

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: P959414

Luminaire Tested: **NAV-SB1A-827-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-827-U-SL4-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

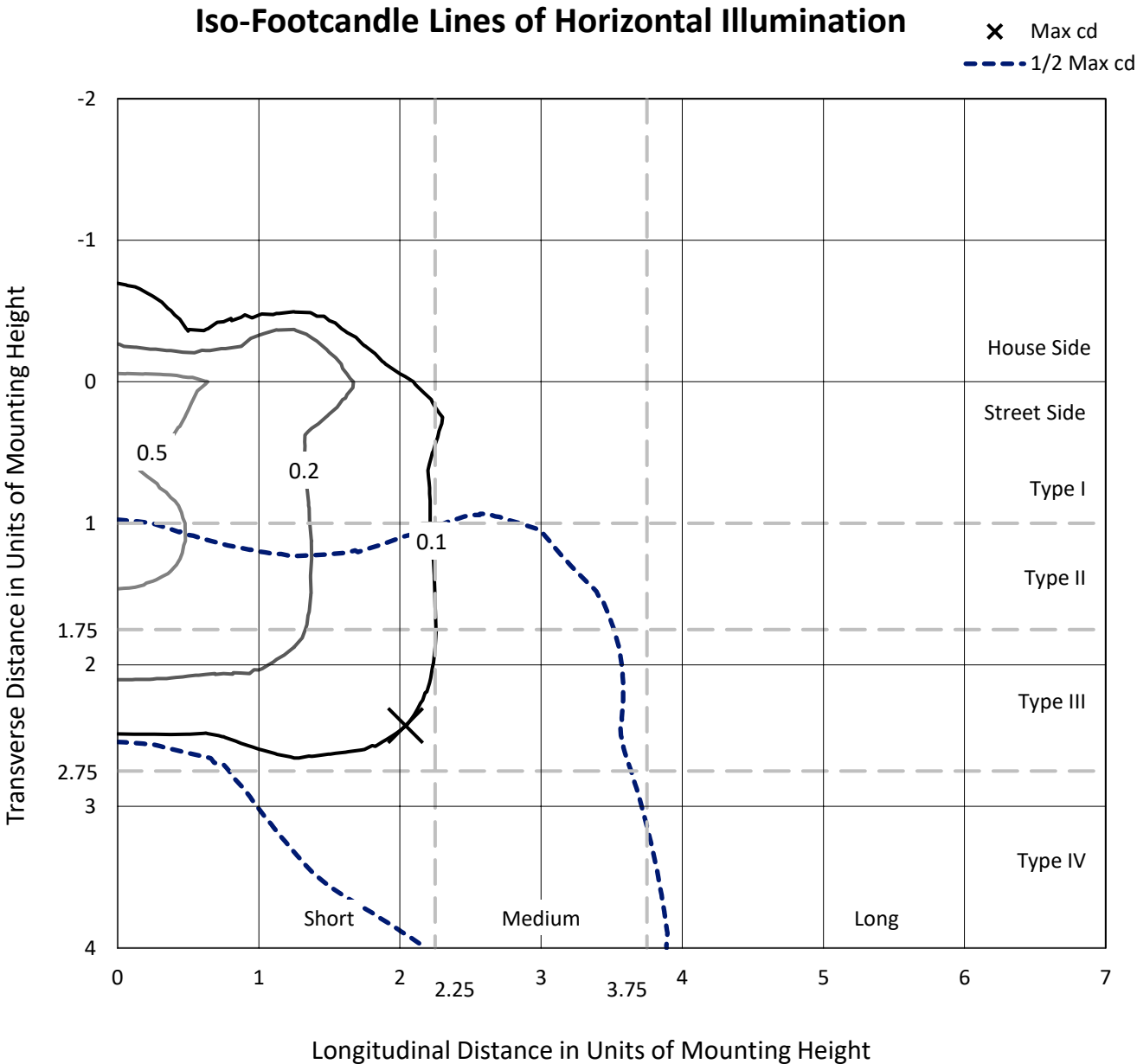
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2792.1 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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



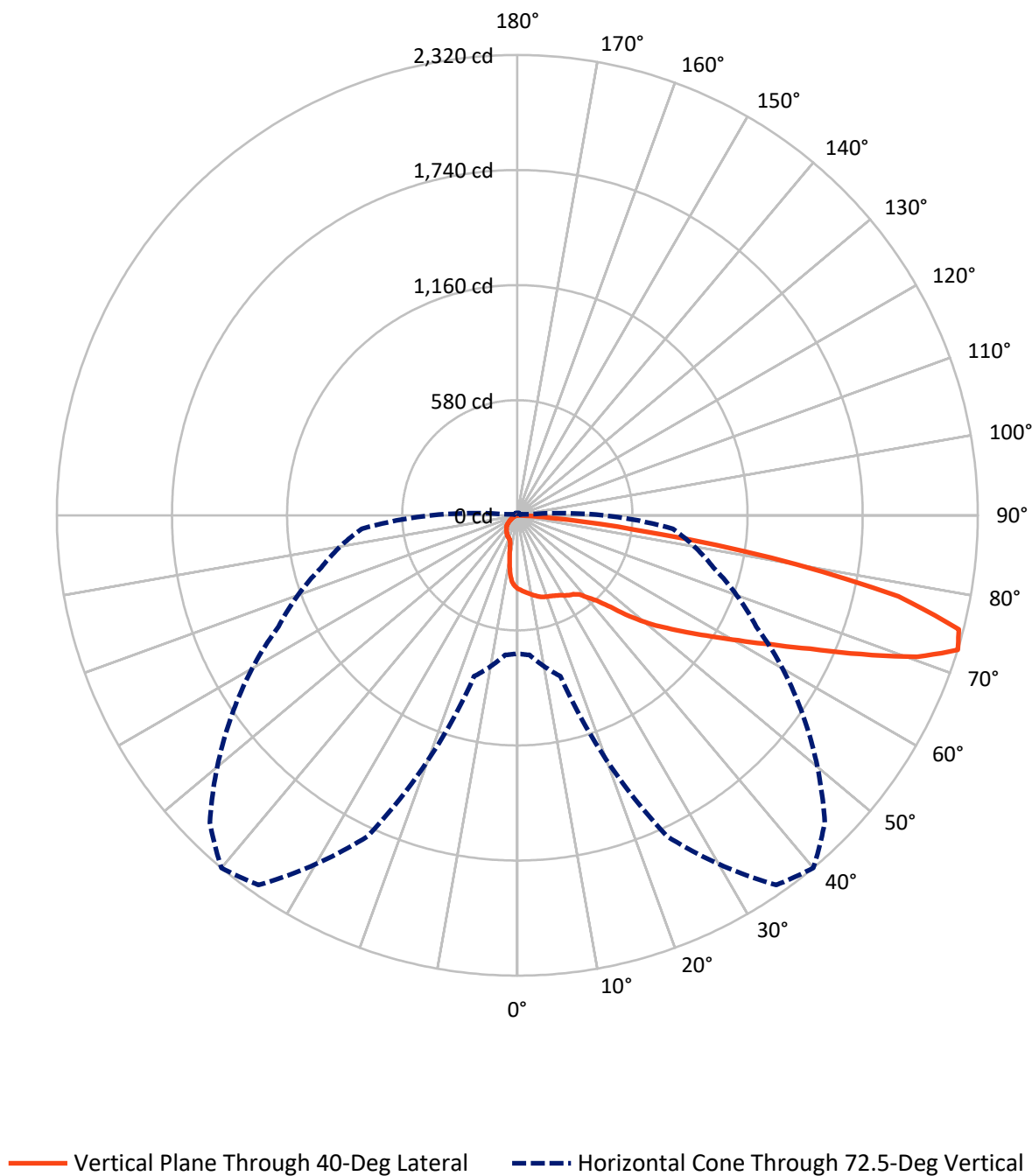
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Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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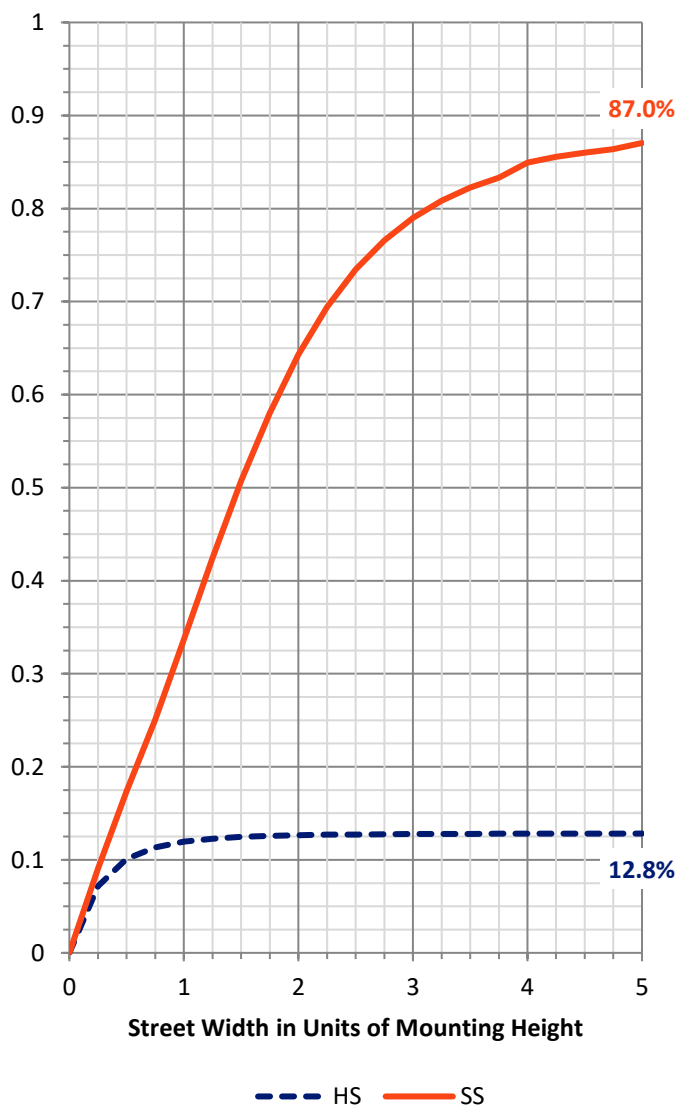
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	360.6	0.0	360.6
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	2431.5	0.0	2431.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	2792.1	0.0	2792.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.8	1.2
10°-20°	91.7	3.3
20°-30°	148.4	5.3
30°-40°	219.0	7.8
40°-50°	368.6	13.2
50°-60°	572.4	20.5
60°-70°	716.2	25.7
70°-80°	586.4	21.0
80°-90°	55.6	2.0
