

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: P960388

Luminaire Tested: **NAV-SB1C-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6371.4 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

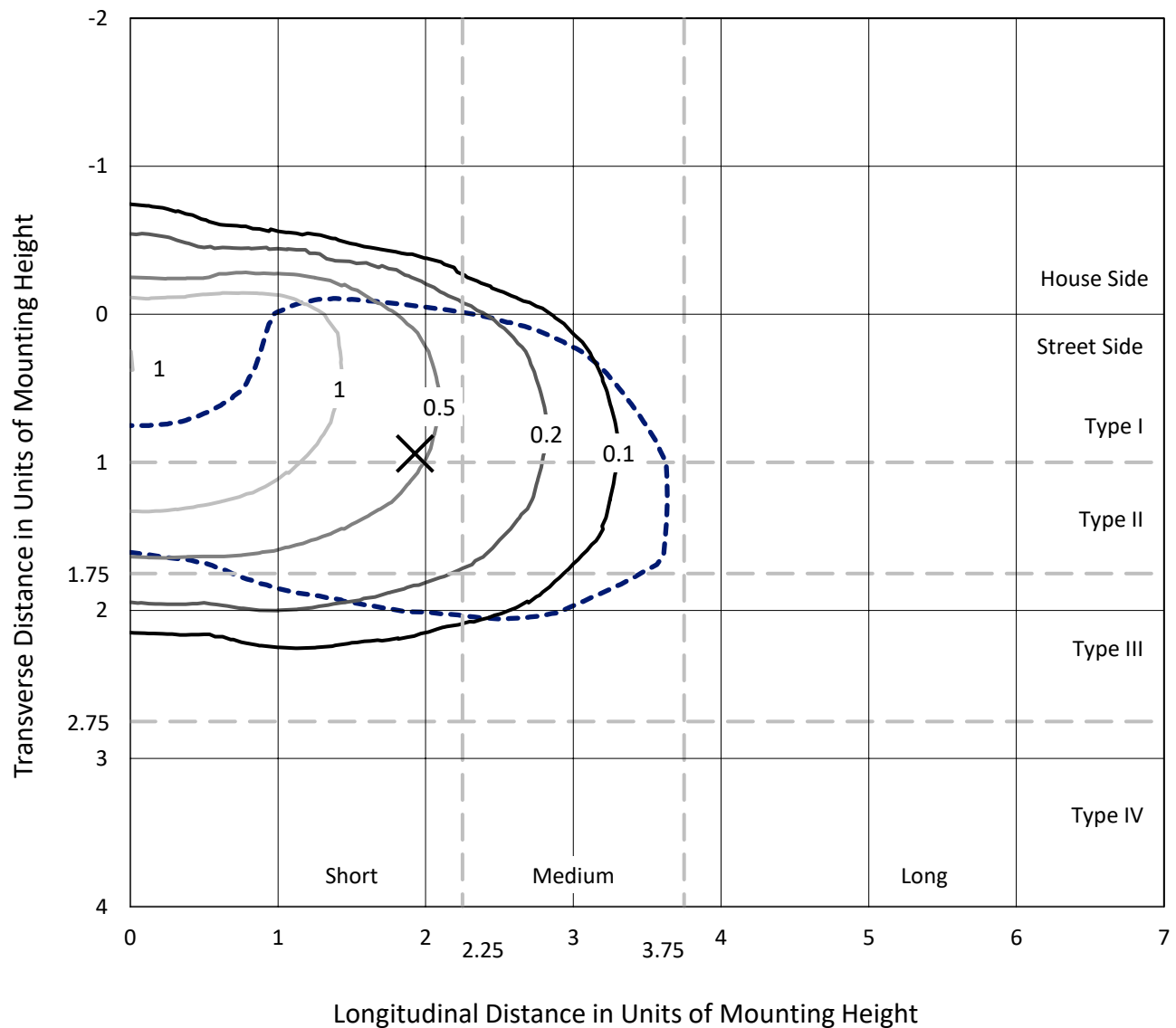


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

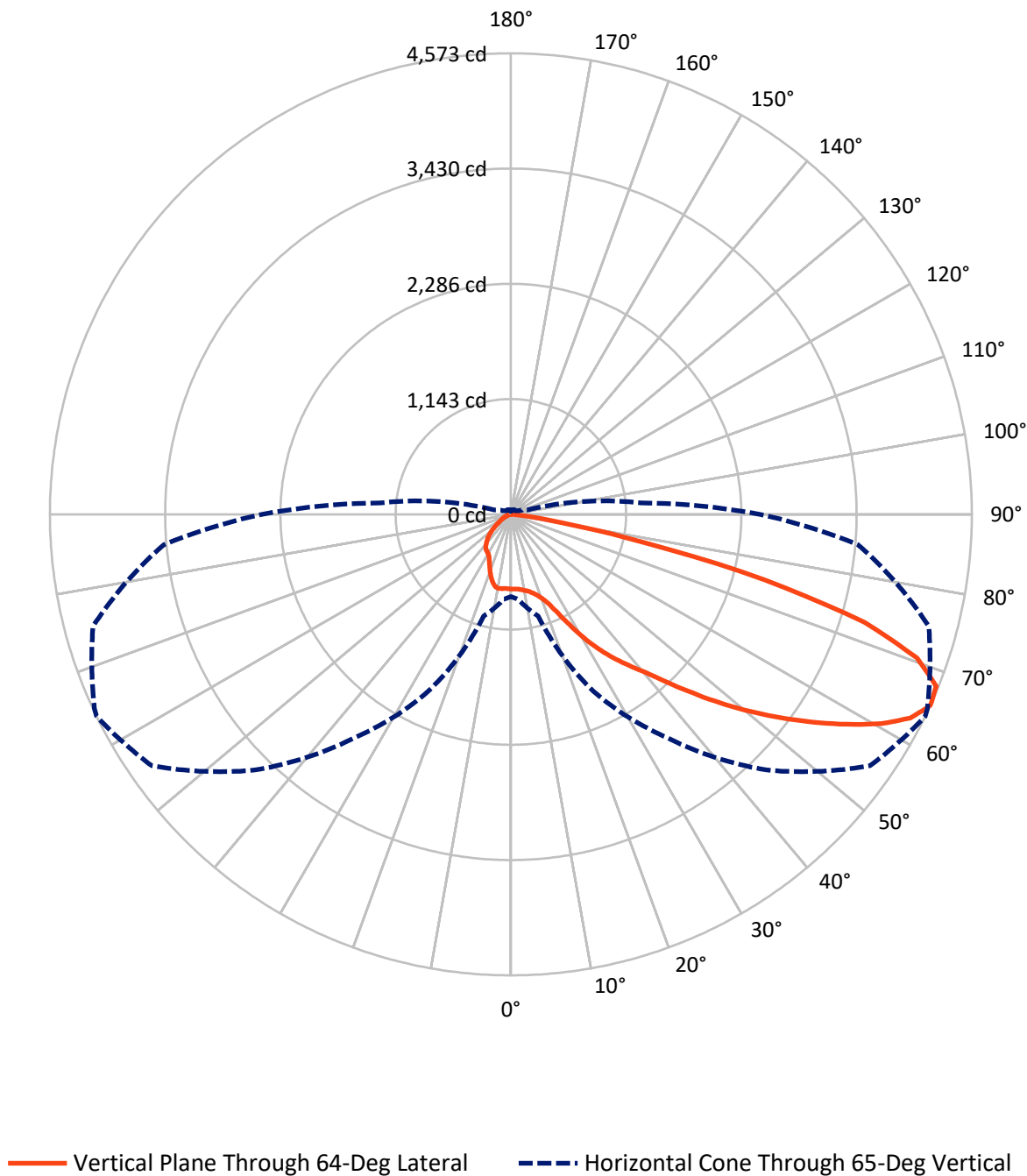


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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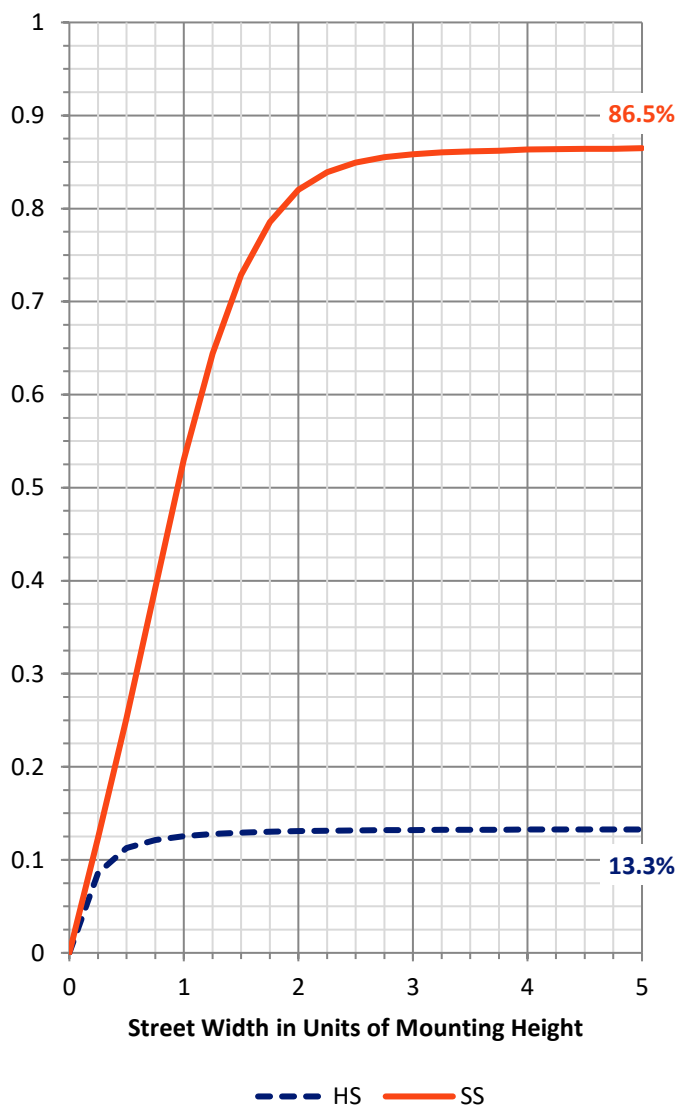
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	852.0	0.0	852.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5519.4	0.0	5519.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	6371.4	0.0	6371.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	1.1
10°-20°	185.4	2.9
20°-30°	351.4	5.5
30°-40°	711.1	11.2
40°-50°	1211.3	19.0
50°-60°	1647.3	25.9
60°-70°	1546.9	24.3
70°-80°	619.7	9.7
80°-90°	30.0	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°	6371.4	100.0
0°-180°	6371.4	100.0

Coefficient of Utilization



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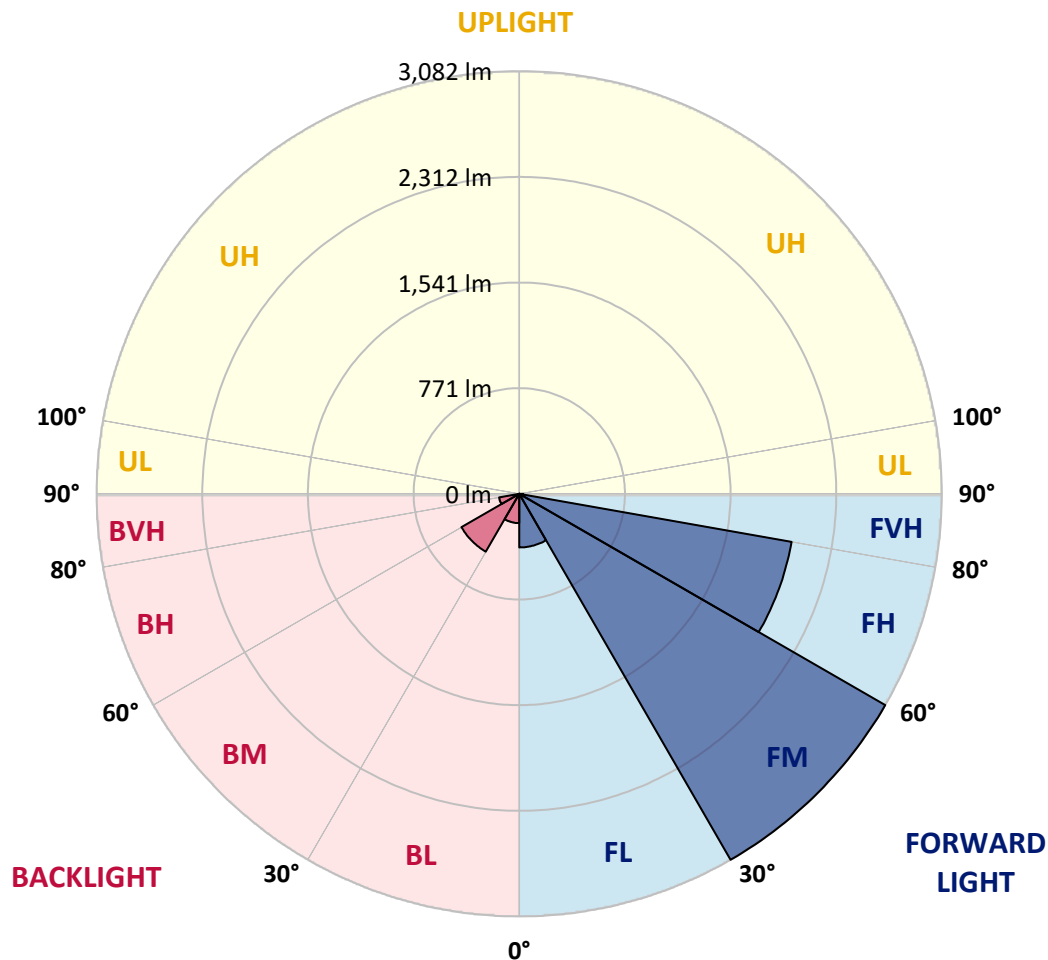
