

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: P799160

Luminaire Tested: **ARCH1-60-740-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799160
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: ARCH1-60-740-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

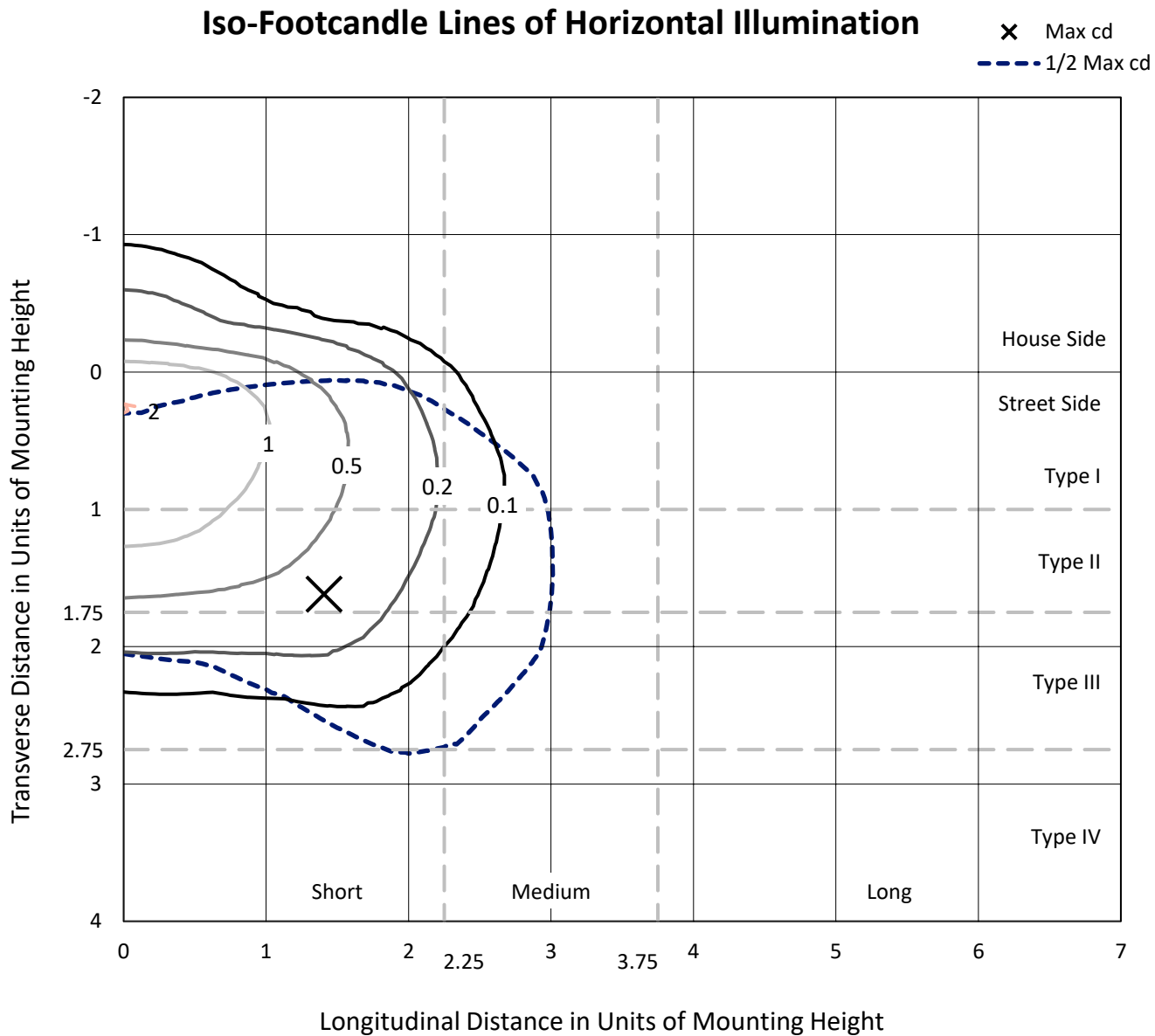
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5140 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 60
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



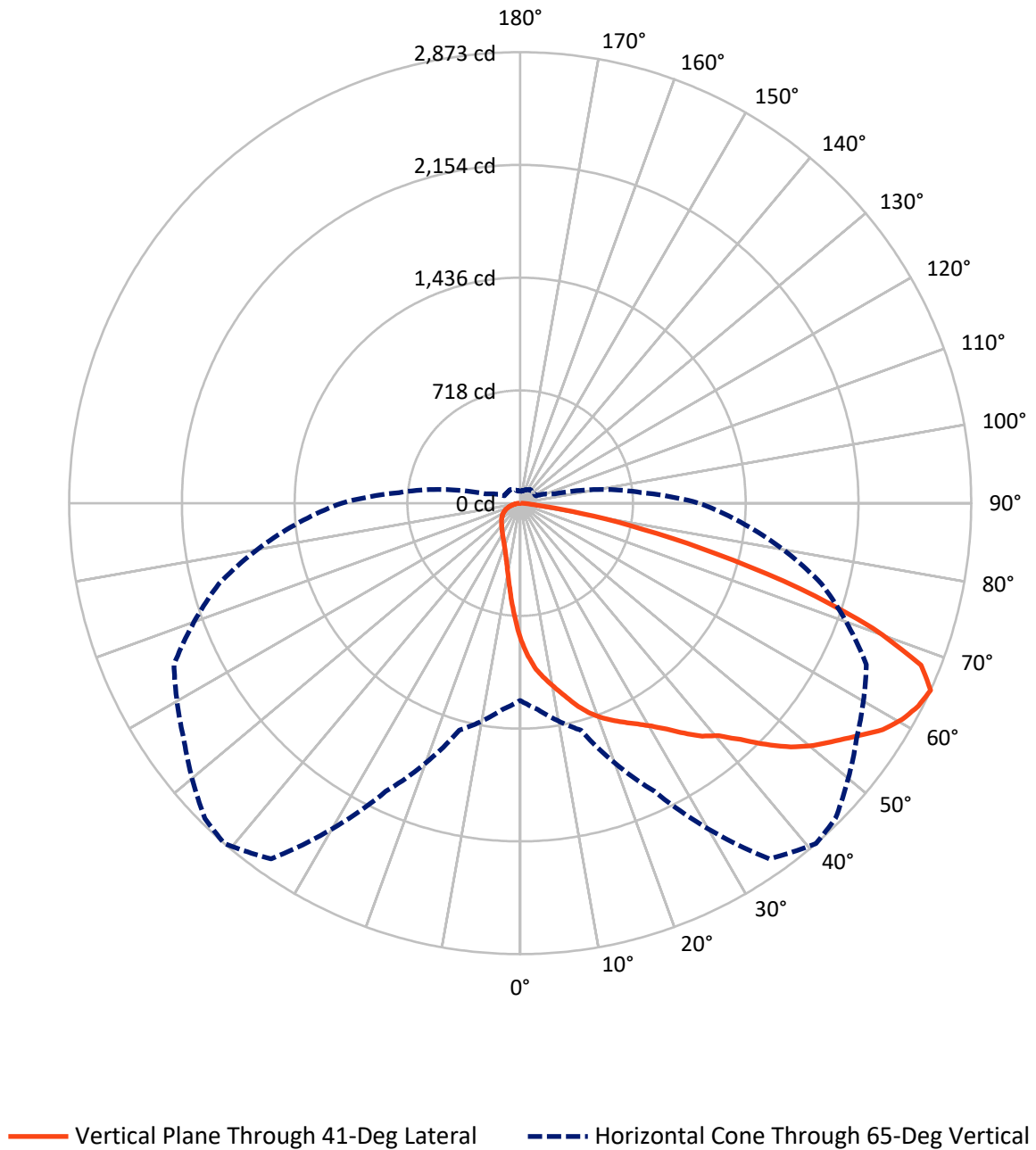
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Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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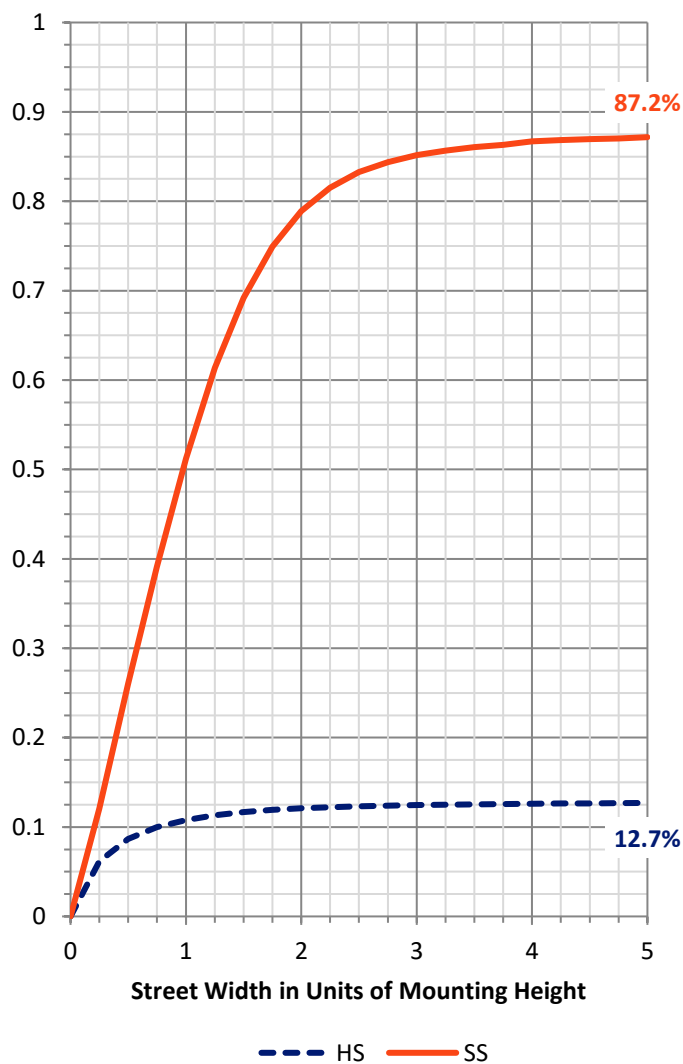
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	659.9	0.0	659.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4480.1	0.0	4480.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	5140.0	0.0	5140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	1.6
10°-20°	244.7	4.8
20°-30°	421.0	8.2
30°-40°	638.5	12.4
40°-50°	935.4	18.2
50°-60°	1181.2	23.0
60°-70°	1107.6	21.5
70°-80°	493.6	9.6
