

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: P959444

Luminaire Tested: **NAV-SB1A-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-830-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

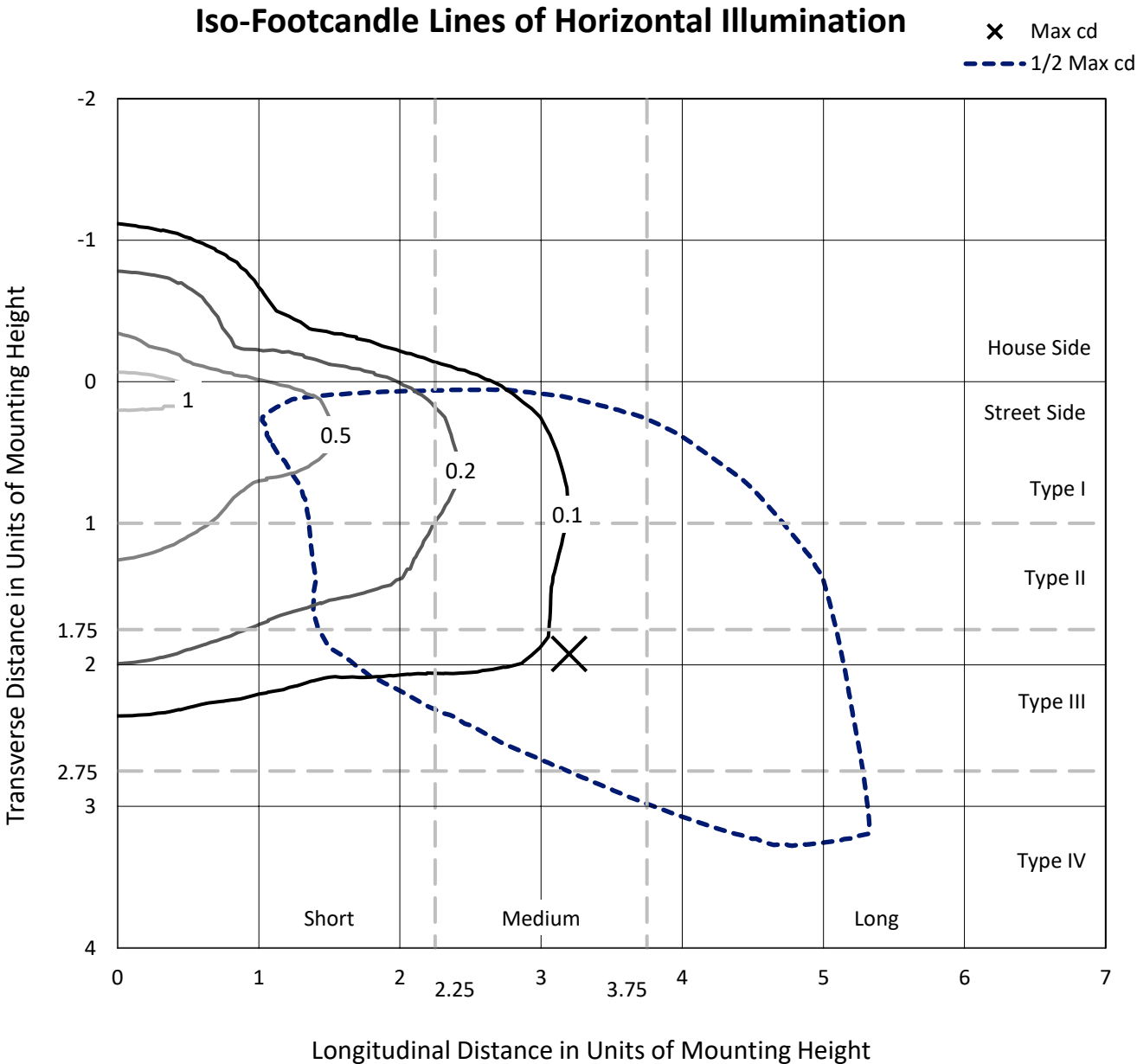
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4039.5 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 30.9
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



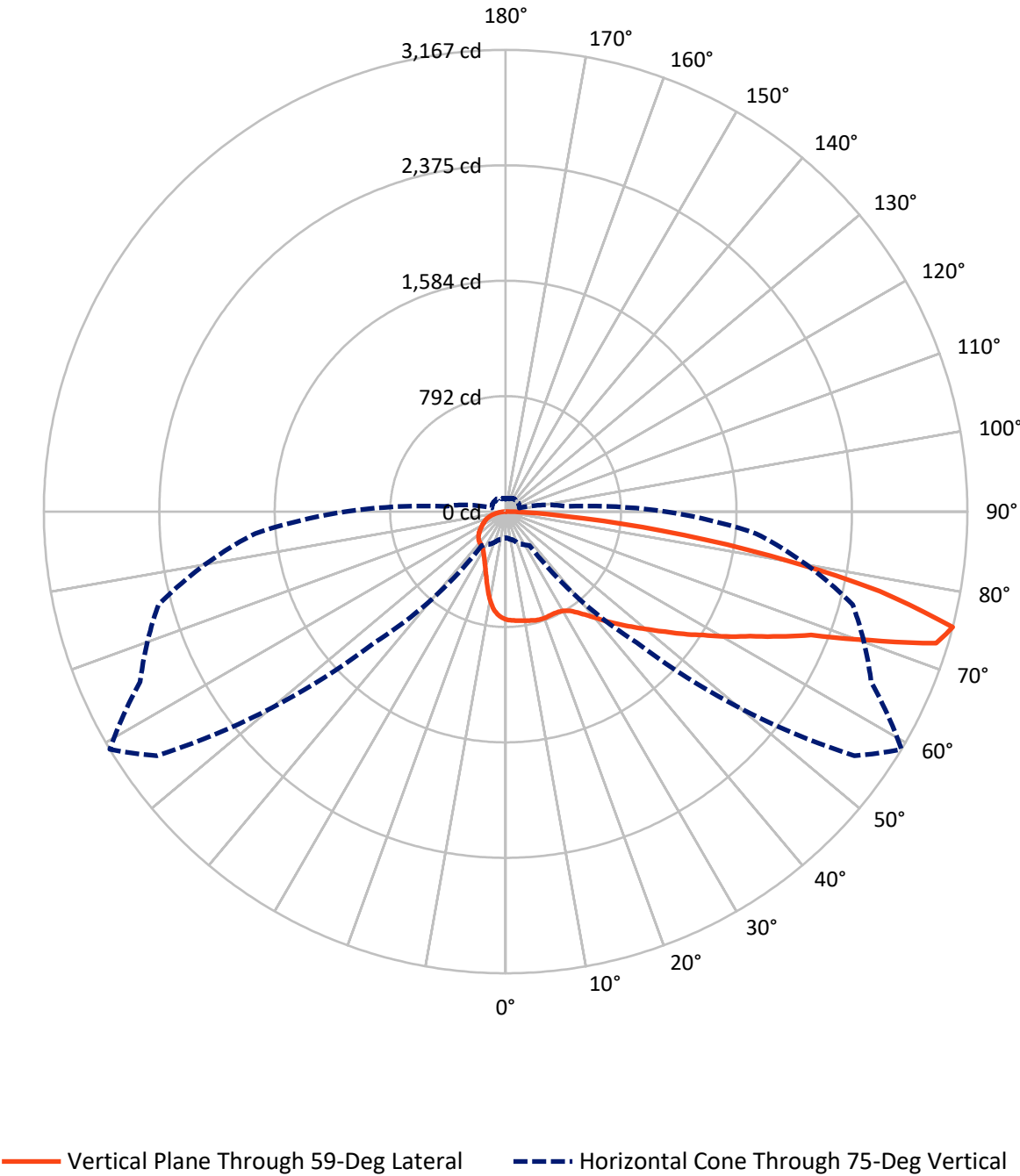
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Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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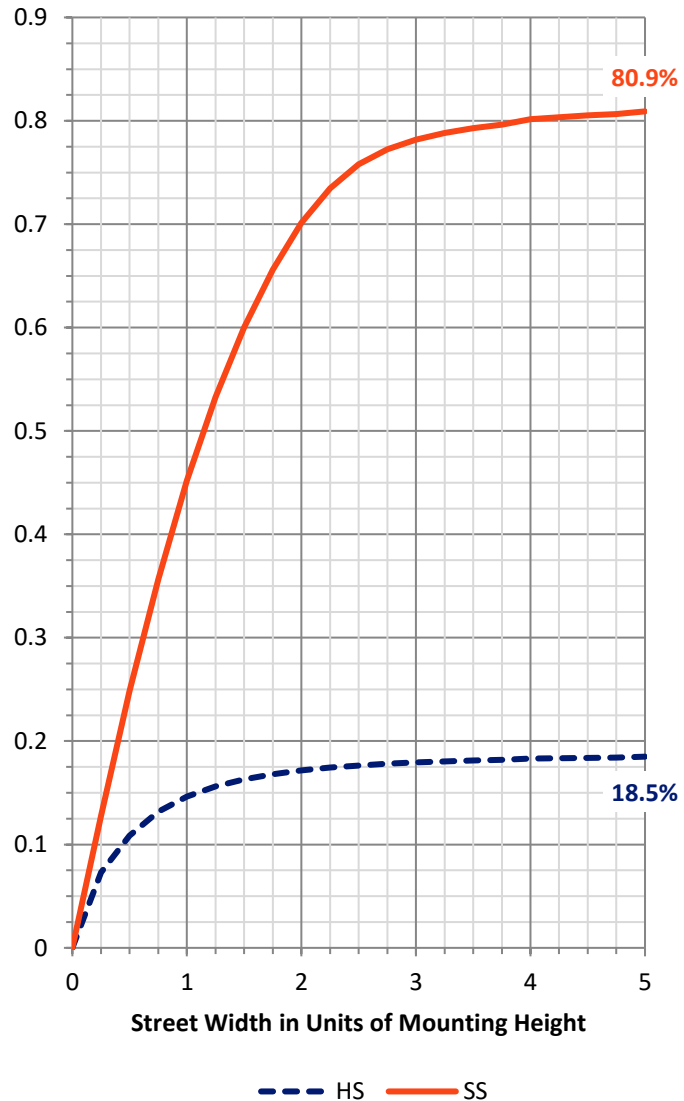
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	757.6	0.0	757.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3281.9	0.0	3281.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	4039.5	0.0	4039.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.6
10°-20°	169.9	4.2
20°-30°	258.1	6.4
30°-40°	383.7	9.5
40°-50°	570.6	14.1
50°-60°	774.5	19.2
60°-70°	945.6	23.4
70°-80°	742.1	18.4
80°-90°	128.5	3.2
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°	4039.5	100.0
