

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: P961040

Luminaire Tested: **NVN-SB1D-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-830-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

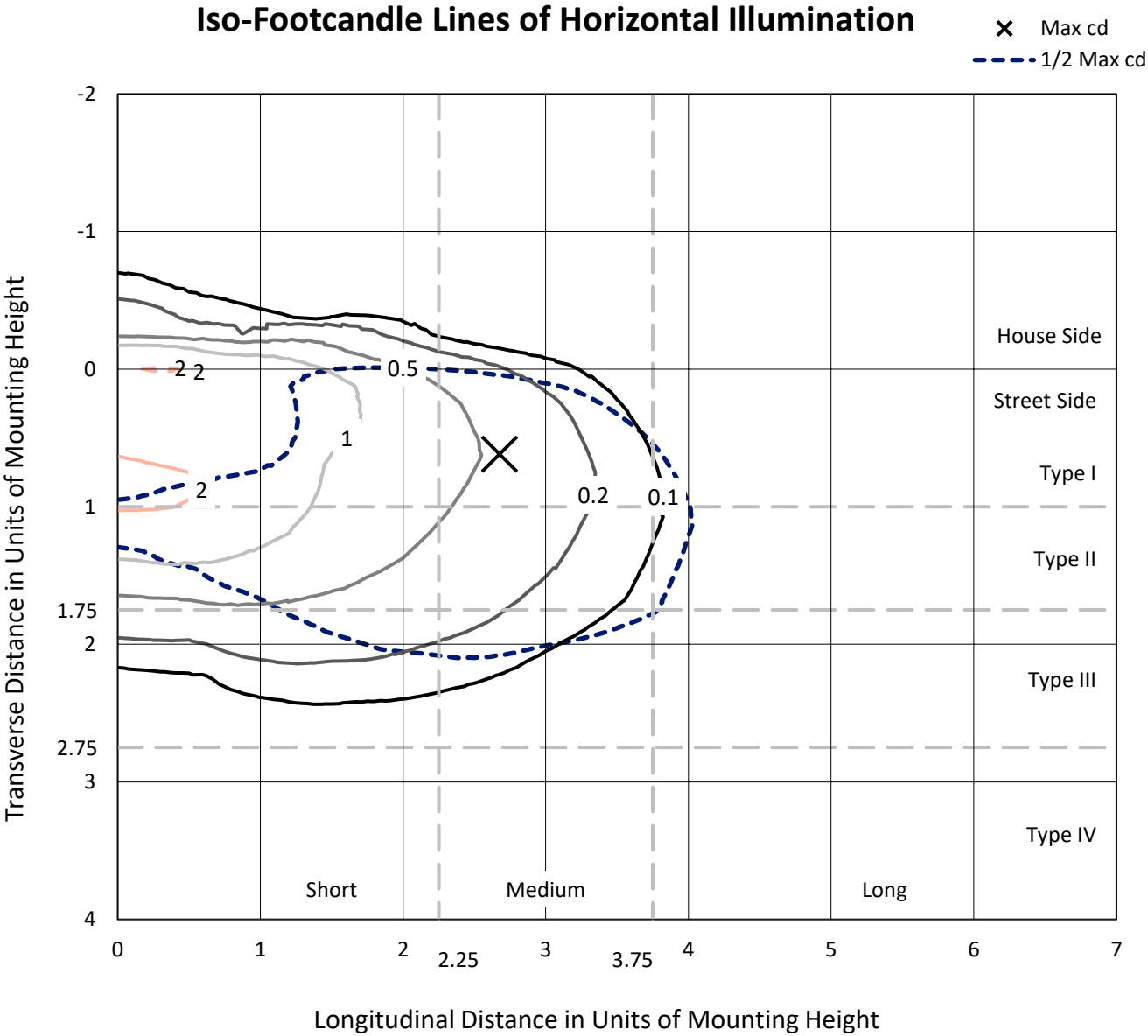
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7805.4 lumens
Efficiency: N/A
Efficacy: 98.1 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

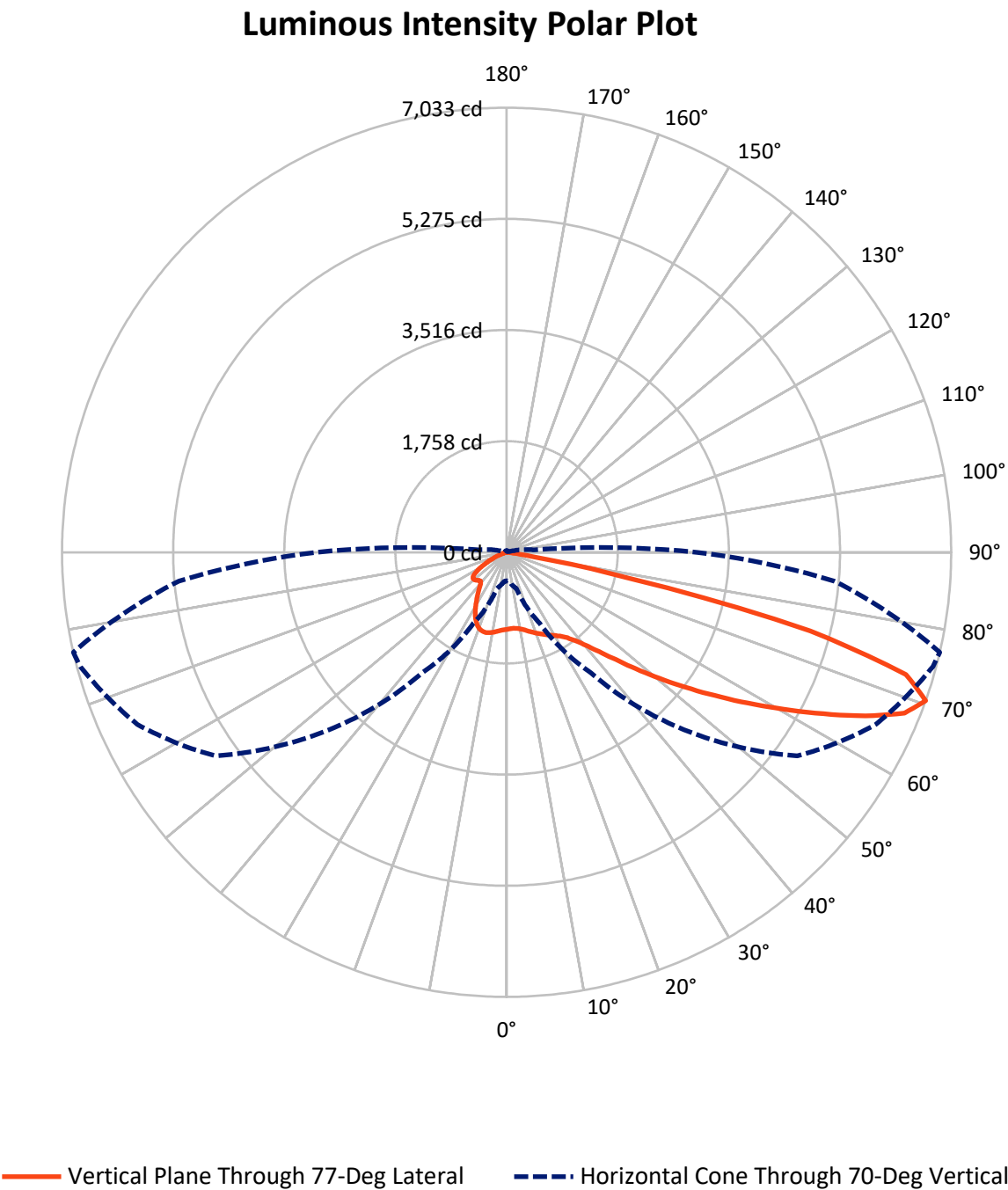


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Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Medium - N/A

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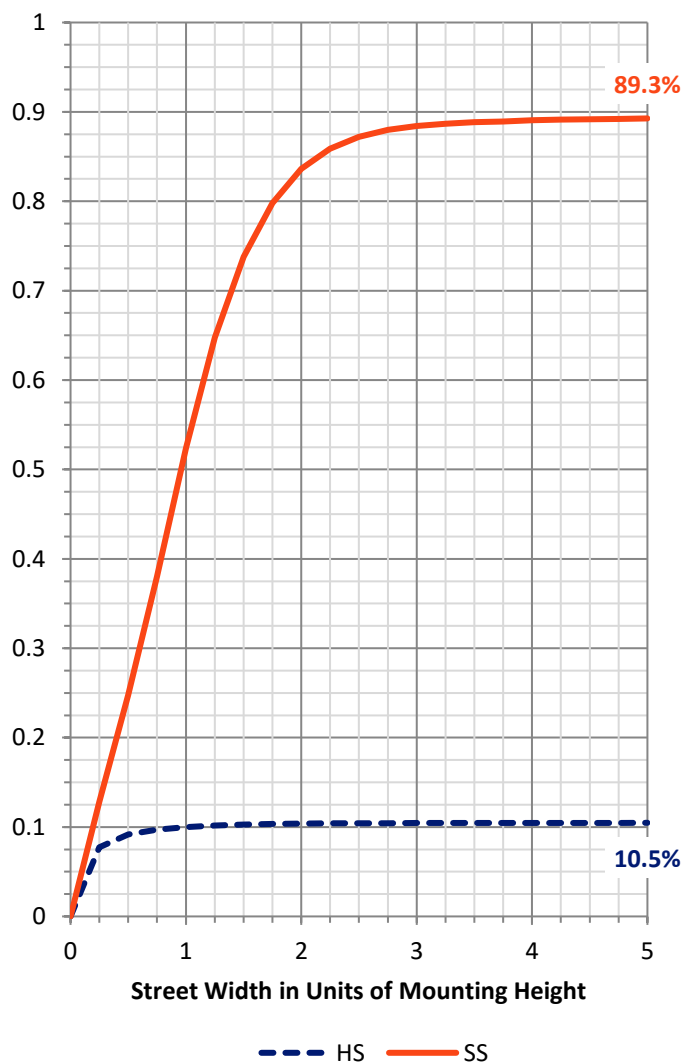
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	822.8	0.0	822.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6982.6	0.0	6982.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	7805.4	0.0	7805.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	1.3
10°-20°	249.1	3.2
20°-30°	385.3	4.9
30°-40°	699.1	9.0
40°-50°	1319.6	16.9
50°-60°	1906.8	24.4
60°-70°	2029.7	26.0
70°-80°	1075.6	13.8
80°-90°	35.3	0.5
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°	7805.4	100.0
0°-180°	7805.4	100.0

