

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: P798916

Luminaire Tested: **ARCH1-40-750-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-40-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

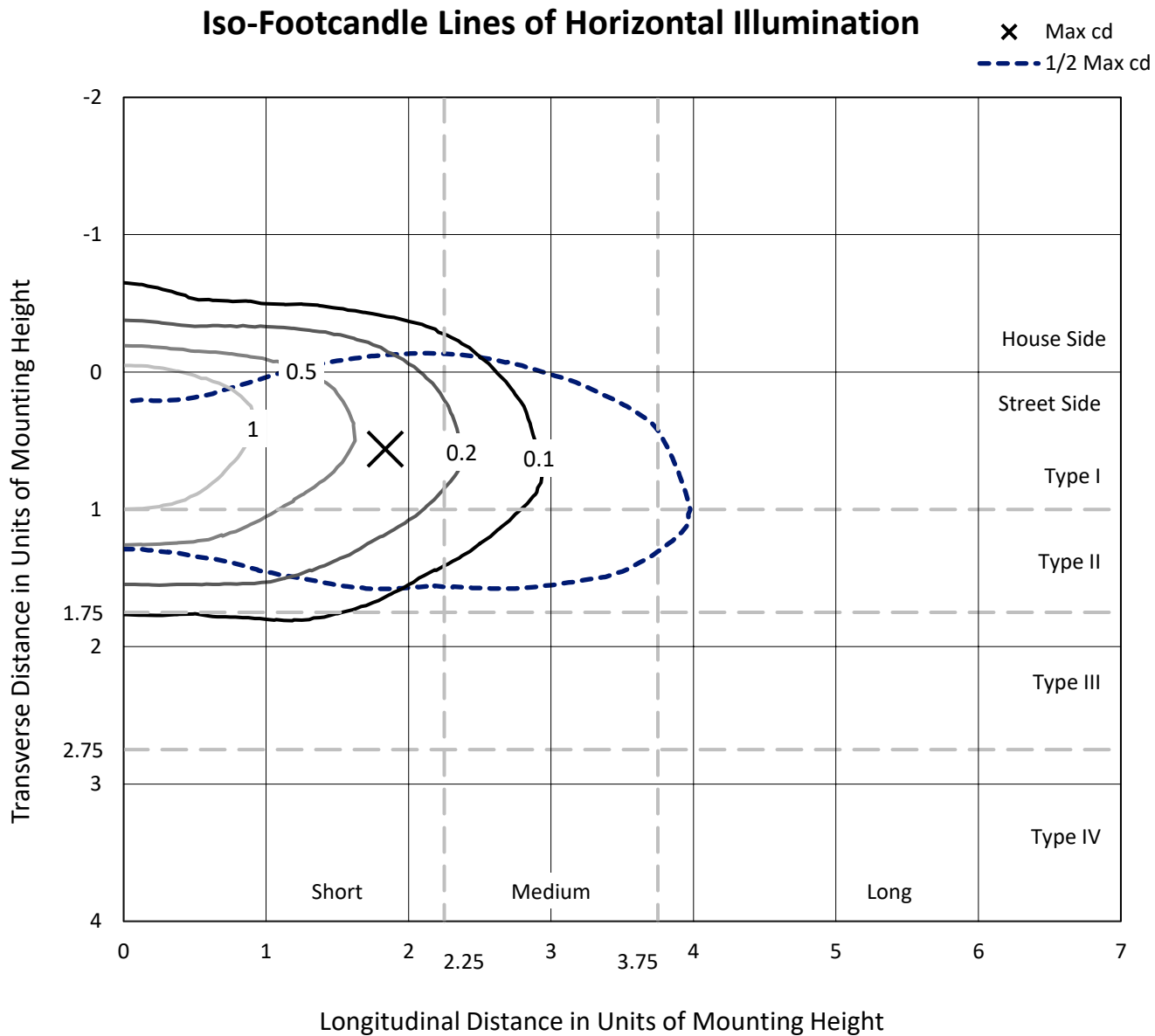
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3944 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43
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

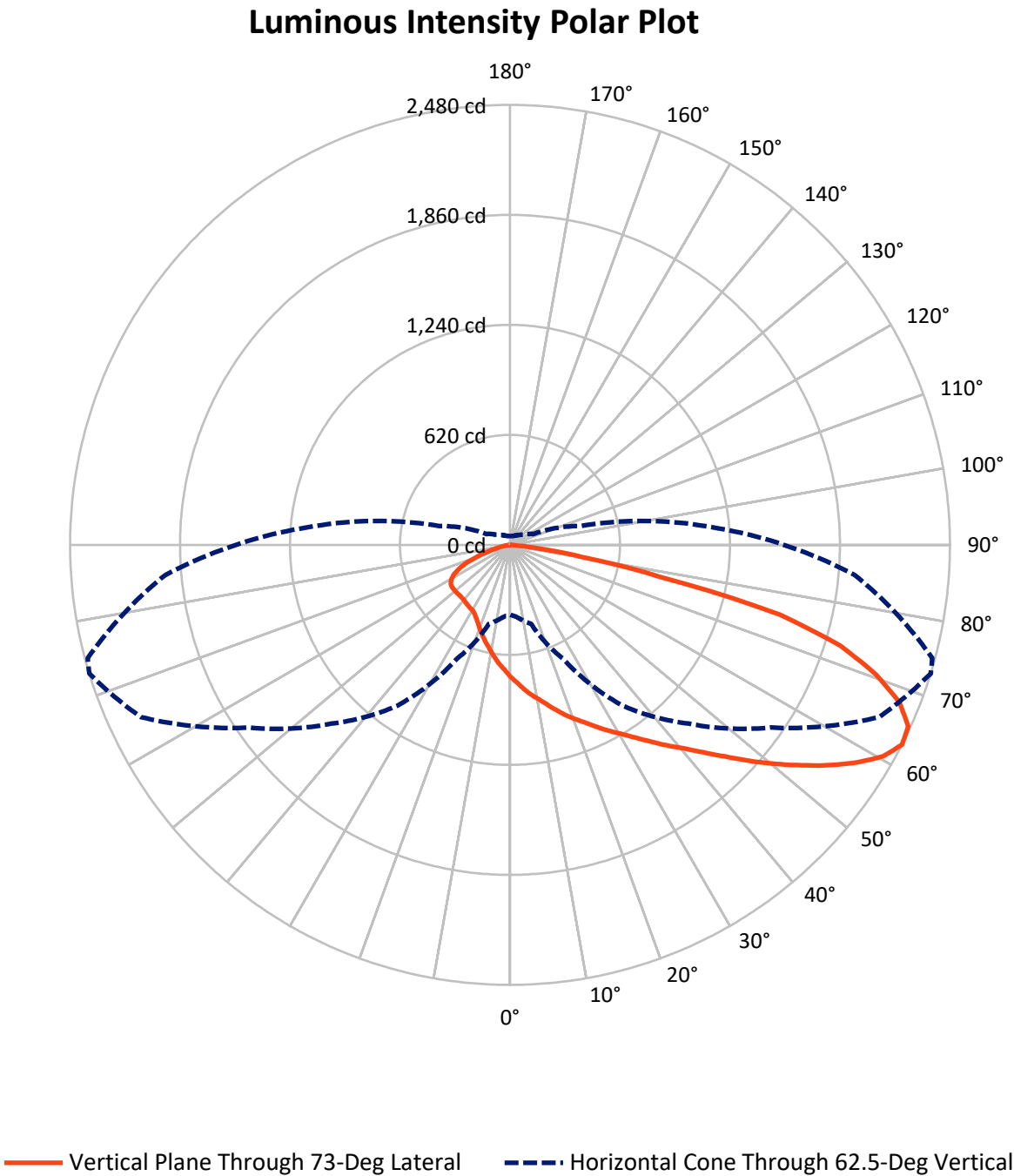


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Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type II - Short - N/A

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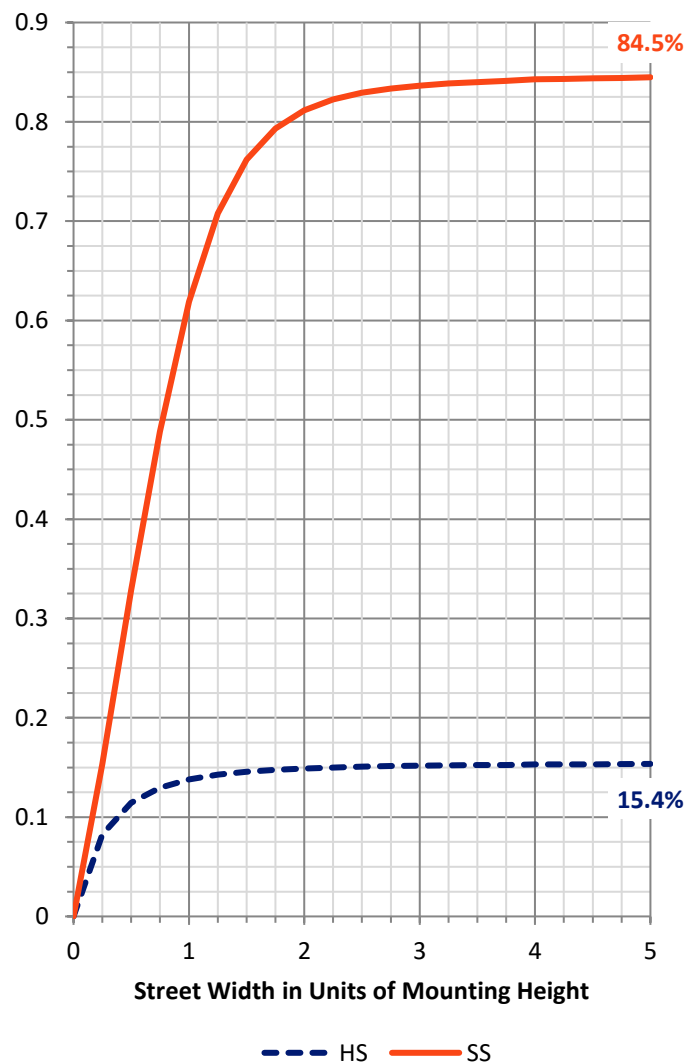
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	611.4	0.0	611.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3332.6	0.0	3332.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	3944.0	0.0	3944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	1.8
10°-20°	217.7	5.5
20°-30°	362.4	9.2
30°-40°	546.8	13.9
40°-50°	764.2	19.4
50°-60°	844.1	21.4
60°-70°	735.4	18.6
70°-80°	371.5	9.4
80°-90°	29.8	0.8
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°	3944.0	100.0