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	391.3	6.1			
FM	(30°-60°)	3082.5	48.4			
FH	(60°-80°)	2017.0	31.7			G2/5000
FVH	(80°-90°)	28.6	0.4			G1/100
BL	(0°-30°)	213.9	3.4	B1/500		
BM	(30°-60°)	487.1	7.6	B1/1000		
BH	(60°-80°)	149.5	2.3	B1/500		G1/500
BVH	(80°-90°)	1.5	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1
2.5°	738.5	743.6	742.3	741.1	740.7	741.5	741.9	741.5	741.5	741.5	741.9
5°	724.4	728.7	728.7	731.6	735.9	741.1	744.9	745.8	746.6	747.9	747.4
7.5°	697.5	700.9	703.5	713.3	724.0	737.7	749.2	755.1	756.0	760.8	762.4
10°	679.2	683.4	687.7	697.9	713.3	733.8	753.5	767.9	770.1	781.3	786.4
12.5°	678.2	682.5	688.1	699.2	717.1	738.9	762.8	783.8	787.6	803.8	814.6
15°	687.3	692.4	697.5	711.1	730.4	756.9	782.5	808.5	812.4	835.5	847.0
17.5°	705.6	712.5	716.3	730.0	750.5	779.9	813.6	843.6	847.0	873.9	888.4
20°	741.9	750.0	751.3	762.4	782.5	814.1	854.2	891.4	895.6	926.4	942.7
22.5°	817.1	828.6	818.4	823.9	841.8	873.5	917.1	964.0	970.0	1005.0	1019.6
25°	949.5	965.8	939.2	929.9	937.6	970.5	1025.1	1084.4	1091.3	1119.5	1126.8
