

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: P1210011

Luminaire Tested: **ARCH1-50-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-50-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

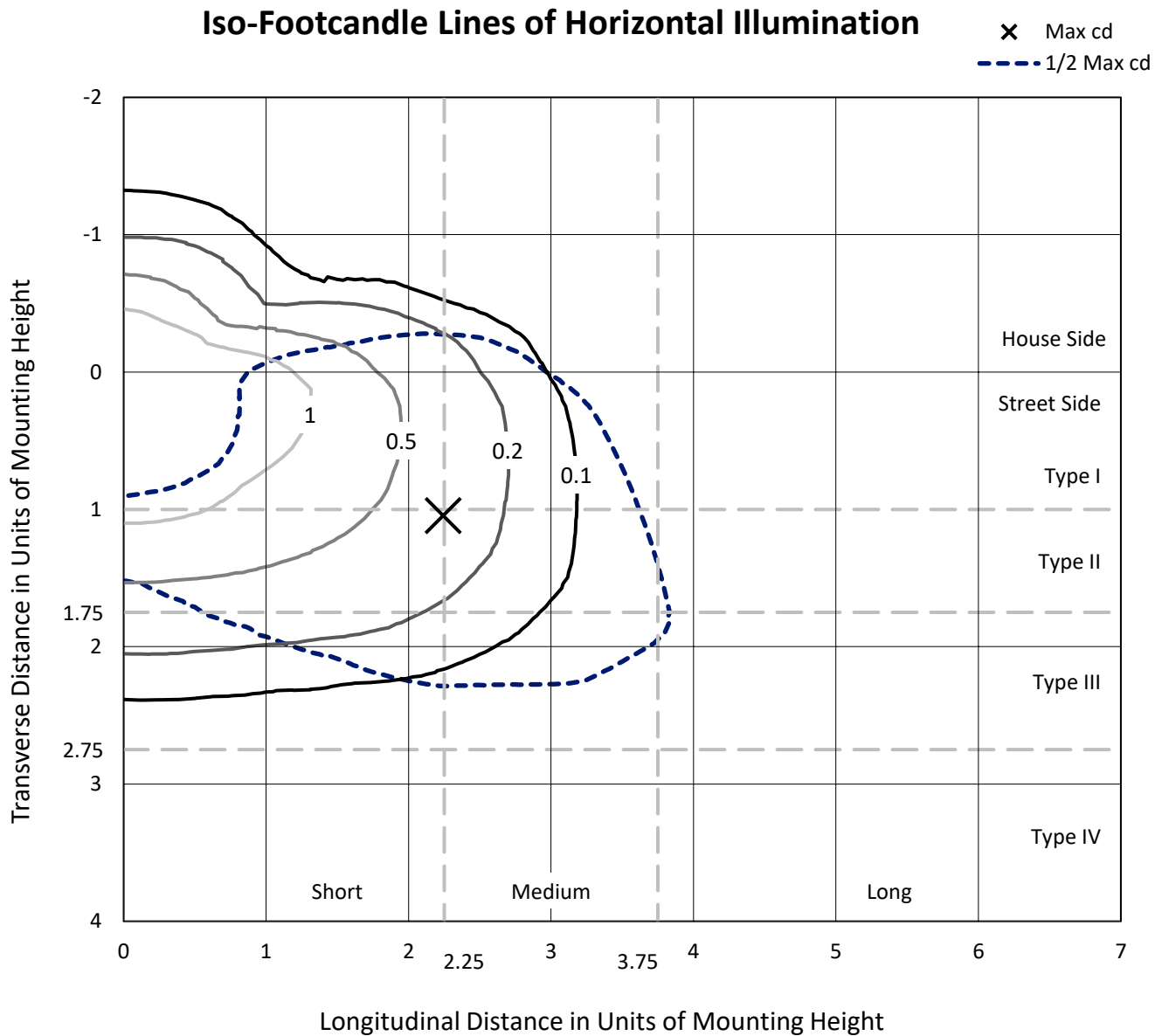
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6371 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - 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



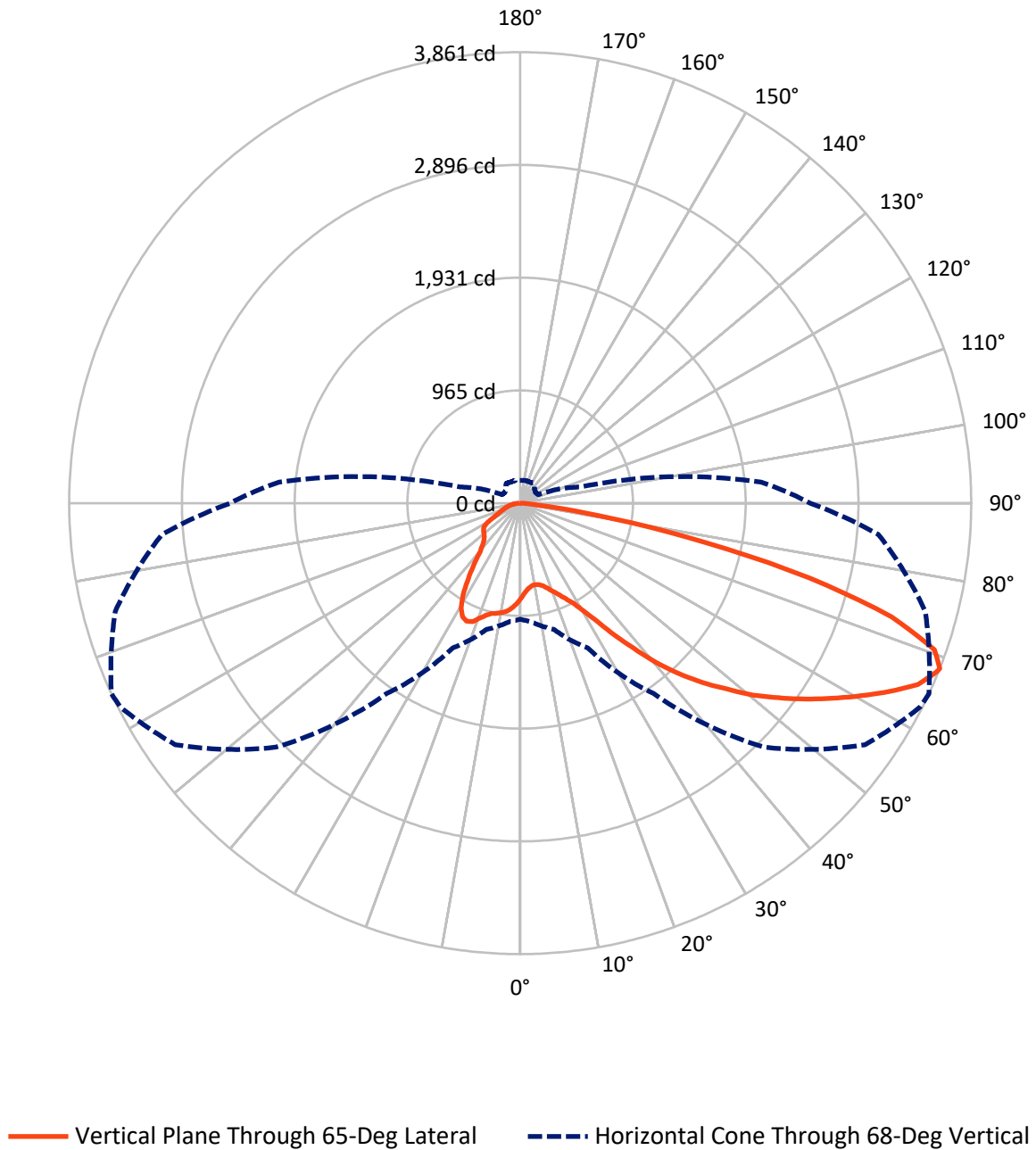
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Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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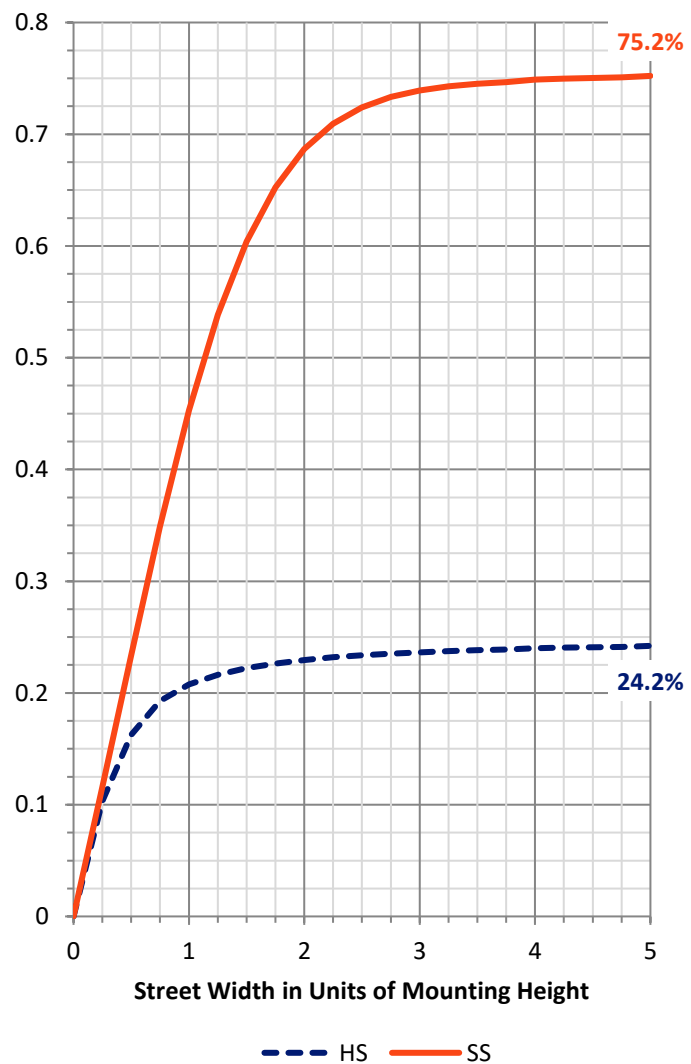
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1562.0	0.0	1562.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	4809.0	0.0	4809.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	6371.0	0.0	6371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	1.2
10°-20°	253.3	4.0
20°-30°	458.5	7.2
30°-40°	721.3	11.3
40°-50°	1074.3	16.9
50°-60°	1409.3	22.1
60°-70°	1541.1	24.2
70°-80°	762.6	12.0
80°-90°	72.7	1.1
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°	6371.0	100.0
0°-180°	6371.0	100.0

Coefficient of Utilization



