

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: P799736

Luminaire Tested: **ARCH2-50-722-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799736
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: ARCH2-50-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

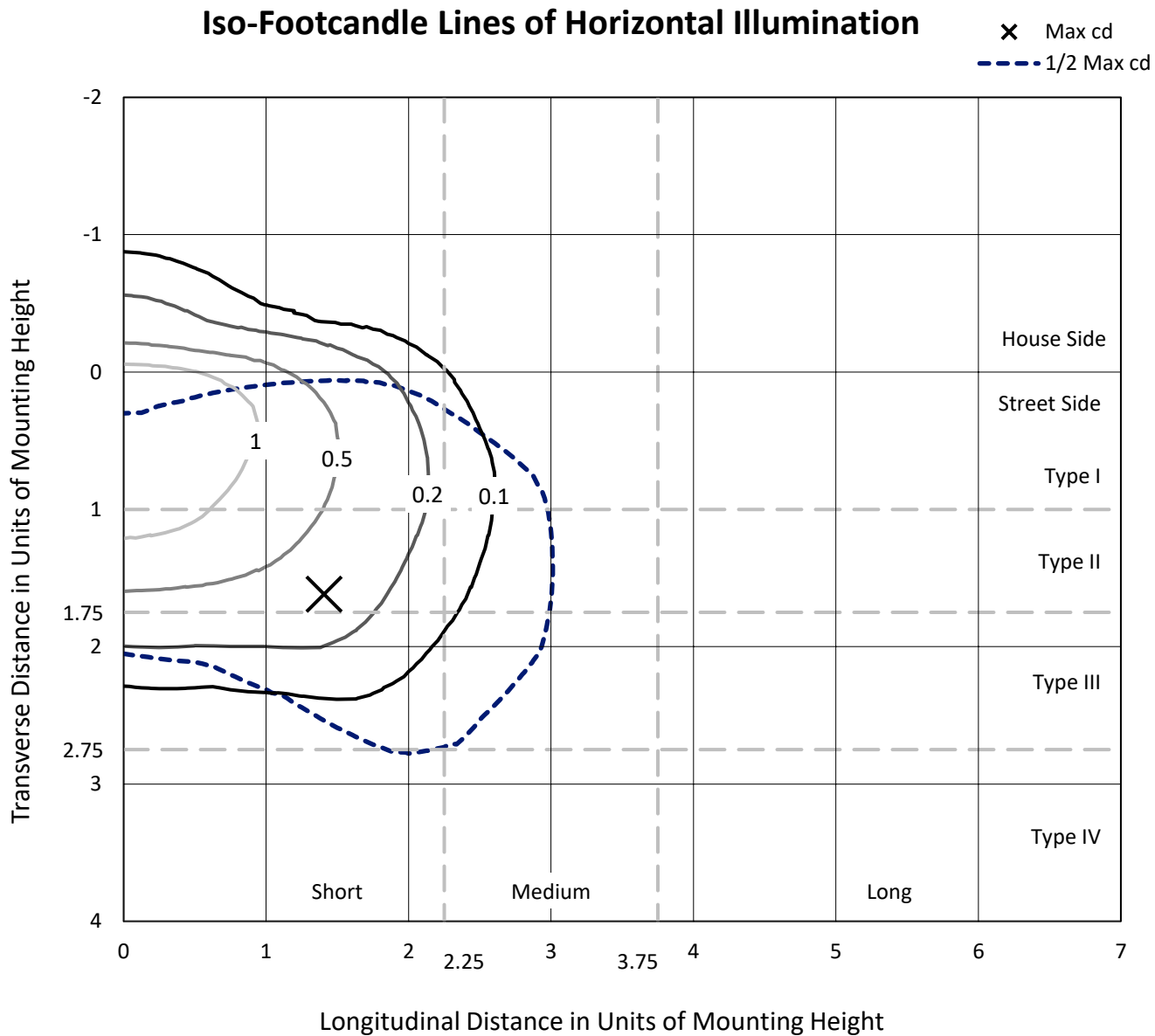
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4664 lumens
Efficiency: N/A
Efficacy: 86.4 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): 54
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

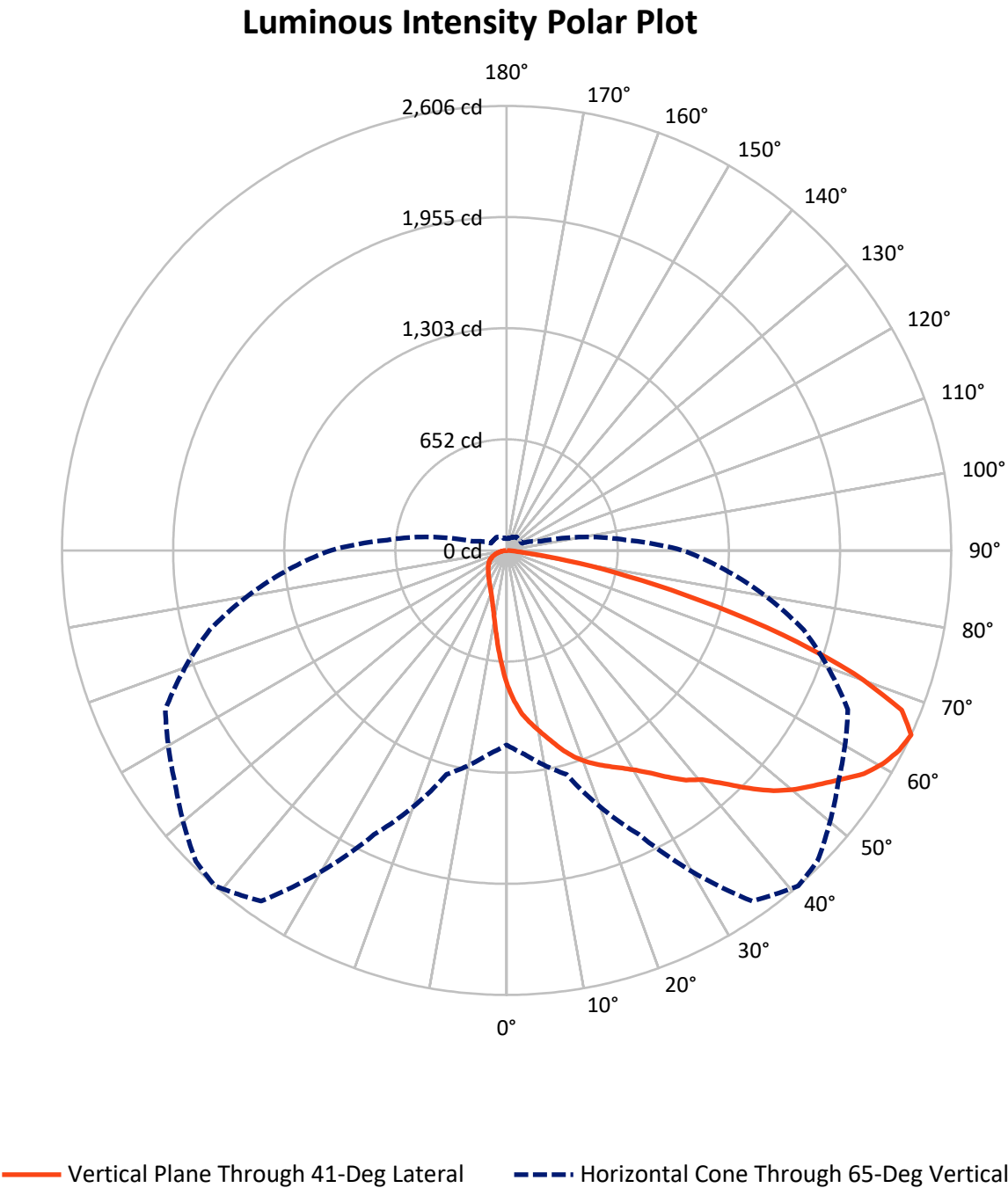


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Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type III - Short - N/A

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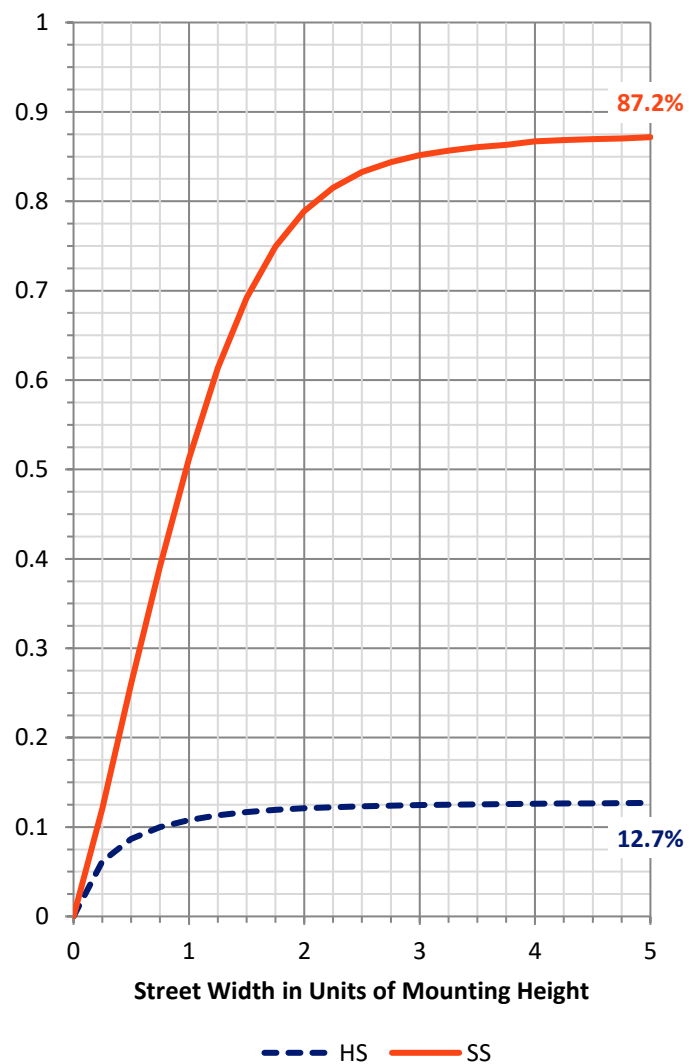
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	598.8	0.0	598.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4065.2	0.0	4065.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	4664.0	0.0	4664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	1.6
10°-20°	222.0	4.8
20°-30°	382.0	8.2
30°-40°	579.3	12.4
40°-50°	848.7	18.2
50°-60°	1071.8	23.0
60°-70°	1005.0	21.5
