

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: P799128

Luminaire Tested: **ARCH1-60-730-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-60-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

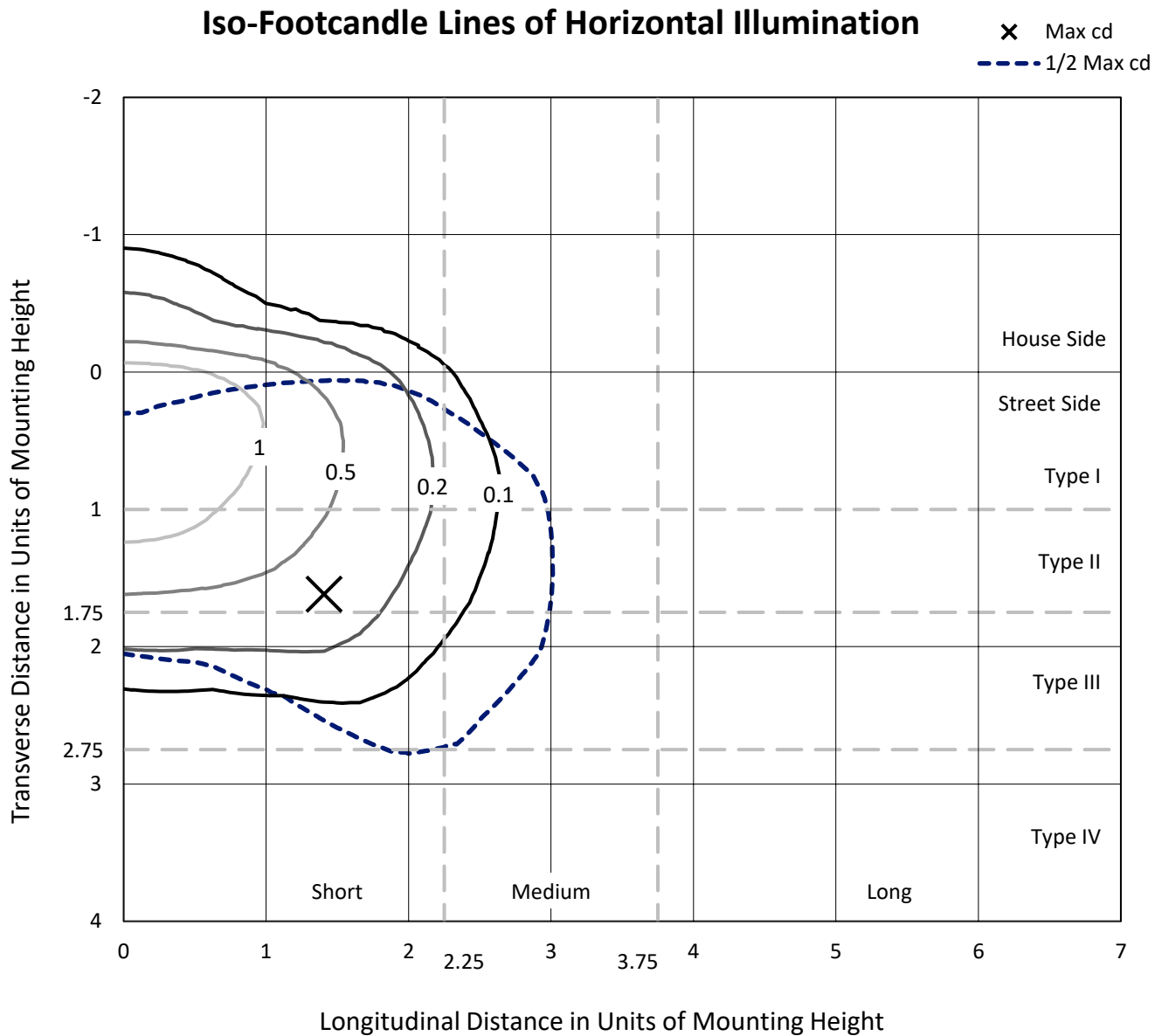
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4895 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - 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

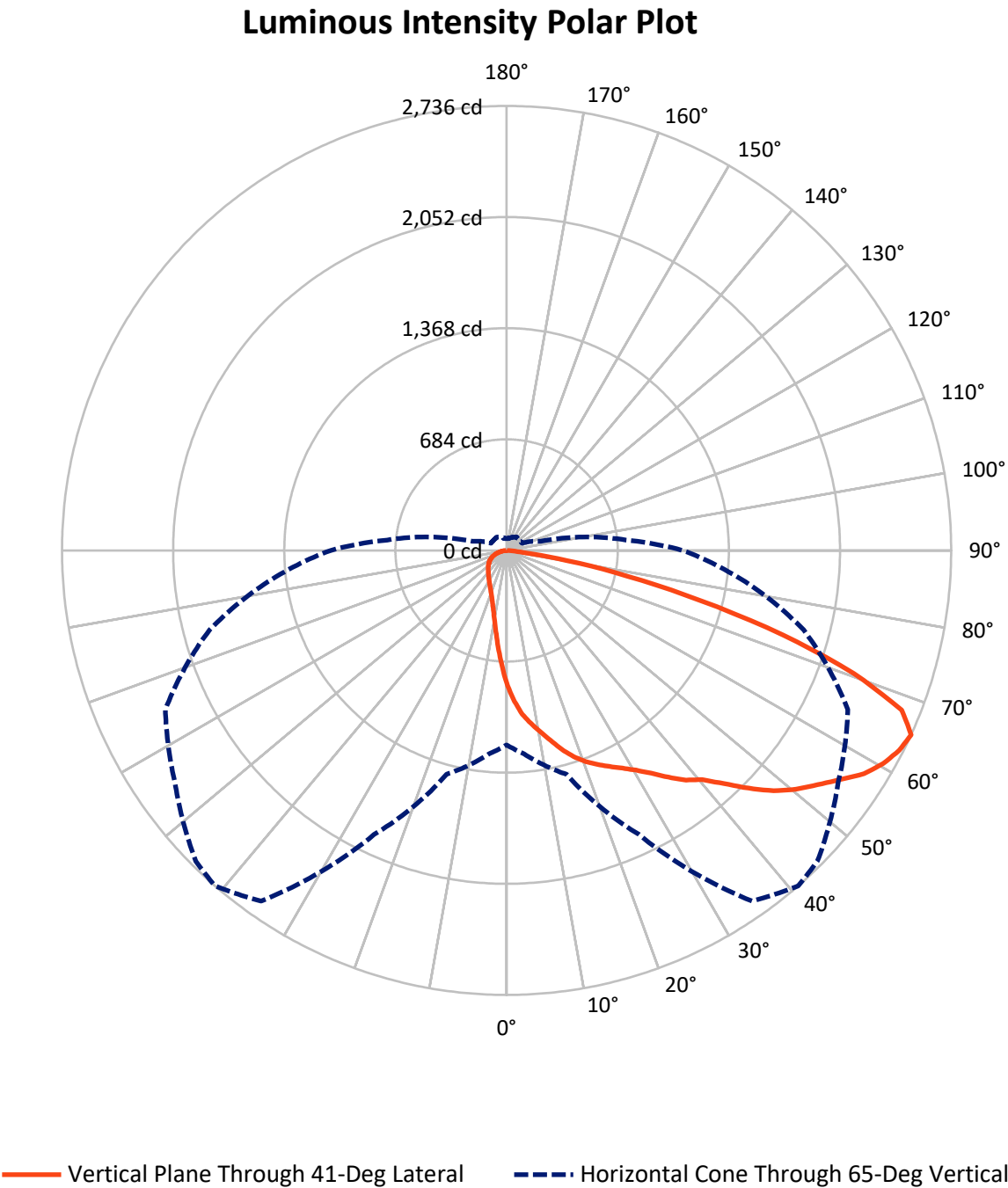


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Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Short - N/A

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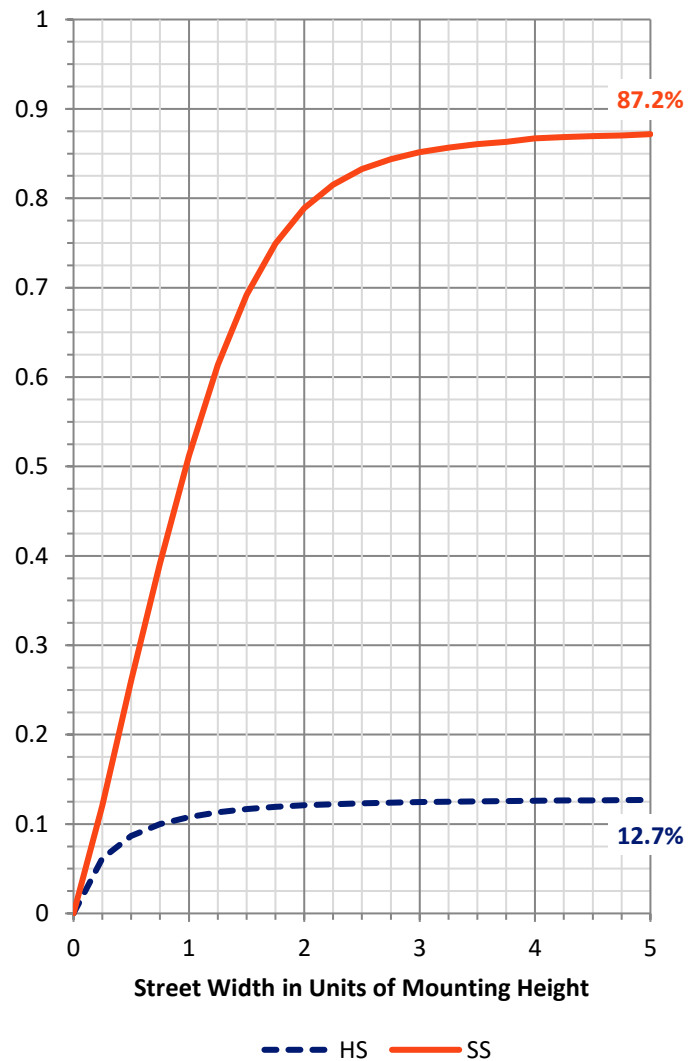
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	628.5	0.0	628.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4266.6	0.0	4266.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	4895.0	0.0	4895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	1.6
10°-20°	233.0	4.8
20°-30°	400.9	8.2
30°-40°	608.0	12.4
40°-50°	890.8	18.2
50°-60°	1124.9	23.0
60°-70°	1054.8	21.5
70°-80°	470.1	9.6
80°-90°	34.8	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°	4895.0	100.0
