

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: P963649

Luminaire Tested: **NVN-SB3A-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3A-827-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9240.4 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.7
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

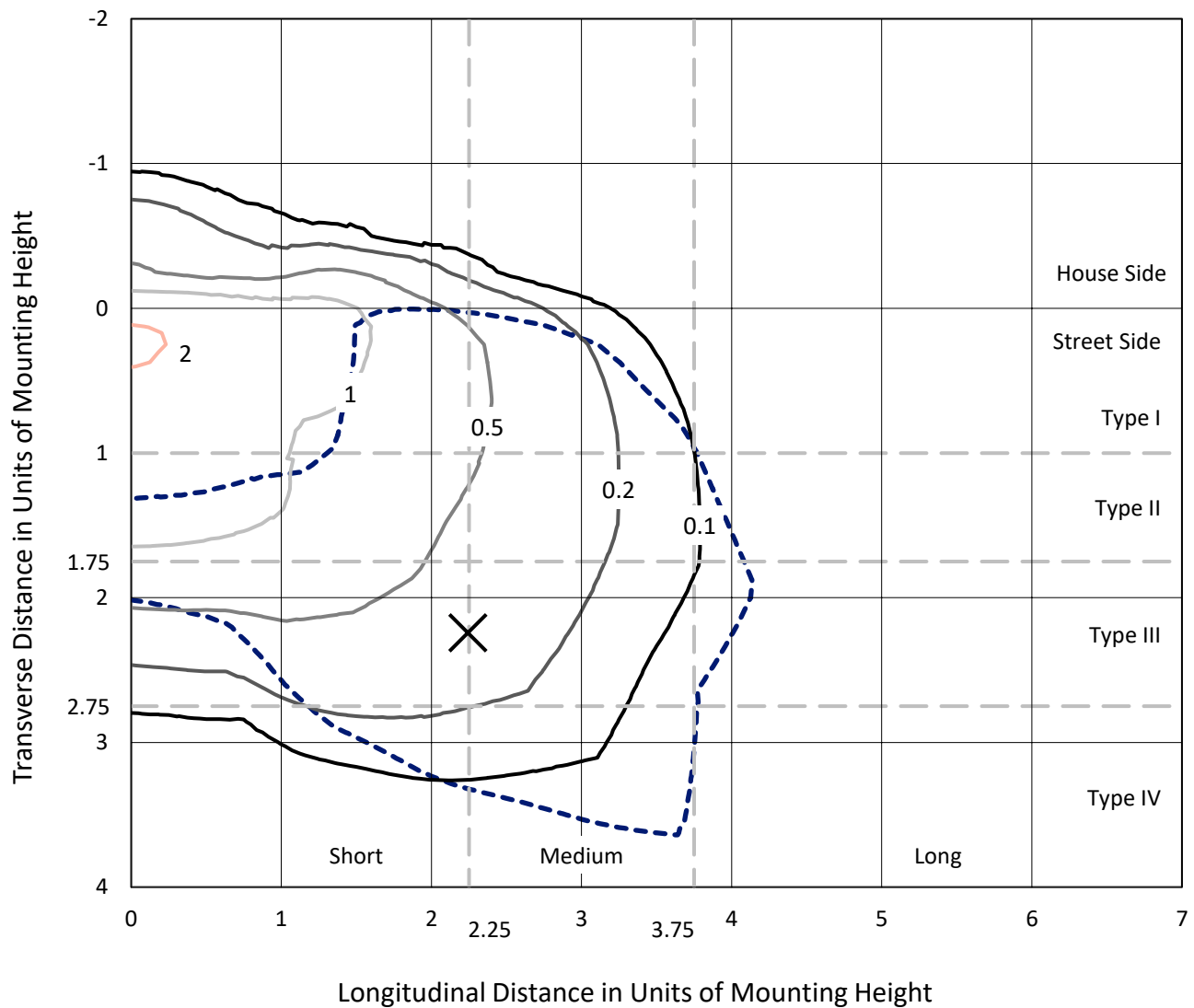


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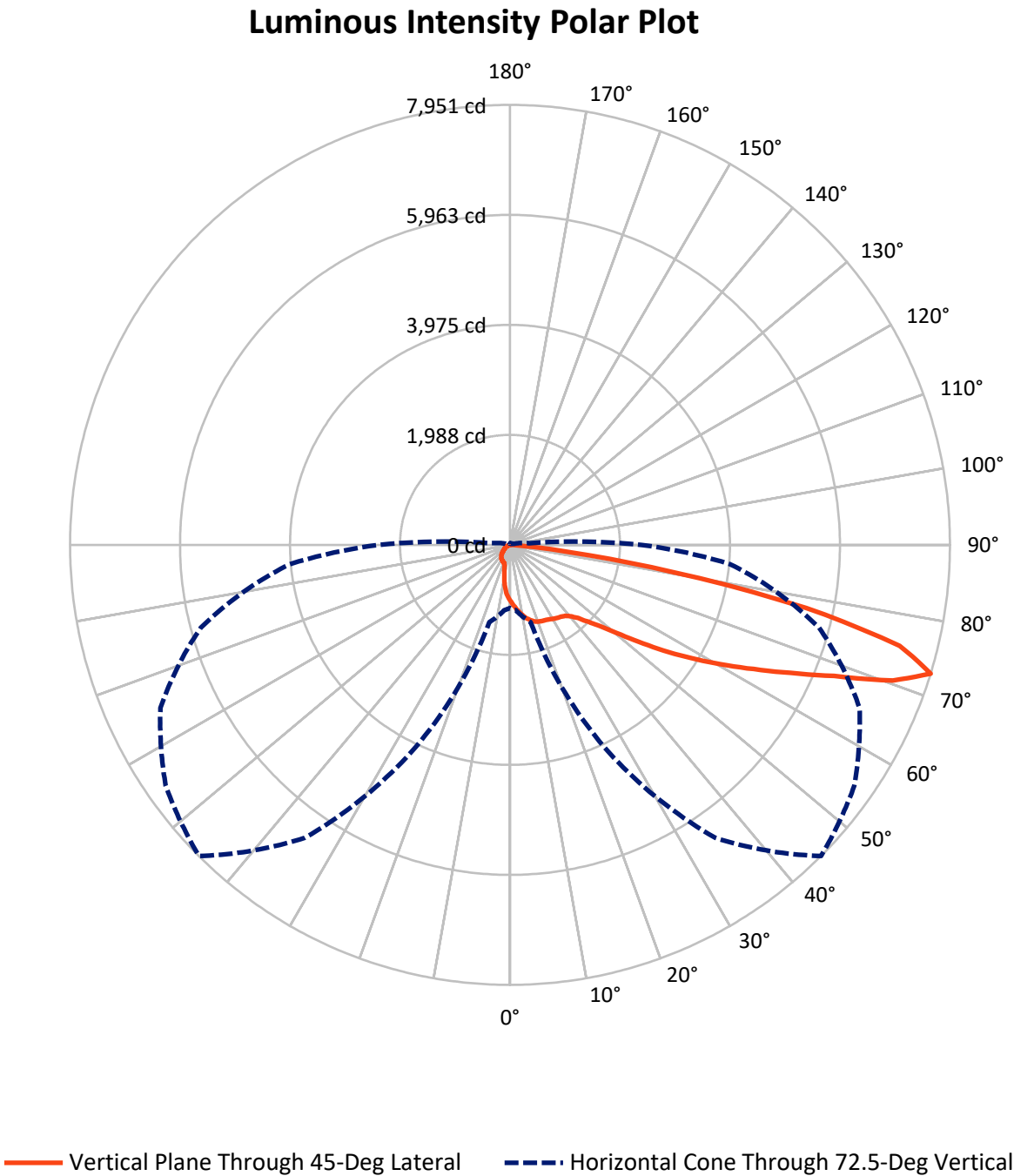
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type IV - Short - N/A

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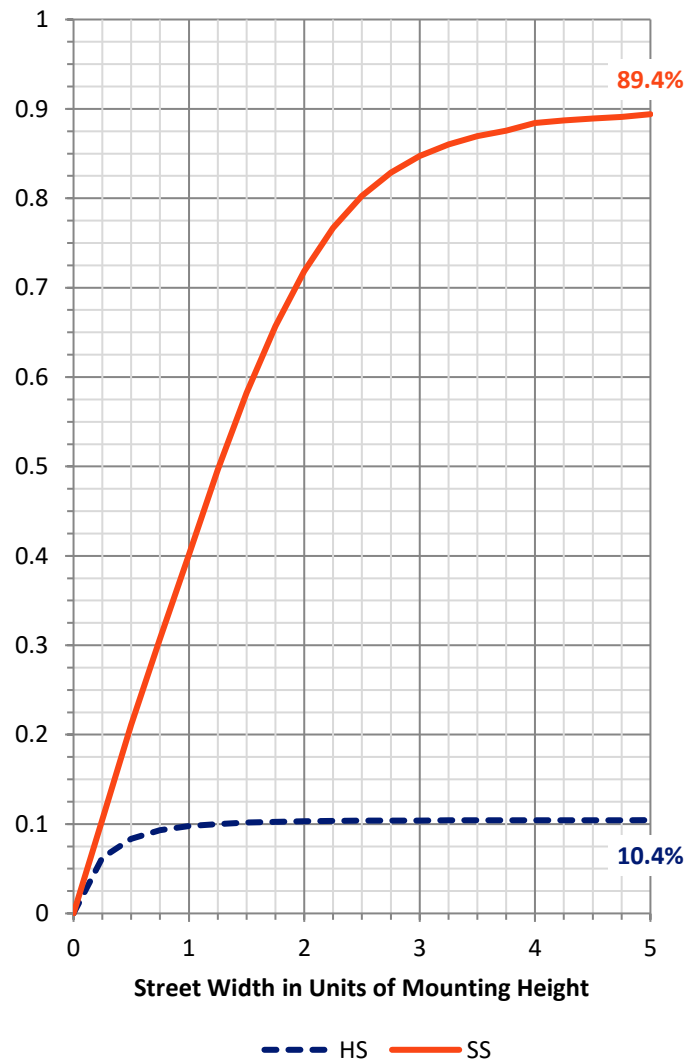
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	970.9	0.0	970.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	8269.5	0.0	8269.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	9240.4	0.0	9240.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	1.0
10°-20°	278.8	3.0
20°-30°	457.8	5.0
30°-40°	649.2	7.0
40°-50°	1073.1	11.6
50°-60°	1927.6	20.9
60°-70°	2676.6	29.0
70°-80°	1941.5	21.0
80°-90°	140.4	1.5
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°	9240.4	100.0
0°-180°	9240.4	100.0

Coefficient of Utilization



