

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: P271325

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-SL4-7027-800-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6895.9 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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: 28.75 FT

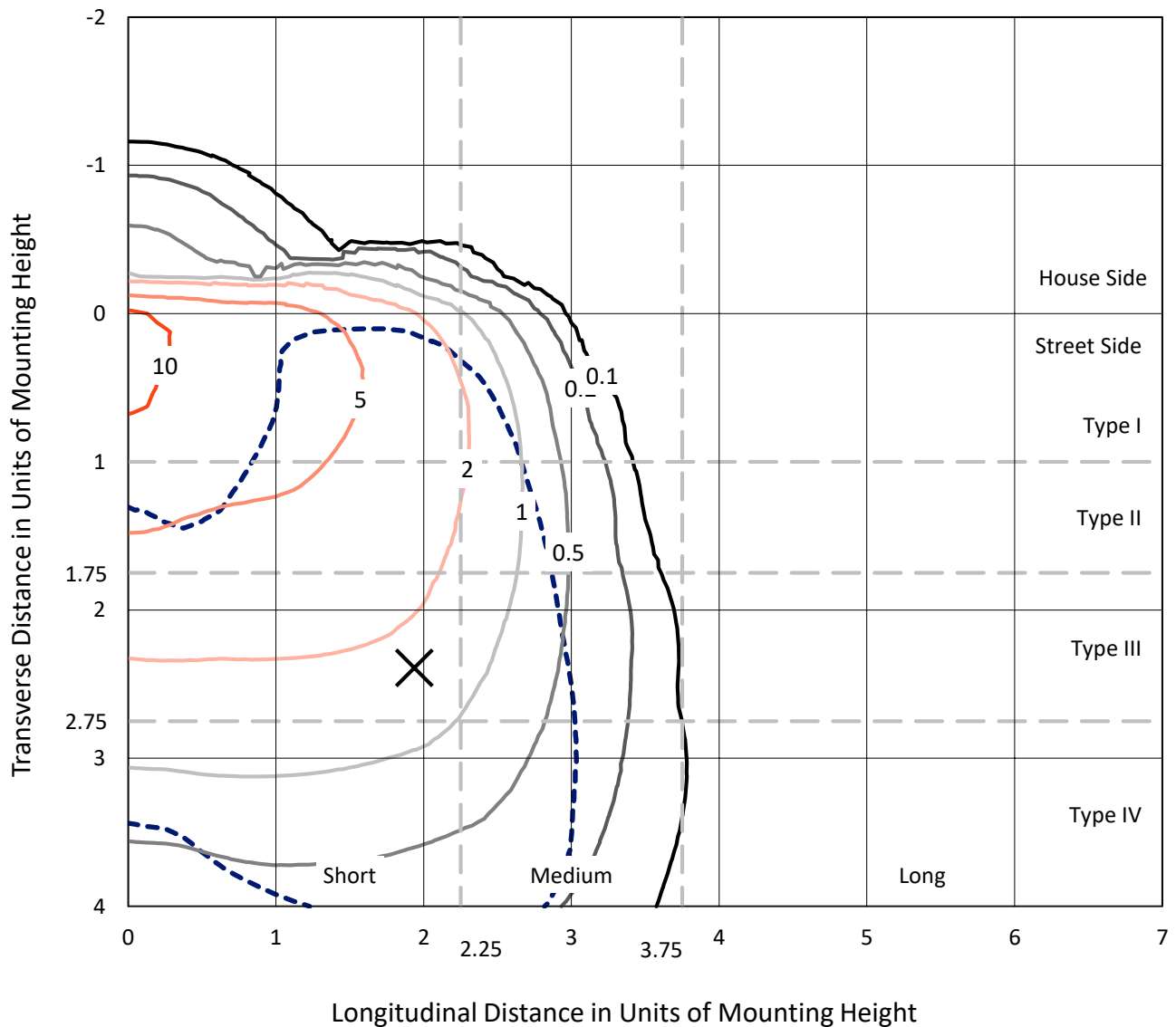


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

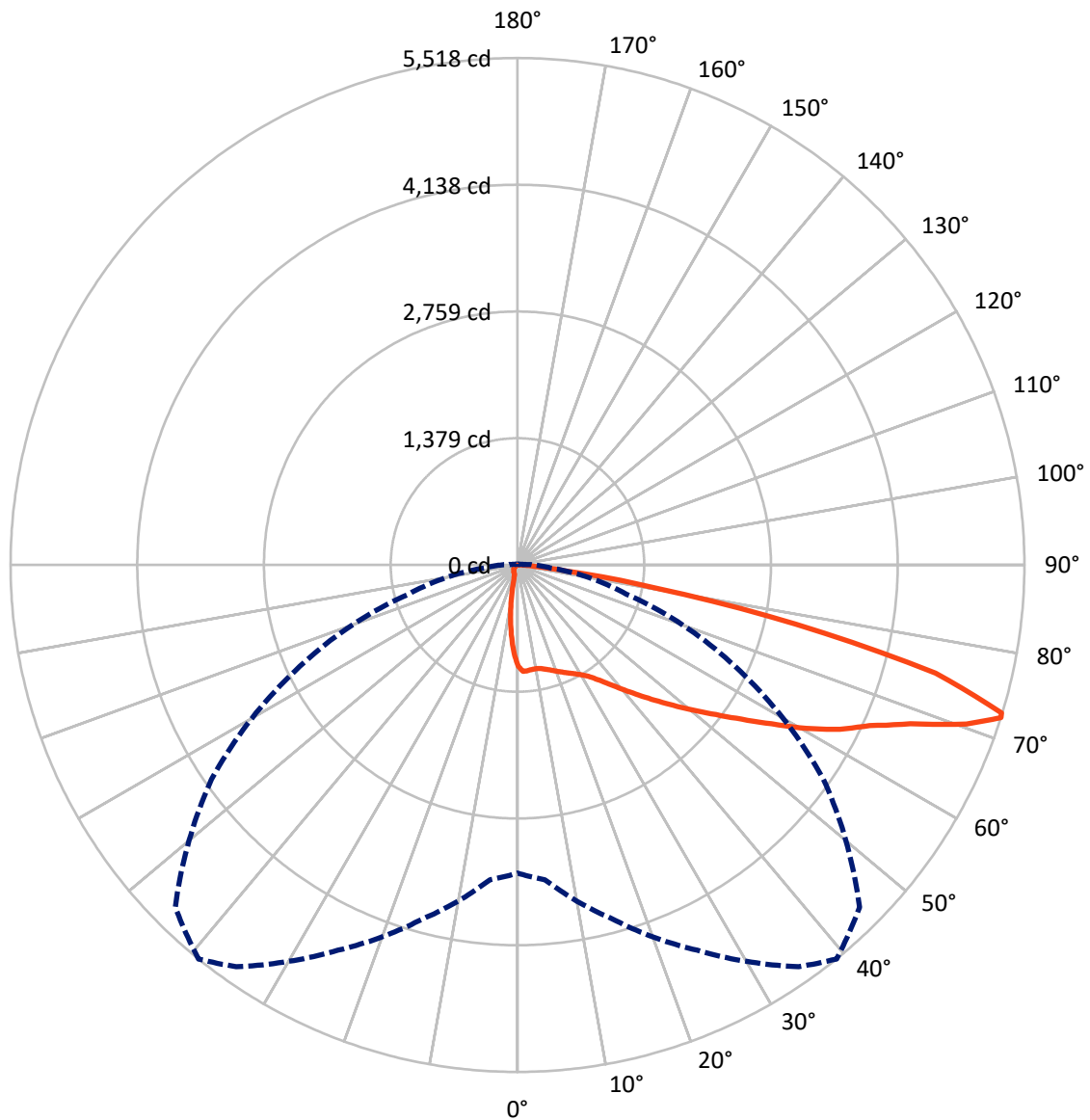


Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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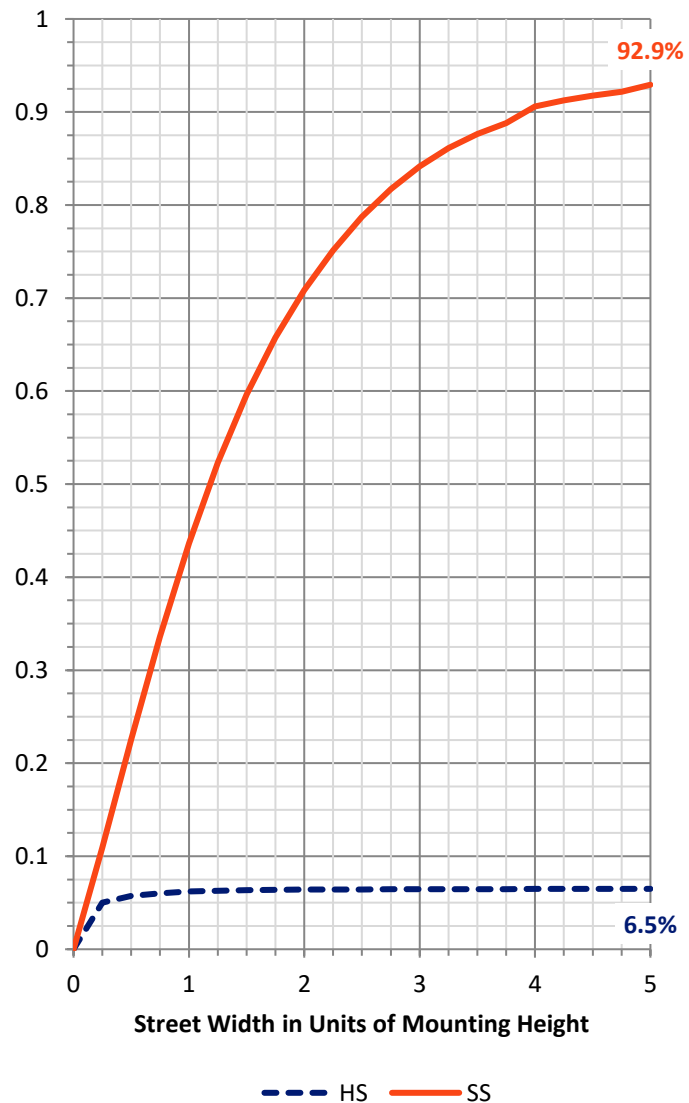
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	451.9	0.0	451.9
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	6443.9	0.0	6443.9
	% Fixture	93.4	0.0	93.4
Total	Lumens	6895.9	0.0	6895.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	1.3
10°-20°	217.3	3.2
20°-30°	361.0	5.2
30°-40°	575.3	8.3
40°-50°	949.6	13.8
50°-60°	1434.1	20.8
60°-70°	1868.2	27.1
70°-80°	1262.3	18.3
80°-90°	138.3	2.0
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°	6895.9	100.0
0°-180°	6895.9	100.0

Coefficient of Utilization