0°-180°	4895.0	100.0

Coefficient of Utilization



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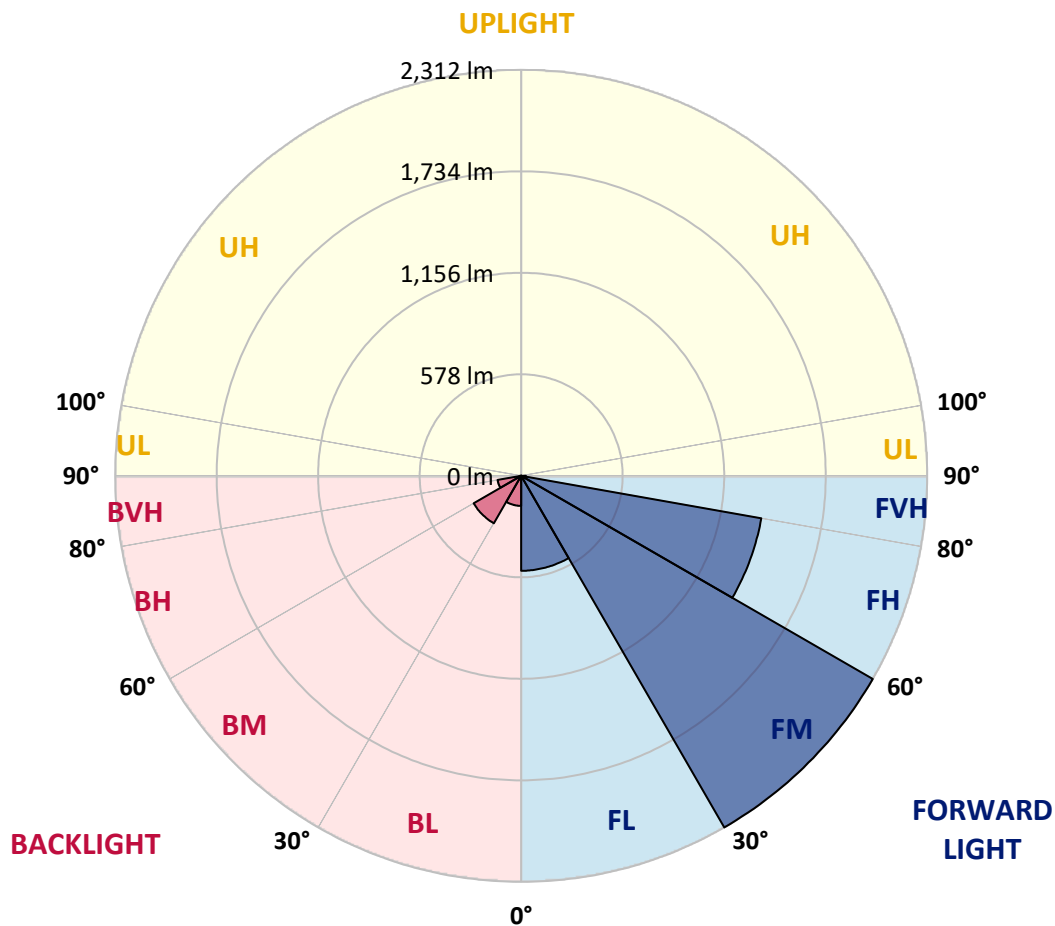
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.6	11.0			
FM	(30°-60°)	2311.6	47.2			
FH	(60°-80°)	1388.3	28.4			G1/1800
FVH	(80°-90°)	26.0	0.5			G1/100
BL	(0°-30°)	171.1	3.5	B1/500		
BM	(30°-60°)	312.1	6.4	B1/1000		
BH	(60°-80°)	136.5	2.8	B1/500		G1/500
BVH	(80°-90°)	8.8	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1
2.5°	962.1	959.0	956.9	945.6	945.6	930.1	931.1	916.7	899.1	871.2	841.3
5°	1052.9	1048.8	1043.6	1032.3	1028.2	1012.7	1010.6	990.0	960.0	911.5	857.8
7.5°	1132.4	1128.3	1121.1	1104.5	1093.2	1074.6	1069.4	1042.6	1009.6	949.7	874.3
10°	1204.7	1201.6	1192.3	1171.6	1156.2	1133.4	1124.2	1088.0	1046.7	980.7	887.8
12.5°	1278.0	1273.8	1261.4	1243.9	1225.3	1198.5	1187.1	1140.7	1088.0	1014.7	907.4
15°	1346.1	1339.9	1330.6	1312.0	1295.5	1269.7	1257.3	1202.6	1138.6	1052.9	933.2
17.5°	1390.5	1385.3	1377.1	1366.7	1353.3	1333.7	1321.3	1267.6	1189.2	1090.1	960.0
20°	1417.3	1415.3	1412.2	1406.0	1399.8	1386.4	1377.1	1326.5	1243.9	1126.2	985.8