80°-90°	36.6	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°	5140.0	100.0
0°-180°	5140.0	100.0

Coefficient of Utilization



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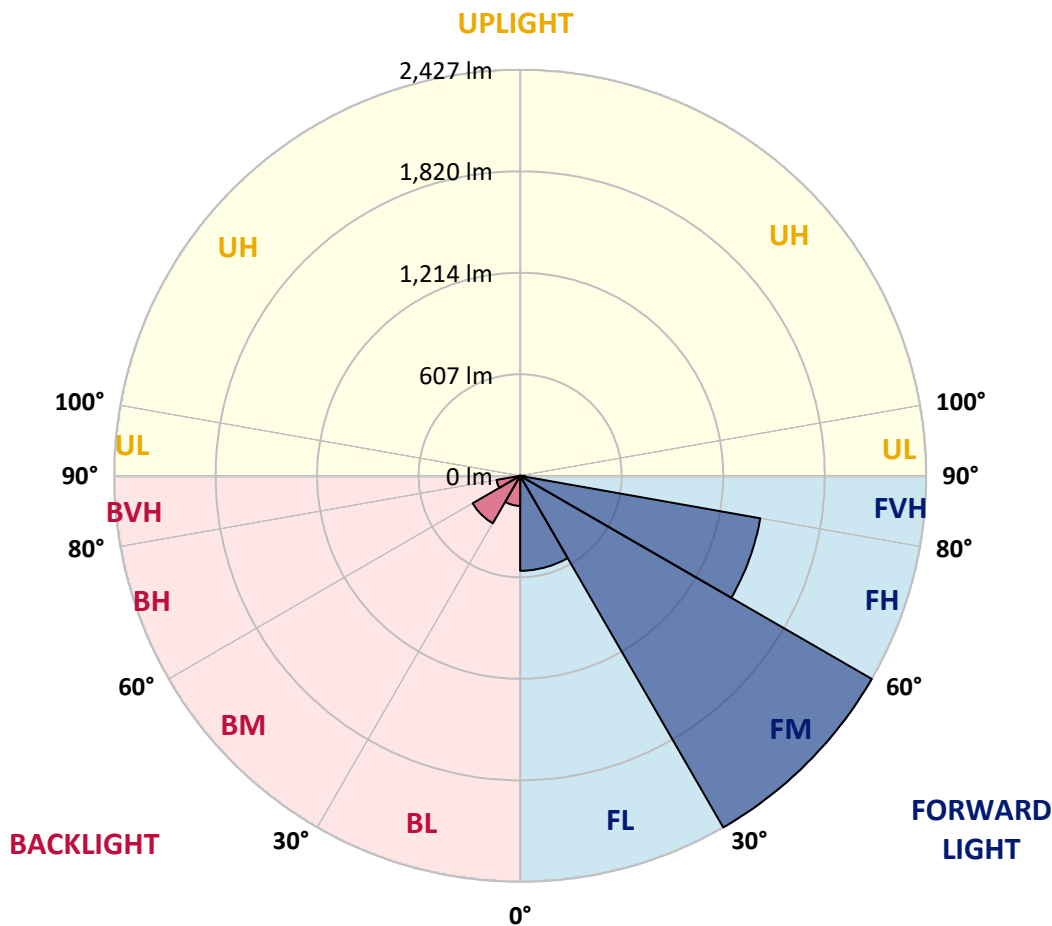
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	567.6	11.0			
FM	(30°-60°)	2427.3	47.2			
FH	(60°-80°)	1457.8	28.4			G1/1800
FVH	(80°-90°)	27.3	0.5			G1/100
BL	(0°-30°)	179.6	3.5	B1/500		
BM	(30°-60°)	327.7	6.4	B1/1000		
BH	(60°-80°)	143.4	2.8	B1/500		G1/500
BVH	(80°-90°)	9.3	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°	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8
2.5°	1010.2	1007.0	1004.8	992.9	992.9	976.6	977.7	962.5	944.1	914.9	883.4
5°	1105.6	1101.3	1095.9	1083.9	1079.6	1063.4	1061.2	1039.5	1008.1	957.1	900.8
7.5°	1189.1	1184.8	1177.2	1159.8	1147.9	1128.4	1123.0	1094.8	1060.1	997.2	918.1
10°	1265.0	1261.7	1252.0	1230.3	1214.0	1190.2	1180.4	1142.5	1099.1	1029.7	932.2
12.5°	1341.9	1337.6	1324.6	1306.2	1286.6	1258.5	1246.5	1197.8	1142.5	1065.5	952.8
15°	1413.5	1407.0	1397.2	1377.7	1360.4	1333.3	1320.2	1262.8	1195.6	1105.6	979.9
17.5°	1460.1	1454.7	1446.0	1435.1	1421.1	1400.5	1387.5	1331.1	1248.7	1144.6	1008.1