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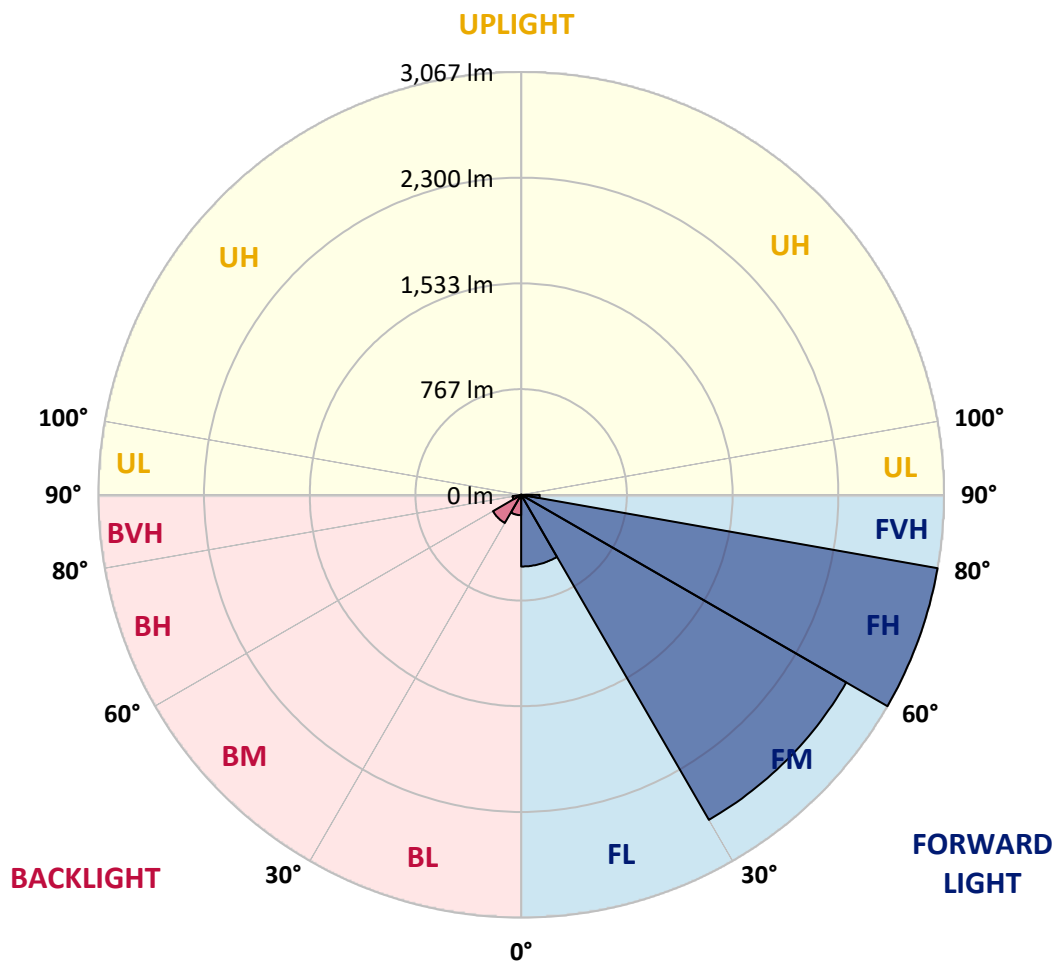
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	520.1	7.5			
FM	(30°-60°)	2722.6	39.5			
FH	(60°-80°)	3067.0	44.5			G2/5000
FVH	(80°-90°)	134.3	1.9			G2/225
BL	(0°-30°)	148.0	2.1	B1/500		
BM	(30°-60°)	236.5	3.4	B1/1000		
BH	(60°-80°)	63.5	0.9	B0/110		G0/110
BVH	(80°-90°)	4.0	0.1			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°	39°	45°	55°	65°	75°	85°
0°	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7
2.5°	1175.3	1177.5	1174.8	1169.9	1162.9	1158.5	1152.5	1139.5	1123.2	1109.1	1092.9
5°	1184.5	1185.7	1182.3	1173.1	1162.2	1156.3	1148.8	1134.6	1117.9	1098.3	1069.1
7.5°	1187.2	1186.8	1182.9	1171.5	1154.7	1147.0	1134.1	1116.8	1099.3	1081.5	1048.4
10°	1186.1	1186.1	1183.4	1172.6	1153.7	1146.5	1132.0	1113.4	1091.8	1074.0	1038.7
12.5°	1182.3	1184.5	1182.9	1176.9	1162.9	1157.3	1144.4	1125.9	1105.4	1086.9	1049.5
15°	1187.2	1190.4	1193.7	1191.5	1183.4	1178.5	1166.5	1147.7	1130.8	1111.4	1071.1
17.5°	1206.8	1213.8	1221.3	1222.0	1213.3	1204.5	1191.1	1171.5	1155.2	1137.3	1094.0
20°	1243.7	1249.1	1263.0	1265.8	1248.5	1236.0	1217.1	1194.2	1177.9	1162.9	1115.2