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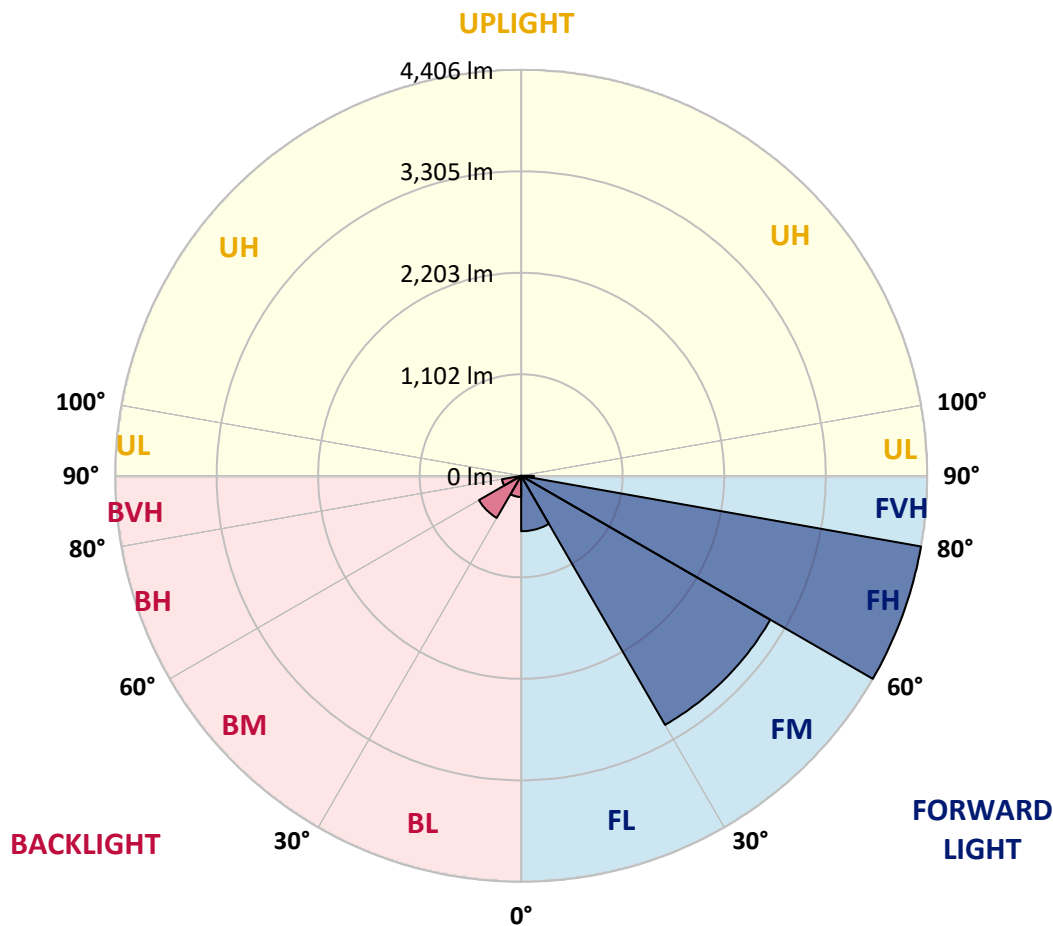
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.9	6.5			
FM	(30°-60°)	3121.9	33.8			
FH	(60°-80°)	4406.5	47.7			G2/5000
FVH	(80°-90°)	139.2	1.5			G2/225
BL	(0°-30°)	230.0	2.5	B1/500		
BM	(30°-60°)	528.0	5.7	B1/1000		
BH	(60°-80°)	211.7	2.3	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1012.3	1012.3	1012.3	1012.3	1012.3	1012.3	1012.3	1012.3	1012.3	1012.3	1012.3
2.5°	1105.7	1107.5	1106.3	1098.7	1086.1	1079.1	1075.3	1062.7	1054.5	1040.1	1024.9
5°	1207.2	1214.7	1210.3	1195.3	1171.3	1154.3	1149.1	1123.3	1099.9	1072.9	1041.3
7.5°	1315.1	1318.9	1310.7	1291.1	1258.9	1229.9	1225.5	1189.5	1152.3	1110.7	1067.8
10°	1408.4	1412.9	1400.1	1371.9	1335.3	1299.3	1292.9	1253.3	1209.1	1158.0	1103.1
12.5°	1486.6	1491.1	1474.7	1440.5	1400.1	1362.9	1356.7	1315.1	1266.5	1209.7	1141.6
15°	1545.9	1554.1	1532.0	1495.5	1451.9	1414.7	1411.5	1370.5	1323.3	1260.1	1187.7
17.5°	1580.6	1588.7	1567.9	1523.8	1486.6	1455.1	1451.3	1417.3	1373.1	1312.5	1232.5
20°	1586.3	1593.9	1571.7	1533.3	1502.3	1477.1	1475.3	1450.7	1418.5	1360.5	1280.9