20°	1488.3	1486.1	1482.8	1476.3	1469.8	1455.7	1446.0	1392.9	1306.2	1182.6	1035.2
22.5°	1509.9	1507.8	1506.7	1506.7	1507.8	1502.4	1495.8	1450.3	1361.4	1222.7	1060.1
25°	1543.5	1542.5	1540.3	1538.1	1545.7	1546.8	1544.6	1513.2	1430.8	1275.8	1091.5
27.5°	1590.2	1586.9	1582.6	1580.4	1588.0	1593.4	1597.7	1576.1	1504.5	1330.0	1127.3
30°	1661.7	1651.9	1641.1	1633.5	1638.9	1647.6	1657.4	1644.3	1580.4	1397.2	1164.2
32.5°	1746.2	1734.3	1709.4	1695.3	1709.4	1715.9	1723.5	1717.0	1659.5	1469.8	1201.0
35°	1849.2	1835.1	1809.1	1788.5	1813.4	1799.4	1796.1	1789.6	1734.3	1541.4	1242.2
37.5°	2020.5	1999.9	1958.7	1913.2	1913.2	1882.8	1870.9	1851.4	1801.5	1605.3	1282.3
40°	2218.8	2191.7	2138.6	2071.4	2009.6	1946.8	1939.2	1925.1	1880.6	1679.0	1327.8
42.5°	2436.7	2384.7	2311.0	2229.7	2130.0	2058.4	2041.1	2001.0	1957.6	1753.8	1373.4
45°	2678.4	2570.0	2462.7	2421.5	2256.8	2191.7	2159.2	2086.6	2037.8	1831.9	1421.1
47.5°	2717.5	2632.9	2561.4	2554.9	2374.9	2320.7	2283.9	2179.8	2124.5	1915.3	1470.9
50°	2695.8	2644.8	2652.4	2626.4	2461.6	2425.9	2397.7	2279.5	2210.2	1995.5	1516.4
52.5°	2604.7	2632.9	2676.3	2628.6	2544.0	2514.8	2500.7	2386.9	2290.4	2069.3	1557.6
55°	2496.3	2515.8	2609.1	2667.6	2639.4	2613.4	2600.4	2511.5	2369.5	2131.0	1595.6
