

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: P959960

Luminaire Tested: **NAV-SB1B-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-827-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

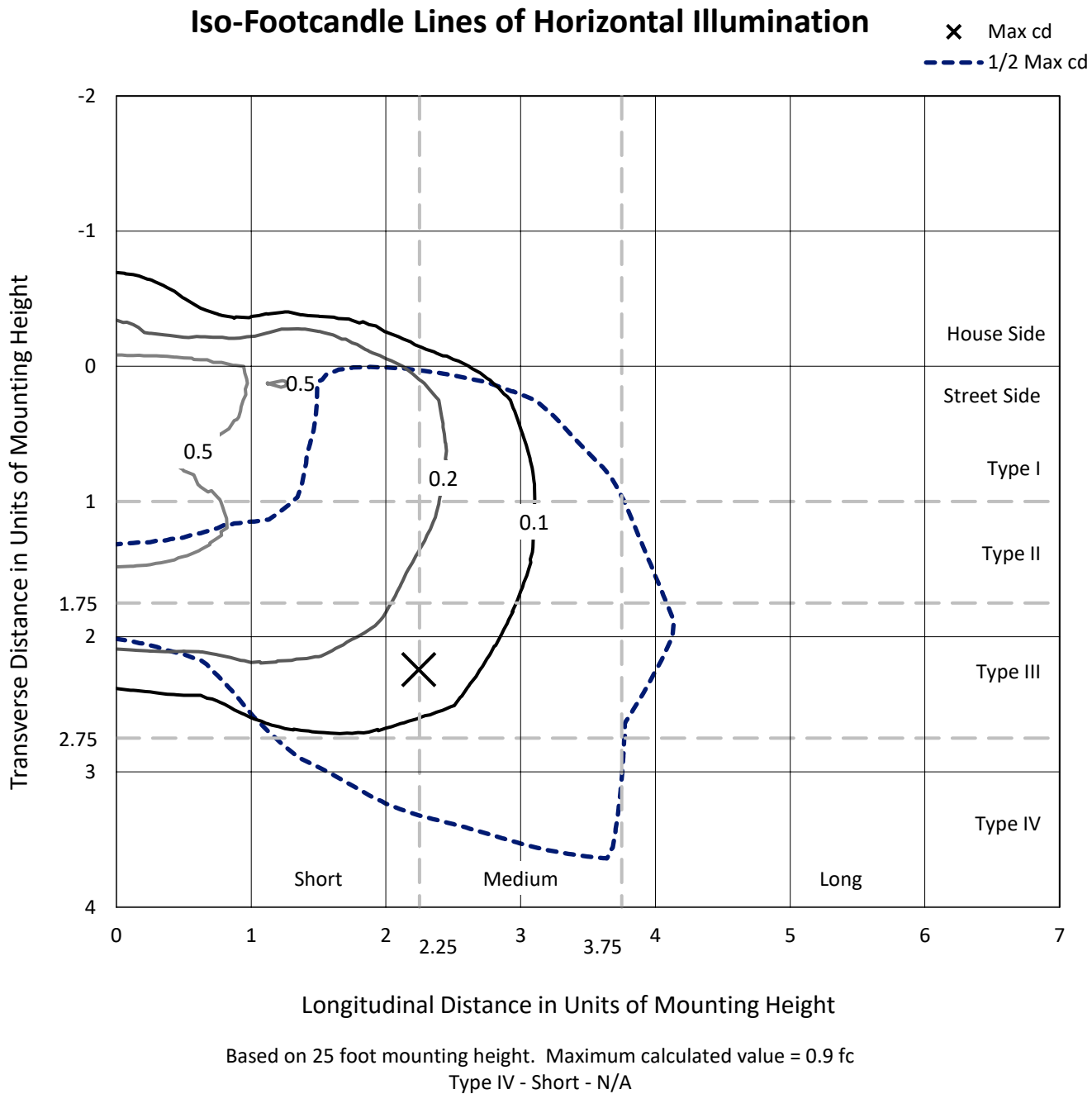
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3867.3 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 39.8
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

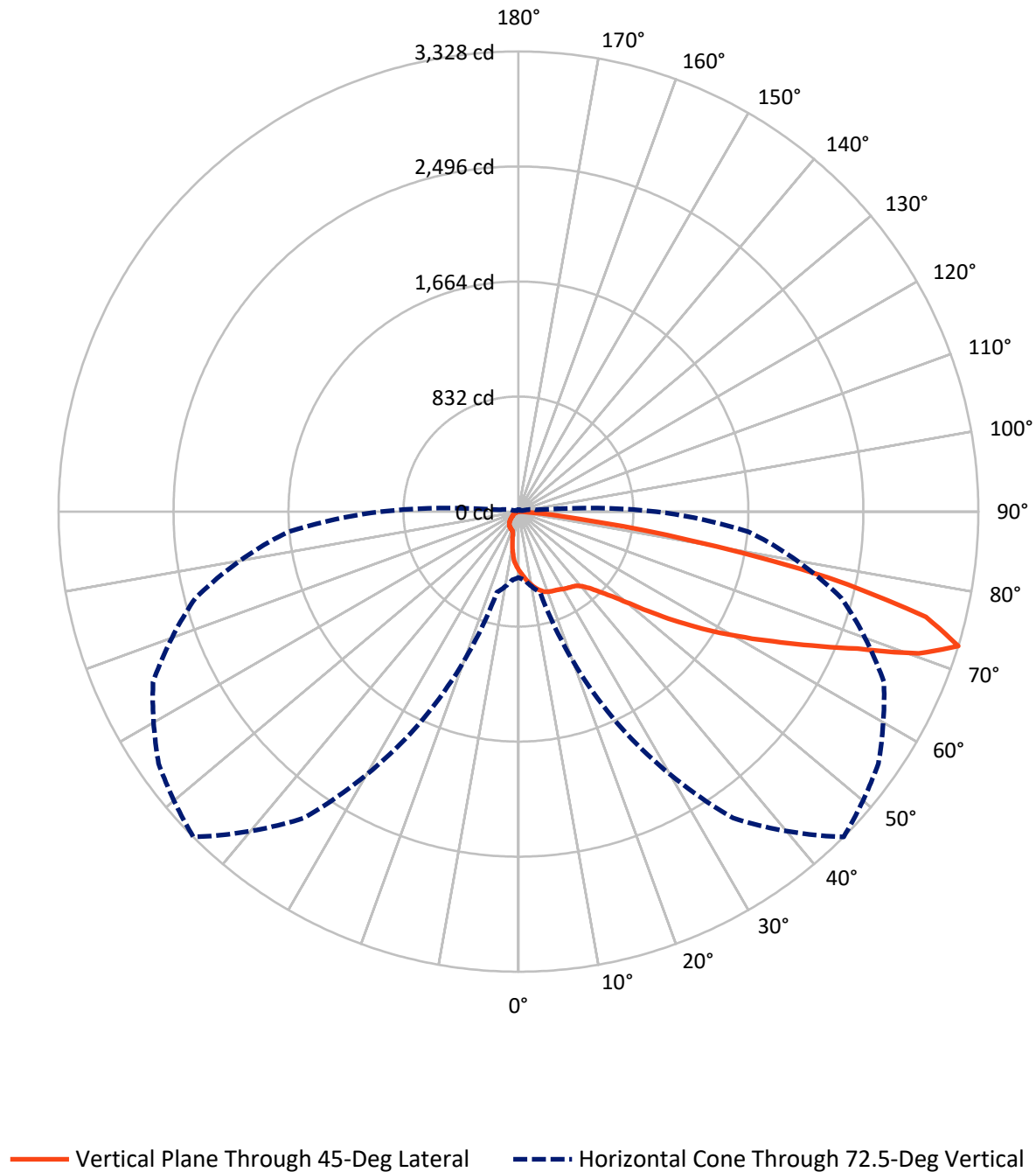


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Luminous Intensity Polar Plot



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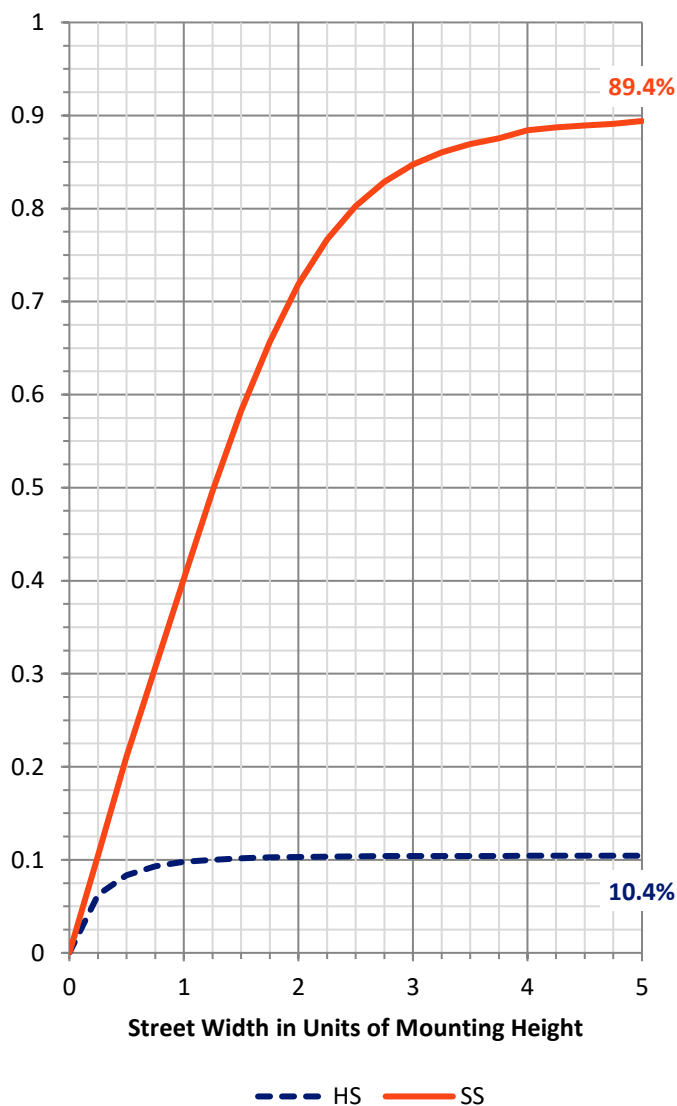
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	406.3	0.0	406.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3461.0	0.0	3461.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	3867.3	0.0	3867.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	1.0
10°-20°	116.7	3.0
20°-30°	191.6	5.0
30°-40°	271.7	7.0
40°-50°	449.1	11.6
50°-60°	806.8	20.9
60°-70°	1120.2	29.0
70°-80°	812.6	21.0
80°-90°	58.7	1.5
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°	3867.3	100.0
