

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: P799624

Luminaire Tested: **ARCH2-40-727-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799624
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: ARCH2-40-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

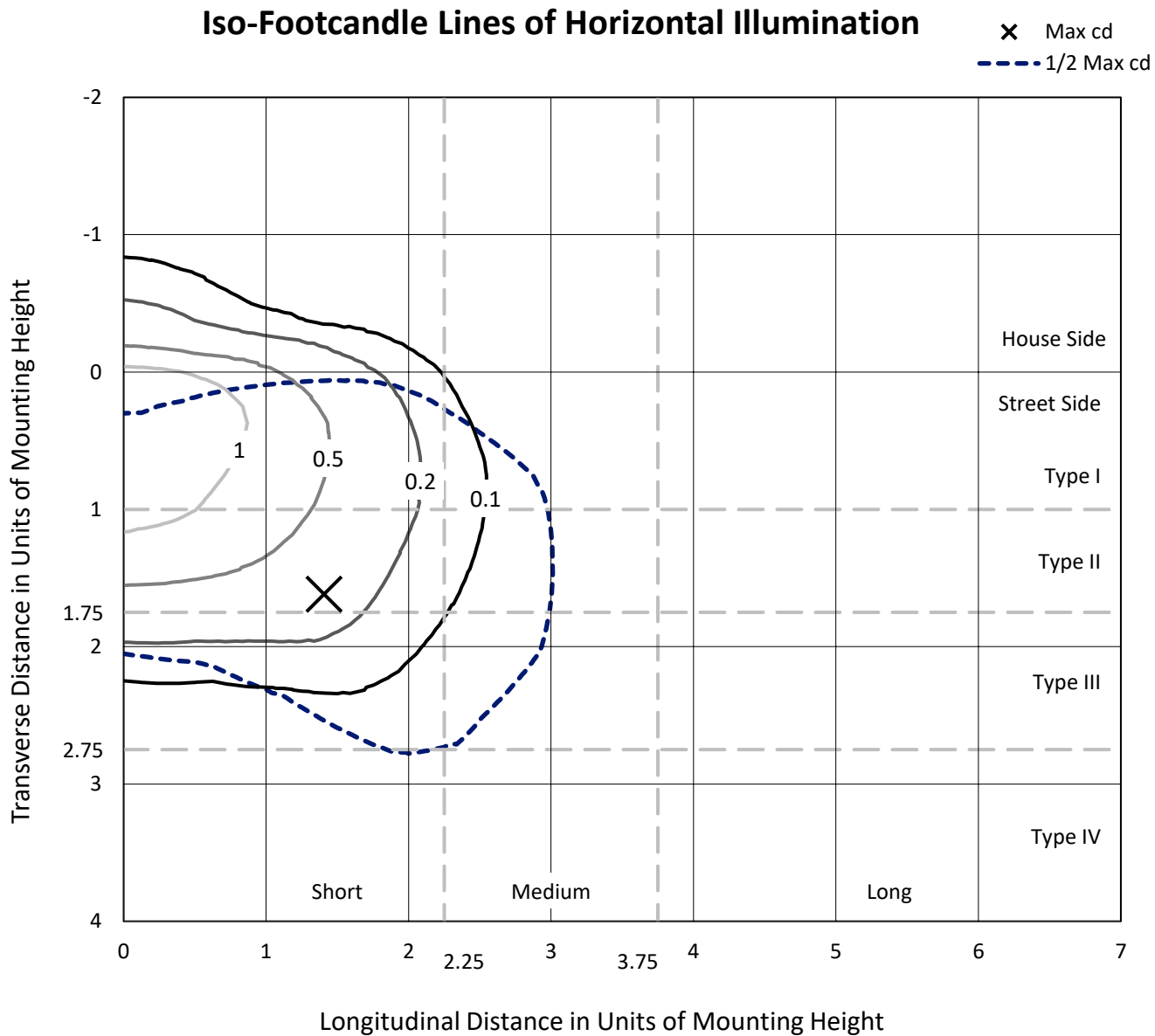
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4295 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.1
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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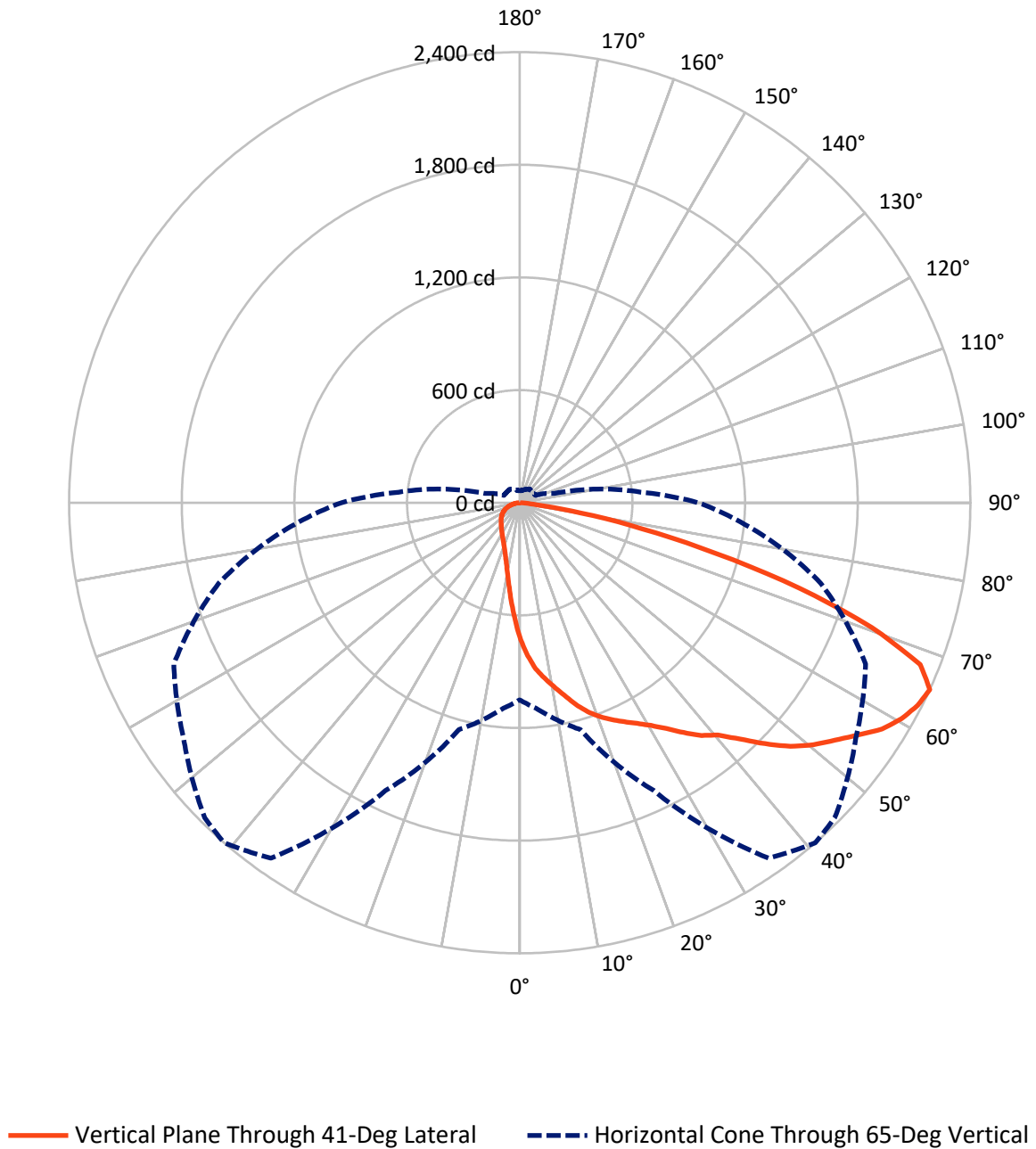


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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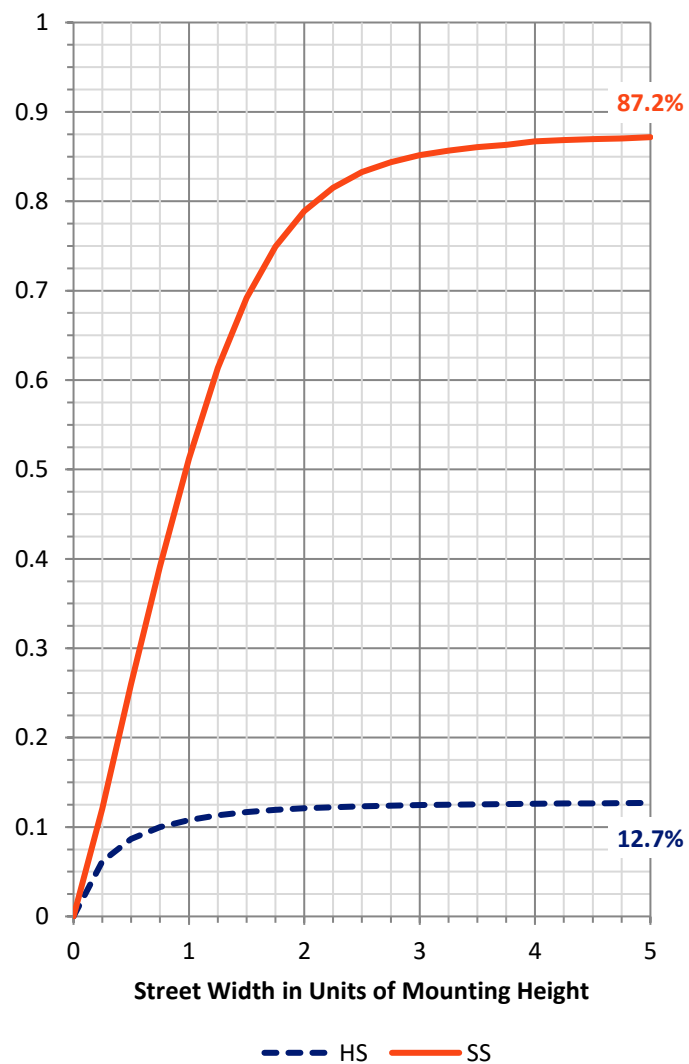
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	551.4	0.0	551.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3743.6	0.0	3743.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	4295.0	0.0	4295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	1.6
10°-20°	204.5	4.8
20°-30°	351.8	8.2
30°-40°	533.5	12.4
40°-50°	781.6	18.2
50°-60°	987.0	23.0
60°-70°	925.5	21.5
70°-80°	412.5	9.6