57.5°	2338.1	2329.4	2432.4	2661.1	2739.1	2724.0	2709.9	2634.0	2443.2	2175.5	1619.4
60°	2100.7	2082.3	2212.3	2531.0	2771.7	2795.5	2789.0	2715.3	2499.6	2174.4	1609.7
62.5°	1689.9	1735.4	1915.3	2318.6	2785.7	2846.4	2834.5	2721.8	2518.0	2111.5	1547.9
65°	1256.3	1321.3	1498.0	2025.9	2766.2	2872.5	2839.9	2615.6	2432.4	1986.9	1412.4
67.5°	905.1	962.5	1091.5	1667.1	2578.7	2753.2	2715.3	2442.1	2235.1	1810.2	1224.9
70°	618.9	660.1	747.9	1214.0	2201.5	2380.3	2356.5	2183.1	1924.0	1599.9	995.1
72.5°	436.8	454.2	510.5	801.0	1672.5	1867.6	1839.5	1796.1	1545.7	1330.0	773.9
75°	327.4	338.2	368.5	518.1	1128.4	1294.2	1268.2	1293.1	1154.4	1007.0	563.7
77.5°	123.6	134.4	209.2	330.6	667.7	794.5	768.5	783.7	641.7	508.4	280.7
80°	33.6	35.8	69.4	157.2	303.5	395.6	359.9	308.9	238.5	234.1	148.5
82.5°	14.1	16.3	31.4	84.5	108.4	108.4	91.1	112.7	91.1	109.5	71.5
85°	5.4	6.5	7.6	21.7	14.1	15.2	16.3	21.7	18.4	22.8	16.3
87.5°	0.0	0.0	0.0	1.1	1.1	2.2	1.1	2.2	3.3	3.3	3.3
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°	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8
2.5°	870.4	858.5	841.1	813.0	783.7	767.4	746.8	743.6	721.9	719.7	711.1