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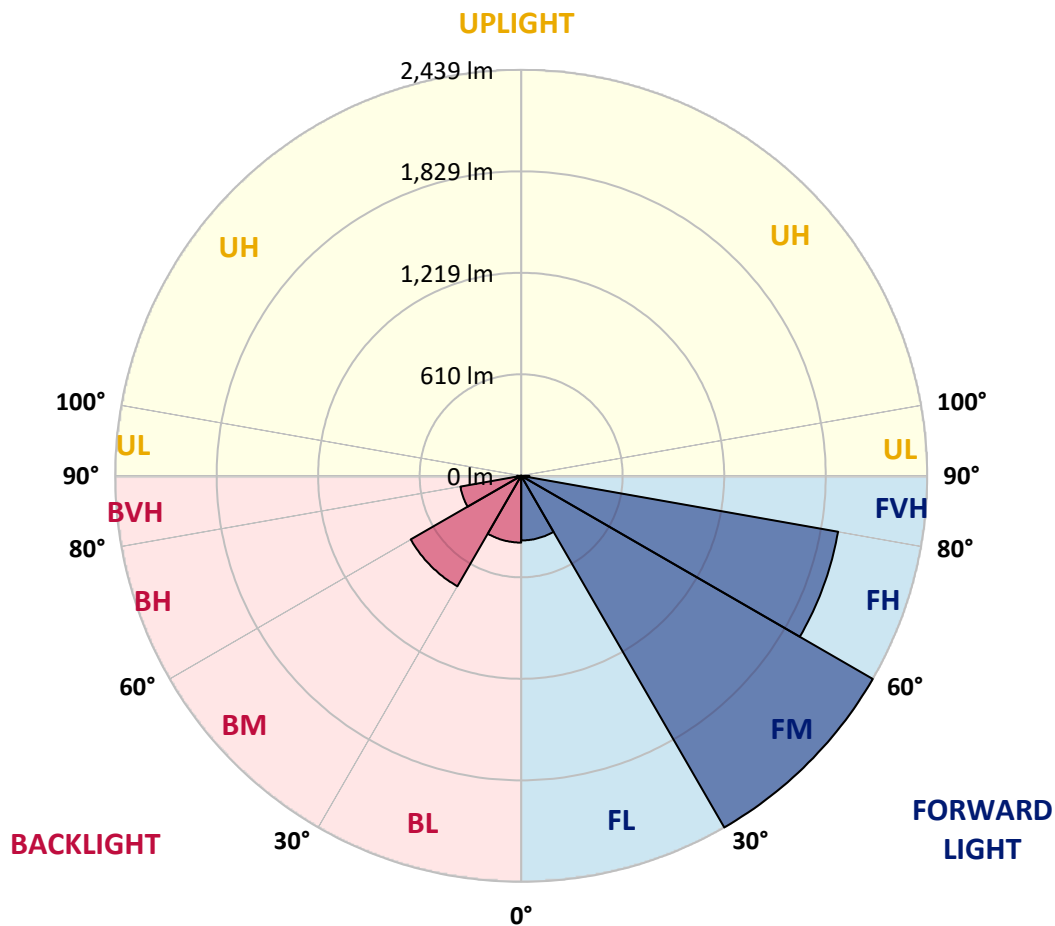
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	388.4	6.1			
FM	(30°-60°)	2438.7	38.3			
FH	(60°-80°)	1933.0	30.3			G2/5000
FVH	(80°-90°)	48.9	0.8			G1/100
BL	(0°-30°)	401.3	6.3	B1/500		
BM	(30°-60°)	766.1	12.0	B1/1000		
BH	(60°-80°)	370.7	5.8	B1/500		G1/500
BVH	(80°-90°)	23.8	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1
2.5°	710.6	709.0	713.1	717.2	726.2	736.9	751.7	764.0	765.7	788.7	806.7
5°	668.7	666.3	670.4	675.3	679.4	692.5	708.2	726.2	733.6	767.3	805.9
7.5°	672.8	672.0	673.7	672.0	672.0	677.8	688.4	706.5	714.7	755.0	810.0
10°	696.7	698.3	699.1	694.2	689.3	686.8	690.1	702.4	708.2	755.8	828.1
12.5°	736.1	738.6	739.4	730.3	723.8	713.1	707.3	712.3	716.4	764.0	853.6
15°	789.5	791.1	785.4	779.6	763.2	750.1	736.1	732.0	733.6	781.3	882.3
17.5°	851.9	849.5	849.5	835.5	814.1	793.6	770.6	767.3	767.3	809.2	923.4
20°	920.1	922.6	915.2	896.3	874.9	842.9	819.9	805.1	806.7	841.2	973.5
22.5°	1018.7	1022.8	1003.1	976.0	943.1	906.1	873.3	849.5	850.3	883.1	1025.3
25°	1124.7	1126.3	1114.0	1077.8	1033.5	980.9	937.4	907.0	906.1	930.0	1091.8