80°-90°	30.6	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°	4295.0	100.0
0°-180°	4295.0	100.0

Coefficient of Utilization



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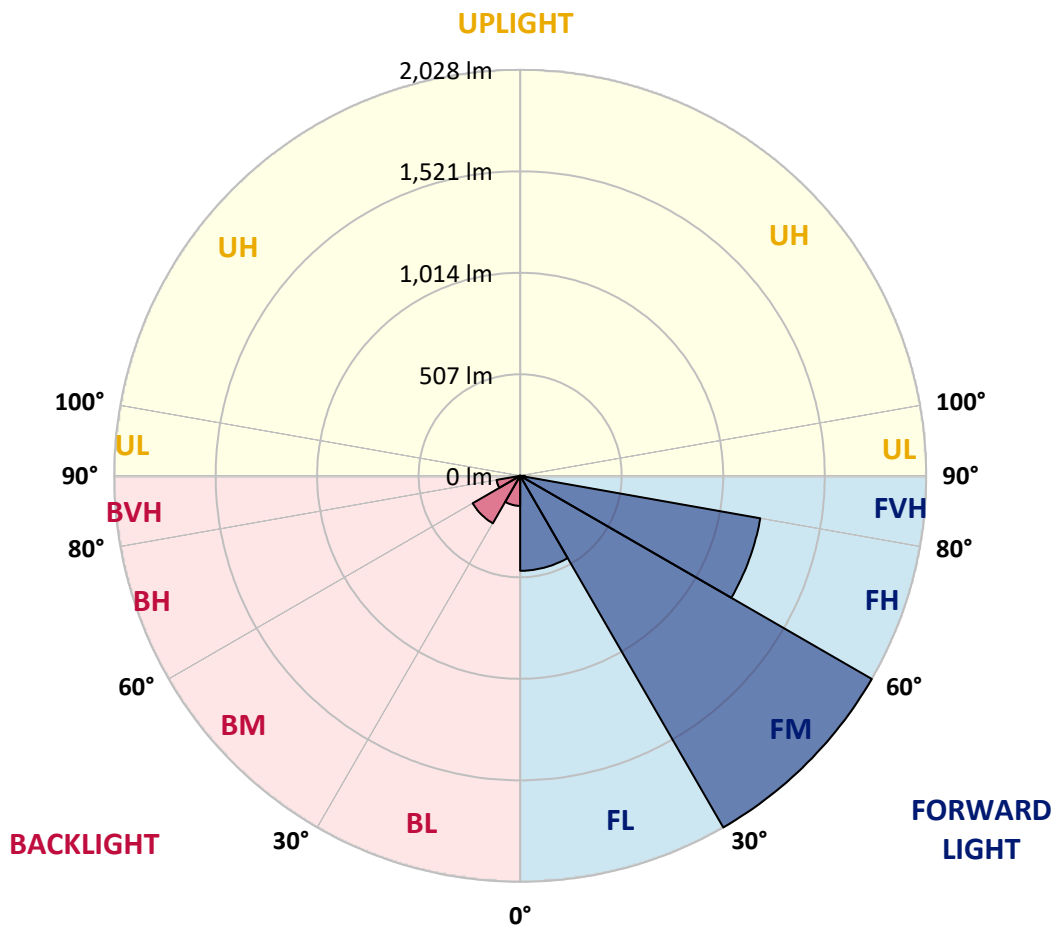
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	474.3	11.0			
FM	(30°-60°)	2028.3	47.2			
FH	(60°-80°)	1218.2	28.4			G1/1800
FVH	(80°-90°)	22.8	0.5			G1/100
BL	(0°-30°)	150.1	3.5	B1/500		
BM	(30°-60°)	273.8	6.4	B1/1000		
BH	(60°-80°)	119.8	2.8	B1/500		G1/500
BVH	(80°-90°)	7.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8
2.5°	844.2	841.4	839.6	829.7	829.7	816.1	817.0	804.3	788.9	764.5	738.2
5°	923.9	920.2	915.7	905.7	902.1	888.5	886.7	868.6	842.3	799.8	752.7
7.5°	993.6	990.0	983.6	969.2	959.2	942.9	938.4	914.8	885.8	833.3	767.2
10°	1057.0	1054.3	1046.1	1028.0	1014.4	994.5	986.4	954.7	918.4	860.5	778.9
12.5°	1121.3	1117.7	1106.8	1091.4	1075.1	1051.6	1041.6	1000.9	954.7	890.4	796.2
15°	1181.1	1175.7	1167.5	1151.2	1136.7	1114.1	1103.2	1055.2	999.0	923.9	818.8
17.5°	1220.0	1215.5	1208.3	1199.2	1187.4	1170.2	1159.4	1112.3	1043.4	956.5	842.3
20°	1243.6	1241.8	1239.1	1233.6	1228.2	1216.4	1208.3	1163.9	1091.4	988.2	865.0
