

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: P798964

Luminaire Tested: **ARCH1-50-722-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798964
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: ARCH1-50-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

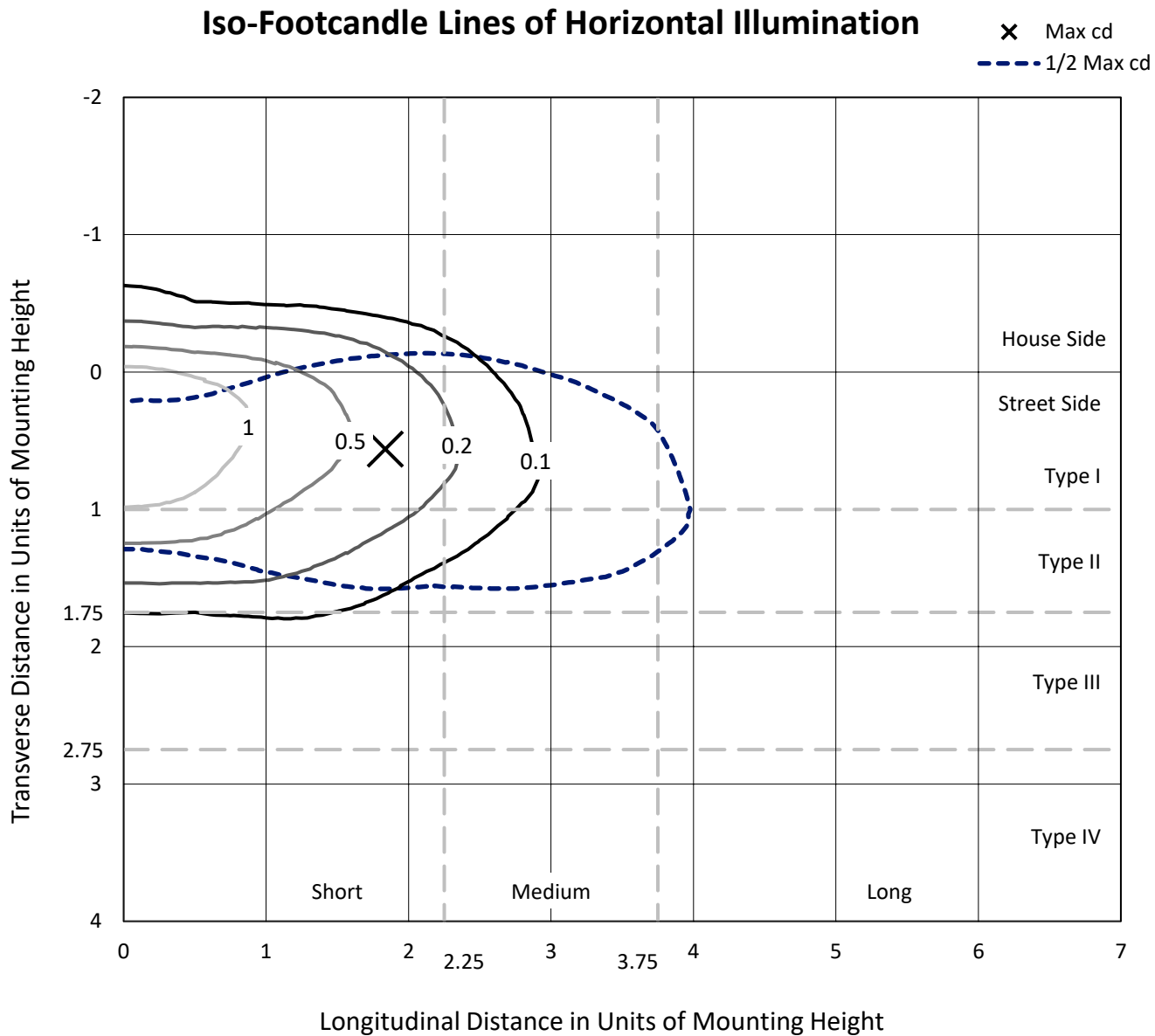
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3824 lumens
Efficiency: N/A
Efficacy: 72.2 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): 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

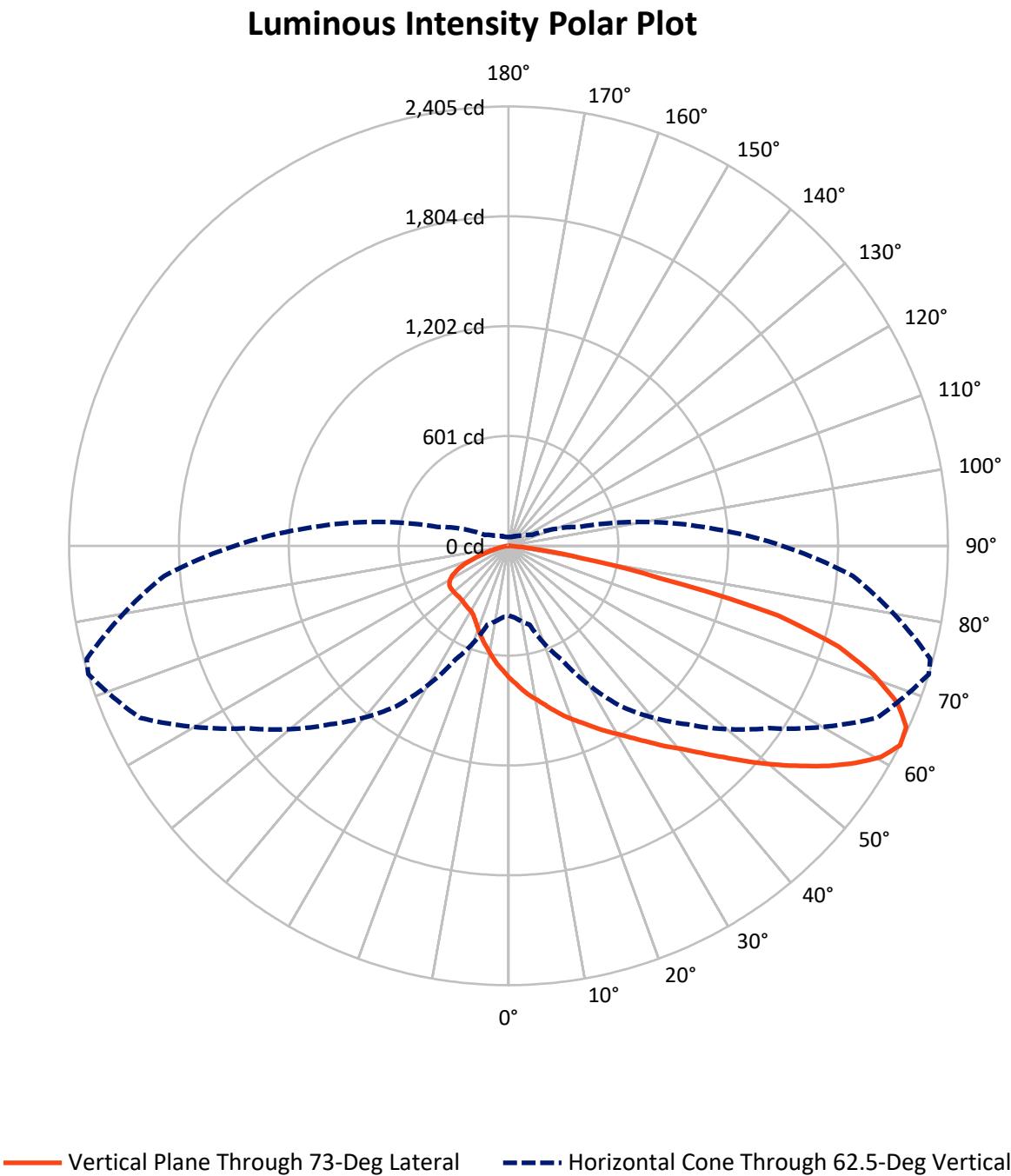


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Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Short - N/A

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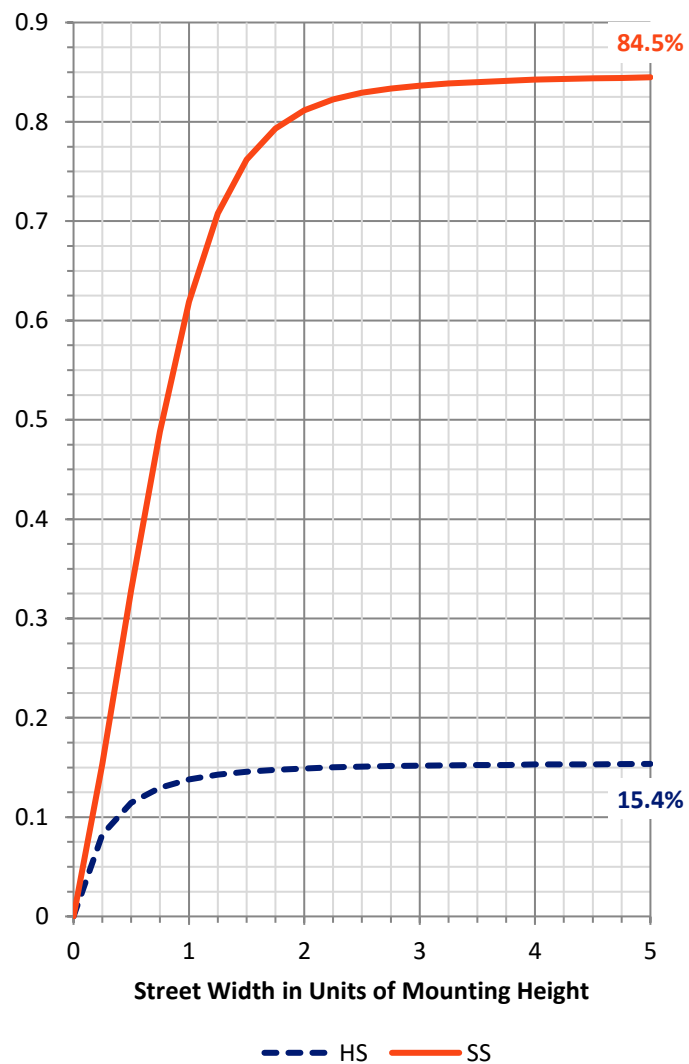
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	592.8	0.0	592.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3231.2	0.0	3231.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	3824.0	0.0	3824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.8
10°-20°	211.1	5.5
20°-30°	351.3	9.2
30°-40°	530.1	13.9
40°-50°	741.0	19.4
50°-60°	818.5	21.4
60°-70°	713.0	18.6