0°-180°	3867.3	100.0

Coefficient of Utilization



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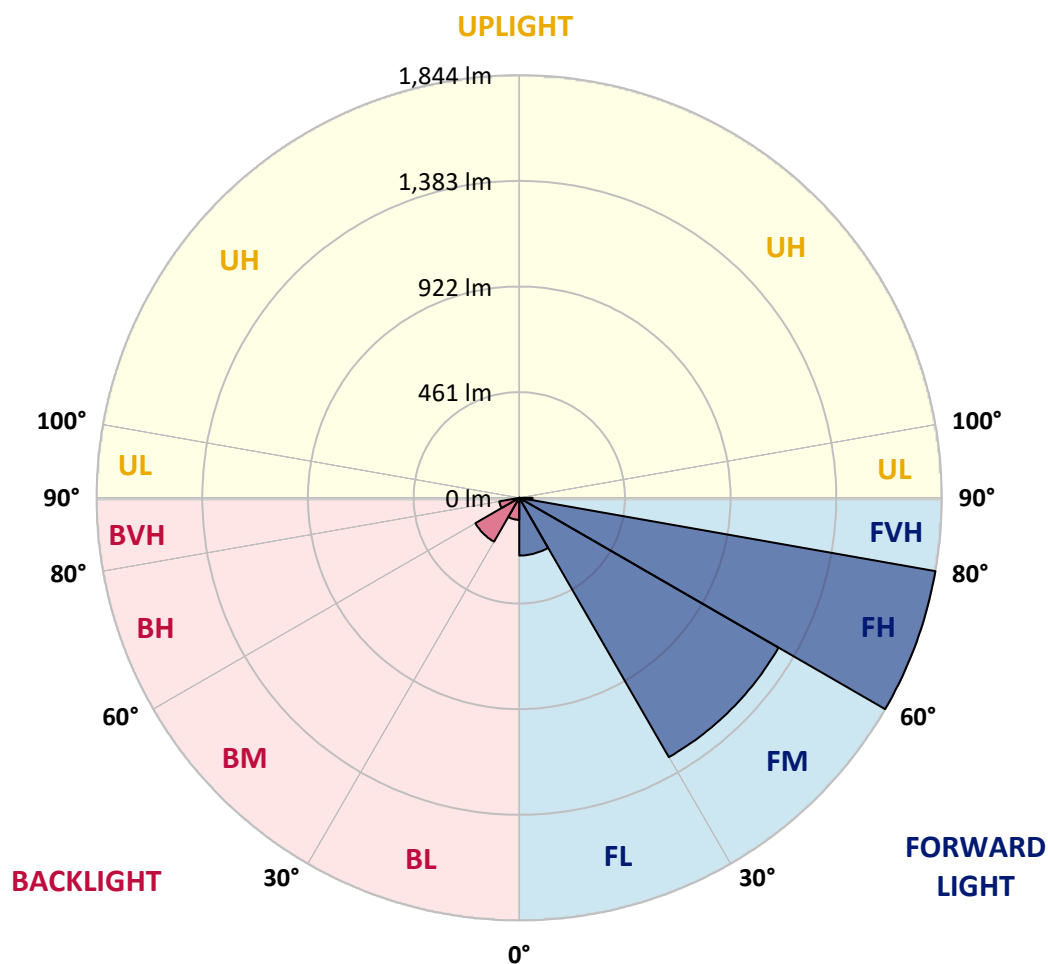
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	251.9	6.5			
FM	(30°-60°)	1306.6	33.8			
FH	(60°-80°)	1844.2	47.7			G2/5000
FVH	(80°-90°)	58.3	1.5			G1/100
BL	(0°-30°)	96.2	2.5	B0/110		
BM	(30°-60°)	221.0	5.7	B1/1000		
BH	(60°-80°)	88.6	2.3	B0/110		G0/110
BVH	(80°-90°)	0.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	423.6	423.6	423.6	423.6	423.6	423.6	423.6	423.6	423.6	423.6	423.6
2.5°	462.8	463.5	463.0	459.8	454.6	451.6	450.1	444.7	441.4	435.3	429.0
5°	505.2	508.4	506.6	500.2	490.2	483.1	480.9	470.2	460.3	449.1	435.8
7.5°	550.4	552.0	548.6	540.4	526.8	514.8	512.9	497.8	482.3	464.8	446.9
10°	589.5	591.3	586.0	574.1	558.8	543.8	541.1	524.5	506.0	484.6	461.7
12.5°	622.2	624.0	617.2	602.9	586.0	570.4	567.8	550.4	530.0	506.2	477.8
15°	647.0	650.5	641.1	625.9	607.6	592.0	590.8	573.6	553.8	527.5	497.0
17.5°	661.5	664.9	656.2	637.8	622.2	609.0	607.4	593.2	574.6	549.3	515.8
20°	663.9	667.1	657.8	641.8	628.7	618.2	617.5	607.1	593.7	569.4	536.1