0°-180°	3944.0	100.0

Coefficient of Utilization



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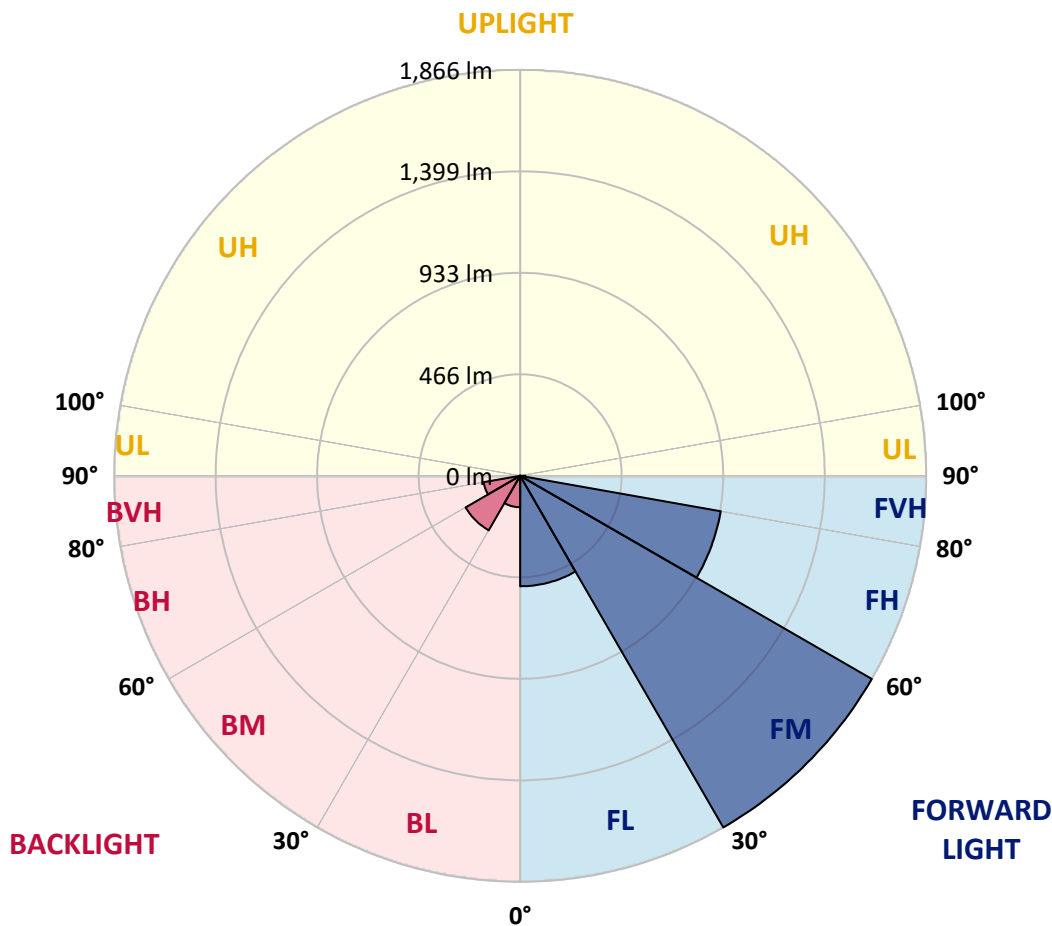
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	507.7	12.9			
FM	(30°-60°)	1865.7	47.3			
FH	(60°-80°)	936.2	23.7			G1/1800
FVH	(80°-90°)	23.1	0.6			G1/100
BL	(0°-30°)	144.5	3.7	B1/500		
BM	(30°-60°)	289.5	7.3	B1/1000		
BH	(60°-80°)	170.6	4.3	B1/500		G1/500
BVH	(80°-90°)	6.7	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8
2.5°	849.9	859.4	854.2	857.7	840.5	829.3	816.4	791.5	777.7	776.0	759.7
5°	974.5	984.9	976.3	973.7	943.6	917.8	888.6	844.8	815.6	810.4	774.3
7.5°	1099.2	1108.6	1098.3	1090.6	1050.2	1004.6	961.7	897.2	851.6	843.1	786.3
10°	1186.8	1195.4	1187.7	1179.9	1137.8	1091.4	1030.4	946.2	884.3	870.6	794.1
12.5°	1253.0	1258.1	1254.7	1247.8	1208.3	1158.4	1100.0	1001.2	921.3	904.1	806.1
15°	1307.1	1315.7	1311.4	1306.3	1268.5	1218.6	1162.7	1058.8	964.2	942.7	824.1
17.5°	1343.2	1349.2	1350.1	1350.1	1316.6	1267.6	1213.5	1111.2	1007.2	979.7	841.3
20°	1359.5	1366.4	1370.7	1377.6	1350.1	1308.0	1253.0	1155.9	1047.6	1016.7	857.7
