

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: P1210185

Luminaire Tested: **ARCH2-40-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210185
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: ARCH2-40-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6892 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.1
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

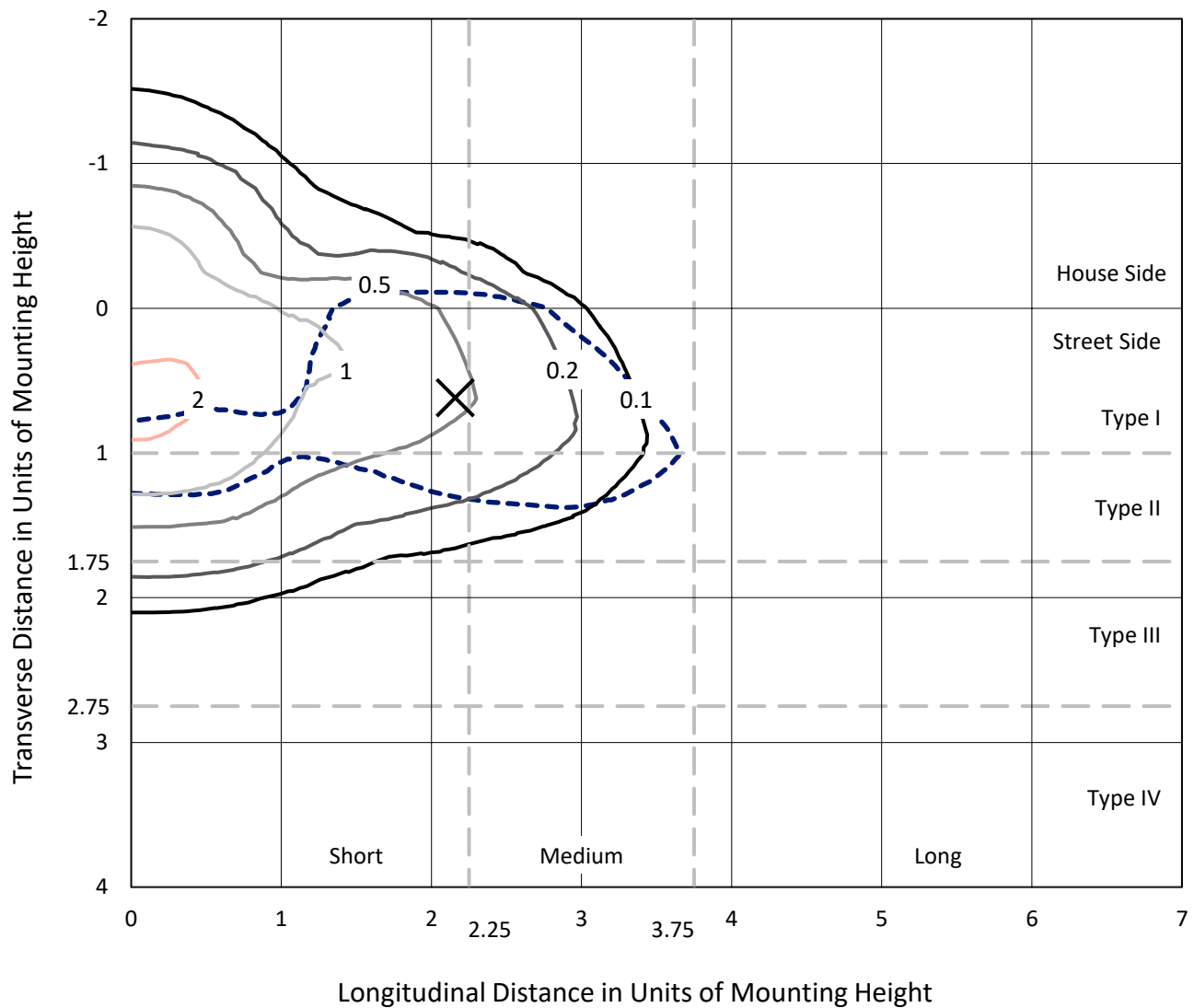


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Iso-Footcandle Lines of Horizontal Illumination

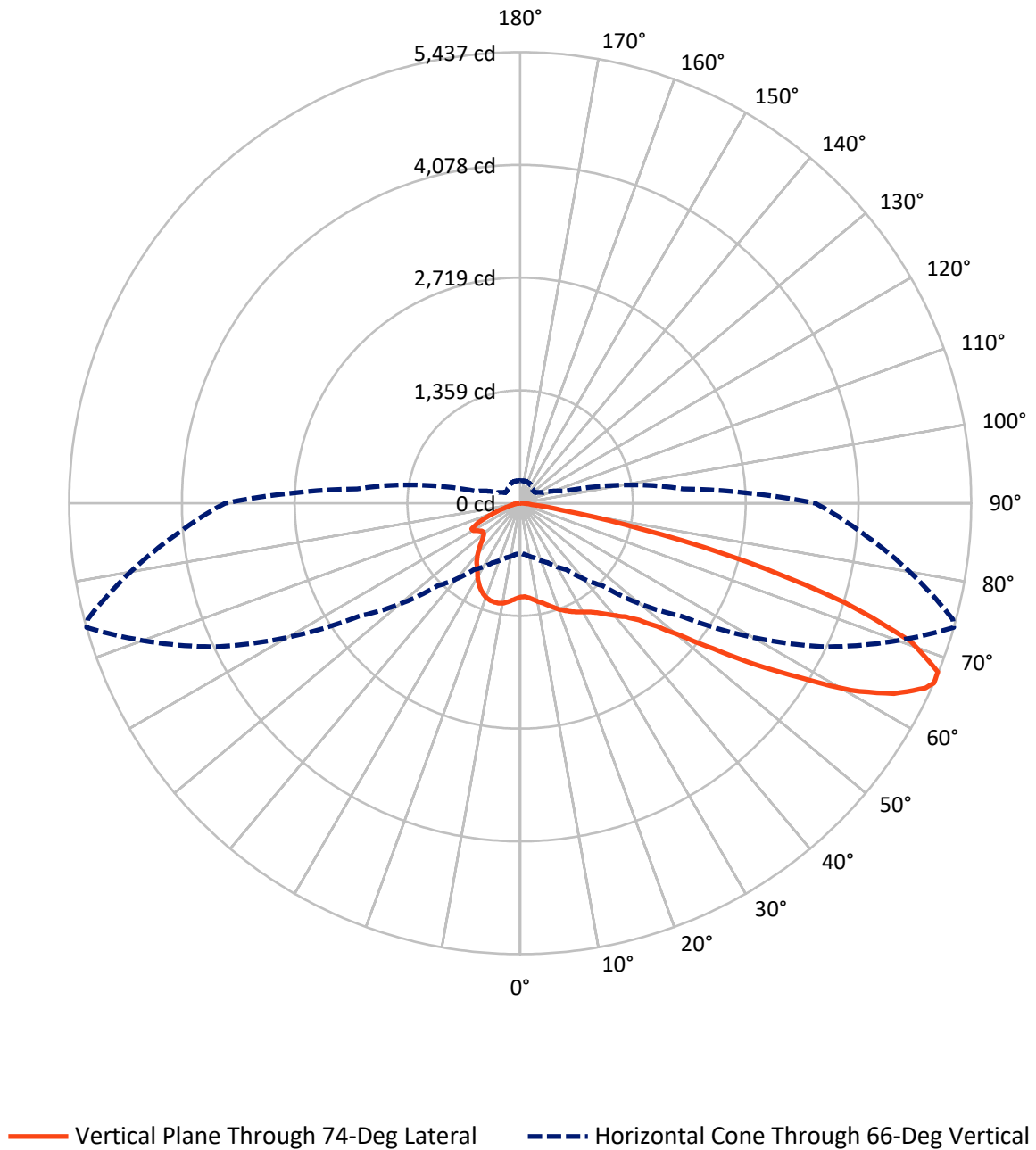
✕ Max cd
- - - 1/2 Max cd



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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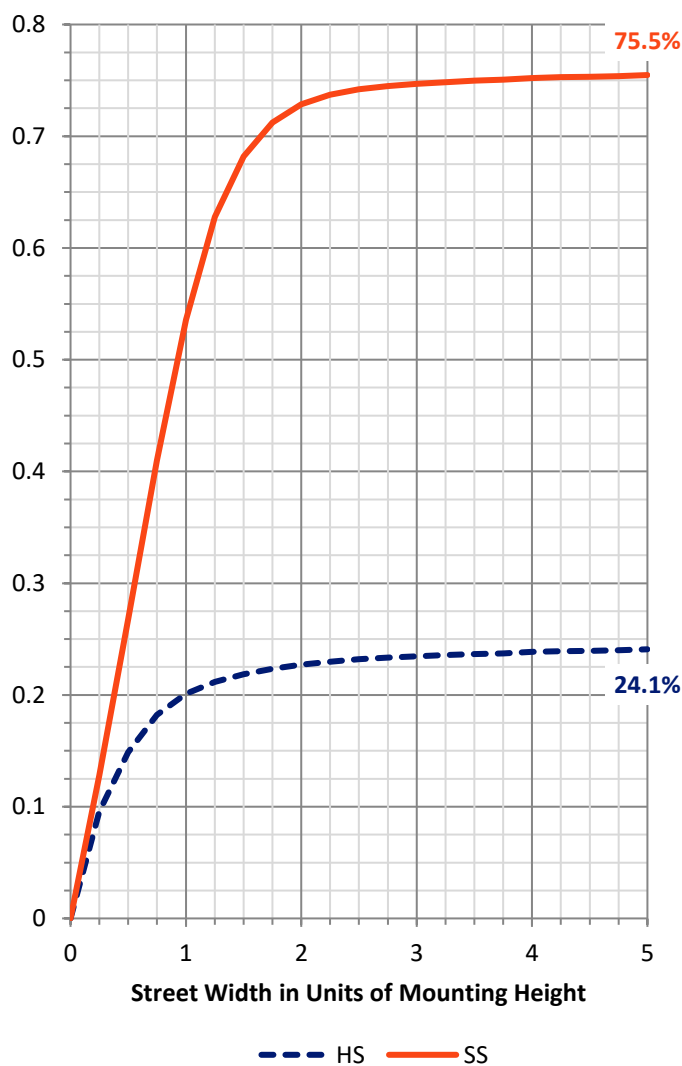
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1678.4	0.0	1678.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5213.6	0.0	5213.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	6892.0	0.0	6892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	1.6
10°-20°	331.4	4.8
20°-30°	621.9	9.0
30°-40°	956.7	13.9
40°-50°	1286.8	18.7
50°-60°	1521.8	22.1
60°-70°	1407.8	20.4
70°-80°	592.2	8.6
80°-90°	65.5	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°	6892.0	100.0