27.5°	1233.1	1240.5	1215.9	1181.4	1140.3	1074.6	1017.1	976.0	969.4	1001.4	1174.8
30°	1344.8	1353.9	1330.1	1296.4	1245.4	1189.6	1121.4	1073.7	1069.6	1112.4	1285.7
32.5°	1457.4	1459.9	1441.0	1413.0	1367.0	1314.4	1259.4	1206.8	1202.7	1272.6	1429.5
35°	1549.4	1556.8	1543.7	1537.1	1503.4	1454.9	1401.5	1371.1	1381.8	1471.4	1615.9
37.5°	1660.3	1667.7	1652.9	1651.3	1640.6	1598.7	1561.7	1564.2	1574.9	1696.5	1812.3
40°	1820.5	1828.7	1790.9	1774.5	1774.5	1733.4	1721.1	1779.4	1793.4	1918.3	2016.9
42.5°	1956.1	1969.2	1947.0	1936.3	1904.3	1875.6	1890.3	1972.5	1996.3	2130.2	2195.1
45°	2021.8	2031.6	2057.9	2089.2	2057.9	2007.8	2063.7	2156.5	2190.2	2325.8	2373.4
47.5°	2057.1	2066.1	2096.5	2180.3	2201.7	2159.8	2238.7	2354.5	2377.5	2519.6	2543.5
50°	2062.0	2090.8	2130.2	2214.0	2311.8	2317.5	2414.5	2555.8	2582.9	2710.2	2693.0
52.5°	2021.8	2033.3	2114.6	2255.9	2364.4	2462.9	2605.9	2748.8	2768.6	2889.3	2825.2
55°	1956.1	1972.5	2053.8	2246.1	2415.3	2601.0	2800.6	2938.6	2960.8	3063.5	2947.7
57.5°	1896.9	1905.1	1992.2	2217.3	2466.2	2739.0	2973.9	3136.6	3151.4	3216.3	3038.0
60°	1831.2	1840.2	1927.3	2155.7	2504.0	2843.3	3154.7	3336.2	3349.4	3377.3	3143.2
62.5°	1661.1	1685.0	1794.2	2053.8	2494.2	2962.4	3347.7	3533.4	3549.8	3519.4	3226.1