22.5°	1261.7	1259.9	1259.0	1259.0	1259.9	1255.4	1249.9	1211.9	1137.6	1021.7	885.8
25°	1289.8	1288.9	1287.1	1285.3	1291.6	1292.5	1290.7	1264.4	1195.6	1066.1	912.1
27.5°	1328.7	1326.0	1322.4	1320.6	1326.9	1331.5	1335.1	1317.0	1257.2	1111.4	942.0
30°	1388.5	1380.4	1371.3	1365.0	1369.5	1376.7	1384.9	1374.0	1320.6	1167.5	972.8
32.5°	1459.2	1449.2	1428.4	1416.6	1428.4	1433.8	1440.1	1434.7	1386.7	1228.2	1003.6
35°	1545.2	1533.4	1511.7	1494.5	1515.3	1503.5	1500.8	1495.4	1449.2	1288.0	1038.0
37.5°	1688.3	1671.1	1636.7	1598.6	1598.6	1573.3	1563.3	1547.0	1505.4	1341.4	1071.5
40°	1854.1	1831.4	1787.0	1730.9	1679.3	1626.7	1620.4	1608.6	1571.5	1403.0	1109.5
42.5°	2036.1	1992.6	1931.1	1863.1	1779.8	1720.0	1705.5	1672.0	1635.8	1465.5	1147.6
45°	2238.1	2147.5	2057.9	2023.4	1885.8	1831.4	1804.3	1743.6	1702.8	1530.7	1187.4
47.5°	2270.7	2200.1	2140.3	2134.9	1984.5	1939.2	1908.4	1821.5	1775.3	1600.5	1229.1
50°	2252.6	2210.0	2216.4	2194.6	2057.0	2027.1	2003.5	1904.8	1846.8	1667.5	1267.1
52.5°	2176.5	2200.1	2236.3	2196.4	2125.8	2101.3	2089.6	1994.5	1913.8	1729.1	1301.6
55°	2085.9	2102.2	2180.1	2229.0	2205.5	2183.8	2172.9	2098.6	1980.0	1780.7	1333.3