22.5°	1438.0	1435.9	1434.9	1434.9	1435.9	1430.7	1424.5	1381.2	1296.5	1164.4	1009.6
25°	1470.0	1468.9	1466.9	1464.8	1472.0	1473.1	1471.0	1441.1	1362.6	1215.0	1039.5
27.5°	1514.4	1511.3	1507.1	1505.1	1512.3	1517.5	1521.6	1500.9	1432.8	1266.6	1073.6
30°	1582.5	1573.2	1562.9	1555.6	1560.8	1569.1	1578.4	1566.0	1505.1	1330.6	1108.7
32.5°	1663.0	1651.6	1627.9	1614.5	1627.9	1634.1	1641.3	1635.1	1580.4	1399.8	1143.8
35°	1761.1	1747.7	1722.9	1703.3	1727.0	1713.6	1710.5	1704.3	1651.6	1467.9	1183.0
37.5°	1924.2	1904.6	1865.3	1822.0	1822.0	1793.1	1781.7	1763.1	1715.6	1528.8	1221.2
40°	2113.1	2087.3	2036.7	1972.7	1913.8	1854.0	1846.7	1833.3	1791.0	1599.0	1264.5
42.5°	2320.6	2271.0	2200.8	2123.4	2028.4	1960.3	1943.8	1905.6	1864.3	1670.2	1307.9
45°	2550.8	2447.5	2345.3	2306.1	2149.2	2087.3	2056.3	1987.1	1940.7	1744.6	1353.3
47.5°	2587.9	2507.4	2439.3	2433.1	2261.7	2210.1	2175.0	2075.9	2023.3	1824.0	1400.8
50°	2567.3	2518.8	2526.0	2501.2	2344.3	2310.2	2283.4	2170.9	2104.8	1900.4	1444.2
52.5°	2480.6	2507.4	2548.7	2503.3	2422.8	2394.9	2381.5	2273.1	2181.2	1970.6	1483.4
55°	2377.3	2395.9	2484.7	2540.4	2513.6	2488.8	2476.4	2391.8	2256.6	2029.5	1519.5
