

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: P961055

Luminaire Tested: **NVN-SB1D-835-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-835-U-SL3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7793.1 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

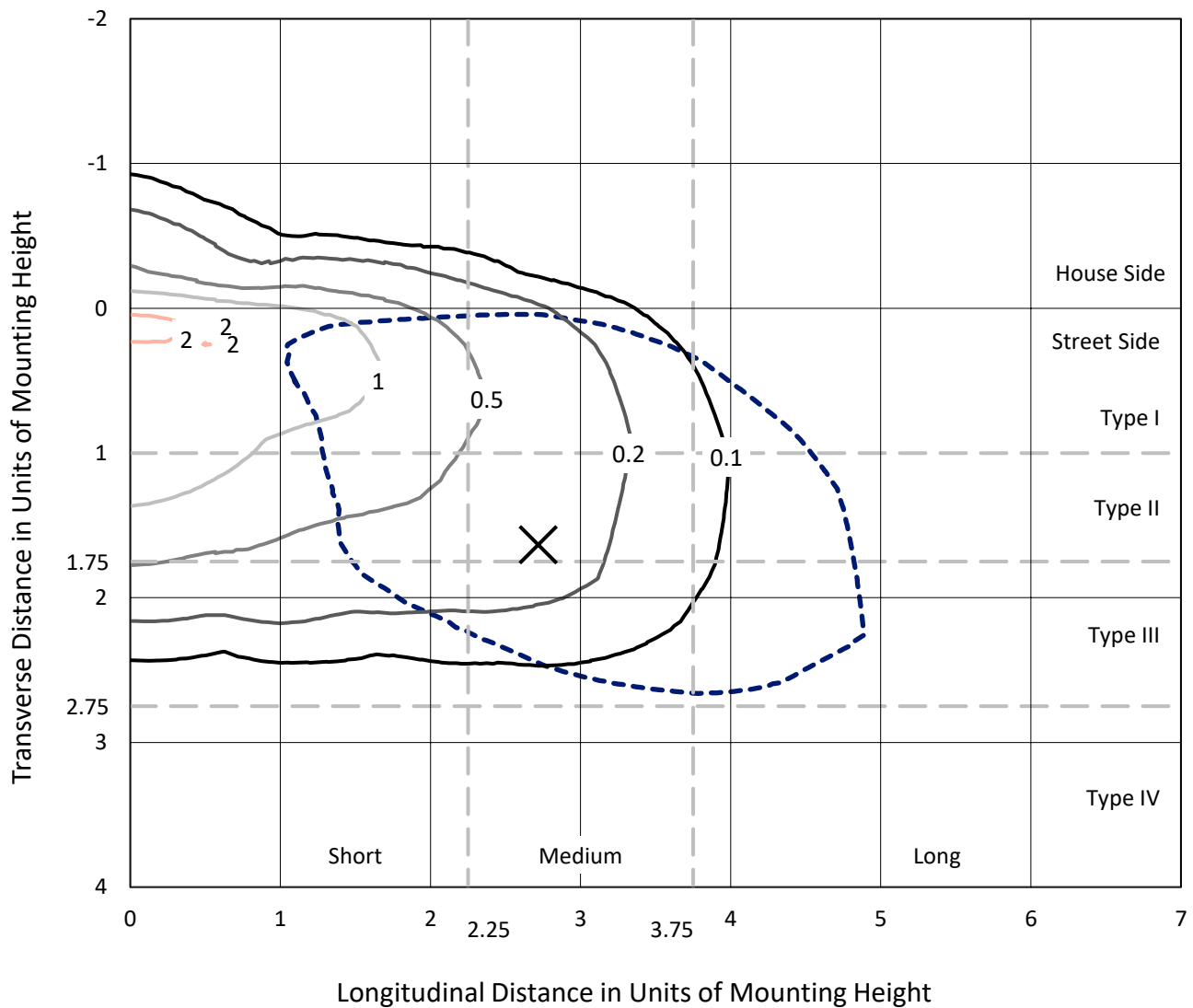
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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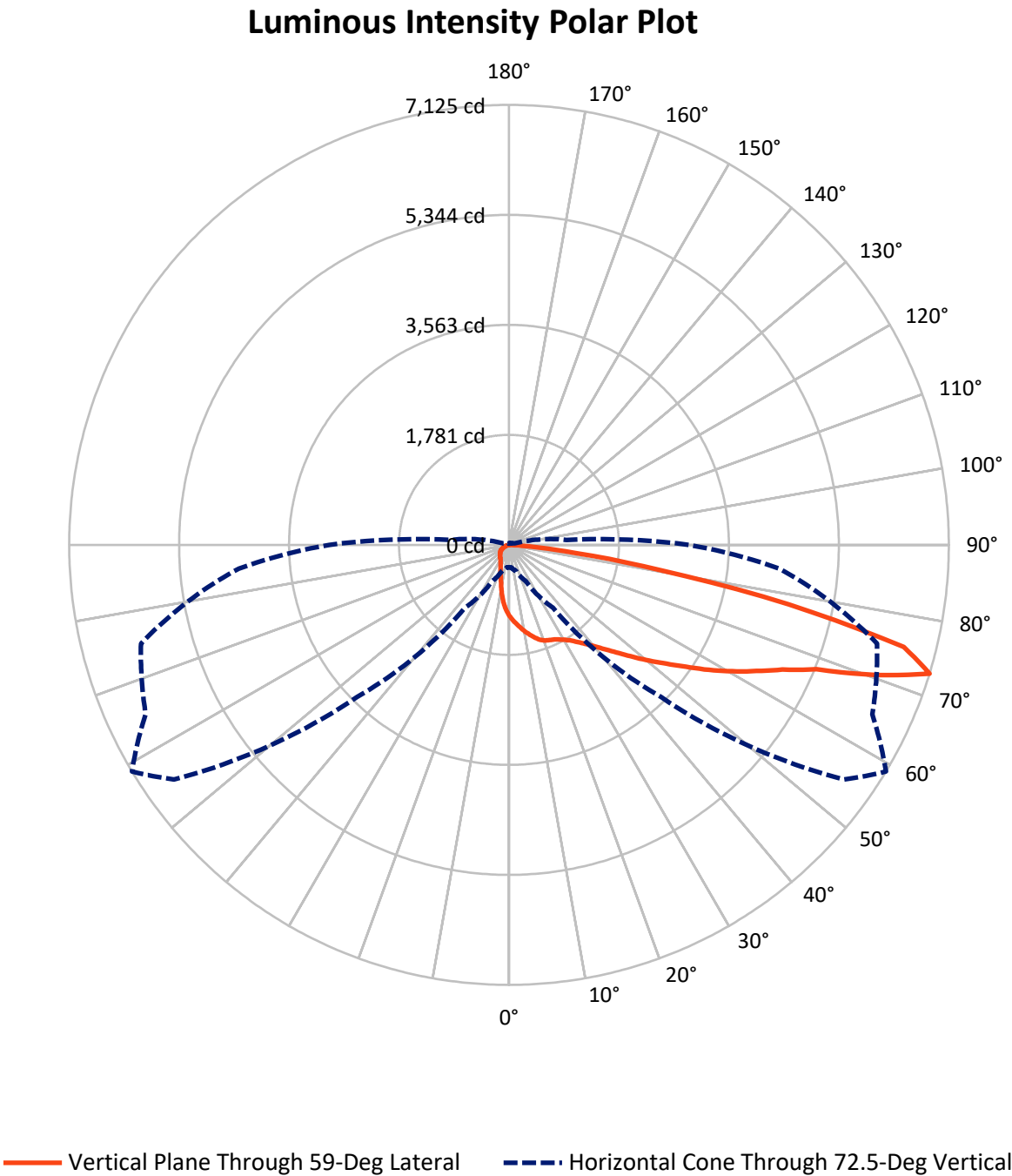
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Medium - N/A

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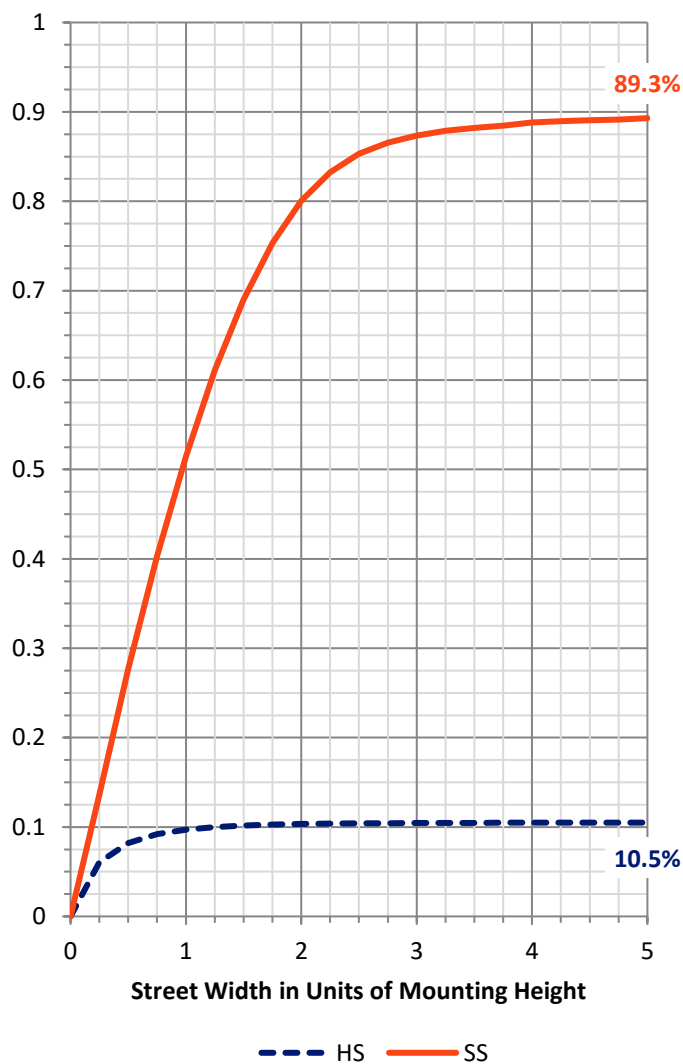
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	823.1	0.0	823.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6970.0	0.0	6970.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	7793.1	0.0	7793.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	1.3
10°-20°	276.9	3.6
20°-30°	438.9	5.6
30°-40°	704.4	9.0
40°-50°	1125.0	14.4
50°-60°	1628.8	20.9
60°-70°	1933.0	24.8
70°-80°	1435.0	18.4
80°-90°	146.7	1.9
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°	7793.1	100.0
0°-180°	7793.1	100.0

Coefficient of Utilization