0°-180°	4039.5	100.0

Coefficient of Utilization



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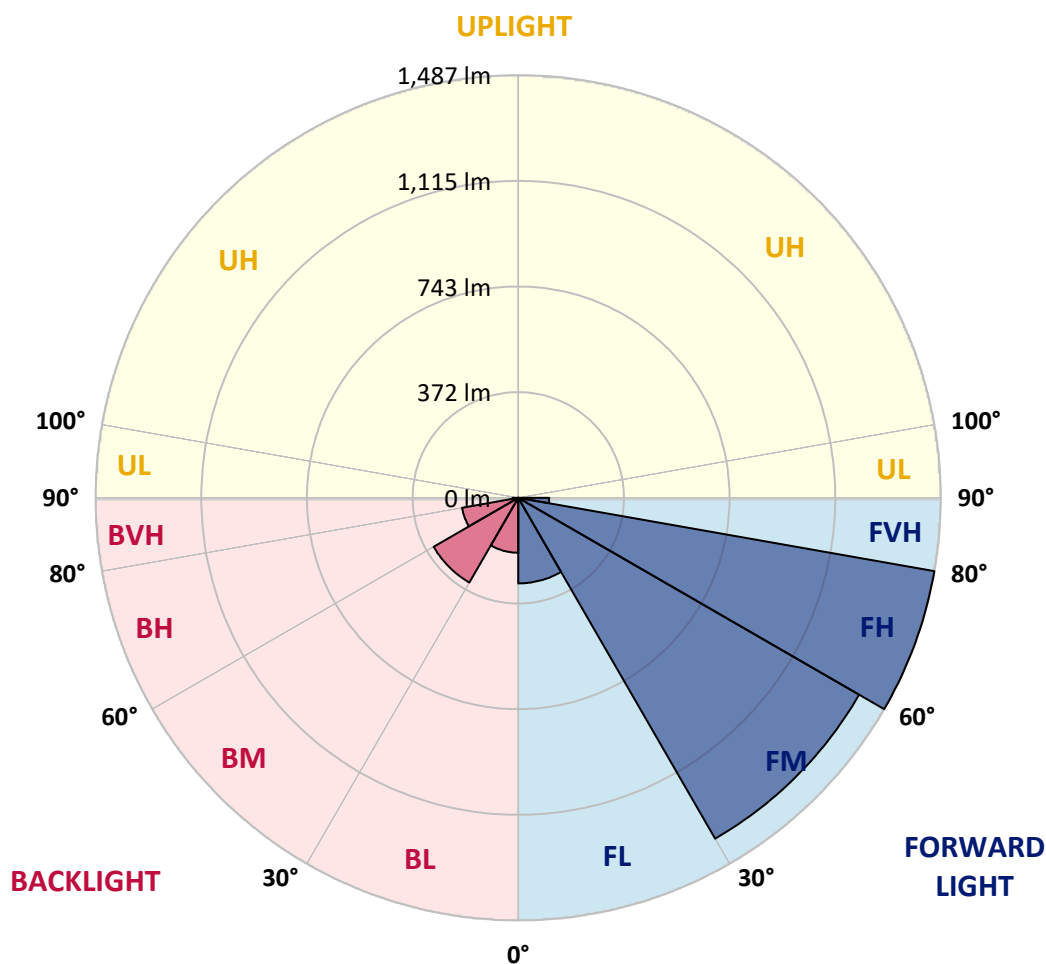
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.2	7.5			
FM	(30°-60°)	1384.9	34.3			
FH	(60°-80°)	1486.9	36.8			G1/1800
FVH	(80°-90°)	108.9	2.7			G2/225
BL	(0°-30°)	193.3	4.8	B1/500		
BM	(30°-60°)	343.9	8.5	B1/1000		
BH	(60°-80°)	200.7	5.0	B1/500		G1/500
BVH	(80°-90°)	19.7	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	741.5	741.5	741.5	741.5	741.5	741.5	741.5	741.5	741.5	741.5	741.5
2.5°	747.7	745.2	747.7	746.6	746.2	745.4	745.6	747.1	746.2	747.3	743.6
5°	742.7	741.2	743.8	743.2	746.0	746.4	749.3	751.0	752.1	752.3	749.5
7.5°	734.5	733.0	736.7	739.7	745.8	747.5	753.4	756.2	757.8	760.3	756.2
10°	704.3	703.7	712.8	724.3	738.6	747.5	756.4	761.3	763.6	770.6	765.8
12.5°	650.9	651.7	663.7	685.8	714.5	743.2	759.9	766.9	770.6	779.3	777.1
15°	599.7	599.5	612.5	636.3	676.5	724.1	761.7	773.6	779.9	792.7	791.0
17.5°	570.2	569.4	578.5	596.6	633.9	694.7	757.3	777.3	790.8	806.9	805.3
20°	564.8	563.0	567.8	576.8	603.2	662.6	746.0	777.3	799.5	820.3	819.5
22.5°	584.6	581.7	579.7	578.7	590.4	636.0	733.2	774.7	812.3	839.7	838.1
