

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: LUMARK

Report Number: P960385

Luminaire Tested: **NAV-SB1C-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-740-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6208.4 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

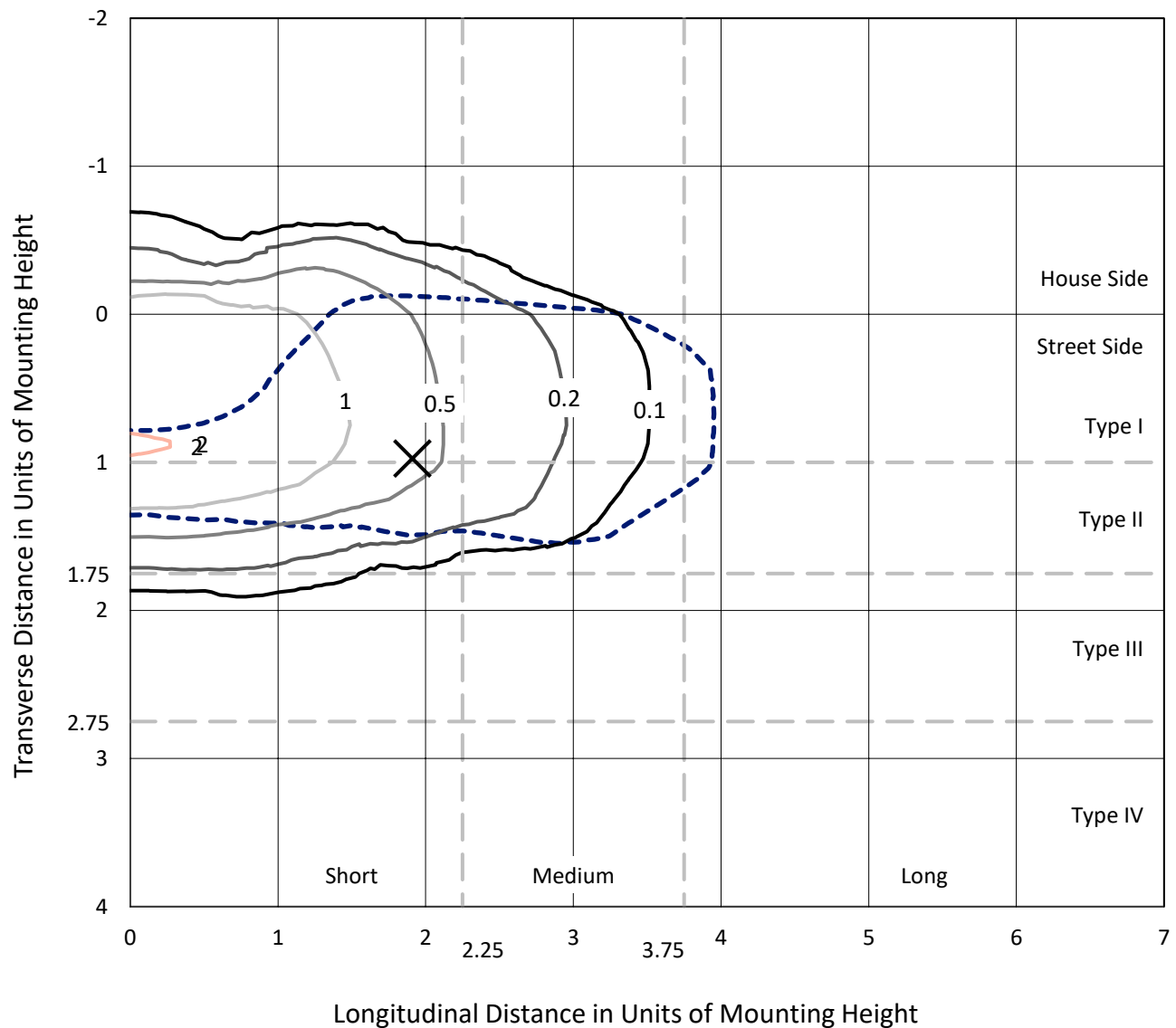
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

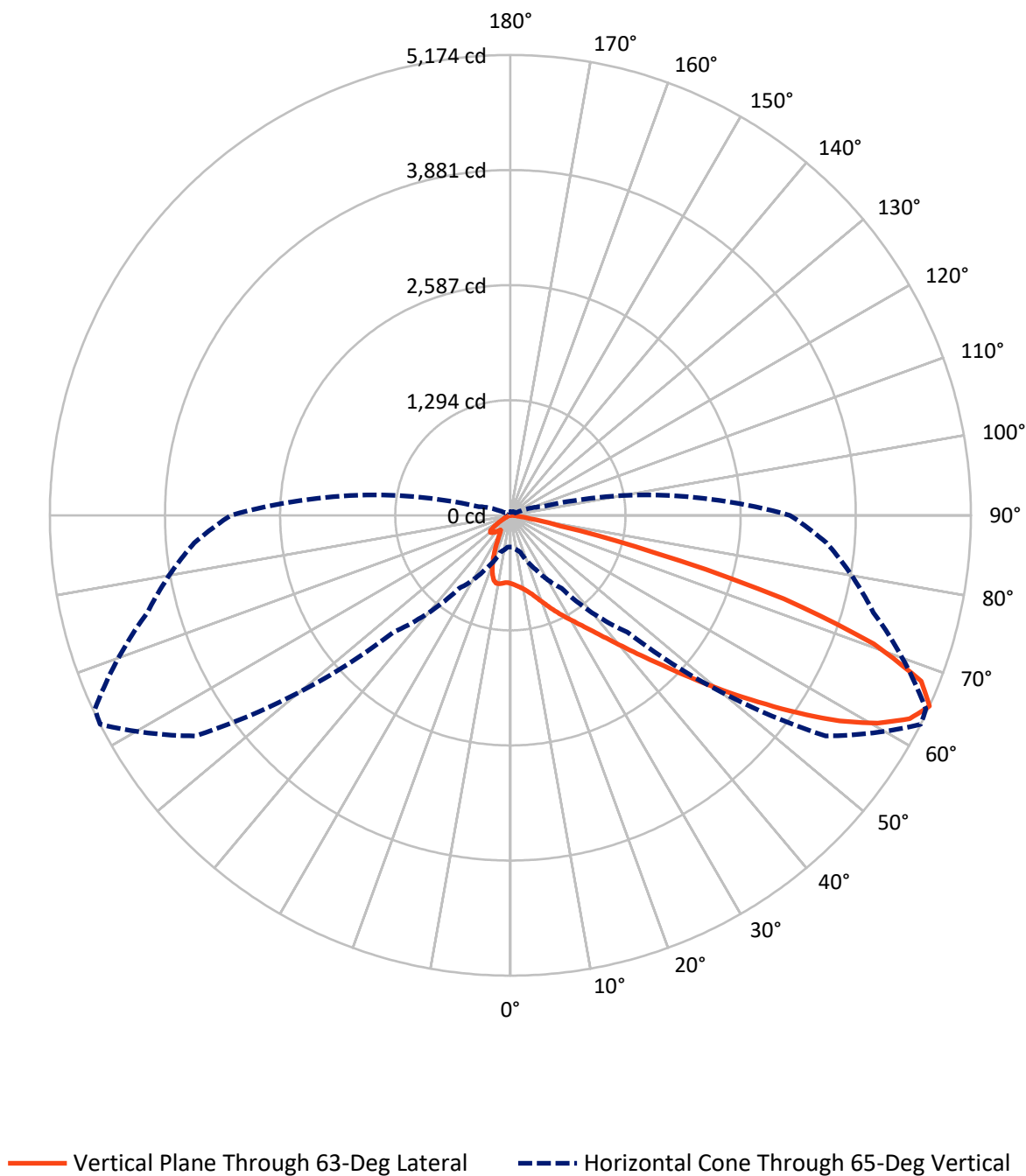
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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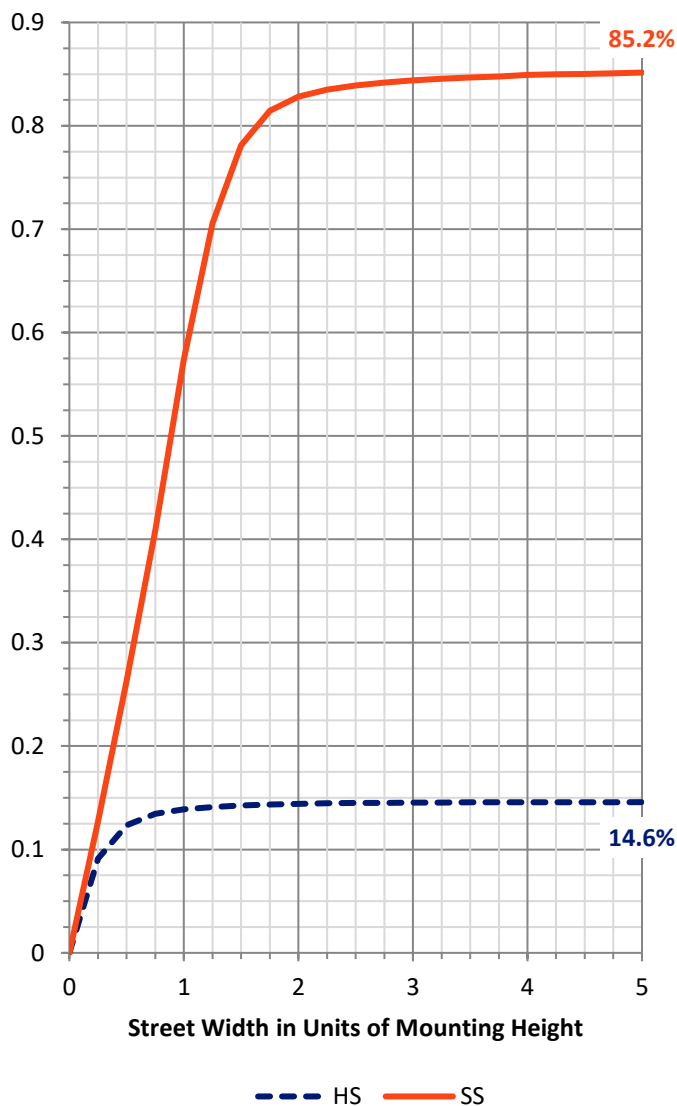
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	912.6	0.0	912.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5295.8	0.0	5295.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	6208.4	0.0	6208.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.2
10°-20°	200.3	3.2
20°-30°	348.8	5.6
30°-40°	628.7	10.1
40°-50°	1246.8	20.1
50°-60°	1698.4	27.4
60°-70°	1355.7	21.8
70°-80°	613.5	9.9
80°-90°	44.1	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°	6208.4	100.0
0°-180°	6208.4	100.0

Coefficient of Utilization