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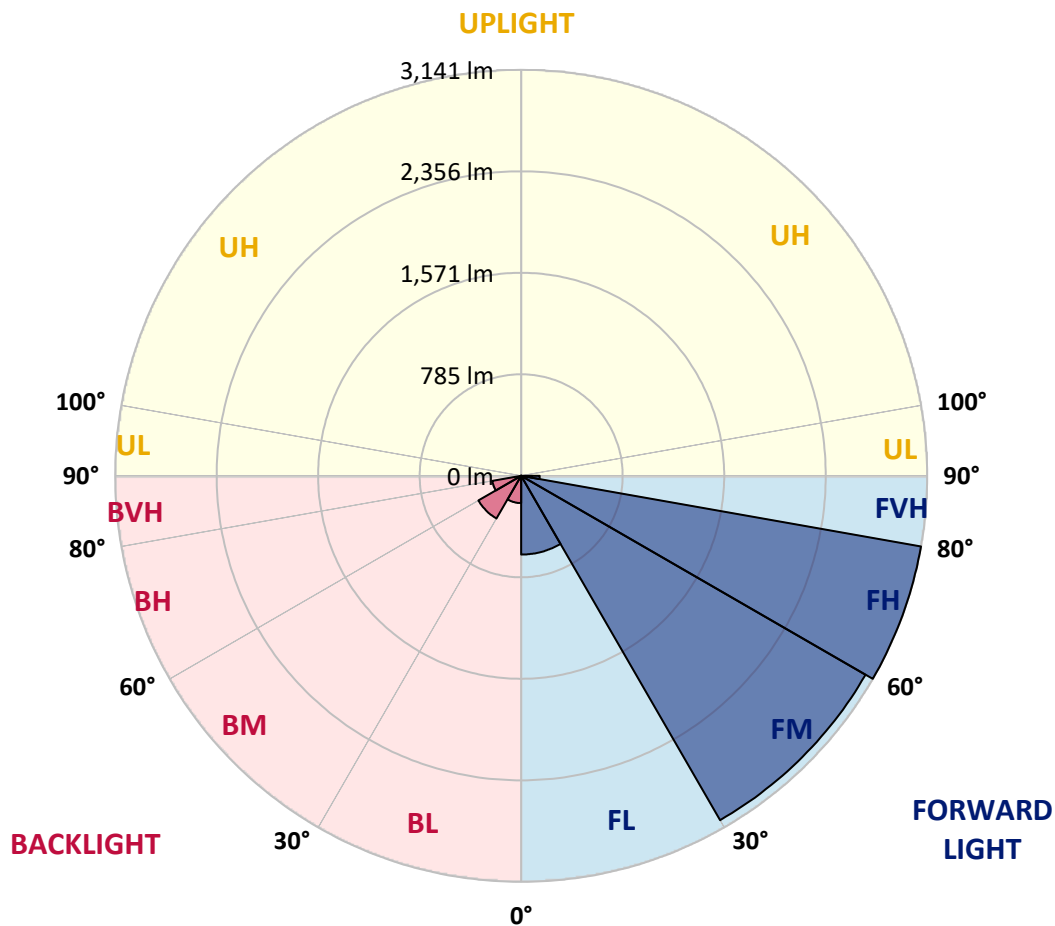
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	609.2	7.8			
FM	(30°-60°)	3076.6	39.5			
FH	(60°-80°)	3141.1	40.3			G2/5000
FVH	(80°-90°)	143.1	1.8			G2/225
BL	(0°-30°)	210.9	2.7	B1/500		
BM	(30°-60°)	381.6	4.9	B1/1000		
BH	(60°-80°)	227.0	2.9	B1/500		G1/500
BVH	(80°-90°)	3.6	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4
2.5°	1278.6	1271.5	1272.4	1260.2	1251.6	1242.5	1224.7	1222.1	1209.4	1187.1	1164.1
5°	1390.0	1385.4	1381.4	1367.7	1349.8	1327.5	1297.4	1286.7	1263.3	1224.7	1179.9
7.5°	1471.4	1465.9	1467.9	1454.2	1439.9	1414.9	1373.7	1353.9	1322.9	1263.8	1196.2
10°	1487.2	1484.1	1497.3	1502.4	1502.4	1486.7	1446.5	1426.7	1381.4	1306.1	1213.0
12.5°	1398.7	1399.1	1432.2	1471.9	1523.9	1538.6	1511.6	1490.2	1445.5	1350.8	1234.3
15°	1295.4	1295.9	1328.0	1378.8	1463.8	1548.8	1570.1	1556.4	1510.1	1399.1	1259.2
17.5°	1233.3	1230.7	1252.1	1293.9	1382.9	1502.4	1605.8	1614.9	1577.3	1452.6	1286.7
20°	1224.7	1220.1	1231.2	1252.1	1315.7	1444.4	1609.8	1653.0	1646.5	1513.1	1318.3
22.5°	1277.6	1270.5	1264.3	1265.4	1292.3	1396.2	1599.6	1674.4	1717.7	1585.9	1361.5