25°	624.3	620.0	610.0	600.2	596.8	624.1	721.9	774.1	831.4	865.7	860.1
27.5°	688.6	683.2	663.0	639.5	618.5	630.2	716.9	778.0	852.5	893.4	882.0
30°	768.4	762.5	737.1	701.0	663.2	652.8	723.2	789.5	879.4	930.1	907.9
32.5°	839.9	833.3	811.6	774.9	723.9	691.9	743.2	811.4	921.8	981.1	946.8
35°	903.3	895.7	876.2	842.2	798.2	746.9	779.3	850.3	982.1	1064.2	999.6
37.5°	965.4	956.5	935.3	899.4	868.6	820.1	829.0	900.3	1062.0	1165.0	1069.6
40°	1035.0	1022.2	996.3	960.9	930.9	905.9	894.4	961.6	1143.3	1277.6	1156.9
42.5°	1102.4	1090.2	1059.3	1029.2	991.6	984.4	970.3	1033.3	1232.2	1401.2	1245.6
45°	1175.0	1160.4	1123.0	1084.8	1061.1	1036.6	1043.8	1104.9	1319.3	1527.2	1338.6
47.5°	1243.0	1226.7	1182.5	1140.0	1127.0	1080.5	1111.1	1183.9	1409.9	1655.0	1430.7
50°	1279.7	1263.6	1226.9	1188.5	1178.2	1134.6	1184.1	1270.6	1504.8	1782.4	1519.2
52.5°	1310.4	1292.9	1245.0	1223.6	1220.6	1193.4	1274.1	1369.7	1599.8	1894.9	1604.5
55°	1343.0	1323.6	1262.3	1243.2	1257.2	1259.5	1380.8	1482.0	1700.2	2004.6	1685.2
57.5°	1380.6	1356.0	1279.1	1259.7	1292.7	1336.9	1503.4	1598.5	1798.9	2106.4	1757.0
60°	1415.9	1391.2	1311.2	1286.0	1331.2	1426.6	1643.9	1739.5	1910.5	2197.0	1824.7
