

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: P1210586

Luminaire Tested: **ARCH3-170-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15352 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

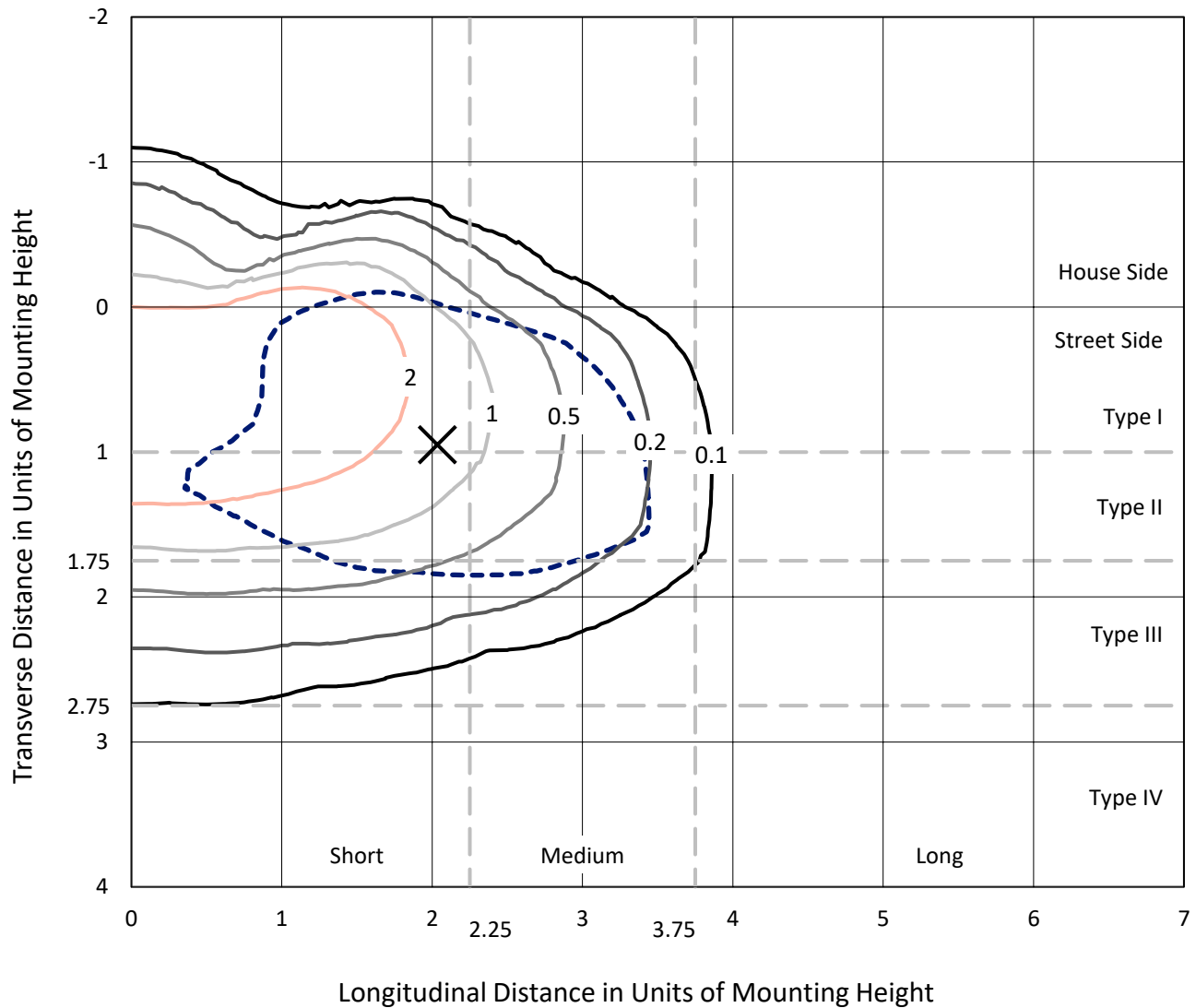
Input Watts (W): 170.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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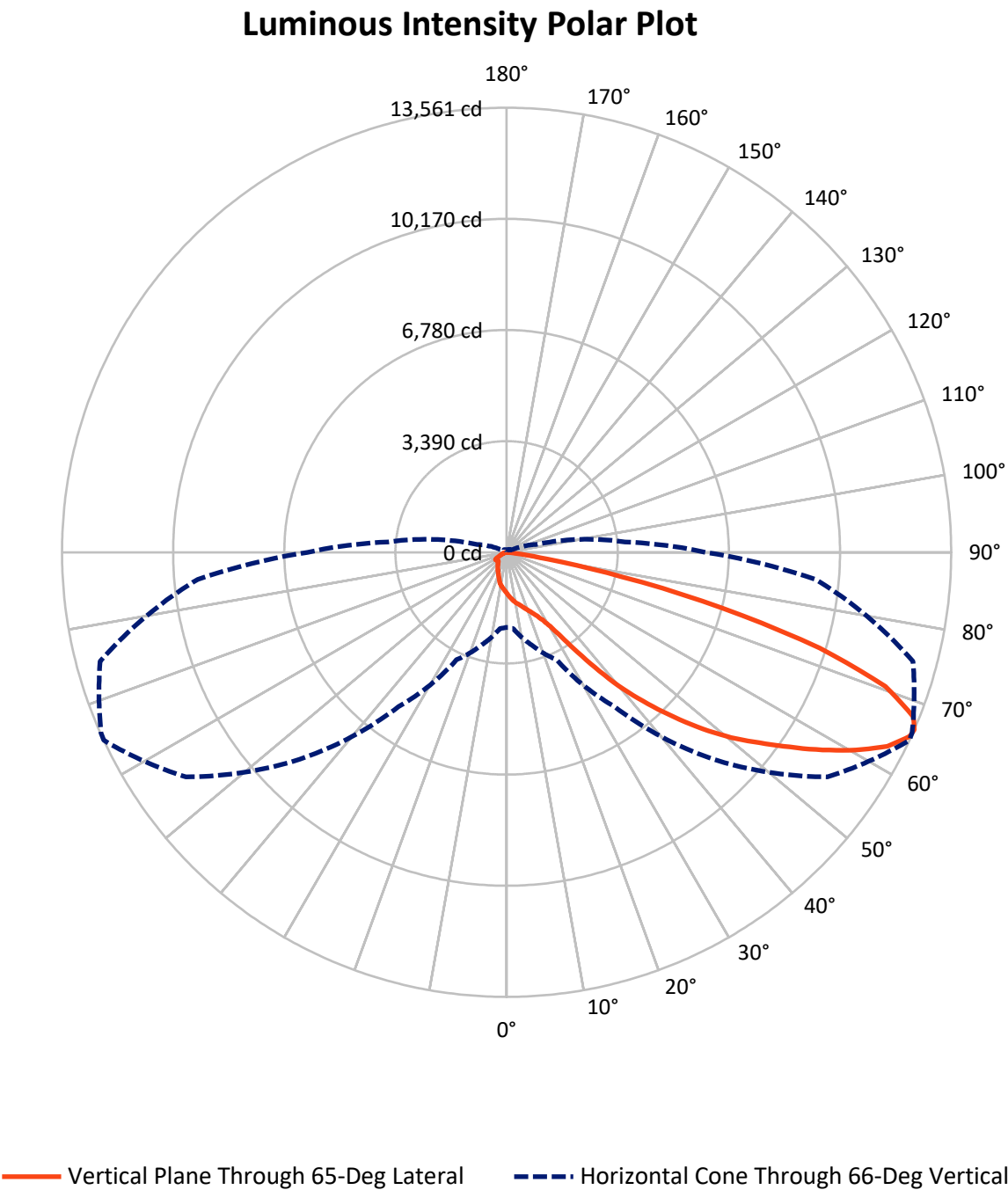
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

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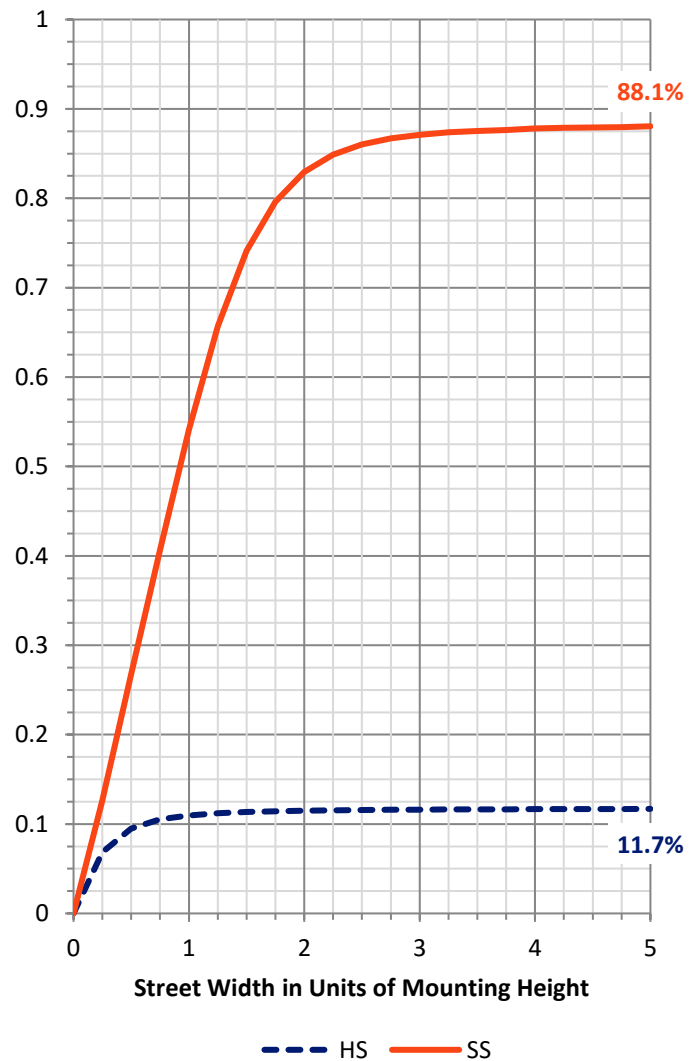
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1811.9	0.0	1811.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	13540.1	0.0	13540.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	15352.0	0.0	15352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	0.8
10°-20°	351.0	2.3
20°-30°	642.5	4.2
30°-40°	1305.5	8.5
40°-50°	2756.8	18.0
50°-60°	4238.1	27.6
60°-70°	4266.0	27.8
70°-80°	1594.0	10.4
80°-90°	79.6	0.5
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°	15352.0	100.0
0°-180°	15352.0	100.0

Coefficient of Utilization



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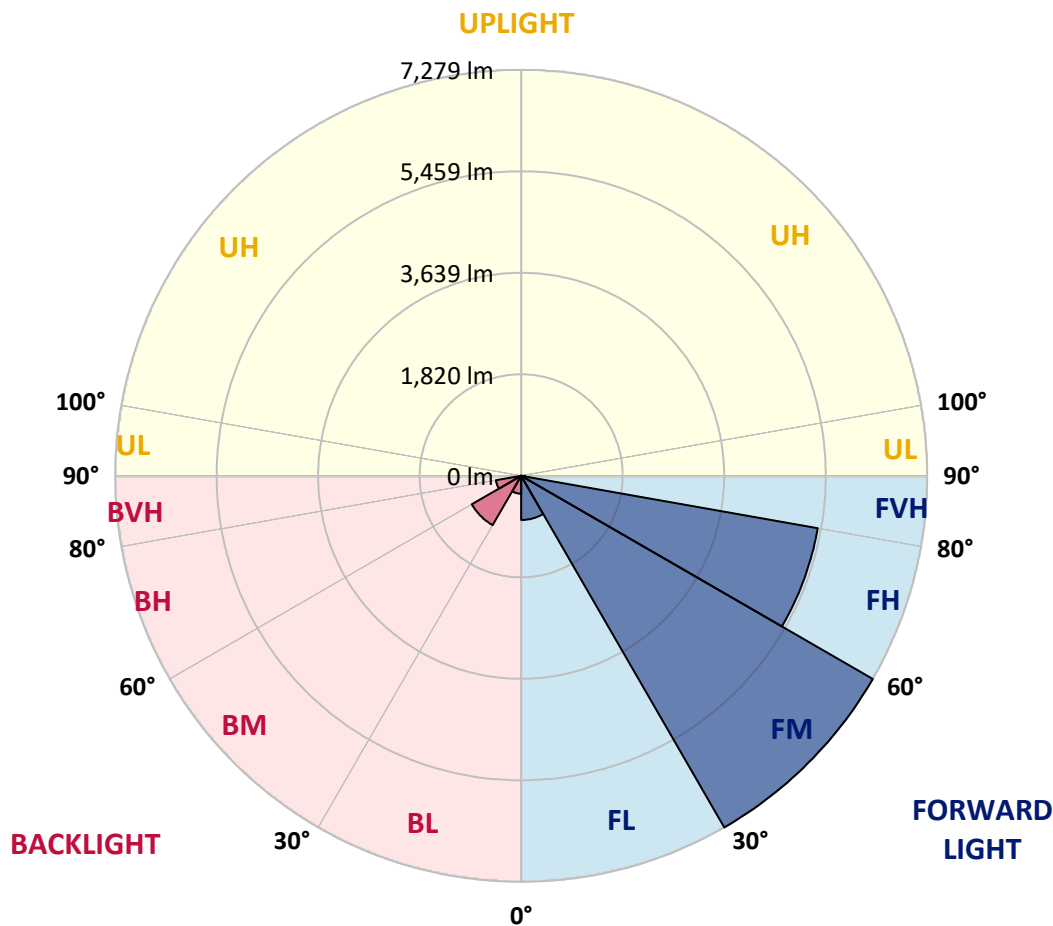