Coefficient of Utilization



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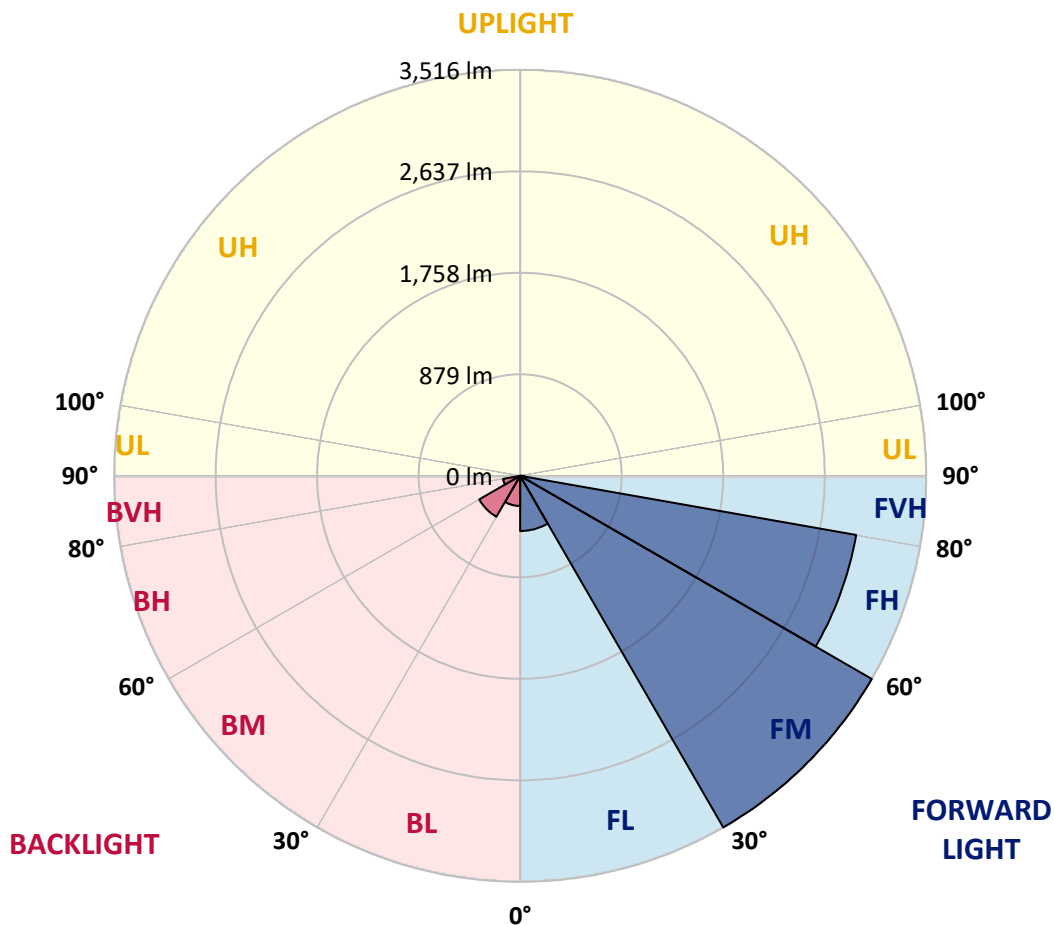
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	477.9	6.1			
FM	(30°-60°)	3515.9	45.0			
FH	(60°-80°)	2954.4	37.9			G2/5000
FVH	(80°-90°)	34.4	0.4			G1/100
BL	(0°-30°)	261.4	3.3	B1/500		
BM	(30°-60°)	409.6	5.2	B1/1000		
BH	(60°-80°)	150.8	1.9	B1/500		G1/500
BVH	(80°-90°)	0.9	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°	65°	75°	77°	85°
0°	1217.5	1217.5	1217.5	1217.5	1217.5	1217.5	1217.5	1217.5	1217.5	1217.5	1217.5
2.5°	1143.1	1153.4	1151.9	1158.9	1161.3	1171.2	1181.0	1194.3	1209.1	1208.6	1218.5
5°	1078.5	1088.9	1091.3	1100.6	1112.5	1127.8	1148.0	1174.6	1202.2	1206.6	1226.4
7.5°	1002.1	1012.9	1019.4	1038.1	1059.7	1091.3	1124.3	1163.3	1209.1	1215.5	1253.5
10°	925.7	935.5	943.9	970.6	1005.0	1051.9	1105.6	1161.8	1223.4	1232.8	1286.5
12.5°	878.3	887.8	897.1	920.2	963.2	1020.3	1093.3	1168.7	1247.1	1260.3	1331.4
15°	861.6	870.0	877.4	898.1	938.0	1003.1	1090.8	1183.0	1277.1	1294.9	1385.6
17.5°	864.1	868.5	873.4	889.2	928.1	995.2	1095.2	1207.7	1312.6	1328.4	1439.8
20°	878.3	880.9	881.3	892.2	926.7	994.2	1104.1	1231.3	1346.1	1367.4	1493.5