62.5°	1422.9	1402.5	1336.9	1336.6	1383.3	1531.4	1810.4	1881.9	2008.1	2286.5	1885.6
65°	1302.6	1289.8	1250.8	1334.7	1458.2	1682.1	1995.8	2063.9	2132.2	2364.7	1939.0
67.5°	991.4	993.1	990.3	1152.2	1397.7	1898.8	2264.1	2258.9	2285.4	2452.5	2000.5
70°	453.3	463.5	530.0	795.3	1119.8	1923.8	2707.8	2640.3	2477.7	2566.2	2053.8
72.5°	244.9	252.8	279.9	385.3	673.2	1710.4	3039.4	3087.5	2733.5	2642.7	1995.3
75°	179.7	184.1	203.0	244.9	282.7	1271.2	2920.5	3167.0	2765.4	2464.2	1723.0
77.5°	134.5	136.4	151.9	194.0	144.7	670.1	2333.6	2622.9	2367.3	2024.7	1272.7
80°	97.6	99.7	111.2	145.5	101.5	245.1	1602.4	1841.0	1621.3	1290.6	634.3
82.5°	67.3	68.3	73.2	99.1	70.8	95.2	909.2	1079.5	905.1	452.8	171.3
85°	40.6	41.7	43.9	57.8	40.2	45.2	392.5	405.9	270.5	108.2	53.2
87.5°	16.7	17.8	19.6	24.3	15.9	12.6	64.8	81.3	50.6	31.8	16.5
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°	741.5	741.5	741.5	741.5	741.5	741.5	741.5	741.5	741.5	741.5	741.5
2.5°	742.5	741.0	736.9	731.2	726.0	719.4	716.7	714.3	712.1	708.0	706.0
5°	747.1	742.9	731.8	717.5	701.2	683.5	666.0	654.1	643.9	636.3	630.0
7.5°	754.1	746.2	726.0	696.7	659.3	621.0	586.5	561.9	543.5	536.8	525.0
