

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: P960483

Luminaire Tested: **NAV-SB1C-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6855.2 lumens
Efficiency: N/A
Efficacy: 126.0 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): 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

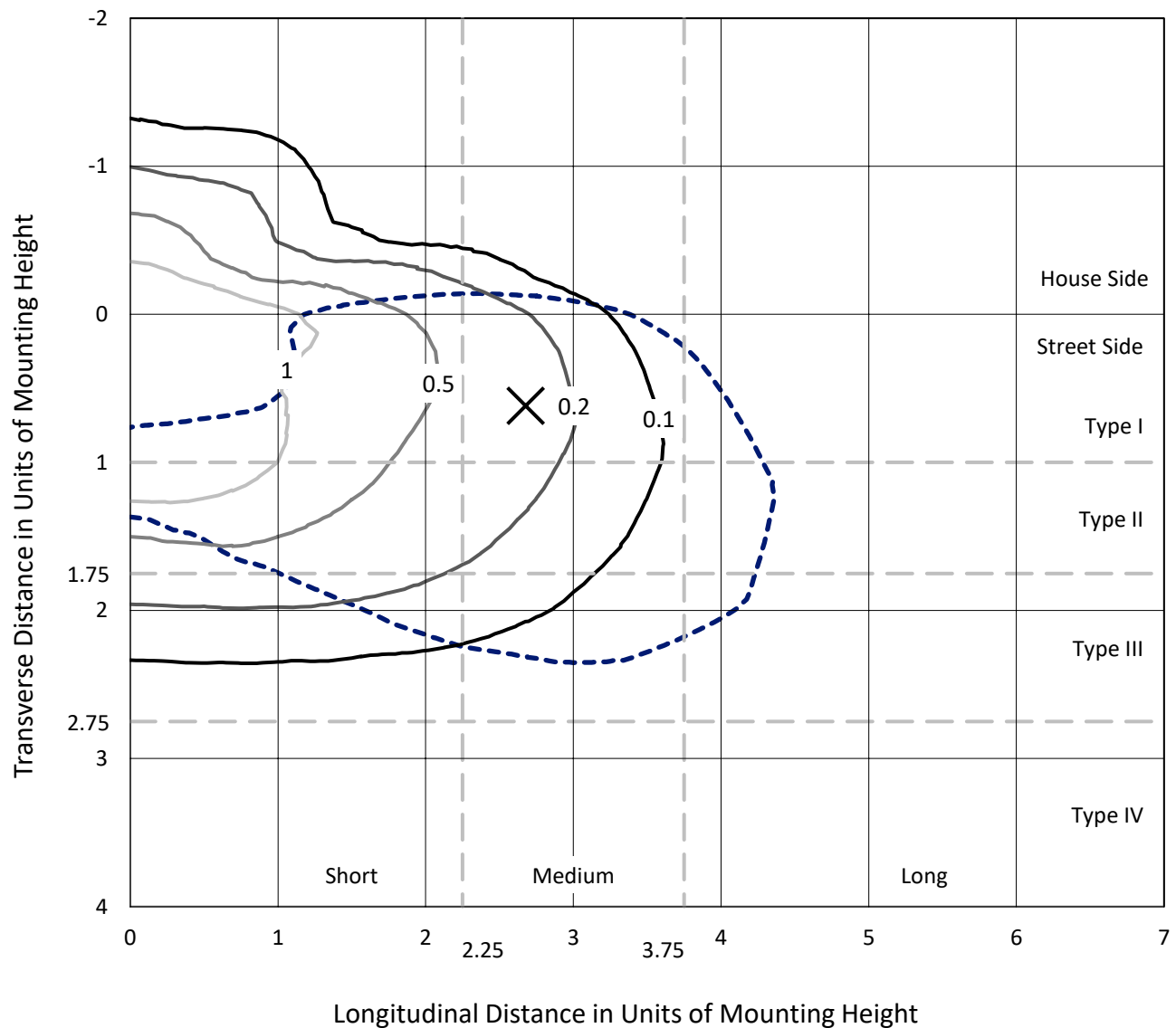


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Iso-Footcandle Lines of Horizontal Illumination

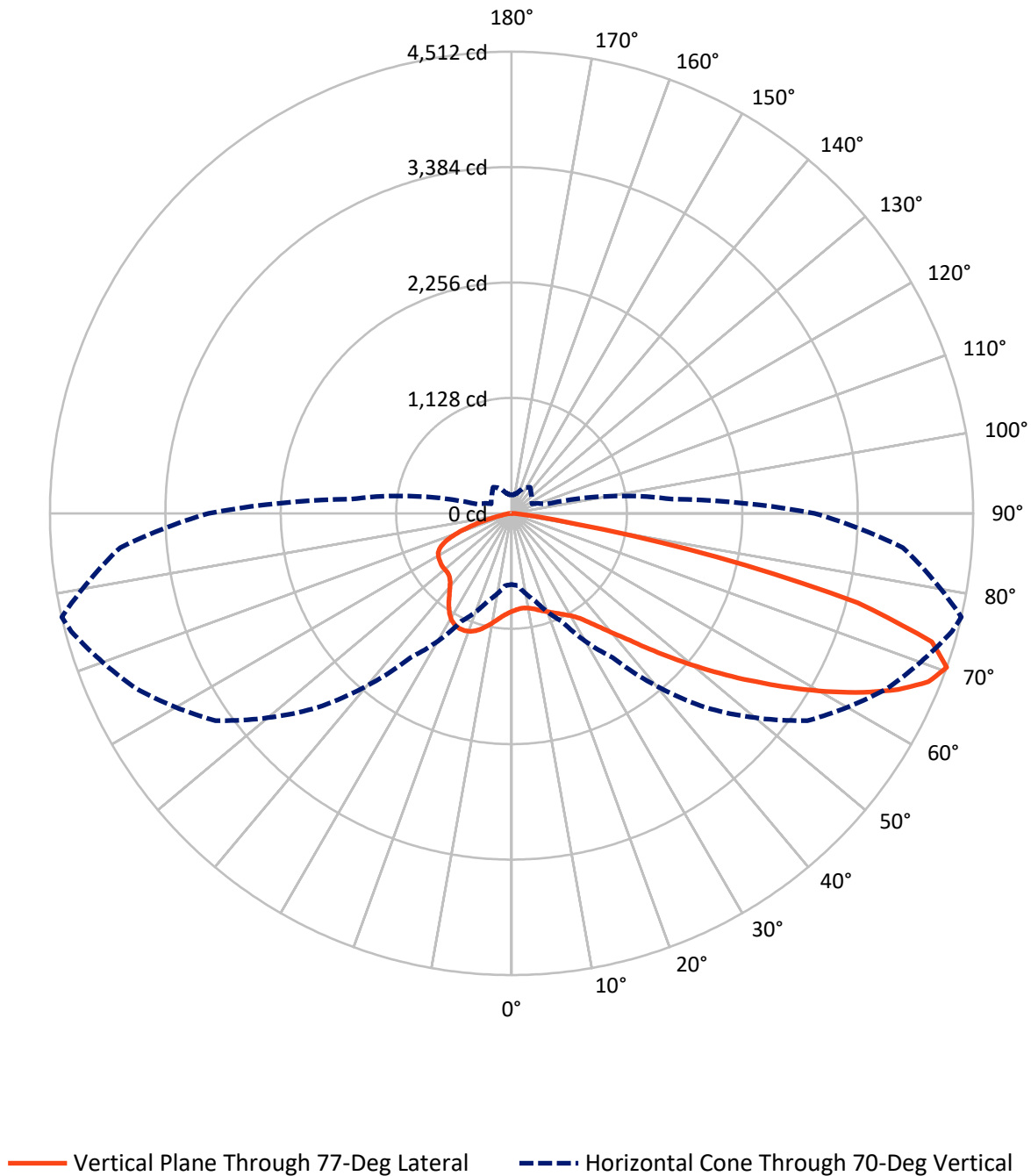
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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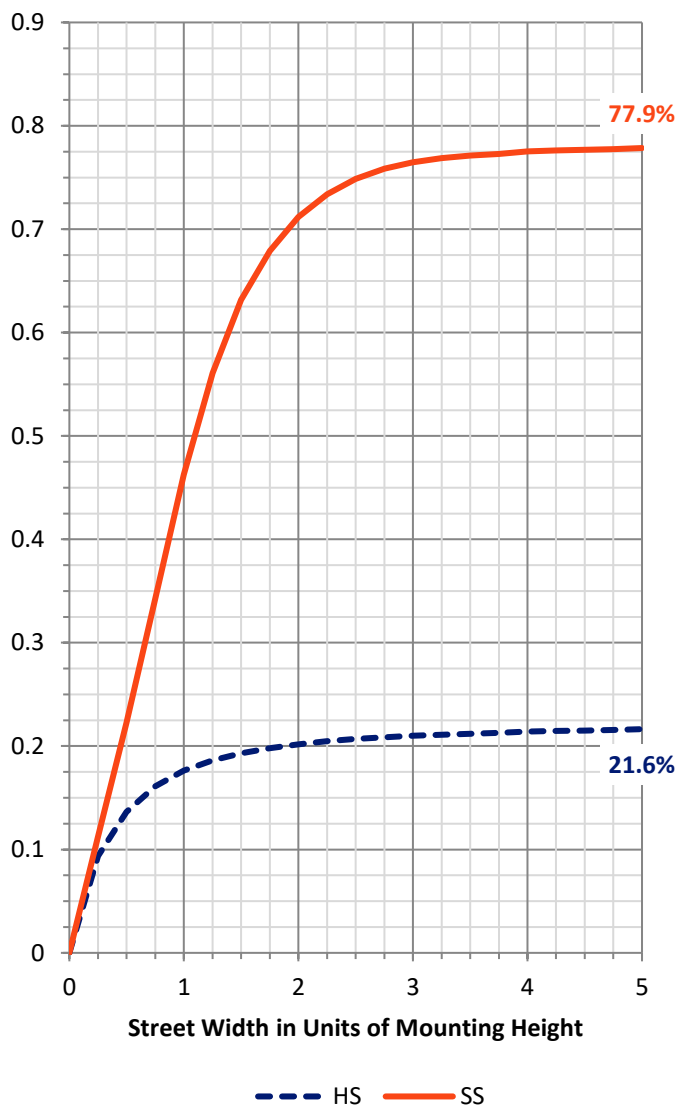
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1501.2	0.0	1501.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5354.0	0.0	5354.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	6855.2	0.0	6855.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.3
10°-20°	263.2	3.8
20°-30°	450.2	6.6
30°-40°	723.9	10.6
40°-50°	1130.3	16.5
50°-60°	1509.8	22.0
60°-70°	1609.2	23.5
70°-80°	990.6	14.5
80°-90°	86.8	1.3
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°	6855.2	100.0
0°-180°	6855.2	100.0

Coefficient of Utilization