22.5°	896.6	897.6	896.6	904.0	936.0	1001.6	1115.9	1259.9	1383.6	1403.3	1547.7
25°	981.8	963.2	939.5	925.2	951.8	1015.9	1133.8	1298.4	1424.5	1443.7	1600.5
27.5°	1246.6	1192.9	1108.0	1012.9	984.3	1036.6	1158.4	1337.3	1466.0	1483.2	1657.2
30°	1676.4	1605.9	1462.0	1247.5	1088.9	1079.9	1190.4	1376.2	1509.8	1528.5	1717.8
32.5°	2107.2	2090.0	1923.8	1627.1	1324.0	1176.6	1243.6	1429.0	1567.9	1582.7	1799.6
35°	2542.9	2508.0	2372.0	2078.6	1686.2	1373.3	1332.4	1497.9	1644.4	1661.1	1918.9
37.5°	2876.7	2855.4	2771.2	2529.6	2116.1	1676.9	1484.2	1604.9	1755.3	1774.0	2071.7
40°	3171.5	3161.5	3132.9	2973.7	2596.6	2074.2	1720.3	1770.6	1909.1	1931.2	2259.0
42.5°	3403.1	3426.3	3442.5	3398.2	3092.0	2527.6	2037.7	2003.2	2123.5	2146.1	2497.6
45°	3640.2	3648.1	3713.6	3777.7	3584.0	3001.8	2395.5	2275.8	2390.1	2418.3	2783.5
47.5°	3792.5	3824.1	3939.4	4052.2	3997.5	3472.1	2780.0	2597.7	2699.2	2751.9	3103.9
50°	3803.8	3863.4	4022.2	4218.9	4298.7	3919.7	3198.0	2964.4	3072.3	3130.5	3445.9
52.5°	3615.1	3707.7	3953.6	4241.6	4461.4	4298.7	3630.3	3331.1	3469.6	3545.6	3800.9
55°	2771.7	2893.0	3695.8	4118.3	4467.8	4586.1	4051.2	3713.2	3912.2	3998.0	4184.4