27.5°	1209.6	1188.7	1148.5	1109.3	1086.2	1104.9	1166.4	1239.9	1248.4	1275.8	1267.3
30°	1495.4	1477.0	1422.7	1335.6	1280.9	1278.0	1334.8	1416.8	1426.6	1452.6	1426.6
32.5°	1781.6	1764.0	1705.1	1597.9	1503.1	1456.1	1495.4	1586.3	1591.4	1608.1	1569.7
35°	2063.0	2045.1	1986.1	1876.4	1759.7	1653.0	1645.3	1747.8	1749.5	1767.0	1709.8
37.5°	2346.2	2331.3	2268.4	2160.8	2045.9	1898.6	1827.3	1900.7	1902.8	1919.9	1860.6
40°	2548.3	2554.6	2511.5	2428.2	2329.5	2168.5	2031.4	2063.4	2050.6	2079.2	2043.7
42.5°	2721.7	2734.5	2696.9	2655.0	2597.8	2456.0	2284.2	2278.7	2258.2	2273.6	2236.9
45°	2871.5	2882.2	2848.5	2838.6	2837.4	2737.9	2560.7	2527.3	2498.6	2495.7	2451.7
47.5°	2926.7	2947.2	2961.6	2994.5	3058.6	3016.8	2846.3	2794.7	2762.7	2739.1	2669.5
50°	2947.6	2969.3	3018.9	3114.6	3266.3	3284.2	3130.9	3072.7	3033.4	2990.7	2888.2
52.5°	2919.4	2958.3	3024.9	3185.9	3405.9	3498.5	3403.7	3352.9	3308.1	3238.5	3086.4
55°	2753.3	2792.1	2928.3	3185.1	3475.5	3648.9	3661.7	3639.1	3588.7	3479.0	3246.6
57.5°	2403.0	2460.6	2676.4	3076.5	3474.2	3778.4	3914.6	3930.8	3874.4	3717.3	3372.6
60°	1917.8	1996.0	2259.1	2836.1	3367.0	3848.4	4136.3	4217.5	4157.6	3952.2	3474.6