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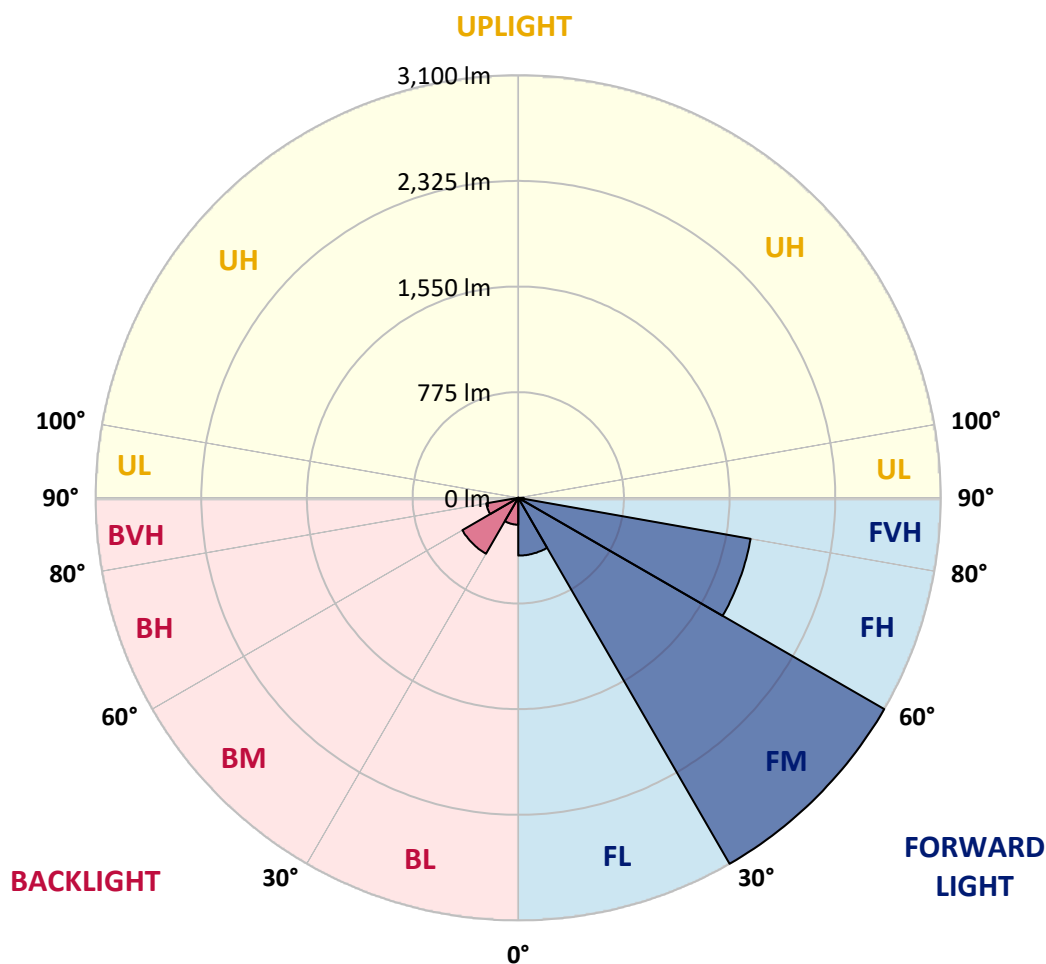
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	423.8	6.8			
FM	(30°-60°)	3100.3	49.9			
FH	(60°-80°)	1730.9	27.9			G1/1800
FVH	(80°-90°)	40.8	0.7			G1/100
BL	(0°-30°)	197.5	3.2	B1/500		
BM	(30°-60°)	473.6	7.6	B1/1000		
BH	(60°-80°)	238.2	3.8	B1/500		G1/500
BVH	(80°-90°)	3.3	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	766.2	766.2	766.2	766.2	766.2	766.2	766.2	766.2	766.2	766.2	766.2
2.5°	784.1	782.1	785.0	783.7	782.9	781.2	780.3	779.5	777.8	776.4	771.3
5°	786.3	785.0	788.0	790.6	793.1	795.7	797.0	798.7	797.0	793.6	788.4
7.5°	768.3	767.5	773.9	781.6	793.1	803.0	813.6	819.6	820.1	818.8	813.2
10°	767.1	765.0	771.3	780.7	795.7	813.2	832.0	844.8	846.5	852.1	846.1
12.5°	787.2	785.0	794.0	804.2	819.6	838.0	861.1	879.0	881.6	889.3	885.0
15°	820.9	817.9	828.2	841.4	861.1	882.0	906.3	922.6	924.7	934.1	926.4
17.5°	860.2	857.2	869.2	883.2	904.7	933.3	961.4	979.4	982.0	987.9	973.9
20°	910.6	906.7	916.1	929.0	951.6	985.7	1019.5	1045.1	1044.7	1044.7	1021.6
22.5°	969.1	963.1	971.3	981.5	1002.9	1044.3	1089.2	1119.5	1119.5	1107.5	1069.5