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°	2792.1	100.0
0°-180°	2792.1	100.0

Coefficient of Utilization



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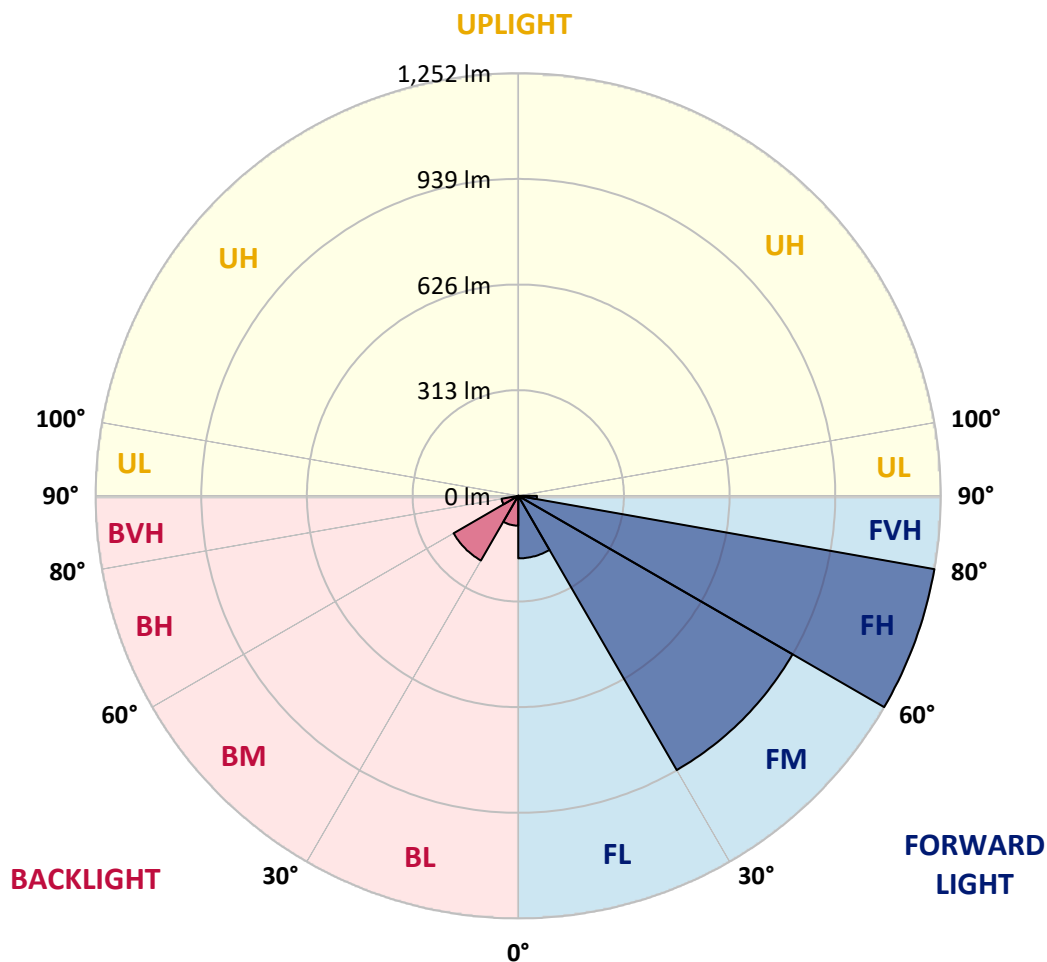
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	185.3	6.6			
FM	(30°-60°)	938.7	33.6			
FH	(60°-80°)	1252.4	44.9			G1/1800
FVH	(80°-90°)	55.2	2.0			G1/100
BL	(0°-30°)	88.5	3.2	B0/110		
BM	(30°-60°)	221.4	7.9	B1/1000		
BH	(60°-80°)	50.2	1.8	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	369.7	369.7	369.7	369.7	369.7	369.7	369.7	369.7	369.7	369.7	369.7
2.5°	380.9	382.3	381.5	379.8	379.4	378.5	377.5	377.1	375.6	374.3	372.9
5°	391.5	393.1	392.0	389.7	388.6	387.6	386.1	384.9	381.9	379.1	375.8
7.5°	403.3	404.6	403.3	400.0	398.3	397.1	394.9	393.1	389.7	385.7	381.5
10°	416.4	417.5	415.5	411.1	408.4	406.5	404.6	402.5	399.3	394.9	389.9
12.5°	428.6	429.9	426.9	421.7	418.5	416.6	414.5	412.8	409.7	405.5	400.2
15°	439.7	441.6	436.5	430.9	427.3	425.9	423.7	422.7	420.6	417.7	412.8
17.5°	448.1	449.4	444.1	437.4	433.4	432.3	430.9	431.5	431.1	429.7	426.5
20°	455.3	456.1	449.2	441.0	436.5	436.8	436.3	438.5	439.3	439.3	439.1