62.5°	1338.1	1428.7	1677.7	2459.4	3121.8	3798.0	4298.1	4448.1	4402.8	4162.3	3513.9
65°	816.2	845.3	1046.0	1935.3	2705.0	3587.0	4348.2	4572.8	4557.9	4290.9	3455.9
67.5°	543.8	568.1	625.8	1327.1	2099.7	3165.4	4228.5	4551.0	4555.3	4269.9	3243.2
70°	327.6	348.5	386.1	771.8	1360.8	2505.5	3858.2	4273.3	4298.1	3990.2	2840.0
72.5°	135.0	149.0	183.3	349.8	704.8	1590.2	3072.3	3669.0	3726.7	3355.0	2179.7
75°	76.5	83.7	107.6	175.6	305.9	741.1	1861.0	2604.6	2689.6	2312.4	1311.3
77.5°	50.8	54.2	69.6	113.6	172.1	252.9	795.3	1357.0	1519.3	1263.0	567.6
80°	34.1	37.2	47.9	76.1	111.9	108.4	253.3	502.8	618.5	434.0	138.4
82.5°	23.1	23.5	34.1	50.0	70.9	52.6	74.7	156.3	196.5	125.6	52.6
85°	13.2	12.8	25.2	29.0	31.6	21.8	22.7	46.9	61.5	53.0	29.9
87.5°	1.7	2.6	9.8	7.7	4.3	4.7	4.7	8.1	12.0	12.8	6.5
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°	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1
2.5°	741.9	741.5	740.3	738.9	735.9	734.2	735.1	734.2	733.8	734.2	735.9
5°	747.4	746.2	742.8	738.5	732.6	725.3	720.6	713.7	707.4	703.5	704.3