25°	1031.9	1025.9	1034.8	1044.3	1063.1	1110.1	1162.6	1200.2	1201.9	1181.4	1120.7
27.5°	1110.5	1102.8	1109.7	1120.7	1131.8	1179.7	1242.0	1285.6	1286.5	1254.8	1169.4
30°	1261.7	1239.9	1218.5	1206.6	1211.8	1259.1	1325.7	1374.0	1378.3	1334.8	1222.4
32.5°	1538.4	1534.2	1459.0	1360.8	1309.5	1344.6	1419.3	1477.3	1479.9	1424.0	1291.2
35°	1968.5	1963.4	1842.5	1655.5	1488.5	1459.0	1532.9	1601.7	1599.9	1536.8	1380.5
37.5°	2481.9	2477.2	2317.9	2067.6	1797.2	1632.0	1679.4	1751.6	1762.3	1679.4	1495.8
40°	2920.6	2903.1	2802.2	2561.0	2207.3	1919.0	1887.8	1935.7	1946.8	1848.5	1642.3
42.5°	3252.8	3238.0	3186.7	3035.9	2703.6	2343.6	2133.4	2151.8	2164.2	2046.3	1810.6
45°	3425.0	3421.6	3442.1	3428.0	3209.3	2864.7	2484.5	2408.0	2412.7	2265.4	2001.4
47.5°	3449.3	3447.7	3541.2	3673.6	3644.1	3452.3	2935.1	2727.5	2710.9	2512.7	2209.0
50°	3305.8	3302.4	3481.8	3730.0	3934.6	3946.0	3446.8	3087.6	3050.8	2768.5	2425.6
52.5°	2847.6	2846.7	3141.4	3554.4	4036.7	4378.3	3952.5	3483.1	3421.6	3039.3	2654.5
55°	2191.0	2206.9	2544.8	3032.9	3850.4	4586.4	4406.5	3922.2	3827.8	3311.8	2865.5
57.5°	1552.2	1575.2	1909.2	2344.0	3272.9	4463.3	4713.6	4362.1	4260.4	3583.5	3079.5