70°-80°	360.2	9.4
80°-90°	28.9	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°	3824.0	100.0
0°-180°	3824.0	100.0

Coefficient of Utilization



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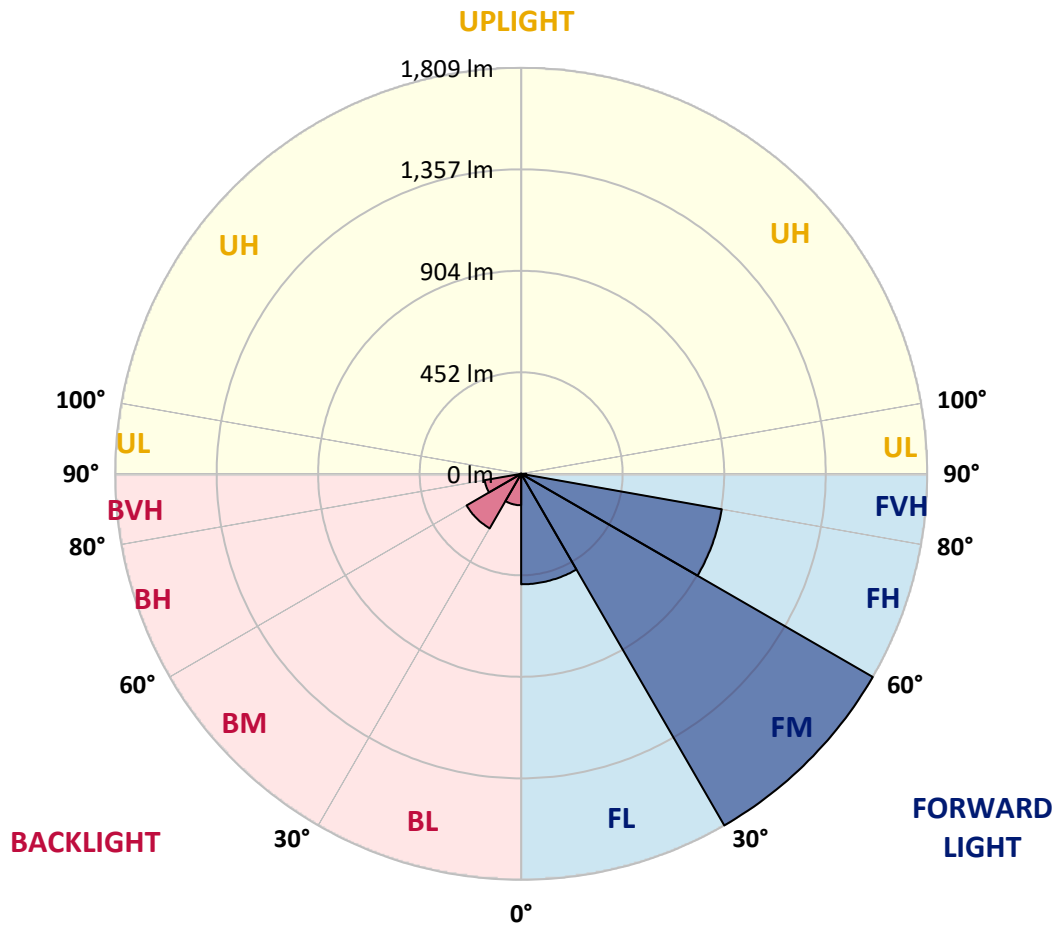
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	492.3	12.9			
FM	(30°-60°)	1808.9	47.3			
FH	(60°-80°)	907.7	23.7			G1/1800
FVH	(80°-90°)	22.4	0.6			G1/100
BL	(0°-30°)	140.1	3.7	B1/500		
BM	(30°-60°)	280.7	7.3	B1/1000		
BH	(60°-80°)	165.5	4.3	B1/500		G1/500
BVH	(80°-90°)	6.5	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°	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1
2.5°	824.1	833.2	828.2	831.6	814.9	804.1	791.6	767.4	754.1	752.4	736.6
5°	944.9	954.9	946.6	944.1	914.9	889.9	861.6	819.1	790.7	785.7	750.7
7.5°	1065.7	1074.9	1064.9	1057.4	1018.2	974.1	932.4	869.9	825.7	817.4	762.4
10°	1150.7	1159.0	1151.5	1144.0	1103.2	1058.2	999.1	917.4	857.4	844.1	769.9
12.5°	1214.9	1219.9	1216.5	1209.9	1171.5	1123.2	1066.5	970.7	893.2	876.6	781.6
15°	1267.4	1275.7	1271.5	1266.5	1229.9	1181.5	1127.4	1026.5	934.9	914.1	799.1
17.5°	1302.3	1308.2	1309.0	1309.0	1276.5	1229.0	1176.5	1077.4	976.6	949.9	815.7