70°-80°	447.9	9.6
80°-90°	33.2	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°	4664.0	100.0
0°-180°	4664.0	100.0

Coefficient of Utilization



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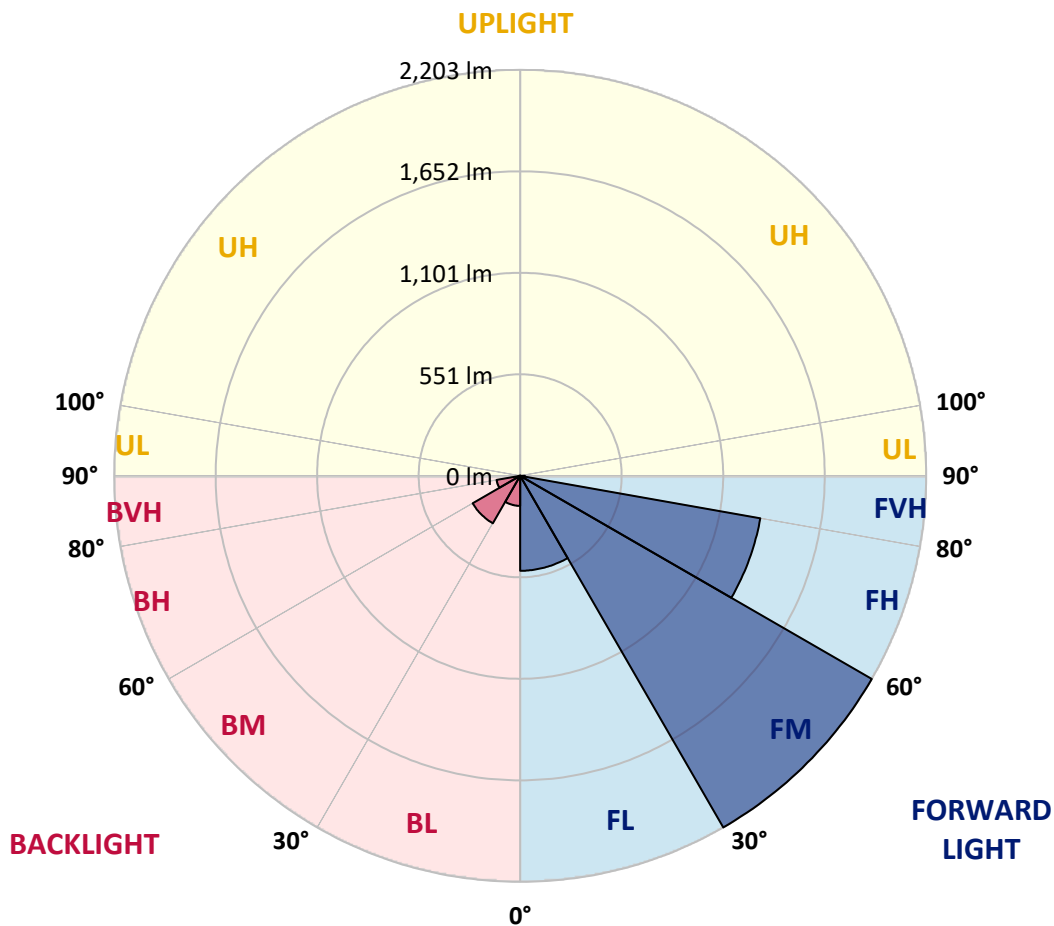
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	515.1	11.0			
FM	(30°-60°)	2202.5	47.2			
FH	(60°-80°)	1322.8	28.4			G1/1800
FVH	(80°-90°)	24.8	0.5			G1/100
BL	(0°-30°)	163.0	3.5	B1/500		
BM	(30°-60°)	297.3	6.4	B1/1000		
BH	(60°-80°)	130.1	2.8	B1/500		G1/500
BVH	(80°-90°)	8.4	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°	794.7	794.7	794.7	794.7	794.7	794.7	794.7	794.7	794.7	794.7	794.7
2.5°	916.7	913.7	911.8	900.9	900.9	886.2	887.2	873.4	856.7	830.1	801.6
5°	1003.2	999.3	994.4	983.6	979.6	964.9	962.9	943.2	914.7	868.5	817.3
7.5°	1079.0	1075.0	1068.2	1052.4	1041.6	1023.9	1019.0	993.4	961.9	904.9	833.1
10°	1147.8	1144.9	1136.0	1116.3	1101.6	1080.0	1071.1	1036.7	997.3	934.4	845.9
12.5°	1217.7	1213.7	1201.9	1185.2	1167.5	1141.9	1131.1	1086.8	1036.7	966.8	864.6
15°	1282.6	1276.7	1267.8	1250.1	1234.4	1209.8	1198.0	1145.9	1084.9	1003.2	889.1
17.5°	1324.9	1319.9	1312.1	1302.2	1289.5	1270.8	1259.0	1207.8	1133.1	1038.6	914.7