22.5°	1367.3	1373.3	1384.5	1399.9	1377.6	1342.4	1291.7	1197.1	1088.0	1055.3	876.6
25°	1373.3	1381.0	1397.4	1426.6	1411.1	1381.0	1337.2	1244.4	1136.1	1102.6	904.1
27.5°	1389.6	1399.1	1414.5	1449.8	1430.9	1416.3	1385.3	1295.1	1186.8	1152.4	937.6
30°	1446.3	1454.1	1453.2	1475.6	1452.4	1448.1	1426.6	1344.1	1235.8	1201.4	977.1
32.5°	1549.5	1557.2	1538.3	1529.7	1479.0	1479.9	1471.3	1396.5	1294.2	1259.0	1022.7
35°	1660.3	1668.9	1644.0	1629.4	1544.3	1519.4	1523.7	1461.8	1359.5	1324.3	1079.4
37.5°	1759.2	1769.5	1748.0	1726.5	1640.6	1583.0	1582.1	1534.9	1434.3	1398.2	1142.1
40°	1813.3	1825.3	1838.2	1826.2	1736.0	1672.4	1644.9	1609.6	1508.2	1471.3	1210.0
42.5°	1839.1	1872.6	1895.8	1888.1	1814.2	1749.7	1717.0	1687.8	1598.5	1562.4	1290.8
45°	1766.9	1767.8	1816.7	1858.8	1845.1	1802.1	1796.1	1775.5	1701.6	1667.2	1381.9
47.5°	1676.7	1669.8	1704.2	1778.9	1817.6	1828.8	1864.0	1872.6	1819.3	1784.9	1474.7
50°	1460.1	1464.4	1576.1	1683.5	1759.2	1831.3	1912.1	1972.3	1940.5	1907.8	1572.7
52.5°	1187.7	1198.0	1326.0	1562.4	1681.8	1805.6	1940.5	2072.0	2064.2	2033.3	1670.6
55°	952.2	968.5	1104.3	1360.4	1583.0	1748.0	1952.5	2163.1	2192.3	2163.9	1766.9