65°	1349.0	1382.6	1516.5	1823.0	2402.2	3039.7	3505.5	3715.0	3742.9	3626.2	3248.3
67.5°	1047.5	1071.3	1178.9	1446.7	2079.3	3001.0	3607.3	3839.8	3848.0	3609.0	3125.1
68°	993.2	1017.1	1119.7	1367.8	1989.7	2955.0	3604.9	3843.1	3861.2	3590.1	3077.5
70°	759.9	787.0	884.8	1083.6	1603.6	2662.6	3454.5	3764.3	3761.8	3361.7	2781.7
72.5°	474.8	490.5	557.8	683.5	1060.6	2025.9	2932.0	3319.8	3326.4	2740.6	2133.5
75°	301.5	301.5	298.2	331.1	543.9	1154.2	2179.5	2555.8	2560.7	1919.1	1344.8
77.5°	262.1	254.7	219.3	185.7	216.9	448.6	1289.8	1650.5	1623.3	1033.5	638.3
80°	221.0	208.7	179.9	149.5	139.7	140.5	495.4	838.0	801.8	372.2	212.0
82.5°	159.4	148.7	135.6	117.5	107.6	83.8	103.5	242.4	236.6	107.6	69.0
85°	86.3	78.0	76.4	77.2	64.9	51.8	43.5	53.4	53.4	46.8	39.4
87.5°	30.4	22.2	26.3	29.6	25.5	21.4	17.3	20.5	21.4	20.5	18.9
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°	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1
2.5°	817.4	825.6	845.4	862.6	874.9	885.6	891.4	893.8	899.6	900.4	898.8
5°	824.0	845.4	874.9	900.4	914.4	920.1	921.8	922.6	920.1	921.8	920.1
7.5°	841.2	868.4	910.3	932.4	934.9	925.9	926.7	923.4	926.7	930.0	930.0
10°	867.5	902.0	941.5	949.7	939.0	934.1	943.9	963.7	970.2	979.3	979.3