57.5°	2226.6	2218.4	2316.4	2534.2	2608.6	2594.1	2580.7	2508.4	2326.8	2071.8	1542.2
60°	2000.6	1983.0	2106.9	2410.4	2639.5	2662.3	2656.1	2585.9	2380.4	2070.8	1532.9
62.5°	1609.3	1652.7	1824.0	2208.0	2653.0	2710.8	2699.4	2592.1	2398.0	2010.9	1474.1
65°	1196.4	1258.3	1426.6	1929.3	2634.4	2735.5	2704.6	2490.9	2316.4	1892.2	1345.1
67.5°	862.0	916.7	1039.5	1587.6	2455.8	2622.0	2585.9	2325.7	2128.6	1723.9	1166.5
70°	589.4	628.7	712.3	1156.2	2096.6	2266.9	2244.2	2079.0	1832.3	1523.6	947.6
72.5°	416.0	432.5	486.2	762.9	1592.8	1778.6	1751.8	1710.5	1472.0	1266.6	737.0
75°	311.7	322.1	351.0	493.4	1074.6	1232.5	1207.8	1231.5	1099.4	959.0	536.8
77.5°	117.7	128.0	199.2	314.8	635.9	756.7	731.9	746.3	611.1	484.1	267.4
80°	32.0	34.1	66.1	149.7	289.0	376.8	342.7	294.2	227.1	223.0	141.4
82.5°	13.4	15.5	29.9	80.5	103.2	103.2	86.7	107.4	86.7	104.3	68.1
85°	5.2	6.2	7.2	20.6	13.4	14.5	15.5	20.6	17.5	21.7	15.5
87.5°	0.0	0.0	0.0	1.0	1.0	2.1	1.0	2.1	3.1	3.1	3.1
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°	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1
2.5°	828.9	817.6	801.0	774.2	746.3	730.9	711.2	708.1	687.5	685.4	677.2
5°	834.1	810.3	768.0	716.4	665.8	626.6	597.7	582.2	552.3	552.3	544.0
