

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: P959989

Luminaire Tested: **NAV-SB1B-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-830-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

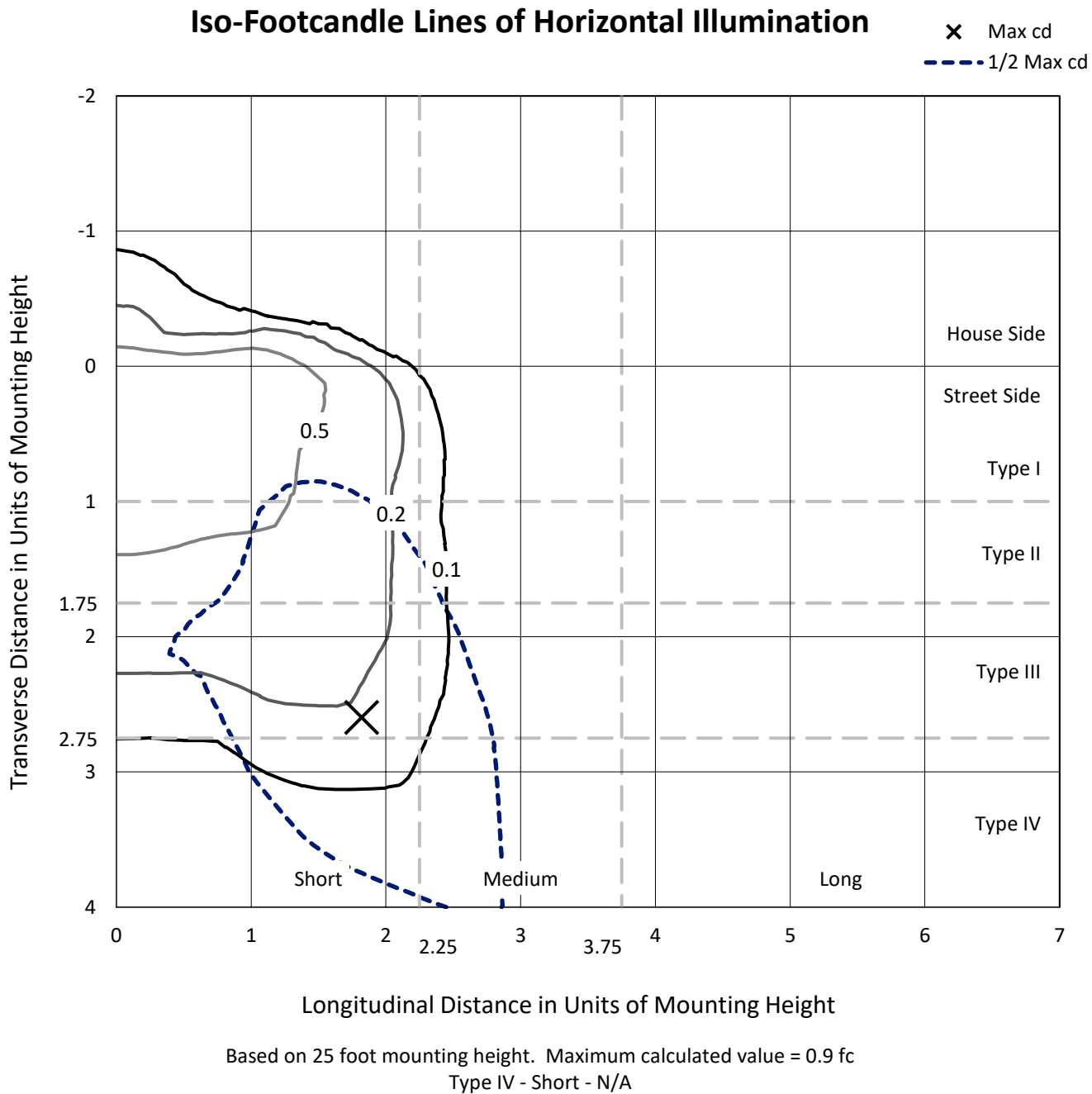
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3927.8 lumens
Efficiency: N/A
Efficacy: 98.7 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): 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