0°-180°	6892.0	100.0

Coefficient of Utilization



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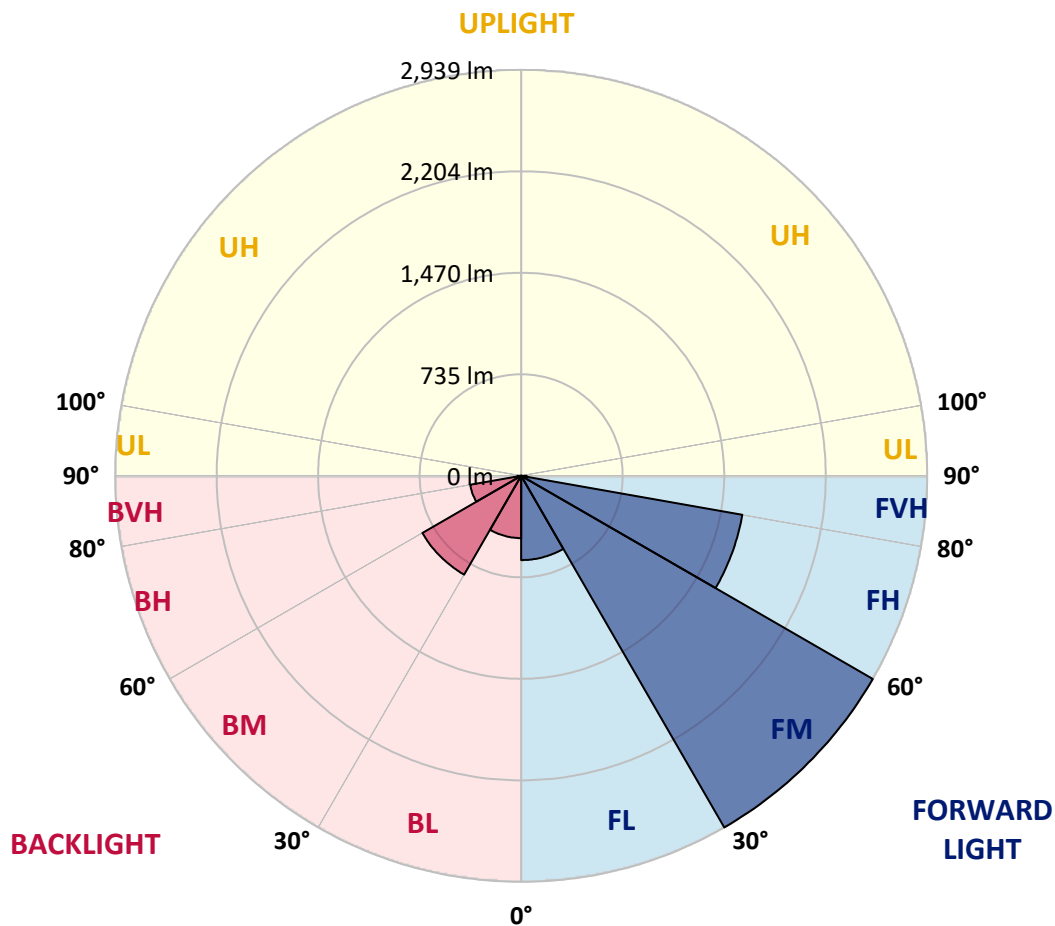
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	610.0	8.9			
FM	(30°-60°)	2939.1	42.6			
FH	(60°-80°)	1625.3	23.6			G1/1800
FVH	(80°-90°)	39.2	0.6			G1/100
BL	(0°-30°)	451.1	6.5	B1/500		
BM	(30°-60°)	826.3	12.0	B1/1000		
BH	(60°-80°)	374.7	5.4	B1/500		G1/500
BVH	(80°-90°)	26.3	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°	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8
2.5°	1126.3	1124.5	1128.1	1133.4	1136.0	1131.6	1129.8	1128.9	1128.9	1126.3	1130.7
5°	1073.1	1072.2	1080.2	1089.9	1108.5	1121.8	1139.6	1150.2	1146.7	1141.4	1144.9
7.5°	1003.9	1002.1	1011.9	1030.5	1056.2	1085.5	1128.9	1162.6	1175.9	1174.2	1173.3
10°	1030.5	1028.7	1027.8	1022.5	1031.4	1059.8	1105.0	1164.4	1209.6	1210.5	1211.4
12.5°	1122.7	1127.2	1122.7	1105.9	1086.4	1075.7	1102.3	1168.8	1238.0	1243.3	1265.5
15°	1248.7	1244.2	1235.4	1215.9	1185.7	1153.8	1134.3	1189.2	1278.8	1283.3	1332.0
17.5°	1359.5	1363.1	1357.7	1339.1	1303.6	1262.0	1202.5	1224.7	1322.3	1334.7	1403.0
20°	1480.1	1494.3	1487.2	1464.2	1434.9	1372.8	1298.3	1276.2	1370.2	1379.0	1476.6
22.5°	1619.4	1634.4	1621.1	1599.0	1575.0	1498.8	1403.0	1339.1	1410.1	1428.7	1547.5