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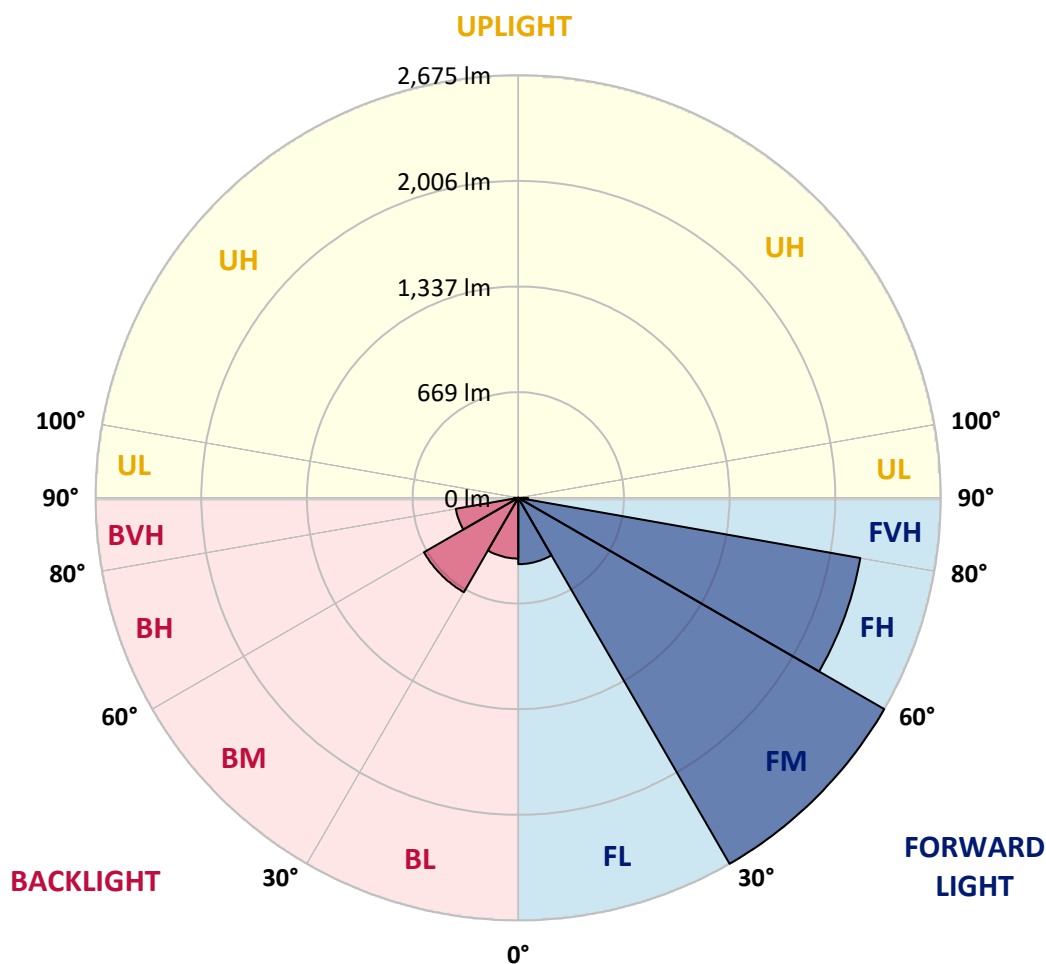
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	420.0	6.1			
FM	(30°-60°)	2674.8	39.0			
FH	(60°-80°)	2198.6	32.1			G2/5000
FVH	(80°-90°)	60.7	0.9			G1/100
BL	(0°-30°)	384.6	5.6	B1/500		
BM	(30°-60°)	689.2	10.1	B1/1000		
BH	(60°-80°)	401.2	5.9	B1/500		G1/500
BVH	(80°-90°)	26.1	0.4			G1/100
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°	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3
2.5°	881.6	881.2	885.8	887.2	895.6	901.6	912.9	924.8	940.2	942.0	951.4
5°	830.7	830.7	836.0	841.5	852.4	864.4	881.6	902.3	929.0	933.2	956.7
7.5°	787.5	790.3	794.9	805.8	818.4	835.6	861.9	891.4	926.5	933.2	971.1
10°	752.8	755.9	761.5	770.3	789.2	813.1	847.6	885.4	932.4	943.0	992.2
12.5°	741.9	745.0	748.1	754.8	772.4	800.5	841.5	888.3	946.9	957.5	1021.0
15°	767.1	771.0	768.5	766.8	775.9	801.6	844.4	898.4	964.8	979.9	1056.5
17.5°	825.4	826.8	821.2	804.7	803.3	817.0	857.7	912.5	987.3	1003.8	1092.2
20°	919.5	917.1	905.5	872.8	854.2	851.4	880.6	933.6	1010.4	1028.0	1130.9
22.5°	1047.3	1044.5	1021.3	969.8	928.2	900.9	913.5	960.9	1036.4	1056.1	1168.4