22.5°	1569.3	1578.7	1558.5	1527.6	1506.1	1492.9	1490.4	1476.5	1458.3	1409.1	1326.4
25°	1551.5	1559.1	1544.0	1516.9	1505.5	1504.3	1506.1	1503.7	1499.9	1458.3	1379.3
27.5°	1550.3	1558.5	1541.5	1515.6	1509.3	1522.5	1524.5	1536.5	1539.6	1503.0	1430.5
30°	1561.1	1566.7	1550.3	1523.1	1520.1	1550.3	1550.9	1572.4	1577.5	1540.9	1480.9
32.5°	1584.3	1590.7	1574.3	1534.5	1530.1	1572.4	1574.3	1602.7	1610.9	1581.2	1533.9
35°	1639.3	1646.8	1627.9	1566.1	1550.3	1593.2	1598.9	1632.3	1648.7	1624.1	1588.7
37.5°	1776.1	1754.0	1728.2	1629.7	1596.3	1626.0	1635.5	1674.5	1703.6	1675.2	1654.4
40°	2116.0	2046.7	1966.0	1738.3	1677.1	1696.0	1703.6	1742.7	1782.4	1754.7	1744.6
42.5°	2626.4	2544.4	2414.4	1988.0	1798.8	1808.3	1813.9	1848.0	1904.1	1882.1	1884.6
45°	3081.0	3051.4	2919.0	2414.4	2026.5	1979.8	1986.8	2004.4	2087.0	2078.8	2095.2
47.5°	3430.5	3413.5	3311.3	2903.8	2411.2	2189.8	2209.4	2217.6	2336.8	2365.8	2410.0
50°	3699.1	3692.9	3601.4	3339.0	2913.9	2499.6	2506.4	2488.8	2667.4	2739.2	2823.1
52.5°	3952.7	3974.1	3906.7	3743.3	3450.7	2905.1	2903.8	2820.6	3061.5	3170.0	3313.2
55°	4181.7	4189.3	4196.1	4155.8	3990.5	3366.8	3354.8	3218.6	3518.8	3631.1	3786.2
57.5°	4396.7	4399.9	4461.7	4544.3	4552.5	3862.5	3840.5	3677.1	4018.3	4098.4	4193.7