57.5°	1953.7	1946.5	2032.5	2223.6	2288.8	2276.1	2264.4	2201.0	2041.6	1817.8	1353.2
60°	1755.3	1739.9	1848.6	2114.9	2316.0	2335.9	2330.5	2268.9	2088.7	1816.9	1345.0
62.5°	1412.1	1450.1	1600.5	1937.4	2327.8	2378.5	2368.5	2274.3	2104.1	1764.4	1293.4
65°	1049.8	1104.1	1251.7	1692.8	2311.5	2400.2	2373.1	2185.6	2032.5	1660.2	1180.2
67.5°	756.3	804.3	912.1	1393.0	2154.8	2300.6	2268.9	2040.7	1867.7	1512.6	1023.5
70°	517.2	551.6	625.0	1014.4	1839.6	1989.0	1969.1	1824.2	1607.7	1336.9	831.5
72.5°	365.0	379.5	426.6	669.3	1397.6	1560.6	1537.1	1500.8	1291.6	1111.4	646.7
75°	273.5	282.6	308.0	432.9	942.9	1081.5	1059.7	1080.6	964.6	841.4	471.0
77.5°	103.3	112.3	174.8	276.3	557.9	663.9	642.2	654.9	536.2	424.8	234.6
80°	28.1	29.9	58.0	131.3	253.6	330.6	300.7	258.1	199.3	195.6	124.1
82.5°	11.8	13.6	26.3	70.6	90.6	90.6	76.1	94.2	76.1	91.5	59.8
85°	4.5	5.4	6.3	18.1	11.8	12.7	13.6	18.1	15.4	19.0	13.6
87.5°	0.0	0.0	0.0	0.9	0.9	1.8	0.9	1.8	2.7	2.7	2.7
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°	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8
2.5°	727.3	717.4	702.9	679.3	654.9	641.3	624.1	621.3	603.2	601.4	594.2
5°	731.8	711.0	673.9	628.6	584.2	549.8	524.4	510.8	484.6	484.6	477.3