22.5°	464.1	464.3	455.5	445.2	439.9	441.4	442.1	444.3	446.1	447.7	451.5
25°	475.7	475.3	464.7	450.7	446.1	448.1	449.6	450.5	452.3	455.1	463.7
27.5°	492.9	491.7	478.2	459.5	454.1	455.9	458.7	458.3	457.4	459.5	474.0
30°	514.8	513.1	495.3	471.9	466.9	468.5	469.3	465.6	459.5	461.4	483.1
32.5°	549.5	546.5	521.7	485.7	478.0	479.9	478.9	471.1	462.0	463.9	492.1
35°	609.9	602.7	567.5	514.8	490.6	488.5	486.0	478.4	467.3	465.4	499.7
37.5°	738.1	725.5	665.5	571.3	519.3	505.5	497.7	490.2	472.9	465.4	508.3
40°	882.8	870.0	800.8	666.0	566.7	543.7	525.1	504.1	478.9	468.1	521.7
42.5°	1033.8	1019.7	948.6	783.3	634.7	587.1	552.7	515.3	488.5	476.5	539.7
45°	1202.4	1184.8	1091.8	905.7	733.3	659.5	597.1	538.1	505.3	491.5	564.1
47.5°	1380.4	1357.4	1234.6	1024.6	839.5	759.6	678.2	579.1	530.1	513.7	597.1
50°	1538.1	1515.4	1382.0	1148.8	938.8	854.8	770.7	635.9	567.3	545.3	641.4
52.5°	1651.5	1634.2	1516.2	1277.1	1042.0	944.2	854.6	701.9	614.5	585.7	693.7
55°	1727.3	1711.5	1611.3	1398.7	1162.0	1042.6	937.3	773.7	671.3	634.1	751.6
57.5°	1773.5	1764.3	1680.1	1507.2	1281.1	1150.4	1031.9	852.5	738.1	691.1	816.1