12.5°	902.0	943.1	971.0	963.7	953.8	970.2	999.0	1018.7	1025.3	1028.6	1026.1
15°	941.5	985.8	999.8	975.2	993.2	1028.6	1038.4	1026.9	1010.5	1003.1	1007.2
17.5°	991.6	1028.6	1020.3	1003.9	1045.0	1049.9	1017.9	980.9	954.6	944.8	951.3
20°	1044.2	1076.2	1038.4	1045.8	1071.3	1018.7	957.9	910.3	887.3	883.1	889.7
22.5°	1100.0	1120.6	1056.5	1094.3	1056.5	949.7	876.6	851.9	846.2	852.7	858.5
25°	1163.3	1160.8	1087.7	1109.1	1001.4	865.1	821.5	819.9	819.9	824.0	832.2
27.5°	1234.8	1196.1	1118.9	1089.3	906.1	795.2	787.0	787.8	785.4	786.2	790.3
30°	1317.7	1243.8	1153.4	1024.4	799.3	742.7	739.4	736.9	731.2	729.5	731.2
32.5°	1422.1	1293.9	1188.8	917.6	705.7	688.4	686.8	673.7	659.7	658.0	663.8
35°	1554.3	1385.1	1206.8	783.7	628.5	627.6	621.9	601.4	583.3	583.3	579.2
37.5°	1705.5	1502.6	1214.2	653.1	564.4	568.5	552.1	525.8	511.8	503.6	506.1
40°	1859.9	1636.5	1213.4	538.9	508.5	509.3	497.0	465.0	430.5	409.9	414.9
42.5°	2008.6	1758.1	1192.0	478.1	463.3	460.9	451.0	407.5	378.7	362.3	363.1
45°	2127.8	1883.8	1159.2	442.0	422.3	426.4	404.2	377.9	351.6	336.8	336.0
47.5°	2246.9	1979.1	1106.6	419.8	391.9	384.5	375.4	357.4	337.6	321.2	322.0
50°	2355.3	2060.4	1057.3	405.0	363.9	345.0	346.7	336.0	318.8	304.0	303.1