60°	4541.2	4555.7	4686.2	4915.8	5016.1	4374.0	4362.1	4195.5	4526.7	4563.9	4546.2
62.5°	4333.1	4421.3	4750.6	5206.0	5453.8	4941.0	4935.4	4779.0	5061.6	5031.2	4879.8
65°	3507.4	3656.9	4235.9	5402.1	5883.3	5574.3	5582.5	5416.0	5610.8	5512.4	5151.0
67.5°	2453.5	2611.2	3296.1	5417.8	6363.3	6317.9	6365.2	6104.1	6194.3	5973.5	5215.4
70°	1696.7	1778.0	2223.9	5078.6	6737.3	7342.2	7340.9	6949.3	6774.5	6183.5	4887.4
72.5°	1140.9	1183.3	1444.3	4029.1	6462.3	7950.8	7914.2	7595.1	6970.1	5783.0	3993.1
75°	481.2	512.2	668.6	2264.3	5112.6	7274.1	7175.0	6712.1	6193.0	4553.8	2491.4
77.5°	152.6	165.8	263.6	810.5	2816.2	5467.7	5363.0	4191.7	4150.7	2284.4	910.7
80°	72.6	84.6	148.2	325.4	1108.1	2973.8	2959.4	1901.6	1785.6	616.8	182.9
82.5°	31.6	37.2	82.0	174.0	495.8	1060.9	1082.3	647.1	535.5	234.0	56.2
85°	10.0	13.2	37.8	80.1	209.4	263.6	260.5	153.9	215.7	127.4	19.6
87.5°	0.0	0.0	12.6	18.2	21.4	15.2	17.0	13.2	60.0	35.4	7.0
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°	1012.3	1012.3	1012.3	1012.3	1012.3	1012.3	1012.3	1012.3	1012.3	1012.3	1012.3
2.5°	1017.3	1007.3	989.6	973.2	958.7	944.2	935.3	922.7	921.5	921.5	924.7