60°	833.7	854.2	1188.7	1707.5	2435.0	4004.6	4875.5	4743.9	4647.9	3841.4	3272.5
62.5°	496.7	503.6	642.0	1102.4	1647.0	3059.4	4806.7	5034.8	4955.8	4058.0	3440.4
65°	356.6	357.9	427.5	673.1	999.9	1858.8	4324.5	5174.0	5149.7	4221.2	3564.6
67.5°	300.2	299.4	328.4	447.2	681.2	931.1	3314.3	4977.1	5080.5	4324.5	3635.2
70°	257.6	258.8	293.0	327.6	512.1	527.1	1647.8	4333.5	4553.9	4351.8	3630.9
72.5°	191.8	196.1	227.7	298.6	386.5	362.6	568.9	3213.2	3611.7	4100.3	3442.6
75°	135.4	137.6	160.2	251.1	288.3	263.9	290.5	1661.0	2171.9	3143.6	2817.6
77.5°	104.2	108.0	121.3	175.6	284.0	185.3	177.6	574.9	883.2	1898.9	1931.8
80°	56.4	63.2	87.5	126.9	199.5	131.1	87.9	228.9	299.4	888.0	744.9
82.5°	29.0	32.5	61.1	91.4	113.6	114.5	43.6	95.2	123.4	274.2	102.1
85°	11.6	14.1	41.0	50.4	58.5	56.4	19.7	38.4	44.4	76.1	31.2
87.5°	2.6	4.3	15.0	11.6	11.1	12.0	4.7	9.0	8.5	9.0	5.5
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°	766.2	766.2	766.2	766.2	766.2	766.2	766.2	766.2	766.2	766.2	766.2
2.5°	770.9	769.3	764.5	759.4	753.4	750.0	747.8	747.4	744.5	742.3	744.5
5°	783.7	782.1	773.1	762.4	750.8	741.9	733.4	725.7	714.5	712.4	711.6