57.5°	2414.8	2475.9	2905.8	3904.3	4349.0	4701.9	4431.8	4076.9	4393.9	4500.3	4546.6
60°	2009.1	2089.5	2436.9	3554.4	4187.8	4713.3	4768.0	4546.2	4915.8	5035.6	4878.9
62.5°	1365.4	1452.6	1798.2	2953.0	3967.5	4707.8	5043.5	5029.2	5495.9	5624.7	5160.4
65°	845.8	900.6	1128.3	2411.3	3659.4	4713.8	5331.8	5615.8	6108.2	6238.8	5378.2
67.5°	668.4	693.5	812.3	1851.4	3128.5	4580.6	5619.7	6167.3	6684.4	6788.0	5444.7
70°	449.1	464.3	591.0	1241.2	2327.6	3966.4	5614.3	6444.4	6981.2	7032.9	5202.2
72.5°	236.6	248.5	345.5	574.7	1405.8	2819.5	4732.4	6113.1	6685.9	6608.0	4446.6
75°	118.3	138.0	232.7	291.8	600.3	1572.4	2938.8	4819.8	5262.3	4960.7	2853.0
77.5°	89.7	108.4	192.2	192.2	209.0	529.4	1244.7	2628.7	2424.6	2018.9	837.4
80°	57.2	73.9	168.1	145.4	87.2	134.6	324.3	736.5	515.1	391.9	152.3
82.5°	33.5	48.3	140.0	96.1	48.8	49.8	91.6	156.7	133.6	104.0	46.8
85°	13.3	31.6	96.1	37.9	19.3	12.3	27.6	33.5	27.6	20.7	11.8
87.5°	0.0	7.4	16.8	0.0	1.4	1.0	1.9	2.5	2.5	1.9	3.9
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°	1217.5	1217.5	1217.5	1217.5	1217.5	1217.5	1217.5	1217.5	1217.5	1217.5	1217.5
2.5°	1222.9	1224.0	1226.8	1227.3	1220.5	1211.6	1208.2	1206.6	1200.8	1200.3	1201.2