7.5°	762.4	761.2	756.4	744.5	725.3	694.9	667.2	642.8	624.4	613.8	614.2
10°	786.4	784.2	776.9	750.5	700.1	633.9	578.7	533.0	503.2	489.0	487.8
12.5°	814.6	812.0	799.2	744.9	652.2	548.9	472.8	422.0	394.2	381.8	380.6
15°	847.9	844.4	819.2	718.4	582.6	454.9	385.3	347.3	329.3	318.2	318.7
17.5°	889.3	883.2	834.1	678.7	507.0	383.1	331.5	302.8	287.0	276.3	275.5
20°	943.1	933.3	846.1	631.3	437.4	337.8	295.1	271.2	259.2	249.9	248.2
22.5°	1018.2	1004.2	860.7	580.0	388.3	306.7	268.2	250.7	240.9	230.2	228.5
25°	1111.4	1094.7	878.6	532.6	354.5	279.7	248.6	234.1	222.5	210.1	208.9
27.5°	1241.7	1211.8	900.0	493.7	325.4	256.7	230.6	214.4	201.2	191.0	188.8
30°	1386.8	1337.7	918.7	470.3	299.0	235.3	207.2	191.0	178.6	171.3	169.9
32.5°	1524.4	1457.8	931.1	460.0	275.1	211.0	181.5	164.0	154.6	152.5	153.8
35°	1654.2	1566.3	929.9	450.2	253.7	186.7	156.3	138.4	131.1	132.4	132.4
37.5°	1803.8	1682.0	920.9	434.8	236.2	164.4	134.6	118.7	112.3	112.7	114.5
40°	1977.5	1815.7	915.3	405.8	217.0	143.9	116.6	103.8	99.1	97.4	97.0
42.5°	2163.0	1945.1	916.1	372.9	193.1	125.6	104.2	93.6	89.3	87.9	87.5
45°	2349.2	2068.6	917.5	338.7	167.9	111.5	95.2	86.3	83.7	82.0	82.0