20°	1318.2	1324.8	1329.0	1335.7	1309.0	1268.2	1214.9	1120.7	1015.7	985.7	831.6
22.5°	1325.7	1331.5	1342.3	1357.3	1335.7	1301.5	1252.4	1160.7	1054.9	1023.2	849.9
25°	1331.5	1339.0	1354.8	1383.2	1368.2	1339.0	1296.5	1206.5	1101.5	1069.0	876.6
27.5°	1347.3	1356.5	1371.5	1405.7	1387.3	1373.2	1343.2	1255.7	1150.7	1117.4	909.1
30°	1402.3	1409.8	1409.0	1430.7	1408.2	1404.0	1383.2	1303.2	1198.2	1164.9	947.4
32.5°	1502.3	1509.8	1491.5	1483.2	1434.0	1434.8	1426.5	1354.0	1254.9	1220.7	991.6
35°	1609.8	1618.1	1594.0	1579.8	1497.3	1473.2	1477.3	1417.3	1318.2	1284.0	1046.5
37.5°	1705.6	1715.6	1694.8	1674.0	1590.6	1534.8	1534.0	1488.2	1390.7	1355.7	1107.4
40°	1758.1	1769.8	1782.3	1770.6	1683.1	1621.5	1594.8	1560.7	1462.3	1426.5	1173.2
42.5°	1783.1	1815.6	1838.1	1830.6	1759.0	1696.5	1664.8	1636.5	1549.8	1514.8	1251.5
45°	1713.1	1714.0	1761.5	1802.3	1789.0	1747.3	1741.5	1721.5	1649.8	1616.5	1339.8
47.5°	1625.6	1619.0	1652.3	1724.8	1762.3	1773.1	1807.3	1815.6	1764.0	1730.6	1429.8
50°	1415.7	1419.8	1528.2	1632.3	1705.6	1775.6	1854.0	1912.3	1881.4	1849.8	1524.8
52.5°	1151.5	1161.5	1285.7	1514.8	1630.6	1750.6	1881.4	2008.9	2001.4	1971.4	1619.8