25°	1382.4	1371.1	1351.4	1325.9	1320.3	1385.9	1592.5	1697.8	1783.8	1679.1	1418.5
27.5°	1510.6	1494.9	1456.6	1418.5	1385.9	1414.4	1607.3	1735.0	1858.6	1787.4	1484.6
30°	1651.6	1632.2	1594.1	1521.8	1469.8	1478.0	1642.4	1783.8	1954.3	1910.0	1567.5
32.5°	1858.6	1813.8	1747.2	1636.8	1568.0	1546.7	1695.2	1845.9	2072.9	2073.4	1687.7
35°	2036.2	2011.3	1944.1	1806.7	1665.8	1637.7	1764.9	1933.4	2237.2	2289.5	1855.6
37.5°	2152.7	2118.6	2059.5	1956.3	1817.4	1731.4	1858.1	2040.8	2411.1	2535.8	2062.6
40°	2283.0	2249.4	2171.1	2073.8	1993.4	1892.2	1975.6	2164.4	2602.0	2788.7	2299.2
42.5°	2440.1	2396.4	2303.8	2199.0	2115.1	2103.8	2129.3	2318.5	2797.8	3063.4	2545.5
45°	2624.8	2583.6	2477.3	2345.0	2271.2	2251.4	2322.6	2498.1	3016.1	3364.7	2794.3
47.5°	2797.8	2750.0	2635.6	2514.9	2433.0	2370.4	2528.2	2710.3	3263.4	3679.5	3029.4
50°	2944.9	2896.0	2791.2	2662.5	2607.1	2525.1	2730.2	2946.9	3508.6	3999.6	3244.0
52.5°	3045.6	3002.3	2879.2	2791.7	2754.1	2712.9	2966.8	3197.8	3752.8	4292.7	3456.2
55°	3022.7	2984.1	2875.6	2869.6	2867.0	2910.3	3249.7	3482.1	4001.6	4570.0	3667.3
57.5°	2950.0	2906.2	2770.9	2864.0	2954.0	3086.3	3555.9	3818.4	4274.4	4831.4	3870.9