7.5°	809.3	804.7	790.2	775.6	753.9	727.7	696.2	659.9	627.4	617.6	612.9
10°	841.0	834.6	816.2	790.6	742.3	671.4	595.0	524.1	467.7	451.9	445.9
12.5°	876.9	871.4	847.0	799.6	694.0	565.5	448.4	360.5	305.9	292.1	288.3
15°	919.5	911.4	877.7	785.9	607.8	429.7	307.9	255.8	236.2	233.6	231.0
17.5°	964.8	951.6	905.1	736.8	491.6	305.3	237.9	222.9	214.4	211.9	210.5
20°	1006.2	989.2	921.3	662.5	367.4	237.9	213.1	203.3	195.6	192.6	191.0
22.5°	1047.7	1023.4	921.3	561.2	275.5	210.9	195.6	186.7	177.6	173.8	171.7
25°	1090.8	1058.4	905.1	448.4	221.7	193.5	179.0	169.1	161.4	156.7	155.1
27.5°	1132.7	1087.8	867.9	341.7	197.3	178.1	163.6	154.2	146.9	143.5	143.5
30°	1172.4	1116.9	815.8	259.2	181.5	163.2	149.4	141.3	134.1	130.7	131.1
32.5°	1226.2	1153.6	760.2	212.7	167.9	149.0	136.6	128.9	122.6	120.0	120.0
35°	1300.9	1207.9	712.4	208.9	156.3	137.6	125.2	117.9	111.5	109.4	109.4
37.5°	1406.9	1295.4	687.3	234.5	146.9	127.3	115.7	108.0	102.1	100.3	99.9
40°	1537.6	1414.2	700.9	260.1	140.5	118.3	107.2	99.5	94.4	92.2	91.8
42.5°	1692.7	1560.7	776.4	279.7	136.2	110.6	99.1	90.5	87.1	86.3	86.3