20°	1350.4	1348.5	1345.5	1339.6	1333.7	1320.9	1312.1	1263.9	1185.2	1073.1	939.3
22.5°	1370.1	1368.1	1367.2	1367.2	1368.1	1363.2	1357.3	1316.0	1235.4	1109.5	961.9
25°	1400.6	1399.6	1397.6	1395.7	1402.6	1403.5	1401.6	1373.1	1298.3	1157.7	990.5
27.5°	1442.9	1439.9	1436.0	1434.0	1440.9	1445.8	1449.8	1430.1	1365.2	1206.8	1022.9
30°	1507.8	1499.0	1489.1	1482.2	1487.2	1495.0	1503.9	1492.1	1434.0	1267.8	1056.3
32.5°	1584.5	1573.7	1551.1	1538.3	1551.1	1557.0	1563.9	1558.0	1505.8	1333.7	1089.8
35°	1678.0	1665.2	1641.6	1622.9	1645.5	1632.7	1629.8	1623.9	1573.7	1398.6	1127.2
37.5°	1833.4	1814.7	1777.3	1736.0	1736.0	1708.5	1697.6	1679.9	1634.7	1456.7	1163.6
40°	2013.4	1988.8	1940.6	1879.6	1823.5	1766.5	1759.6	1746.8	1706.5	1523.5	1204.9
42.5°	2211.1	2163.8	2097.0	2023.2	1932.7	1867.8	1852.1	1815.7	1776.3	1591.4	1246.2
45°	2430.4	2332.0	2234.7	2197.3	2047.8	1988.8	1959.3	1893.4	1849.1	1662.2	1289.5
47.5°	2465.8	2389.1	2324.2	2318.3	2155.0	2105.8	2072.4	1978.0	1927.8	1738.0	1334.7
50°	2446.1	2399.9	2406.8	2383.2	2233.7	2201.2	2175.6	2068.4	2005.5	1810.7	1376.0
52.5°	2363.5	2389.1	2428.4	2385.1	2308.4	2281.9	2269.1	2165.8	2078.3	1877.6	1413.4