7.5°	735.5	702.9	643.1	576.1	515.4	469.2	434.8	420.3	396.7	394.9	389.5
10°	736.4	692.9	609.6	522.6	448.3	401.2	367.7	351.4	330.6	328.8	325.2
12.5°	743.6	687.5	579.7	476.4	400.3	349.6	317.0	303.4	287.1	285.3	281.7
15°	755.4	687.5	554.3	437.5	357.8	310.7	282.6	269.9	258.1	256.3	254.5
17.5°	767.2	685.7	529.0	401.2	322.4	279.9	255.4	245.5	236.4	235.5	233.7
20°	778.0	684.7	503.6	370.5	295.3	254.5	235.5	226.4	219.2	219.2	218.3
22.5°	788.9	682.9	479.1	341.5	271.7	235.5	219.2	209.2	203.8	203.8	202.9
25°	805.2	682.9	456.5	317.0	252.7	221.0	204.7	197.5	192.9	192.0	192.0
27.5°	824.2	688.4	436.6	295.3	236.4	206.5	193.8	186.6	181.1	179.3	180.2
30°	845.1	692.9	418.5	276.3	221.0	195.6	182.1	174.8	169.4	167.6	168.5
32.5°	865.9	698.3	402.2	259.0	205.6	185.7	172.1	163.9	158.5	157.6	157.6
35°	888.5	703.8	385.8	244.6	192.9	175.7	163.0	154.0	150.4	148.5	149.4
37.5°	911.2	712.8	370.5	231.0	183.9	166.7	154.9	145.8	143.1	142.2	142.2
40°	938.4	726.4	364.1	221.9	175.7	158.5	148.5	139.5	136.8	136.8	136.8
42.5°	961.0	737.3	358.7	211.9	169.4	151.3	142.2	135.0	133.1	132.2	133.1
45°	983.6	747.2	351.4	202.9	161.2	144.0	136.8	129.5	127.7	127.7	127.7