57.5°	727.9	745.1	859.4	1122.4	1456.7	1654.3	1943.9	2243.0	2311.7	2293.7	1855.4
60°	548.3	565.5	638.5	910.1	1298.5	1549.5	1901.0	2295.4	2419.2	2400.3	1919.9
62.5°	392.7	406.5	460.6	708.1	1106.0	1424.9	1795.3	2296.3	2480.2	2464.7	1950.8
65°	282.7	282.7	326.6	505.3	925.6	1275.3	1635.4	2190.6	2467.3	2463.0	1929.3
67.5°	203.7	205.4	240.6	353.2	738.2	1094.0	1428.3	2002.4	2367.6	2389.1	1852.0
70°	144.4	148.7	165.0	246.6	557.7	863.7	1206.6	1755.7	2188.0	2225.8	1702.4
72.5°	111.7	114.3	125.5	171.9	407.3	642.0	961.7	1480.7	1948.2	1991.2	1498.8
75°	85.9	88.5	97.1	126.3	292.2	450.3	683.2	1149.0	1571.0	1647.4	1204.0
77.5°	62.7	66.2	72.2	92.0	170.2	286.2	414.2	646.3	867.1	903.2	630.8
80°	29.2	33.5	42.1	59.3	92.0	134.9	147.0	249.2	416.8	435.7	342.0
82.5°	16.3	20.6	24.1	36.1	46.4	48.1	49.8	62.7	157.3	173.6	143.5
85°	7.7	10.3	11.2	15.5	15.5	13.8	16.3	12.0	25.8	30.9	30.1
87.5°	0.0	0.9	1.7	4.3	3.4	2.6	2.6	2.6	2.6	3.4	2.6
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°	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8
2.5°	752.0	740.8	715.0	692.7	678.1	665.2	648.0	640.2	626.5	629.1	621.3
5°	756.3	735.6	690.1	648.0	617.0	589.5	559.5	542.3	523.4	521.6	515.6