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	791.4	5.2			
FM	(30°-60°)	7278.8	47.4			
FH	(60°-80°)	5399.7	35.2			G3/7500
FVH	(80°-90°)	70.3	0.5			G1/100
BL	(0°-30°)	320.7	2.1	B1/500		
BM	(30°-60°)	1021.5	6.7	B2/2500		
BH	(60°-80°)	460.3	3.0	B1/500		G1/500
BVH	(80°-90°)	9.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8
2.5°	1426.3	1429.0	1423.5	1412.3	1401.2	1387.3	1365.0	1328.8	1323.2	1298.1	1270.3
5°	1523.7	1529.3	1521.0	1518.2	1512.6	1493.1	1462.5	1409.5	1404.0	1353.8	1289.8
7.5°	1557.2	1565.5	1560.0	1560.0	1560.0	1551.6	1537.7	1490.3	1482.0	1417.9	1320.4
10°	1582.2	1587.8	1585.0	1596.2	1604.5	1599.0	1590.6	1562.7	1554.4	1490.3	1362.2
12.5°	1621.2	1624.0	1626.8	1632.4	1646.3	1651.9	1649.1	1624.0	1618.5	1573.9	1415.1
15°	1657.5	1657.5	1660.2	1685.3	1704.8	1716.0	1718.7	1699.2	1693.7	1657.5	1482.0
17.5°	1690.9	1693.7	1702.0	1729.9	1763.3	1785.6	1799.5	1791.2	1782.8	1755.0	1560.0
20°	1741.0	1746.6	1755.0	1794.0	1827.4	1863.6	1891.5	1888.7	1885.9	1866.4	1651.9
22.5°	1827.4	1833.0	1846.9	1883.1	1916.5	1961.1	2008.5	2005.7	1997.3	1983.4	1760.5
25°	1958.3	1958.3	1966.7	1997.3	2039.1	2092.0	2136.6	2144.9	2136.6	2128.2	1897.0