25°	1206.7	1202.8	1168.8	1098.6	1034.3	966.6	958.5	997.1	1068.4	1086.6	1207.8
27.5°	1392.8	1389.6	1352.7	1260.0	1167.4	1056.5	1014.3	1039.6	1101.7	1122.5	1251.9
30°	1592.8	1602.0	1536.7	1437.0	1319.7	1173.7	1089.5	1091.9	1144.9	1163.5	1305.6
32.5°	1828.1	1843.9	1765.3	1638.9	1478.8	1301.1	1184.2	1164.9	1207.8	1223.2	1373.5
35°	2061.3	2079.1	2013.8	1874.1	1689.8	1451.4	1283.2	1248.9	1291.3	1308.1	1463.3
37.5°	2262.8	2286.7	2253.0	2131.5	1915.5	1632.5	1412.4	1347.5	1394.2	1415.2	1584.1
40°	2421.8	2458.4	2455.9	2380.0	2181.6	1852.4	1576.3	1469.3	1521.9	1544.8	1730.5
42.5°	2551.0	2582.6	2610.0	2606.2	2459.4	2102.0	1769.2	1627.6	1667.7	1694.0	1895.1
45°	2640.2	2673.9	2732.9	2796.4	2726.5	2369.2	1989.9	1815.5	1852.0	1891.6	2091.4
47.5°	2719.8	2758.2	2834.6	2935.4	2953.3	2637.3	2231.8	2034.2	2067.5	2108.6	2288.4
50°	2726.9	2759.9	2878.6	3021.5	3114.5	2895.1	2491.7	2279.6	2310.9	2354.7	2499.4
52.5°	2557.3	2609.2	2816.4	3019.0	3188.6	3110.7	2749.8	2534.8	2570.0	2622.7	2717.8
55°	1985.0	2061.3	2634.2	2924.9	3162.2	3250.1	2995.2	2806.2	2851.1	2906.3	2937.5
57.5°	1709.8	1743.1	2091.1	2753.6	3042.2	3286.2	3202.3	3080.4	3152.8	3213.2	3170.0
60°	1536.7	1564.5	1770.2	2487.1	2884.1	3229.0	3362.4	3336.1	3461.0	3533.0	3407.6