7.5°	758.8	727.0	661.7	602.4	555.2	513.1	472.7	450.3	427.1	422.0	416.8
10°	756.3	714.1	632.5	555.2	492.4	440.0	394.5	366.1	342.0	336.0	330.9
12.5°	758.8	707.3	605.0	511.3	436.6	377.3	325.7	296.5	274.1	268.1	264.7
15°	764.9	703.0	581.8	471.8	386.7	320.6	269.8	244.9	226.9	220.9	219.1
17.5°	770.0	698.7	556.9	433.1	336.9	270.7	226.9	206.3	190.8	184.8	183.0
20°	776.9	692.7	532.0	396.2	293.0	231.2	192.5	174.5	162.4	158.1	157.3
22.5°	782.9	688.4	508.8	359.2	252.7	199.4	166.7	152.1	143.5	139.2	139.2
25°	798.4	690.1	489.0	324.8	222.6	174.5	147.0	135.8	128.9	126.3	126.3
27.5°	816.4	697.0	473.5	295.6	196.8	155.5	133.2	123.8	120.3	116.9	117.7
30°	842.2	710.7	463.2	271.6	177.9	140.9	122.0	115.2	111.7	110.9	110.9
32.5°	874.9	733.1	462.3	256.1	164.1	129.8	114.3	108.3	106.6	105.7	105.7
35°	913.5	752.8	457.2	249.2	155.5	122.0	108.3	104.0	103.1	103.1	103.1
37.5°	959.9	785.5	453.8	239.8	151.3	117.7	104.0	100.5	100.5	100.5	100.5
40°	1008.1	812.1	448.6	231.2	149.5	115.2	101.4	97.1	97.1	97.1	97.1
42.5°	1065.6	850.8	446.9	226.9	147.0	113.4	98.0	92.8	93.7	93.7	94.5
45°	1135.2	894.6	446.0	222.6	146.1	111.7	94.5	88.5	89.4	88.5	88.5