22.5°	656.7	660.7	652.3	639.3	630.4	624.8	623.8	618.0	610.3	589.7	555.1
25°	649.3	652.5	646.2	634.9	630.1	629.6	630.4	629.3	627.7	610.3	577.3
27.5°	648.8	652.3	645.1	634.4	631.7	637.2	638.1	643.0	644.3	629.0	598.7
30°	653.3	655.7	648.8	637.4	636.2	648.8	649.1	658.0	660.2	644.9	619.8
32.5°	663.1	665.7	658.9	642.3	640.4	658.0	658.9	670.8	674.1	661.7	642.0
35°	686.0	689.2	681.3	655.5	648.8	666.8	669.1	683.2	690.0	679.7	664.9
37.5°	743.3	734.1	723.2	682.1	668.1	680.5	684.5	700.8	713.0	701.1	692.4
40°	885.6	856.6	822.8	727.5	701.9	709.8	713.0	729.4	746.0	734.4	730.1
42.5°	1099.2	1064.9	1010.4	832.0	752.9	756.8	759.2	773.5	796.9	787.7	788.7
45°	1289.4	1277.0	1221.7	1010.4	848.2	828.6	831.5	838.9	873.5	870.0	876.9
47.5°	1435.7	1428.6	1385.8	1215.3	1009.1	916.6	924.7	928.1	978.1	990.1	1008.6
50°	1548.2	1545.6	1507.3	1397.5	1219.5	1046.1	1049.0	1041.6	1116.3	1146.5	1181.5
52.5°	1654.4	1663.3	1635.1	1566.7	1444.2	1215.9	1215.3	1180.5	1281.4	1326.8	1386.6
55°	1750.1	1753.3	1756.2	1739.3	1670.1	1409.1	1404.0	1347.1	1472.7	1519.7	1584.6
57.5°	1840.2	1841.4	1867.3	1901.9	1905.4	1616.5	1607.3	1538.9	1681.7	1715.2	1755.1