60°	1789.9	1782.5	1722.7	1610.7	1425.0	1279.6	1143.2	941.5	819.3	755.8	882.4
62.5°	1746.1	1747.5	1753.5	1733.3	1576.6	1431.0	1276.5	1048.3	909.3	829.2	944.6
65°	1540.2	1552.4	1664.3	1869.1	1777.5	1620.7	1446.2	1178.6	1012.4	912.7	994.0
67.5°	1275.2	1292.9	1432.1	1948.6	1991.5	1867.0	1682.5	1344.8	1135.2	997.6	1012.8
70°	976.2	995.1	1163.8	1931.9	2191.9	2136.2	1974.9	1556.2	1262.4	1056.5	965.0
72.5°	696.7	706.3	839.3	1784.1	2274.2	2319.6	2190.2	1756.3	1327.4	1023.9	787.1
75°	489.5	487.9	575.9	1436.7	2146.0	2297.2	2114.7	1648.1	1201.2	813.4	485.3
77.5°	213.2	213.6	287.7	872.5	1712.9	1962.1	1757.9	1032.4	837.4	431.1	204.8
80°	55.4	57.0	105.6	347.4	1031.3	1295.0	1072.0	453.8	386.9	105.2	39.2
82.5°	19.6	20.8	48.6	109.2	380.4	593.9	477.3	145.1	101.0	30.0	10.6
85°	5.6	6.8	26.0	33.4	78.6	167.8	115.8	28.2	24.8	15.6	2.8
87.5°	0.0	0.8	5.2	4.6	4.6	3.2	5.8	3.2	4.0	1.8	0.8
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°	369.7	369.7	369.7	369.7	369.7	369.7	369.7	369.7	369.7	369.7	369.7
2.5°	371.6	370.1	367.0	363.6	360.5	357.5	356.7	353.5	352.0	352.3	352.0