27.5°	2122.7	2125.4	2125.4	2158.9	2197.9	2264.7	2320.4	2328.8	2328.8	2320.4	2080.9
30°	2351.1	2342.7	2337.2	2365.0	2406.8	2504.3	2601.8	2618.5	2610.2	2624.1	2339.9
32.5°	2743.9	2729.9	2682.6	2688.2	2713.2	2846.9	3011.3	3069.8	3067.0	3092.1	2757.8
35°	3287.1	3259.2	3189.6	3131.1	3128.3	3273.1	3523.8	3743.9	3741.1	3827.5	3392.9
37.5°	3899.9	3936.1	3805.2	3704.9	3674.3	3788.5	4111.6	4588.0	4613.0	4763.5	4225.8
40°	4718.9	4741.2	4574.0	4432.0	4287.1	4328.9	4755.1	5496.1	5540.7	5707.8	5058.7
42.5°	5432.0	5454.3	5356.8	5184.1	5000.2	4922.2	5404.2	6320.6	6356.8	6588.1	5916.7
45°	5916.7	5933.4	5966.9	5983.6	5774.6	5613.1	6198.1	7167.5	7212.0	7479.5	6755.2
47.5°	6295.6	6309.5	6376.3	6543.5	6501.7	6373.6	7005.9	8047.7	8058.9	8356.9	7571.4
50°	6471.1	6504.5	6668.8	6925.1	7109.0	7145.2	7883.4	8880.6	8911.3	9195.4	8343.0
52.5°	6276.1	6287.2	6702.3	7184.2	7554.7	7922.4	8763.6	9652.3	9741.4	9953.1	9036.6
55°	5618.7	5699.4	6329.0	7175.8	7905.7	8660.6	9705.2	10485.2	10566.0	10699.7	9646.7
57.5°	4855.4	4944.5	5710.6	6816.5	8056.1	9343.1	10577.1	11371.0	11426.7	11462.9	10206.6
60°	4195.2	4278.8	5067.1	6128.4	7905.7	9825.0	11387.7	12251.3	12298.6	12201.1	10488.0
62.5°	3384.6	3468.1	4262.0	5217.5	7315.1	9922.5	11989.4	13034.0	13053.5	12788.9	10315.3