60°	1900.6	1906.7	1961.3	2057.4	2099.4	1830.6	1825.6	1755.9	1894.5	1910.1	1902.7
62.5°	1813.5	1850.4	1988.2	2178.8	2282.6	2067.9	2065.6	2000.1	2118.4	2105.7	2042.3
65°	1467.9	1530.5	1772.8	2260.9	2462.4	2333.0	2336.4	2266.7	2348.3	2307.1	2155.9
67.5°	1026.8	1092.9	1379.5	2267.5	2663.2	2644.2	2664.0	2554.7	2592.4	2500.1	2182.7
70°	710.1	744.2	930.8	2125.5	2819.8	3072.8	3072.3	2908.4	2835.4	2588.0	2045.5
72.5°	477.5	495.2	604.5	1686.2	2704.7	3327.7	3312.3	3178.7	2917.1	2420.3	1671.2
75°	201.4	214.3	279.8	947.6	2139.8	3044.4	3002.9	2809.2	2591.9	1905.9	1042.7
77.5°	63.9	69.4	110.3	339.2	1178.6	2288.4	2244.5	1754.4	1737.2	956.1	381.2
80°	30.3	35.4	62.0	136.2	463.8	1244.7	1238.5	795.9	747.3	258.2	76.6
82.5°	13.2	15.6	34.3	72.9	207.5	444.0	452.9	270.8	224.1	97.9	23.5
85°	4.2	5.5	15.9	33.5	87.6	110.3	109.1	64.4	90.3	53.3	8.2
87.5°	0.0	0.0	5.3	7.7	9.0	6.4	7.2	5.5	25.1	14.8	2.9
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°	423.6	423.6	423.6	423.6	423.6	423.6	423.6	423.6	423.6	423.6	423.6
2.5°	425.8	421.6	414.2	407.3	401.2	395.1	391.4	386.2	385.7	385.7	386.9
