1	1177.0	1171.6	1157.5	1149.9	1145.5	1139.0	1136.9	1135.8	1136.9	1140.1
5°	1182.4	1174.8	1159.6	1136.9	1121.7	1112.0	1101.1	1096.8	1093.5	1093.5	1096.8
7.5°	1184.6	1172.6	1146.6	1113.0	1091.4	1076.2	1063.2	1057.8	1056.7	1059.9	1061.0
10°	1185.6	1168.3	1131.5	1089.2	1061.0	1041.5	1028.5	1025.2	1028.5	1035.0	1036.1
12.5°	1193.2	1169.4	1122.8	1072.9	1039.3	1019.8	1010.1	1010.1	1018.7	1030.7	1031.8
15°	1206.2	1177.0	1118.5	1059.9	1025.2	1007.9	1004.7	1010.1	1023.1	1041.5	1043.7
17.5°	1216.0	1181.3	1108.7	1042.6	1006.8	996.0	1001.4	1014.4	1032.8	1057.8	1059.9
20°	1222.5	1181.3	1094.6	1022.0	988.4	986.2	1001.4	1022.0	1041.5	1070.8	1074.0
22.5°	1229.0	1179.1	1078.4	997.1	967.8	974.3	1002.5	1028.5	1048.0	1079.4	1084.9
25°	1240.9	1182.4	1062.1	972.1	946.1	964.6	1001.4	1032.8	1053.4	1085.9	1094.6
27.5°	1257.2	1190.0	1050.2	949.4	924.5	949.4	993.8	1031.8	1053.4	1084.9	1094.6
30°	1274.5	1198.7	1036.1	924.5	899.5	927.7	977.6	1019.8	1044.8	1074.0	1085.9
32.5°	1292.9	1208.4	1024.2	897.4	869.2	898.4	953.7	1001.4	1028.5	1055.6	1068.6
35°	1317.9	1225.7	1017.7	875.7	842.1	868.1	923.4	977.6	1006.8	1031.8	1046.9
37.5°	1348.2	1247.4	1014.4	854.0	812.8	834.5	890.9	948.3	979.7	1000.3	1014.4
40°	1382.9	1274.5	1013.3	833.4	783.6	799.8	857.3	914.7	945.0	961.3	973.2
42.5°	1421.9	1304.9	1011.2	812.8	754.3	767.3	824.8	881.1	907.1	921.2	932.0
45°	1463.1	1335.2	1006.8	787.9	722.9	738.0	791.2	841.0	868.1	880.0	891.9
47.5°	1504.3	1365.6	998.2	759.7	694.7	708.8	755.4	798.7	820.4	831.3	843.2
50°	1544.4	1392.6	977.6	727.2	665.4	678.4	714.2	743.5	759.7	768.4	780.3
52.5°	1580.1	1411.1	948.3	689.3	636.2	642.7	666.5	691.4	704.5	705.5	716.4
55°	1610.5	1420.8	906.0	650.3	604.7	605.8	618.8	638.3	643.8	639.4	647.0
57.5°	1627.8	1415.4	859.4	610.2	572.2	567.9	577.7	587.4	588.5	577.7	585.2
60°	1632.2	1390.5	798.7	570.1	539.7	527.8	531.0	528.9	526.7	522.4	528.9
62.5°	1610.5	1337.4	731.5	531.0	505.0	486.6	485.5	484.4	487.7	488.8	489.9
65°	1531.4	1237.7	651.3	490.9	468.2	443.3	442.2	455.2	459.5	453.0	455.2
67.5°	1378.6	1084.9	563.6	444.3	421.6	399.9	408.6	416.2	423.8	421.6	423.8
70°	1161.8	890.9	483.4	392.3	370.7	358.7	368.5	375.0	376.1	373.9	376.1
72.5°	913.6	695.8	408.6	339.2	319.7	314.3	326.2	331.6	341.4	345.7	346.8
75°	660.0	513.7	334.9	281.8	265.5	265.5	276.4	286.1	294.8	289.4	286.1
77.5°	368.5	306.7	240.6	194.0	197.2	212.4	216.8	227.6	236.3	235.2	233.0
80°	223.3	191.8	162.6	125.7	124.6	136.6	164.7	183.2	187.5	177.7	176.7
82.5°	116.0	100.8	86.7	70.4	78.0	91.0	95.4	114.9	126.8	122.5	127.9
85°	29.3	28.2	31.4	32.5	40.1	44.4	48.8	57.4	37.9	18.4	18.4
87.5°	8.7	8.7	10.8	10.8	14.1	17.3	16.3	16.3	8.7	1.1	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)