22.5°	1298.3	1304.2	1315.7	1312.0	1282.6	1268.0	1244.2	1218.1	1201.4	1192.6	1139.5
25°	1381.4	1382.9	1385.6	1368.7	1320.6	1304.2	1275.1	1245.8	1232.3	1231.1	1174.3
27.5°	1478.9	1481.0	1469.1	1431.7	1362.9	1341.7	1308.7	1282.2	1275.6	1283.7	1218.1
30°	1590.5	1591.1	1558.0	1497.4	1411.6	1388.3	1354.1	1324.9	1330.8	1351.0	1274.4
32.5°	1705.0	1699.6	1654.0	1574.8	1478.3	1450.1	1420.8	1391.6	1408.9	1449.5	1356.9
35°	1809.5	1807.4	1753.8	1661.5	1565.0	1540.1	1518.9	1488.1	1516.2	1582.5	1469.1
37.5°	1914.2	1912.5	1851.2	1755.4	1671.8	1654.0	1638.2	1614.4	1660.4	1757.5	1619.3
40°	2029.6	2026.9	1951.6	1859.4	1796.0	1786.2	1777.0	1766.7	1845.4	1980.4	1806.3
42.5°	2172.2	2160.3	2057.8	1972.8	1932.7	1935.3	1935.8	1946.2	2069.2	2245.5	2026.9
45°	2336.0	2309.5	2164.6	2094.2	2082.8	2099.0	2115.2	2158.2	2329.9	2550.6	2270.8
47.5°	2494.9	2452.0	2287.8	2224.8	2248.1	2281.8	2320.9	2404.3	2622.7	2869.9	2492.1
50°	2631.3	2587.5	2409.7	2357.6	2431.9	2481.7	2551.1	2677.5	2931.7	3139.8	2631.3
52.5°	2738.8	2704.1	2538.7	2503.9	2635.7	2704.1	2813.0	2978.9	3223.4	3317.7	2729.1
55°	2817.9	2800.6	2662.2	2667.2	2862.3	2961.1	3096.5	3284.2	3469.6	3455.9	2802.2
57.5°	2907.4	2893.8	2791.8	2859.7	3135.1	3262.5	3419.0	3569.8	3648.3	3567.1	2873.7