65°	2551.7	2607.4	3270.4	4089.3	6281.6	9404.3	12125.9	13521.5	13502.0	12958.8	9797.1
66°	2287.0	2334.4	2919.4	3615.8	5744.0	8930.8	11942.1	13560.5	13541.0	12833.5	9457.3
67.5°	1972.2	1986.2	2468.1	2958.4	4805.2	7925.2	11382.2	13382.3	13399.0	12488.1	8836.1
70°	1540.5	1537.7	1816.2	2058.6	3281.5	5638.2	9493.5	12259.6	12340.4	11184.4	7535.2
72.5°	986.1	952.7	1114.3	1259.1	1911.0	3273.1	6922.3	9992.1	10128.6	8785.9	5613.1
75°	587.8	554.3	593.3	629.6	916.5	1573.9	4069.8	6799.8	6930.7	5632.6	3340.0
77.5°	440.1	426.2	429.0	398.3	406.7	590.6	1858.0	3593.5	3688.2	2306.5	1267.5
80°	337.1	300.9	281.4	295.3	267.4	234.0	690.8	1236.8	1295.3	546.0	264.6
82.5°	225.6	195.0	181.1	197.8	169.9	130.9	167.1	239.6	234.0	147.6	103.1
85°	117.0	100.3	100.3	100.3	86.4	64.1	72.4	97.5	97.5	78.0	61.3
87.5°	33.4	30.6	36.2	33.4	25.1	25.1	27.9	33.4	33.4	30.6	27.9
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°	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8	1250.8
2.5°	1248.0	1236.8	1206.2	1183.9	1161.6	1142.1	1119.8	1114.3	1103.1	1105.9	1100.3
5°	1256.3	1225.7	1172.8	1122.6	1083.6	1050.2	1008.4	991.7	969.4	961.0	955.5
7.5°	1267.5	1222.9	1144.9	1075.3	1008.4	941.5	874.7	835.7	810.6	799.5	791.1