5°	1237.7	1242.1	1237.7	1224.9	1194.3	1151.5	1118.9	1092.3	1068.2	1060.8	1056.4
7.5°	1267.3	1271.7	1258.4	1208.2	1131.2	1046.0	969.0	914.8	866.0	847.8	840.4
10°	1309.6	1315.6	1273.7	1172.2	1036.1	899.0	769.0	677.2	605.8	576.7	564.4
12.5°	1362.9	1365.4	1282.1	1117.5	912.4	716.7	532.4	434.3	370.6	347.0	339.6
15°	1421.6	1418.1	1283.1	1043.0	743.8	506.8	347.5	285.4	259.7	251.8	251.8
17.5°	1483.2	1468.9	1263.3	935.5	558.9	346.6	257.8	243.0	238.6	236.6	236.1
20°	1543.9	1511.8	1227.3	795.1	401.2	258.8	234.1	229.7	227.2	226.2	225.3
22.5°	1599.0	1544.3	1165.7	631.9	291.3	228.7	221.3	217.4	212.9	210.9	210.4
25°	1652.7	1563.0	1079.0	479.6	233.2	213.9	208.0	200.6	194.7	192.2	191.3
27.5°	1705.0	1574.8	970.6	354.9	208.0	200.1	189.3	179.0	174.5	173.5	172.5
30°	1760.6	1578.8	847.4	264.7	192.7	182.9	167.1	155.3	152.8	153.3	153.3
32.5°	1828.7	1584.8	723.1	216.9	179.9	162.2	143.4	131.1	129.1	131.1	130.6
35°	1910.1	1596.5	603.3	199.7	168.6	140.9	120.7	110.4	108.4	109.9	109.5
37.5°	2020.5	1615.8	491.4	196.2	159.2	123.2	101.6	93.2	93.2	93.7	93.2
40°	2167.4	1667.1	391.3	193.7	154.3	109.9	85.8	82.3	83.8	84.8	84.8
42.5°	2346.2	1776.0	323.8	190.8	148.8	104.0	77.9	76.4	78.8	79.8	79.8