60°	2998.9	3003.3	2949.0	3092.8	3472.2	3613.2	3749.7	3787.2	3801.7	3679.8	2949.0
62.5°	3068.3	3086.8	3091.6	3344.3	3818.1	3938.3	3997.5	3971.0	3967.6	3831.1	2943.0
65°	3148.0	3196.3	3276.5	3620.2	4132.6	4211.7	4254.0	4292.5	4211.1	3876.0	2653.7
67.5°	3285.7	3361.5	3542.1	3958.6	4495.7	4612.7	4732.6	4691.9	4247.5	3419.0	2021.5
70°	3471.1	3563.8	3882.6	4400.3	4988.5	5184.7	5285.0	4660.0	3606.1	2362.5	1066.3
72°	3354.0	3438.1	3987.8	4625.8	5337.5	5517.6	5266.6	4064.7	2614.1	1224.6	357.3
72.5°	3240.1	3327.0	3954.1	4623.0	5372.4	5509.9	5146.7	3830.1	2313.1	953.0	246.1
75°	2248.1	2357.6	3389.8	4155.7	4851.3	4700.1	3937.9	2319.2	838.1	163.8	81.3
77.5°	1162.2	1246.8	2056.2	2936.6	3381.1	3096.5	2327.2	1006.1	232.0	86.7	53.7
80°	720.5	762.2	961.6	1446.9	1756.5	1536.3	1026.8	406.7	148.5	51.6	42.8
82.5°	372.9	405.0	605.5	583.9	648.8	539.4	378.9	340.5	91.5	32.0	43.8
85°	122.4	130.2	371.9	388.2	277.5	186.5	168.1	324.6	26.6	20.7	37.4
87.5°	16.3	19.0	130.7	222.3	136.6	84.6	100.8	114.4	9.3	11.4	10.3
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°	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7