55°	2265.2	2282.9	2367.4	2420.6	2395.0	2371.4	2359.6	2278.9	2150.1	1933.7	1447.8
57.5°	2121.6	2113.7	2207.1	2414.7	2485.5	2471.7	2458.9	2390.1	2217.0	1974.0	1469.4
60°	1906.2	1889.4	2007.5	2296.6	2515.0	2536.6	2530.7	2463.8	2268.1	1973.0	1460.6
62.5°	1533.4	1574.7	1738.0	2103.8	2527.8	2582.8	2572.0	2469.7	2284.8	1916.0	1404.5
65°	1140.0	1199.0	1359.3	1838.3	2510.1	2606.4	2576.9	2373.3	2207.1	1802.9	1281.6
67.5°	821.3	873.4	990.5	1512.7	2339.9	2498.3	2463.8	2216.0	2028.1	1642.6	1111.4
70°	561.6	599.0	678.7	1101.6	1997.6	2159.9	2138.3	1980.9	1745.8	1451.7	902.9
72.5°	396.4	412.1	463.3	726.9	1517.6	1694.7	1669.1	1629.8	1402.6	1206.8	702.3
75°	297.0	306.9	334.4	470.1	1023.9	1174.4	1150.8	1173.4	1047.5	913.7	511.5
77.5°	112.1	122.0	189.8	300.0	605.9	721.0	697.3	711.1	582.3	461.3	254.7
80°	30.5	32.5	62.9	142.6	275.4	359.0	326.5	280.3	216.4	212.5	134.7
82.5°	12.8	14.8	28.5	76.7	98.4	98.4	82.6	102.3	82.6	99.3	64.9
85°	4.9	5.9	6.9	19.7	12.8	13.8	14.8	19.7	16.7	20.7	14.8
87.5°	0.0	0.0	0.0	1.0	1.0	2.0	1.0	2.0	3.0	3.0	3.0
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°	794.7	794.7	794.7	794.7	794.7	794.7	794.7	794.7	794.7	794.7	794.7
2.5°	789.8	779.0	763.2	737.7	711.1	696.4	677.7	674.7	655.1	653.1	645.2