5°	373.5	370.7	364.7	357.3	349.7	341.1	333.9	323.9	315.2	314.2	313.5
7.5°	378.5	374.1	364.2	349.9	331.0	307.2	285.2	263.3	250.9	244.2	243.7
10°	386.3	380.4	365.3	337.9	297.8	255.3	221.8	194.3	180.2	173.7	172.4
12.5°	395.5	389.1	367.0	317.5	254.9	199.2	163.0	146.2	143.2	142.8	142.6
15°	408.6	401.5	368.9	290.0	208.4	151.6	135.0	135.2	137.6	138.8	138.6
17.5°	423.1	415.9	366.1	256.4	162.6	129.6	129.1	131.0	134.4	135.6	135.4
20°	437.9	431.1	356.5	216.8	131.4	123.4	125.2	127.2	130.6	132.2	132.2
22.5°	452.9	447.1	341.1	174.8	118.6	119.0	121.2	123.2	127.0	128.9	128.9
25°	469.1	464.1	320.7	140.0	113.2	114.4	117.2	119.6	123.6	126.0	126.0
27.5°	485.5	481.7	297.6	117.0	108.1	109.6	112.7	116.1	120.0	122.8	123.0
30°	503.5	501.3	279.1	108.3	103.2	104.6	108.1	111.8	116.3	119.6	120.0
32.5°	521.7	521.3	270.0	114.6	98.8	99.6	102.8	106.6	112.1	116.3	116.7
35°	539.9	540.7	264.8	132.5	97.4	95.0	97.2	100.6	107.0	112.3	113.2
37.5°	562.9	565.1	264.6	151.8	101.0	90.4	91.9	94.2	99.9	106.0	107.0
40°	597.5	608.5	278.0	168.4	107.2	86.2	86.6	87.0	90.0	95.0	96.8
42.5°	643.3	675.9	326.6	179.8	109.8	82.4	81.0	78.6	78.2	81.0	82.4