25°	1786.1	1800.3	1787.9	1753.3	1723.1	1630.0	1515.6	1410.1	1449.1	1469.5	1605.2
27.5°	1918.2	1928.9	1940.4	1920.0	1873.9	1777.2	1632.7	1483.7	1488.1	1509.4	1658.4
30°	2036.2	2062.8	2072.5	2075.2	2036.2	1928.0	1752.4	1559.9	1521.8	1544.0	1711.6
32.5°	2197.6	2237.5	2221.5	2237.5	2214.4	2069.9	1876.5	1638.9	1565.3	1585.7	1762.1
35°	2433.5	2465.4	2423.7	2411.3	2374.1	2213.5	1996.3	1720.5	1622.9	1645.1	1810.0
37.5°	2687.1	2723.5	2663.2	2613.5	2542.6	2355.4	2099.1	1827.8	1702.7	1720.5	1854.4
40°	2908.8	2939.0	2886.6	2821.0	2702.2	2480.5	2187.8	1903.1	1782.5	1804.7	1905.8
42.5°	3113.7	3133.2	3074.7	3011.7	2852.9	2593.1	2283.6	1983.0	1875.7	1896.9	1947.5
45°	3321.2	3336.3	3254.7	3165.1	2978.9	2696.0	2389.1	2094.7	2012.2	2040.6	2014.9
47.5°	3358.4	3362.9	3348.7	3288.4	3078.2	2794.4	2519.5	2244.6	2220.6	2251.7	2131.1
50°	3100.4	3140.3	3228.1	3287.5	3118.1	2876.9	2649.9	2459.2	2508.0	2547.9	2372.3
52.5°	2599.3	2637.4	2840.5	3065.8	3022.3	2895.5	2790.0	2731.5	2913.3	2961.1	2700.4
55°	2070.8	2104.5	2319.1	2643.7	2712.8	2810.4	2939.9	3079.1	3430.3	3462.2	3060.5
57.5°	1705.4	1724.0	1877.4	2189.6	2300.5	2538.1	3020.6	3492.4	3956.2	4004.9	3373.5
60°	1398.5	1418.9	1533.3	1790.5	1937.7	2148.8	2956.7	3900.3	4584.1	4584.1	3775.3