5°	1024.3	1007.9	976.3	942.9	904.5	867.9	831.3	796.0	784.6	776.4	780.2
7.5°	1044.5	1018.6	968.8	905.1	831.9	751.8	695.7	635.1	611.8	599.2	601.1
10°	1073.5	1038.1	962.5	850.9	732.3	623.2	543.0	477.4	452.2	441.5	441.5
12.5°	1105.7	1062.1	951.1	783.3	623.2	492.6	414.4	384.1	380.3	380.3	380.3
15°	1144.1	1091.1	931.5	703.9	509.0	389.8	362.0	363.3	367.1	369.6	369.6
17.5°	1183.9	1122.1	900.7	615.0	408.1	350.7	351.3	353.2	356.4	358.9	358.9
20°	1226.7	1152.9	859.7	520.4	350.0	339.4	341.2	343.1	345.6	346.9	347.5
22.5°	1272.7	1181.9	811.1	427.6	330.5	329.8	330.5	332.4	335.6	335.6	336.8
25°	1321.9	1214.1	755.6	360.2	320.4	320.4	321.6	323.0	325.4	325.4	326.1
27.5°	1372.5	1243.7	696.9	324.8	311.6	311.0	311.0	312.8	314.1	314.8	315.4
30°	1427.9	1278.5	638.3	317.2	304.6	301.5	299.6	300.8	302.1	302.8	304.0
32.5°	1484.7	1311.9	585.9	320.4	297.7	292.0	285.7	284.4	284.4	287.0	288.8
35°	1547.7	1348.5	545.6	331.2	293.9	278.2	268.0	262.4	263.0	266.8	268.7
37.5°	1623.5	1392.7	515.9	340.6	291.4	262.4	246.0	239.0	234.6	239.0	237.8
40°	1722.5	1457.6	494.5	348.2	288.2	244.1	222.0	210.6	202.4	205.0	203.8
42.5°	1868.2	1559.7	486.3	348.8	281.3	222.6	197.4	182.2	170.3	171.0	168.4