10°	1292.5	1234.0	1131.0	1022.3	908.1	813.4	746.6	718.7	702.0	699.2	696.4
12.5°	1326.0	1250.8	1117.0	955.5	805.1	715.9	674.1	665.8	663.0	663.0	660.2
15°	1376.1	1278.6	1094.8	877.5	724.3	663.0	643.5	629.6	624.0	624.0	624.0
17.5°	1426.3	1312.0	1061.3	796.7	668.6	629.6	610.1	601.7	596.1	598.9	596.1
20°	1490.3	1351.0	1016.8	727.1	632.3	601.7	582.2	573.8	571.1	571.1	571.1
22.5°	1562.7	1395.6	961.0	674.1	601.7	573.8	554.3	546.0	540.4	543.2	543.2
25°	1660.2	1451.3	902.6	621.2	571.1	546.0	523.7	512.6	512.6	515.3	518.1
27.5°	1785.6	1518.2	844.1	587.8	543.2	518.1	493.1	481.9	484.7	490.3	490.3
30°	1969.5	1610.1	785.6	551.6	512.6	484.7	462.4	451.3	456.8	468.0	468.0
32.5°	2231.3	1760.5	735.4	509.8	468.0	437.3	415.1	406.7	420.6	442.9	442.9
35°	2699.3	2036.3	704.8	468.0	420.6	384.4	356.6	348.2	367.7	395.6	395.6
37.5°	3326.1	2479.2	715.9	431.8	381.6	339.8	309.2	298.1	312.0	337.1	345.4
40°	4025.3	3014.1	813.4	401.1	345.4	303.6	273.0	261.9	270.2	281.4	284.1
42.5°	4724.5	3582.3	997.3	378.8	317.6	273.0	245.1	236.8	242.4	245.1	247.9
45°	5420.9	4145.0	1228.5	364.9	292.5	247.9	220.1	220.1	222.9	222.9	222.9
47.5°	6081.1	4693.8	1470.8	362.1	270.2	222.9	200.6	203.4	203.4	206.1	206.1