45°	1870.7	1721.7	892.3	300.7	129.5	103.3	91.0	84.6	82.0	81.6	81.2
47.5°	2073.2	1898.5	1026.3	326.8	122.6	96.6	84.6	80.3	78.2	77.3	77.3
50°	2274.0	2076.6	1164.3	341.2	117.1	90.1	79.4	76.1	74.3	73.9	73.9
52.5°	2484.1	2259.8	1275.8	327.6	112.3	85.0	75.1	72.6	70.9	70.5	70.5
55°	2684.4	2408.0	1295.0	278.1	102.9	79.8	70.5	69.2	67.0	67.0	66.6
57.5°	2857.0	2482.3	1159.2	204.2	93.6	72.2	65.8	64.5	62.8	62.3	61.9
60°	3015.4	2461.0	894.8	137.6	83.3	64.5	59.8	58.9	57.2	55.1	54.6
62.5°	3104.6	2367.0	612.0	89.7	73.1	56.4	53.0	52.6	48.7	44.4	43.6
65°	3138.4	2174.0	381.8	65.4	61.1	48.3	45.7	44.9	39.3	34.6	34.1
67.5°	3108.9	1856.3	192.6	51.7	48.3	40.2	37.6	37.6	33.7	29.5	29.0
70°	2991.1	1391.5	81.2	41.4	37.2	30.7	30.7	32.5	28.6	23.9	23.5
72.5°	2735.2	936.2	43.2	31.6	27.8	21.8	25.2	26.4	22.7	17.9	17.9
75°	2174.4	571.0	29.9	23.5	17.5	15.4	19.3	20.1	15.4	12.0	11.6
77.5°	1487.2	328.0	20.1	15.0	11.1	9.0	13.2	12.4	8.1	5.5	5.9
80°	653.0	136.6	11.6	6.9	4.3	3.4	4.7	3.4	2.6	1.7	1.7
82.5°	76.5	32.1	4.3	2.6	1.7	0.8	0.4	0.0	0.0	0.0	0.0
85°	15.8	3.9	2.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	0.8	0.4	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)