45°	2072.5	1721.2	528.6	340.6	266.2	199.3	171.6	151.4	143.8	142.0	139.4
47.5°	2352.6	1956.5	626.3	323.6	244.1	176.6	146.4	129.3	123.6	120.4	118.6
50°	2727.8	2258.6	734.8	304.6	222.0	155.2	125.6	114.8	111.0	107.8	107.2
52.5°	3163.0	2565.2	823.7	285.7	200.0	136.2	112.2	106.0	102.8	100.2	99.6
55°	3562.3	2776.4	818.7	265.6	178.5	121.1	102.8	99.0	95.2	92.8	91.4
57.5°	3810.8	2806.0	674.9	243.4	153.9	109.2	94.0	91.4	87.0	83.8	83.2
60°	3924.9	2637.0	473.0	214.4	129.3	97.8	84.6	83.2	77.6	73.2	71.9
62.5°	3945.7	2323.0	315.4	178.5	107.8	87.0	75.0	73.2	65.6	58.0	54.2
65°	3861.3	1873.9	218.2	139.4	92.0	75.6	64.4	60.6	52.4	44.8	42.2
67.5°	3593.9	1315.7	152.0	100.2	78.2	60.0	51.0	49.8	43.6	37.2	35.4
70°	3103.8	749.9	101.6	75.0	61.8	41.0	40.4	41.6	35.4	30.2	27.8
72.5°	2379.7	343.1	63.0	54.8	42.2	27.8	32.2	32.8	27.2	22.8	20.2
75°	1400.9	147.0	39.8	35.4	21.4	18.2	23.4	24.0	18.2	14.6	12.6
77.5°	476.8	55.5	25.2	20.8	10.8	10.0	15.2	15.2	10.0	5.6	4.4
80°	108.4	20.8	12.6	8.2	5.0	4.4	5.0	4.4	2.6	0.6	0.0
82.5°	31.0	8.2	5.0	3.2	1.8	1.8	0.6	0.0	0.0	0.0	0.0
85°	8.8	3.8	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	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)