7.5°	838.2	801.0	732.9	656.5	587.4	534.7	495.5	479.0	452.1	450.1	443.9
10°	839.2	789.7	694.7	595.6	511.0	457.3	419.1	400.5	376.8	374.7	370.6
12.5°	847.5	783.5	660.7	543.0	456.3	398.5	361.3	345.8	327.2	325.2	321.0
15°	860.9	783.5	631.8	498.6	407.8	354.1	322.1	307.6	294.2	292.1	290.1
17.5°	874.3	781.4	602.9	457.3	367.5	319.0	291.1	279.7	269.4	268.4	266.3
20°	886.7	780.4	573.9	422.2	336.5	290.1	268.4	258.1	249.8	249.8	248.8
22.5°	899.1	778.3	546.1	389.2	309.7	268.4	249.8	238.5	232.3	232.3	231.2
25°	917.7	778.3	520.3	361.3	288.0	251.9	233.3	225.0	219.9	218.8	218.8
27.5°	939.4	784.5	497.6	336.5	269.4	235.4	220.9	212.6	206.5	204.4	205.4
30°	963.1	789.7	476.9	314.8	251.9	223.0	207.5	199.2	193.0	191.0	192.0
32.5°	986.9	795.9	458.3	295.2	234.3	211.6	196.1	186.8	180.6	179.6	179.6
35°	1012.7	802.1	439.8	278.7	219.9	200.3	185.8	175.5	171.4	169.3	170.3
37.5°	1038.5	812.4	422.2	263.2	209.6	189.9	176.5	166.2	163.1	162.1	162.1
40°	1069.4	827.9	415.0	252.9	200.3	180.6	169.3	159.0	155.9	155.9	155.9
42.5°	1095.2	840.3	408.8	241.6	193.0	172.4	162.1	153.8	151.7	150.7	151.7
45°	1121.1	851.6	400.5	231.2	183.7	164.1	155.9	147.6	145.6	145.6	145.6