45°	700.3	757.3	411.9	186.1	107.2	78.2	74.2	68.2	65.8	67.8	67.8
47.5°	767.3	846.4	513.1	187.6	103.0	73.0	65.8	57.8	56.0	56.6	56.4
50°	832.8	913.3	602.1	175.4	96.1	66.2	56.6	49.8	48.6	48.8	48.8
52.5°	890.6	936.2	627.3	146.6	86.8	58.0	48.6	44.0	43.2	43.2	42.9
55°	928.9	911.4	559.3	112.1	75.2	49.6	41.6	39.4	38.9	38.7	38.2
57.5°	936.8	830.7	422.5	81.0	58.8	41.8	37.0	35.8	35.0	34.0	33.6
60°	908.3	696.1	269.0	56.6	44.2	35.8	32.8	32.0	30.2	28.6	28.0
62.5°	846.4	525.7	148.9	39.4	35.6	30.4	29.0	28.0	24.8	22.0	21.2
65°	763.3	349.5	65.8	30.7	29.0	25.6	24.8	23.4	19.6	16.4	15.8
67.5°	679.9	201.2	29.6	24.6	23.4	21.0	20.4	19.4	16.6	13.6	13.2
70°	584.7	102.0	20.4	19.6	18.0	16.0	16.6	16.4	13.6	11.2	10.8
72.5°	435.3	50.6	15.4	14.8	13.0	11.4	13.6	13.4	10.8	8.4	8.0
75°	246.5	25.0	11.2	10.4	7.8	8.4	11.0	10.4	7.4	5.4	5.0
77.5°	97.8	12.8	7.4	6.4	4.6	5.6	8.0	7.0	3.8	2.4	2.2
80°	22.5	6.4	3.8	2.8	2.2	3.4	4.2	2.6	1.0	0.2	0.0
82.5°	6.4	2.8	1.2	1.0	1.0	1.2	1.0	0.4	0.0	0.0	0.0
85°	2.2	1.2	0.4	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.8	0.4	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)