50°	6705.1	5184.1	1716.0	370.5	250.7	200.6	183.9	183.9	183.9	186.6	183.9
52.5°	7226.0	5613.1	1972.2	384.4	231.2	183.9	167.1	167.1	167.1	169.9	167.1
55°	7719.0	6003.1	2234.1	403.9	214.5	169.9	153.2	147.6	147.6	150.4	147.6
57.5°	8120.2	6262.1	2482.0	406.7	200.6	156.0	142.1	133.7	133.7	133.7	133.7
60°	8136.9	6111.7	2554.4	356.6	183.9	142.1	128.1	117.0	119.8	119.8	119.8
62.5°	7604.8	5320.6	2053.0	267.4	164.4	128.1	117.0	105.9	105.9	105.9	105.9
65°	6560.2	4139.5	1203.4	211.7	142.1	114.2	103.1	94.7	94.7	94.7	91.9
66°	6069.9	3629.7	922.0	192.2	133.7	111.4	100.3	91.9	89.1	86.4	86.4
67.5°	5270.4	2869.2	576.6	169.9	122.6	103.1	91.9	83.6	80.8	78.0	78.0
70°	3969.5	1821.8	281.4	130.9	105.9	89.1	80.8	72.4	69.6	66.9	64.1
72.5°	2785.6	1066.9	147.6	100.3	86.4	78.0	69.6	61.3	58.5	55.7	55.7
75°	1573.9	515.3	97.5	72.4	69.6	64.1	58.5	50.1	47.4	47.4	47.4
77.5°	596.1	178.3	66.9	52.9	55.7	50.1	41.8	41.8	39.0	41.8	39.0
80°	156.0	78.0	41.8	39.0	41.8	36.2	30.6	33.4	33.4	33.4	33.4
82.5°	83.6	44.6	25.1	27.9	25.1	25.1	19.5	22.3	25.1	22.3	25.1
85°	58.5	22.3	13.9	13.9	11.1	11.1	8.4	11.1	13.9	11.1	11.1
87.5°	30.6	8.4	8.4	8.4	8.4	5.6	2.8	0.0	2.8	2.8	2.8
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)