47.5°	1146.9	857.8	389.2	220.9	175.5	156.9	149.7	142.5	140.4	140.4	140.4
50°	1167.5	863.0	372.7	209.6	166.2	150.7	143.5	136.3	134.2	134.2	134.2
52.5°	1188.2	864.0	355.1	196.1	156.9	143.5	137.3	130.1	128.0	127.0	127.0
55°	1206.7	863.0	334.5	180.6	146.6	135.2	130.1	123.9	119.7	115.6	117.7
57.5°	1220.2	862.0	310.7	165.2	136.3	127.0	124.9	116.6	108.4	98.1	100.1
60°	1215.0	850.6	284.9	145.6	124.9	118.7	118.7	107.4	92.9	87.7	88.8
62.5°	1182.0	818.6	258.1	124.9	113.6	110.5	109.4	97.0	85.7	80.5	81.6
65°	1082.9	738.1	218.8	106.3	102.2	101.2	101.2	89.8	79.5	73.3	74.3
67.5°	932.1	619.4	178.6	89.8	90.8	92.9	92.9	82.6	72.3	66.1	67.1
70°	747.4	484.1	142.5	77.4	78.5	81.6	83.6	74.3	65.0	58.8	58.8
72.5°	562.6	367.5	114.6	65.0	70.2	70.2	73.3	66.1	56.8	50.6	51.6
75°	407.8	263.2	90.8	54.7	60.9	59.9	59.9	55.7	48.5	44.4	44.4
77.5°	193.0	138.3	72.3	39.2	47.5	46.5	47.5	44.4	41.3	37.2	38.2
80°	95.0	68.1	46.5	27.9	33.0	34.1	37.2	35.1	34.1	31.0	31.0
82.5°	45.4	26.8	21.7	19.6	22.7	23.7	25.8	25.8	26.8	24.8	24.8
85°	12.4	7.2	9.3	12.4	14.5	15.5	17.5	18.6	18.6	17.5	18.6
87.5°	3.1	3.1	4.1	6.2	7.2	8.3	9.3	9.3	4.1	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)