55°	923.2	939.1	1070.7	1319.0	1534.8	1694.8	1893.1	2097.3	2125.6	2098.1	1713.1
57.5°	705.8	722.4	833.2	1088.2	1412.3	1604.0	1884.8	2174.7	2241.4	2223.9	1799.0
60°	531.6	548.3	619.1	882.4	1259.0	1502.3	1843.1	2225.6	2345.6	2327.2	1861.5
62.5°	380.8	394.1	446.6	686.6	1072.4	1381.5	1740.6	2226.4	2404.7	2389.7	1891.4
65°	274.1	274.1	316.6	489.9	897.4	1236.5	1585.6	2123.9	2392.2	2388.1	1870.6
67.5°	197.5	199.1	233.3	342.5	715.8	1060.7	1384.8	1941.4	2295.6	2316.4	1795.6
70°	140.0	144.1	160.0	239.1	540.8	837.4	1169.9	1702.3	2121.4	2158.1	1650.6
72.5°	108.3	110.8	121.7	166.6	395.0	622.4	932.4	1435.7	1888.9	1930.6	1453.2
75°	83.3	85.8	94.2	122.5	283.3	436.6	662.4	1114.0	1523.2	1597.3	1167.4
77.5°	60.8	64.2	70.0	89.2	165.0	277.5	401.6	626.6	840.7	875.7	611.6
80°	28.3	32.5	40.8	57.5	89.2	130.8	142.5	241.6	404.1	422.5	331.6
82.5°	15.8	20.0	23.3	35.0	45.0	46.7	48.3	60.8	152.5	168.3	139.2
85°	7.5	10.0	10.8	15.0	15.0	13.3	15.8	11.7	25.0	30.0	29.2
87.5°	0.0	0.8	1.7	4.2	3.3	2.5	2.5	2.5	2.5	3.3	2.5
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°	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1
2.5°	729.1	718.2	693.3	671.6	657.4	644.9	628.3	620.8	607.4	609.9	602.4