5°	794.7	772.1	731.8	682.6	634.4	597.0	569.5	554.7	526.2	526.2	518.3
7.5°	798.7	763.2	698.3	625.5	559.6	509.5	472.1	456.4	430.8	428.8	422.9
10°	799.6	752.4	661.9	567.5	486.9	435.7	399.3	381.6	359.0	357.0	353.1
12.5°	807.5	746.5	629.5	517.4	434.7	379.7	344.2	329.5	311.8	309.8	305.9
15°	820.3	746.5	601.9	475.1	388.5	337.4	306.9	293.1	280.3	278.3	276.4
17.5°	833.1	744.6	574.4	435.7	350.1	303.9	277.4	266.5	256.7	255.7	253.8
20°	844.9	743.6	546.9	402.3	320.6	276.4	255.7	245.9	238.0	238.0	237.0
22.5°	856.7	741.6	520.3	370.8	295.1	255.7	238.0	227.2	221.3	221.3	220.3
25°	874.4	741.6	495.7	344.2	274.4	240.0	222.3	214.4	209.5	208.5	208.5
27.5°	895.0	747.5	474.1	320.6	256.7	224.3	210.5	202.6	196.7	194.7	195.7
30°	917.7	752.4	454.4	300.0	240.0	212.5	197.7	189.8	183.9	182.0	182.9
32.5°	940.3	758.3	436.7	281.3	223.3	201.6	186.9	178.0	172.1	171.1	171.1
35°	964.9	764.2	419.0	265.6	209.5	190.8	177.0	167.2	163.3	161.3	162.3
37.5°	989.5	774.1	402.3	250.8	199.7	181.0	168.2	158.4	155.4	154.4	154.4
40°	1019.0	788.8	395.4	241.0	190.8	172.1	161.3	151.5	148.5	148.5	148.5
42.5°	1043.6	800.6	389.5	230.2	183.9	164.3	154.4	146.6	144.6	143.6	144.6
45°	1068.2	811.4	381.6	220.3	175.1	156.4	148.5	140.6	138.7	138.7	138.7