62.5°	1351.4	1377.7	1564.8	2076.6	2681.9	3133.8	3463.5	3571.9	3777.0	3855.6	3631.7
65°	1167.4	1189.8	1369.2	1744.9	2424.9	3038.7	3515.7	3776.0	4069.5	4150.9	3817.7
67.5°	962.4	980.9	1150.6	1472.1	2112.5	2908.4	3541.8	3936.4	4324.0	4393.9	3909.8
70°	694.4	708.9	884.1	1164.2	1720.4	2684.4	3531.2	4050.2	4456.0	4511.8	3840.2
72.5°	328.3	341.2	547.0	755.9	1215.1	2248.3	3318.1	3959.9	4321.9	4294.1	3414.7
75°	175.2	186.4	314.3	414.6	641.8	1541.3	2715.3	3411.2	3629.2	3494.3	2523.7
77.5°	118.7	127.4	194.5	248.9	293.2	731.6	1745.3	2361.8	2272.2	2049.7	1263.9
80°	94.1	103.2	159.4	168.5	141.9	264.3	721.1	1093.3	785.4	628.1	359.5
82.5°	72.4	82.5	134.1	122.2	77.3	108.4	209.9	345.8	201.2	153.0	87.0
85°	44.3	55.1	105.4	77.9	43.6	49.5	71.2	96.2	61.4	51.2	31.3
87.5°	22.4	31.6	53.4	28.4	19.7	11.6	19.0	19.0	16.2	14.0	8.1
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°	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3	956.3
2.5°	959.9	966.9	978.9	990.0	998.9	1007.3	1015.7	1020.3	1021.6	1027.3	1030.4
5°	971.1	984.1	1007.3	1029.0	1042.7	1051.1	1057.1	1060.7	1061.4	1063.1	1065.9
7.5°	991.8	1012.5	1044.9	1066.6	1076.8	1076.0	1073.6	1064.9	1061.4	1058.2	1058.9