47.5°	2524.3	2173.6	893.5	302.0	143.1	100.8	87.9	82.0	79.8	77.7	77.7
50°	2687.4	2243.7	835.9	259.2	123.4	92.2	82.4	78.2	76.1	73.9	73.9
52.5°	2814.3	2254.8	740.7	215.2	109.8	85.9	79.0	75.1	72.6	70.5	70.0
55°	2870.7	2185.2	605.3	174.2	99.1	80.3	75.6	71.8	68.8	66.6	66.2
57.5°	2856.2	2038.6	472.0	140.1	88.9	74.7	71.3	68.8	65.4	61.9	61.5
60°	2784.8	1842.6	355.8	116.6	79.4	68.8	66.6	64.5	59.8	54.6	53.8
62.5°	2661.4	1596.1	253.7	96.6	69.2	61.9	61.1	59.3	52.6	43.2	42.3
65°	2472.6	1296.7	170.9	80.3	59.3	54.2	54.6	51.7	42.7	32.1	31.2
67.5°	2196.7	948.2	109.4	65.8	49.5	45.3	45.7	44.0	36.3	27.4	26.0
70°	1845.2	627.9	71.3	50.0	39.8	35.1	37.6	38.0	30.7	22.2	21.3
72.5°	1352.7	370.7	50.0	37.2	29.0	24.4	30.7	31.6	24.8	16.7	15.8
75°	771.0	176.0	37.6	27.0	17.9	17.1	23.9	23.9	17.1	11.1	10.2
77.5°	323.8	73.5	26.4	17.5	10.2	9.8	16.2	15.0	8.5	5.1	5.1
80°	93.6	32.9	14.1	8.5	4.3	3.9	6.5	4.7	2.2	0.8	0.8
82.5°	36.7	14.6	5.5	3.4	1.7	1.7	0.8	0.0	0.0	0.0	0.0
85°	21.8	5.9	2.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	1.3	0.8	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)