60°	2735.7	2720.5	2638.0	2853.3	2990.6	3258.8	3906.0	4156.3	4569.4	5061.4	4051.5
62.5°	2282.5	2295.7	2295.2	2875.6	3056.9	3455.2	4224.0	4498.2	4857.9	5282.7	4212.2
65°	1709.0	1754.8	1813.3	2674.2	3145.3	3805.7	4604.1	4869.2	5151.0	5540.2	4375.6
67.5°	1148.3	1185.0	1224.7	2193.9	2881.8	4174.1	5235.5	5377.4	5502.1	5825.7	4559.3
70°	657.3	669.0	724.5	1370.2	2221.4	4072.3	6263.7	6315.1	6025.6	6177.3	4693.1
72.5°	368.4	364.3	437.6	650.3	1241.5	3487.3	6624.0	7125.1	6494.2	6171.6	4394.4
75°	246.2	246.7	301.2	410.1	483.9	2441.1	5708.1	6606.6	6213.3	5472.6	3590.6
77.5°	167.9	173.5	221.3	316.9	223.9	1191.0	3776.2	4628.0	5030.4	4226.0	2478.9
80°	72.8	73.3	146.1	227.4	151.1	379.0	1957.9	2479.4	3155.1	2373.0	982.0
82.5°	37.6	42.7	93.1	147.1	95.1	132.8	925.0	1083.2	1323.9	696.5	201.5
85°	13.2	15.8	57.5	72.3	47.9	47.4	322.1	328.2	280.3	104.9	55.5
87.5°	0.0	2.6	22.3	17.8	6.1	5.6	38.1	32.1	25.4	14.8	18.3
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°	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4
2.5°	1153.4	1139.7	1117.4	1089.8	1057.8	1040.5	1015.6	1000.3	986.6	987.1	998.2