5°	875.8	850.9	806.5	752.3	699.1	658.0	627.6	611.3	579.9	579.9	571.2
7.5°	880.2	841.1	769.6	689.4	616.8	561.5	520.3	503.0	474.8	472.6	466.1
10°	881.2	829.2	729.5	625.4	536.6	480.2	440.1	420.6	395.6	393.5	389.1
12.5°	889.9	822.7	693.7	570.2	479.1	418.4	379.4	363.1	343.6	341.4	337.1
15°	904.0	822.7	663.4	523.5	428.2	371.8	338.2	323.0	308.9	306.8	304.6
17.5°	918.1	820.5	633.0	480.2	385.9	334.9	305.7	293.7	282.9	281.8	279.7
20°	931.1	819.5	602.7	443.3	353.4	304.6	281.8	271.0	262.3	262.3	261.2
22.5°	944.1	817.3	573.4	408.6	325.2	281.8	262.3	250.4	243.9	243.9	242.8
25°	963.6	817.3	546.3	379.4	302.4	264.5	245.0	236.3	230.9	229.8	229.8
27.5°	986.4	823.8	522.5	353.4	282.9	247.1	232.0	223.3	216.8	214.6	215.7
30°	1011.3	829.2	500.8	330.6	264.5	234.1	217.9	209.2	202.7	200.5	201.6
32.5°	1036.3	835.7	481.3	310.0	246.1	222.2	205.9	196.2	189.7	188.6	188.6
35°	1063.4	842.2	461.8	292.7	230.9	210.3	195.1	184.3	179.9	177.8	178.9
37.5°	1090.5	853.1	443.3	276.4	220.0	199.4	185.4	174.5	171.3	170.2	170.2
40°	1123.0	869.3	435.7	265.6	210.3	189.7	177.8	166.9	163.7	163.7	163.7
42.5°	1150.1	882.3	429.2	253.6	202.7	181.0	170.2	161.5	159.3	158.3	159.3
45°	1177.2	894.3	420.6	242.8	192.9	172.3	163.7	155.0	152.8	152.8	152.8