52.5°	2431.7	2113.8	1030.2	396.8	330.3	309.7	315.5	309.7	293.3	282.6	281.8
55°	2508.1	2154.9	1039.2	386.1	293.3	276.9	286.7	285.1	276.0	272.7	273.6
57.5°	2569.7	2186.1	1071.3	366.4	258.0	248.1	264.5	259.6	253.0	253.9	253.9
60°	2629.7	2226.3	1109.1	321.2	227.6	228.4	244.0	235.0	230.8	238.2	239.1
62.5°	2692.2	2269.9	1077.8	255.5	201.3	207.0	225.1	217.7	219.3	230.0	233.3
65°	2684.8	2265.8	878.2	209.5	178.3	189.8	216.9	214.4	215.2	219.3	221.0
67.5°	2533.6	2121.2	603.8	178.3	161.8	175.8	210.3	200.5	201.3	198.8	199.6
68°	2482.7	2070.3	532.4	173.3	158.6	172.5	207.0	198.0	198.8	196.3	195.5
70°	2205.0	1772.9	336.8	152.8	147.1	163.5	190.6	187.3	186.5	184.8	184.8
72.5°	1680.9	1308.7	177.5	132.3	133.9	149.5	170.1	176.6	172.5	173.3	178.3
75°	1113.2	787.0	123.2	113.4	117.5	128.2	151.2	164.3	160.2	162.7	160.2
77.5°	589.0	423.9	98.6	96.1	96.1	103.5	124.9	145.4	145.4	143.8	141.3
80°	193.1	149.5	78.9	75.6	77.2	81.3	100.2	119.1	121.6	118.3	116.7
82.5°	64.9	69.0	59.2	55.0	56.7	60.0	75.6	91.2	92.0	85.4	83.8
85°	40.3	46.0	37.0	36.1	36.1	37.0	46.0	50.1	46.0	41.1	42.7
87.5°	18.9	23.0	17.3	14.8	12.3	10.7	8.2	3.3	3.3	1.6	1.6
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)