10°	761.3	751.8	716.7	664.9	600.4	541.5	495.7	470.5	455.7	450.9	443.5
12.5°	769.7	756.0	702.1	620.8	534.5	470.1	430.1	415.2	407.6	405.1	405.7
15°	782.1	759.5	680.2	565.6	471.8	417.9	392.1	381.8	377.9	377.7	378.5
17.5°	791.4	760.1	646.1	506.6	423.5	386.3	365.1	361.2	363.8	367.7	369.2
20°	801.9	754.3	601.3	452.6	389.6	358.7	349.8	352.5	358.7	364.4	366.3
22.5°	809.2	743.6	547.1	410.7	360.3	342.9	342.5	347.9	351.4	354.2	355.8
25°	815.8	725.6	489.8	375.5	336.2	333.3	338.1	336.4	334.0	336.4	337.9
27.5°	820.5	697.1	438.5	344.6	319.2	326.9	324.0	320.1	319.9	321.1	323.4
30°	819.0	659.1	396.4	315.3	307.3	314.7	307.9	307.3	306.6	307.3	309.7
32.5°	819.0	615.8	364.0	295.1	299.7	296.8	296.2	294.7	292.0	291.8	294.7
35°	823.6	572.6	336.2	284.2	293.4	286.6	287.1	283.4	278.0	275.3	278.0
37.5°	832.9	537.8	308.5	279.0	282.3	282.1	280.3	274.0	264.4	256.2	259.0
40°	855.6	527.6	289.7	276.6	277.1	279.7	275.1	262.9	241.2	227.8	229.5
42.5°	890.9	544.8	285.6	270.8	273.6	276.2	267.3	239.0	223.7	215.6	215.6
45°	935.9	574.8	294.5	262.3	265.4	269.9	243.3	229.9	222.9	223.1	224.3
47.5°	992.9	606.3	311.0	254.9	253.4	255.9	227.6	219.2	209.7	212.1	218.2