62.5°	1052.7	1070.4	1176.8	1378.1	1625.6	1818.9	2752.7	4170.8	5057.6	5036.3	4066.1
65°	722.8	737.0	814.1	948.0	1170.6	1550.2	2474.3	4174.3	5371.6	5343.2	4190.3
66°	606.6	619.0	684.6	792.8	980.0	1406.5	2375.8	4099.0	5437.2	5397.3	4138.0
67.5°	478.9	487.8	531.2	595.1	718.3	1138.7	2220.6	3885.2	5431.0	5407.0	4004.9
70°	342.3	348.5	380.5	393.8	424.8	658.9	1763.9	3402.8	4995.5	5002.6	3481.7
72.5°	265.2	274.9	294.4	297.1	290.0	350.3	1070.4	2838.8	4086.5	4083.9	2584.2
75°	213.7	219.0	228.8	234.1	232.4	226.1	453.2	2117.8	2813.0	2845.9	1447.3
77.5°	168.5	167.6	176.5	183.6	188.9	177.4	207.5	1241.6	1474.8	1433.1	543.6
80°	124.2	124.2	136.6	139.2	147.2	149.0	138.3	478.9	506.4	460.3	141.0
82.5°	81.6	81.6	94.9	96.7	104.6	116.2	100.2	143.7	140.1	133.0	63.9
85°	44.3	42.6	47.0	53.2	57.6	68.3	60.3	71.8	73.6	72.7	42.6
87.5°	8.9	8.0	12.4	14.2	16.0	21.3	19.5	29.3	40.8	39.9	18.6
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°	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8
2.5°	1136.9	1136.0	1145.8	1157.3	1170.6	1178.6	1182.2	1188.4	1183.9	1185.7	1191.0
5°	1153.8	1156.4	1170.6	1185.7	1191.9	1187.5	1177.7	1174.2	1166.2	1164.4	1162.6
7.5°	1178.6	1183.0	1197.2	1200.8	1182.2	1151.1	1128.9	1116.5	1103.2	1099.7	1097.9