2.5°	1082.1	1075.0	1052.8	1030.5	1005.1	981.8	963.3	951.5	956.9	938.9	941.7
5°	1051.1	1033.3	984.5	931.9	874.9	821.8	779.5	748.1	742.1	715.1	716.0
7.5°	1021.4	992.1	912.9	826.3	731.8	655.5	586.1	525.2	503.6	481.4	468.3
10°	1005.1	965.0	852.8	726.4	593.6	481.4	383.8	307.4	275.4	252.1	240.7
12.5°	1010.0	956.9	807.8	635.9	461.3	318.8	216.9	160.9	141.6	130.7	126.8
15°	1026.3	958.4	767.2	547.5	335.5	193.0	127.4	109.0	107.3	106.8	106.3
17.5°	1041.3	960.1	724.3	455.4	224.4	123.1	102.4	100.8	100.8	100.8	100.8
20°	1057.1	960.6	677.1	358.9	147.4	100.8	96.5	95.4	96.5	96.5	96.5
22.5°	1075.5	964.4	631.6	265.1	109.0	95.0	92.2	91.5	92.2	92.2	91.5
25°	1098.3	972.5	582.2	189.7	98.6	91.1	88.4	87.9	88.4	87.9	87.9
27.5°	1128.7	983.4	524.8	136.1	94.3	87.2	84.6	84.6	84.6	84.0	84.0
30°	1167.6	996.4	447.7	107.3	90.0	83.5	81.3	81.3	80.8	80.2	80.2
32.5°	1223.5	1017.5	363.8	97.0	85.1	78.6	76.4	77.0	76.4	75.8	75.4
35°	1302.7	1050.6	280.8	91.5	80.2	73.8	71.5	71.5	71.5	70.4	70.4
37.5°	1414.9	1101.1	210.4	86.1	75.4	68.8	66.1	66.1	65.5	64.5	65.0
40°	1553.7	1164.5	152.4	81.3	70.4	63.4	61.3	60.1	59.1	58.0	58.0
42.5°	1720.7	1226.2	114.4	76.4	65.5	59.1	56.4	55.2	53.1	52.0	51.6