5°	733.2	713.3	669.1	628.3	598.3	571.6	542.4	525.8	507.4	505.8	499.9
7.5°	735.7	704.9	641.6	584.1	538.3	497.4	458.3	436.6	414.1	409.1	404.1
10°	733.2	692.4	613.3	538.3	477.4	426.6	382.5	355.0	331.6	325.8	320.8
12.5°	735.7	685.8	586.6	495.8	423.3	365.8	315.8	287.5	265.8	260.0	256.6
15°	741.6	681.6	564.1	457.4	375.0	310.8	261.6	237.5	220.0	214.1	212.5
17.5°	746.6	677.4	539.9	420.0	326.6	262.5	220.0	200.0	185.0	179.1	177.5
20°	753.2	671.6	515.8	384.1	284.1	224.1	186.6	169.1	157.5	153.3	152.5
22.5°	759.1	667.4	493.3	348.3	245.0	193.3	161.6	147.5	139.2	135.0	135.0
25°	774.1	669.1	474.1	315.0	215.8	169.1	142.5	131.7	125.0	122.5	122.5
27.5°	791.6	675.8	459.1	286.6	190.8	150.8	129.2	120.0	116.7	113.3	114.2
30°	816.6	689.1	449.1	263.3	172.5	136.7	118.3	111.7	108.3	107.5	107.5
32.5°	848.2	710.8	448.3	248.3	159.1	125.8	110.8	105.0	103.3	102.5	102.5
35°	885.7	729.9	443.3	241.6	150.8	118.3	105.0	100.8	100.0	100.0	100.0
37.5°	930.7	761.6	439.9	232.5	146.6	114.2	100.8	97.5	97.5	97.5	97.5
40°	977.4	787.4	434.9	224.1	145.0	111.7	98.3	94.2	94.2	94.2	94.2
42.5°	1033.2	824.9	433.3	220.0	142.5	110.0	95.0	90.0	90.8	90.8	91.7
45°	1100.7	867.4	432.4	215.8	141.7	108.3	91.7	85.8	86.7	85.8	85.8