5°	428.7	421.8	408.7	394.6	378.5	363.3	347.9	333.1	328.4	324.9	326.6
7.5°	437.2	426.3	405.5	378.8	348.2	314.7	291.2	265.8	256.0	250.8	251.5
10°	449.3	434.5	402.8	356.1	306.5	260.8	227.2	199.9	189.3	184.8	184.8
12.5°	462.8	444.5	398.1	327.9	260.8	206.1	173.4	160.7	159.2	159.2	159.2
15°	478.9	456.6	389.9	294.6	213.0	163.2	151.5	152.0	153.6	154.7	154.7
17.5°	495.5	469.7	377.0	257.4	170.8	146.8	147.0	147.8	149.1	150.2	150.2
20°	513.4	482.6	359.8	217.8	146.5	142.1	142.8	143.6	144.6	145.1	145.4
22.5°	532.7	494.7	339.5	179.0	138.3	138.1	138.3	139.1	140.4	140.4	140.9
25°	553.3	508.2	316.2	150.8	134.1	134.1	134.6	135.2	136.2	136.2	136.4
27.5°	574.4	520.6	291.7	135.9	130.4	130.2	130.2	130.9	131.5	131.7	132.0
30°	597.7	535.0	267.1	132.7	127.5	126.2	125.4	125.9	126.5	126.7	127.2
32.5°	621.4	549.1	245.2	134.1	124.6	122.2	119.6	119.0	119.0	120.1	121.0
35°	647.8	564.4	228.4	138.6	123.0	116.4	112.2	109.8	110.1	111.6	112.4
37.5°	679.5	582.8	216.0	142.6	122.0	109.8	102.9	100.0	98.2	100.0	99.5
40°	720.9	610.1	206.9	145.8	120.6	102.2	93.0	88.1	84.8	85.8	85.3
42.5°	781.9	652.8	203.6	146.0	117.8	93.2	82.6	76.3	71.2	71.5	70.5