45°	1907.7	1291.9	95.0	70.4	60.1	54.2	52.0	49.9	47.3	45.5	44.9
47.5°	2065.5	1331.9	84.6	64.5	54.7	49.3	47.3	43.8	40.7	39.5	39.5
50°	2160.3	1315.2	75.8	58.6	49.3	44.5	41.7	37.4	35.3	34.1	33.5
52.5°	2213.5	1265.4	68.8	53.7	44.5	39.0	35.3	31.4	30.4	29.3	29.3
55°	2249.7	1193.2	61.3	48.8	40.2	34.1	29.9	27.0	26.1	25.5	25.0
57.5°	2284.4	1105.4	54.2	44.5	35.8	30.4	25.5	24.4	22.2	21.6	21.6
60°	2294.7	984.5	47.7	39.5	32.0	26.6	22.2	20.7	18.4	17.8	17.8
62.5°	2163.6	783.3	42.3	33.5	28.1	22.7	19.6	17.3	15.2	15.2	15.2
65°	1807.8	531.7	36.3	29.3	25.0	19.6	16.8	14.2	13.0	13.0	13.0
67.5°	1259.3	296.5	30.9	25.0	21.1	16.3	14.2	11.9	11.4	11.9	11.9
70°	567.5	117.7	26.1	20.7	17.3	13.6	11.9	10.3	11.4	11.4	11.4
72°	170.1	62.9	21.6	16.8	14.2	11.9	10.3	9.7	10.8	11.4	11.4
72.5°	126.3	56.4	20.7	16.3	14.2	11.4	9.7	9.7	10.8	11.4	11.4
75°	65.0	38.4	15.7	11.9	10.3	9.3	8.2	9.3	10.8	10.8	10.8
77.5°	50.9	31.4	13.0	9.3	8.7	8.2	7.5	8.7	9.7	9.7	9.7
80°	47.7	20.7	10.3	8.7	7.5	7.0	7.0	7.5	8.7	9.3	9.3
82.5°	48.2	16.8	9.3	8.2	7.0	6.5	6.5	7.0	8.2	8.7	8.7
85°	30.9	11.4	8.2	7.0	6.5	6.0	6.0	6.5	7.5	8.2	8.2
87.5°	10.3	8.7	7.0	6.5	5.4	5.4	5.4	5.4	6.5	7.0	7.5
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)