10°	1021.0	1048.4	1088.0	1103.1	1096.8	1079.9	1058.2	1032.6	1020.6	1009.0	1005.5
12.5°	1057.1	1091.9	1130.9	1130.2	1098.9	1055.8	1005.1	965.9	941.0	923.0	918.8
15°	1101.1	1141.0	1170.9	1147.0	1078.5	1000.9	926.9	875.7	853.1	833.5	831.4
17.5°	1146.3	1189.1	1202.8	1141.7	1027.3	919.8	836.0	795.6	773.5	762.9	766.1
20°	1190.5	1233.0	1221.8	1111.5	949.4	827.9	753.1	730.9	726.4	728.9	727.9
22.5°	1237.3	1275.1	1225.7	1053.3	850.0	733.8	692.7	693.4	703.6	710.9	712.7
25°	1284.9	1310.6	1215.4	969.0	743.2	664.6	654.5	665.6	685.7	700.1	704.0
27.5°	1331.0	1342.2	1193.3	864.7	651.6	615.1	616.8	640.0	670.2	690.2	695.2
30°	1382.9	1370.3	1150.9	747.4	588.0	572.7	587.3	614.4	644.6	662.5	666.8
32.5°	1441.6	1394.5	1083.4	639.0	543.1	538.5	562.8	580.4	593.7	598.9	601.8
35°	1514.6	1428.5	997.1	562.8	502.8	513.6	536.8	528.1	522.8	520.0	522.8
37.5°	1609.4	1474.6	896.0	513.3	470.1	495.7	505.2	477.9	457.2	446.9	449.4
40°	1723.5	1542.0	798.7	475.0	449.4	480.3	463.8	430.8	404.5	390.0	391.1
42.5°	1850.2	1612.5	716.9	446.2	437.8	467.6	433.3	393.9	351.5	346.9	351.5
45°	1983.3	1685.2	661.1	424.1	432.1	456.7	415.6	352.2	322.0	340.5	350.3
47.5°	2116.3	1751.9	627.4	407.6	429.4	444.4	400.3	328.9	307.6	334.6	347.3