10°	1219.4	1222.1	1225.6	1189.2	1143.1	1101.4	1074.0	1062.4	1053.6	1046.5	1048.2
12.5°	1270.8	1269.1	1241.6	1166.2	1100.6	1058.0	1039.4	1032.3	1026.1	1021.6	1020.7
15°	1335.6	1323.2	1244.2	1134.3	1060.7	1025.2	1011.9	1009.2	1002.1	1002.1	1001.2
17.5°	1401.2	1369.3	1242.5	1100.6	1022.5	1003.0	995.0	993.3	991.5	990.6	993.3
20°	1466.8	1410.1	1228.3	1058.9	995.9	984.4	982.6	983.5	981.7	984.4	982.6
22.5°	1524.5	1436.7	1201.7	1014.5	977.3	976.4	972.0	973.7	980.0	980.8	983.5
25°	1568.8	1446.4	1162.6	973.7	964.0	962.2	967.5	974.6	980.0	980.8	985.3
27.5°	1605.2	1441.1	1113.9	941.8	940.9	950.7	966.7	969.3	970.2	970.2	966.7
30°	1632.7	1429.6	1051.8	906.3	910.8	934.7	949.8	949.8	942.7	940.9	946.3
32.5°	1638.9	1414.5	984.4	870.0	877.1	905.5	924.1	917.9	909.9	909.9	913.4
35°	1644.2	1394.1	930.3	820.3	831.0	864.7	882.4	870.0	861.1	858.5	857.6
37.5°	1642.4	1386.1	881.5	757.4	771.5	804.4	815.9	804.4	791.1	784.8	792.8
40°	1644.2	1380.8	820.3	688.2	702.4	721.9	737.0	728.1	715.7	699.7	707.7
42.5°	1654.8	1387.9	752.9	620.8	620.8	631.4	657.1	650.9	620.8	614.6	621.7
45°	1711.6	1426.0	685.5	553.4	543.6	550.7	577.3	550.7	532.1	532.1	538.3
47.5°	1849.1	1497.0	626.1	494.0	470.9	485.1	492.2	467.4	453.2	449.6	455.8