47.5°	1204.3	900.8	408.6	232.0	184.3	164.8	157.2	149.6	147.4	147.4	147.4
50°	1225.9	906.2	391.3	220.0	174.5	158.3	150.7	143.1	140.9	140.9	140.9
52.5°	1247.6	907.3	372.9	205.9	164.8	150.7	144.2	136.6	134.4	133.3	133.3
55°	1267.1	906.2	351.2	189.7	153.9	142.0	136.6	130.1	125.7	121.4	123.6
57.5°	1281.2	905.1	326.3	173.4	143.1	133.3	131.2	122.5	113.8	103.0	105.1
60°	1275.8	893.2	299.2	152.8	131.2	124.7	124.7	112.7	97.6	92.1	93.2
62.5°	1241.1	859.6	271.0	131.2	119.2	116.0	114.9	101.9	90.0	84.5	85.6
65°	1137.1	775.0	229.8	111.6	107.3	106.2	106.2	94.3	83.5	77.0	78.0
67.5°	978.8	650.4	187.5	94.3	95.4	97.6	97.6	86.7	75.9	69.4	70.5
70°	784.8	508.4	149.6	81.3	82.4	85.6	87.8	78.0	68.3	61.8	61.8
72.5°	590.8	385.9	120.3	68.3	73.7	73.7	77.0	69.4	59.6	53.1	54.2
75°	428.2	276.4	95.4	57.4	64.0	62.9	62.9	58.5	50.9	46.6	46.6
77.5°	202.7	145.2	75.9	41.2	49.9	48.8	49.9	46.6	43.4	39.0	40.1
80°	99.7	71.5	48.8	29.3	34.7	35.8	39.0	36.9	35.8	32.5	32.5
82.5°	47.7	28.2	22.8	20.6	23.8	24.9	27.1	27.1	28.2	26.0	26.0
85°	13.0	7.6	9.8	13.0	15.2	16.3	18.4	19.5	19.5	18.4	19.5
87.5°	3.3	3.3	4.3	6.5	7.6	8.7	9.8	9.8	4.3	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)