47.5°	1169.0	916.6	434.9	213.3	140.8	106.7	89.2	81.7	81.7	80.8	80.8
50°	1240.7	961.6	436.6	210.8	139.2	103.3	85.0	78.3	76.7	75.0	75.8
52.5°	1308.2	1003.2	437.4	206.6	134.2	98.3	81.7	74.2	71.7	69.2	70.0
55°	1375.7	1043.2	439.1	201.6	127.5	93.3	77.5	70.0	66.7	63.3	63.3
57.5°	1436.5	1078.2	434.9	189.1	120.0	88.3	73.3	65.0	60.0	56.7	56.7
60°	1478.2	1103.2	422.5	170.8	110.0	82.5	69.2	60.0	54.2	51.7	51.7
62.5°	1498.2	1107.4	400.0	140.8	97.5	76.7	64.2	55.0	50.0	48.3	48.3
65°	1479.0	1089.0	365.0	105.8	84.2	70.0	59.2	50.8	45.8	41.7	41.7
67.5°	1412.3	1037.4	316.6	80.0	71.7	63.3	54.2	46.7	40.8	37.5	37.5
70°	1278.2	929.9	245.0	64.2	60.8	55.0	49.2	41.7	36.7	32.5	32.5
72.5°	1102.4	788.2	172.5	51.7	51.7	46.7	41.7	36.7	31.7	28.3	28.3
75°	845.7	583.3	115.8	41.7	42.5	39.2	34.2	30.0	26.7	24.2	24.2
77.5°	461.6	288.3	70.8	30.8	31.7	30.0	26.7	24.2	22.5	20.0	20.0
80°	224.1	126.7	40.8	21.7	22.5	21.7	20.0	17.5	17.5	15.8	15.8
82.5°	94.2	47.5	21.7	15.0	15.0	13.3	12.5	12.5	12.5	11.7	11.7
85°	23.3	9.2	9.2	8.3	8.3	8.3	7.5	7.5	7.5	5.8	6.7
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	2.5	0.8	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)