5°	1155.0	1132.0	1075.1	1014.5	947.4	898.0	843.1	804.4	774.9	767.7	778.5
7.5°	1159.6	1120.8	1027.8	927.0	815.1	732.2	656.3	608.5	581.6	574.4	581.6
10°	1165.6	1108.6	974.4	820.2	681.3	581.6	518.4	487.9	475.7	466.6	472.1
12.5°	1170.8	1095.9	907.1	709.8	562.2	484.4	436.5	411.1	400.5	393.8	397.4
15°	1179.4	1079.1	834.5	607.0	481.9	418.2	372.9	354.1	351.1	352.1	353.6
17.5°	1188.0	1062.8	753.0	526.6	422.8	360.2	332.7	329.7	333.7	337.8	339.4
20°	1197.7	1039.5	670.6	466.1	368.4	320.0	312.9	315.0	316.9	324.1	326.2
22.5°	1212.0	1009.9	598.3	414.7	323.1	300.7	297.1	298.7	300.2	307.3	309.3
25°	1232.3	978.4	539.9	367.4	294.6	285.0	281.4	281.4	283.4	290.0	292.5
27.5°	1253.7	933.7	492.5	323.6	277.8	267.6	261.5	261.5	264.0	271.7	274.7
30°	1277.6	892.9	455.4	291.0	263.5	250.3	242.2	240.2	243.2	252.9	255.4
32.5°	1320.8	866.4	428.9	275.7	250.8	234.5	223.3	217.8	220.8	232.0	235.0
35°	1386.4	860.4	410.6	268.1	238.6	220.3	204.5	195.9	198.4	210.1	213.7
37.5°	1463.3	873.1	392.8	258.0	226.9	206.5	185.7	174.6	178.6	189.3	192.3
40°	1573.7	926.0	379.0	250.3	215.2	190.2	166.9	155.7	162.3	171.5	173.0
42.5°	1707.0	1020.1	375.5	243.2	201.0	173.0	149.5	141.4	146.6	155.2	156.7