45°	867.5	720.4	221.2	142.6	111.4	83.4	71.8	63.3	60.2	59.3	58.3
47.5°	984.6	818.9	262.1	135.4	102.2	73.9	61.2	54.1	51.8	50.4	49.6
50°	1141.6	945.3	307.5	127.5	93.0	65.0	52.5	48.1	46.4	45.1	44.9
52.5°	1323.8	1073.6	344.7	119.6	83.6	57.0	46.9	44.4	43.0	41.9	41.7
55°	1490.9	1162.0	342.7	111.1	74.7	50.6	43.0	41.4	39.9	38.8	38.2
57.5°	1594.9	1174.4	282.5	101.9	64.4	45.7	39.4	38.2	36.4	35.2	34.8
60°	1642.7	1103.6	197.9	89.8	54.1	40.9	35.4	34.8	32.5	30.6	30.1
62.5°	1651.4	972.2	132.0	74.7	45.1	36.4	31.4	30.6	27.5	24.3	22.7
65°	1616.0	784.2	91.3	58.3	38.5	31.7	27.0	25.3	21.9	18.8	17.7
67.5°	1504.1	550.6	63.7	41.9	32.7	25.1	21.4	20.8	18.2	15.6	14.8
70°	1299.0	313.9	42.5	31.4	25.8	17.1	16.9	17.4	14.8	12.7	11.6
72.5°	996.0	143.6	26.4	23.0	17.7	11.6	13.4	13.7	11.4	9.5	8.4
75°	586.3	61.5	16.6	14.8	9.0	7.7	9.7	10.0	7.7	6.0	5.3
77.5°	199.6	23.3	10.6	8.7	4.5	4.2	6.4	6.4	4.2	2.4	1.8
80°	45.4	8.7	5.3	3.4	2.2	1.8	2.2	1.8	1.0	0.3	0.0
82.5°	12.9	3.4	2.2	1.3	0.8	0.8	0.3	0.0	0.0	0.0	0.0
85°	3.7	1.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.3	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)