50°	2264.5	1811.6	612.3	395.6	426.2	439.5	377.1	323.0	292.4	310.4	323.7
52.5°	2411.6	1857.9	601.1	383.8	421.7	435.7	365.8	316.0	274.2	275.2	282.6
55°	2558.4	1888.2	588.8	368.0	411.4	427.3	364.8	308.2	260.6	255.6	259.1
57.5°	2714.9	1905.4	573.7	350.3	393.9	405.9	363.8	302.3	256.2	248.3	249.3
60°	2874.3	1930.6	554.0	328.9	370.4	380.3	361.3	300.2	253.8	240.2	241.2
62.5°	3017.3	1939.4	530.5	308.6	340.2	355.0	356.0	298.4	247.1	223.7	223.7
65°	3111.0	1901.5	489.4	285.5	307.6	328.9	345.8	292.4	235.2	211.7	211.7
67.5°	3107.1	1793.3	425.2	255.6	275.9	300.2	331.1	282.3	220.8	197.0	198.0
70°	2962.5	1579.9	343.7	220.8	241.2	269.3	312.1	267.2	203.7	180.8	183.0
72.5°	2540.9	1236.6	249.6	180.1	200.8	237.3	287.5	248.9	186.0	166.5	165.3
75°	1815.2	782.6	169.2	138.4	156.2	201.2	257.0	227.6	169.9	167.1	157.6
77.5°	927.2	373.9	112.0	101.1	108.9	158.7	216.0	203.3	172.4	138.0	122.9
80°	301.6	138.0	70.5	68.8	72.4	105.7	167.1	166.8	130.6	93.8	82.8
82.5°	96.2	59.3	46.0	44.3	42.4	66.3	116.5	132.0	88.1	59.3	58.9
85°	38.2	35.5	27.1	24.9	17.9	31.3	61.1	87.7	65.7	42.8	43.9
87.5°	14.0	14.0	7.4	5.2	3.9	10.6	16.5	26.3	37.6	22.1	21.7
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)