45°	2546.9	1914.0	300.2	185.8	143.9	107.9	74.4	72.5	75.4	76.0	76.4
47.5°	2754.4	2049.1	297.2	180.4	139.0	113.9	73.5	69.0	72.5	73.0	73.5
50°	2964.4	2137.2	300.2	172.0	131.1	113.9	73.9	65.6	68.5	70.0	70.5
52.5°	3175.9	2177.7	298.2	153.8	117.4	107.0	73.9	62.6	65.6	66.5	66.5
55°	3380.9	2169.8	268.1	126.7	99.5	94.6	72.0	60.2	62.1	62.6	62.6
57.5°	3543.0	2059.8	212.5	98.6	80.9	78.8	65.6	57.2	58.6	58.1	58.1
60°	3627.9	1818.4	151.8	76.0	63.6	62.1	57.7	53.2	54.2	51.8	51.2
62.5°	3628.8	1499.0	101.6	60.2	50.7	49.3	49.3	47.8	46.8	41.9	40.4
65°	3551.4	1144.5	67.5	47.8	40.9	38.4	41.4	40.9	37.4	30.5	29.6
67.5°	3375.9	750.2	51.2	37.4	31.6	30.0	33.0	34.5	32.1	25.6	25.1
70°	3015.1	436.8	42.4	29.1	23.7	22.1	26.6	29.6	26.6	20.7	19.7
72.5°	2504.5	235.6	34.5	21.7	16.3	14.8	21.2	24.2	21.2	15.3	14.8
75°	1625.1	126.2	26.6	14.2	8.4	9.3	15.8	17.7	14.8	9.8	8.9
77.5°	545.6	55.7	16.8	6.9	3.9	3.9	9.3	10.9	6.9	3.5	3.0
80°	121.8	23.2	6.9	3.0	1.4	1.4	1.9	1.9	1.0	0.0	0.0
82.5°	40.0	9.3	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.3	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	0.5	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)