45°	1872.4	1140.2	391.8	234.0	185.2	156.2	135.8	131.3	132.8	141.4	145.5
47.5°	2049.9	1263.3	436.5	225.9	171.5	142.5	125.2	121.1	120.0	128.2	133.4
50°	2229.5	1372.7	489.4	219.8	161.7	131.3	117.1	111.9	109.4	114.5	116.5
52.5°	2407.1	1459.7	524.1	209.6	152.1	120.0	109.9	102.3	97.7	100.2	102.3
55°	2587.2	1536.1	526.1	194.3	143.0	113.0	102.8	94.1	88.6	88.6	89.6
57.5°	2755.6	1603.2	496.1	174.0	130.3	106.3	93.1	86.0	79.8	77.8	78.3
60°	2904.6	1653.0	446.2	151.1	119.1	97.7	83.4	77.8	70.2	66.1	65.1
62.5°	3037.5	1677.5	378.0	127.7	105.4	87.5	74.3	68.2	58.0	52.9	52.4
65°	3149.9	1652.5	306.8	105.8	93.6	76.4	63.6	57.5	46.3	40.2	40.2
67.5°	3261.3	1538.6	232.0	89.1	81.4	64.1	52.4	46.8	38.6	33.6	33.6
70°	3275.6	1299.0	162.3	74.8	67.6	49.3	42.2	38.6	31.6	27.0	26.4
72.5°	2915.9	934.7	98.7	61.1	52.9	35.2	33.6	30.5	23.4	20.4	19.9
75°	2330.7	572.9	58.0	45.8	35.2	24.9	24.9	21.8	15.8	13.2	13.2
77.5°	1610.8	299.7	34.1	29.5	20.9	14.8	16.3	13.2	7.6	6.1	6.1
80°	645.1	114.0	18.3	13.7	9.6	6.7	5.6	3.1	1.5	1.0	1.5
82.5°	128.7	30.0	6.1	3.6	3.6	1.5	0.0	0.0	0.0	0.0	0.0
85°	33.1	6.7	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	0.0	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)