50°	2129.3	1638.9	590.6	445.2	416.8	427.5	423.0	422.1	407.9	409.7	413.3
52.5°	2555.0	1915.6	580.0	421.2	385.8	388.4	384.0	385.8	383.1	392.0	394.6
55°	3018.8	2207.3	593.3	424.8	364.5	345.9	347.6	356.5	367.1	381.3	384.0
57.5°	3365.5	2353.7	627.9	448.7	337.9	309.5	313.9	330.8	351.2	362.7	368.9
60°	3623.6	2335.9	678.4	454.9	306.0	276.7	284.7	309.5	327.2	337.0	343.2
62.5°	3707.9	2225.1	690.8	409.7	264.3	245.7	265.2	290.9	298.9	309.5	313.9
65°	3638.7	2068.1	600.4	332.6	232.4	222.6	251.0	270.5	281.1	286.4	287.3
66°	3557.1	1974.1	551.6	302.4	220.8	215.5	245.7	261.6	272.3	271.4	272.3
67.5°	3378.0	1777.2	472.7	259.8	204.0	204.9	236.8	247.4	251.0	248.3	248.3
70°	2768.7	1251.3	338.8	196.9	179.1	191.6	212.8	215.5	223.5	219.9	219.9
72.5°	1707.2	614.6	227.0	150.8	159.6	179.1	178.3	187.1	205.7	211.1	214.6
75°	838.9	249.2	149.9	127.7	142.8	149.9	148.1	170.3	196.9	219.9	227.9
77.5°	318.4	124.2	104.6	111.7	115.3	112.6	117.9	154.3	196.9	238.6	246.5
80°	98.4	86.0	82.5	92.2	86.9	82.5	88.7	127.7	166.7	180.9	180.9
82.5°	59.4	67.4	63.9	63.0	58.5	59.4	63.9	91.3	128.6	134.8	134.8
85°	41.7	44.3	36.4	34.6	33.7	32.8	32.8	53.2	76.3	75.4	78.0
87.5°	16.0	17.7	13.3	13.3	12.4	8.9	7.1	8.9	8.9	6.2	4.4
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)