47.5°	1092.7	817.3	370.8	210.5	167.2	149.5	142.6	135.7	133.8	133.8	133.8
50°	1112.4	822.3	355.1	199.7	158.4	143.6	136.7	129.8	127.9	127.9	127.9
52.5°	1132.1	823.2	338.3	186.9	149.5	136.7	130.8	123.9	122.0	121.0	121.0
55°	1149.8	822.3	318.7	172.1	139.7	128.8	123.9	118.0	114.1	110.2	112.1
57.5°	1162.6	821.3	296.1	157.4	129.8	121.0	119.0	111.1	103.3	93.4	95.4
60°	1157.7	810.5	271.5	138.7	119.0	113.1	113.1	102.3	88.5	83.6	84.6
62.5°	1126.2	780.0	245.9	119.0	108.2	105.2	104.3	92.5	81.6	76.7	77.7
65°	1031.8	703.2	208.5	101.3	97.4	96.4	96.4	85.6	75.7	69.8	70.8
67.5°	888.2	590.1	170.2	85.6	86.6	88.5	88.5	78.7	68.8	62.9	63.9
70°	712.1	461.3	135.7	73.8	74.8	77.7	79.7	70.8	62.0	56.1	56.1
72.5°	536.0	350.1	109.2	62.0	66.9	66.9	69.8	62.9	54.1	48.2	49.2
75°	388.5	250.8	86.6	52.1	58.0	57.0	57.0	53.1	46.2	42.3	42.3
77.5°	183.9	131.8	68.8	37.4	45.2	44.3	45.2	42.3	39.3	35.4	36.4
80°	90.5	64.9	44.3	26.6	31.5	32.5	35.4	33.4	32.5	29.5	29.5
82.5°	43.3	25.6	20.7	18.7	21.6	22.6	24.6	24.6	25.6	23.6	23.6
85°	11.8	6.9	8.9	11.8	13.8	14.8	16.7	17.7	17.7	16.7	17.7
87.5°	3.0	3.0	3.9	5.9	6.9	7.9	8.9	8.9	3.9	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)