50°	1058.7	638.3	326.6	244.9	240.2	231.6	217.3	209.5	197.3	191.7	193.2
52.5°	1130.0	669.1	332.9	232.8	225.8	216.0	210.3	200.8	186.0	176.7	176.4
55°	1197.6	697.1	326.0	218.2	211.5	203.9	203.0	197.1	181.2	168.2	168.2
57.5°	1261.5	720.6	308.5	203.4	196.9	192.3	198.1	195.4	175.4	158.7	157.7
60°	1315.6	736.7	283.4	188.4	183.9	181.4	190.3	189.5	167.1	148.4	147.8
62.5°	1358.6	742.9	255.5	174.0	173.0	168.6	179.5	179.5	156.7	138.4	137.8
65°	1392.3	736.9	227.3	159.9	162.2	155.6	166.3	164.9	145.5	129.6	128.6
67.5°	1422.1	716.9	196.0	146.1	151.0	142.8	152.3	149.2	133.5	120.6	119.7
70°	1435.3	670.3	160.4	132.1	138.2	130.2	138.4	132.7	119.7	111.0	109.3
72.5°	1328.8	557.2	126.3	117.6	122.8	116.2	123.4	117.0	105.0	101.1	97.8
75°	1099.3	418.1	97.2	101.7	105.6	100.7	105.4	100.7	89.8	92.6	84.6
77.5°	798.4	282.3	74.3	85.0	86.7	84.0	88.3	82.8	73.0	72.4	69.1
80°	397.0	165.3	58.2	67.1	66.5	64.8	69.5	66.9	58.6	62.1	61.5
82.5°	115.0	70.8	42.3	47.2	45.8	46.3	49.7	51.0	76.5	75.8	77.6
85°	36.1	27.8	25.4	26.3	25.0	25.6	29.3	58.2	53.9	31.5	34.1
87.5°	9.3	9.5	6.3	6.8	7.0	8.3	9.3	35.5	16.9	11.1	11.7
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)