47.5°	1205.7	945.3	448.6	220.0	145.2	110.0	92.0	84.2	84.2	83.4	83.4
50°	1279.6	991.7	450.3	217.4	143.5	106.6	87.7	80.8	79.1	77.3	78.2
52.5°	1349.2	1034.7	451.2	213.1	138.4	101.4	84.2	76.5	73.9	71.3	72.2
55°	1418.8	1075.9	452.9	208.0	131.5	96.3	79.9	72.2	68.8	65.3	65.3
57.5°	1481.6	1112.0	448.6	195.1	123.8	91.1	75.6	67.0	61.9	58.4	58.4
60°	1524.5	1137.8	435.7	176.2	113.4	85.1	71.3	61.9	55.9	53.3	53.3
62.5°	1545.2	1142.1	412.5	145.2	100.5	79.1	66.2	56.7	51.6	49.8	49.8
65°	1525.4	1123.2	376.4	109.1	86.8	72.2	61.0	52.4	47.3	43.0	43.0
67.5°	1456.7	1069.9	326.6	82.5	73.9	65.3	55.9	48.1	42.1	38.7	38.7
70°	1318.3	959.1	252.7	66.2	62.7	56.7	50.7	43.0	37.8	33.5	33.5
72.5°	1137.0	813.0	177.9	53.3	53.3	48.1	43.0	37.8	32.7	29.2	29.2
75°	872.3	601.6	119.5	43.0	43.8	40.4	35.2	30.9	27.5	24.9	24.9
77.5°	476.1	297.3	73.0	31.8	32.7	30.9	27.5	24.9	23.2	20.6	20.6
80°	231.2	130.6	42.1	22.3	23.2	22.3	20.6	18.0	18.0	16.3	16.3
82.5°	97.1	49.0	22.3	15.5	15.5	13.8	12.9	12.9	12.9	12.0	12.0
85°	24.1	9.5	9.5	8.6	8.6	8.6	7.7	7.7	7.7	6.0	6.9
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	2.6	0.9	0.0	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)