47.5°	1006.3	752.7	341.5	193.8	154.0	137.7	131.3	125.0	123.2	123.2	123.2
50°	1024.4	757.2	327.0	183.9	145.8	132.2	125.9	119.6	117.7	117.7	117.7
52.5°	1042.5	758.1	311.6	172.1	137.7	125.9	120.5	114.1	112.3	111.4	111.4
55°	1058.8	757.2	293.5	158.5	128.6	118.7	114.1	108.7	105.1	101.4	103.3
57.5°	1070.6	756.3	272.6	144.9	119.6	111.4	109.6	102.3	95.1	86.0	87.9
60°	1066.1	746.3	250.0	127.7	109.6	104.2	104.2	94.2	81.5	77.0	77.9
62.5°	1037.1	718.3	226.4	109.6	99.6	96.9	96.0	85.1	75.2	70.6	71.6
65°	950.1	647.6	192.0	93.3	89.7	88.8	88.8	78.8	69.7	64.3	65.2
67.5°	817.9	543.4	156.7	78.8	79.7	81.5	81.5	72.5	63.4	58.0	58.9
70°	655.8	424.8	125.0	67.9	68.8	71.6	73.4	65.2	57.1	51.6	51.6
72.5°	493.6	322.4	100.5	57.1	61.6	61.6	64.3	58.0	49.8	44.4	45.3
75°	357.8	231.0	79.7	48.0	53.4	52.5	52.5	48.9	42.6	38.9	38.9
77.5°	169.4	121.4	63.4	34.4	41.7	40.8	41.7	38.9	36.2	32.6	33.5
80°	83.3	59.8	40.8	24.5	29.0	29.9	32.6	30.8	29.9	27.2	27.2
82.5°	39.9	23.5	19.0	17.2	19.9	20.8	22.6	22.6	23.5	21.7	21.7
85°	10.9	6.3	8.2	10.9	12.7	13.6	15.4	16.3	16.3	15.4	16.3
87.5°	2.7	2.7	3.6	5.4	6.3	7.2	8.2	8.2	3.6	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)