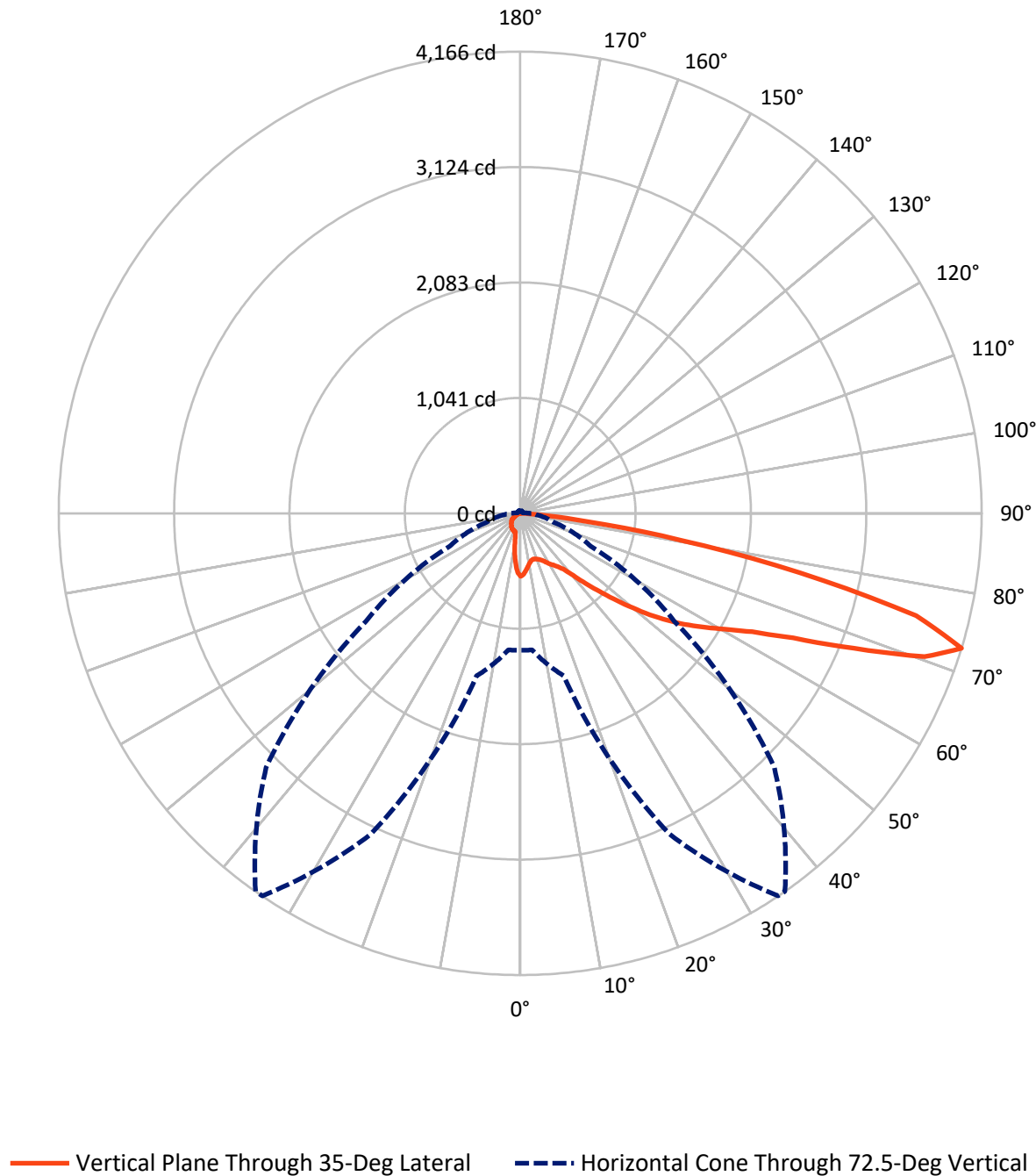


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Luminous Intensity Polar Plot



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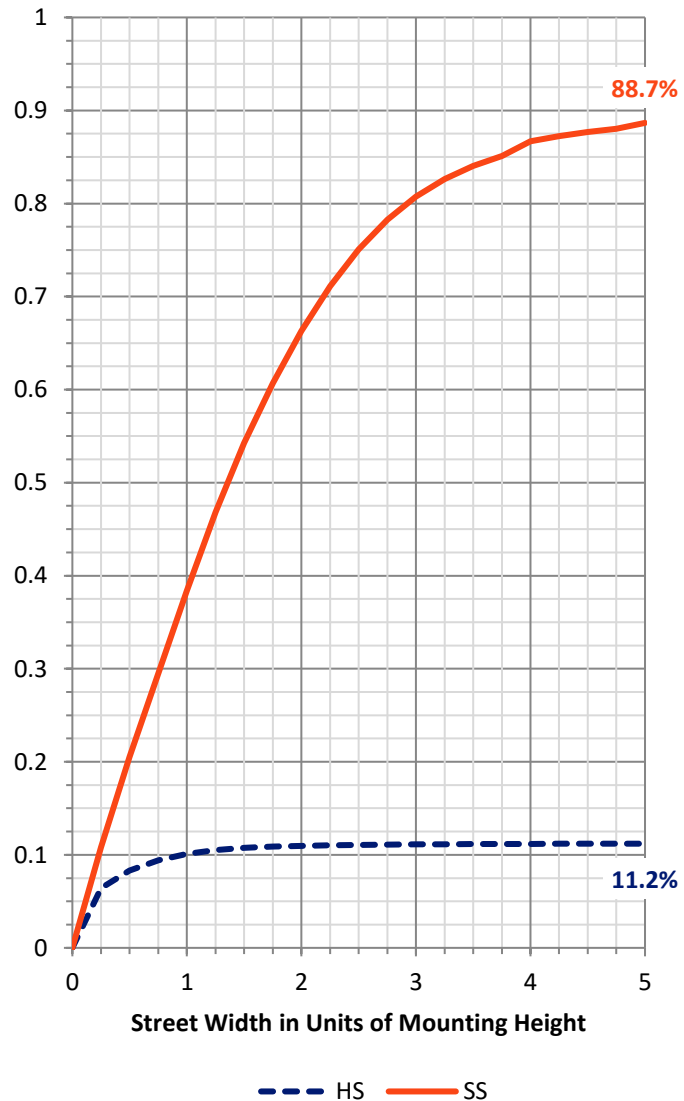
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	442.1	0.0	442.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	3485.7	0.0	3485.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	3927.8	0.0	3927.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	1.2
10°-20°	109.4	2.8
20°-30°	177.8	4.5
30°-40°	296.6	7.6
40°-50°	561.2	14.3
50°-60°	891.7	22.7
60°-70°	1103.1	28.1
70°-80°	685.7	17.5
80°-90°	55.4	1.4
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°	3927.8	100.0
0°-180°	3927.8	100.0

Coefficient of Utilization



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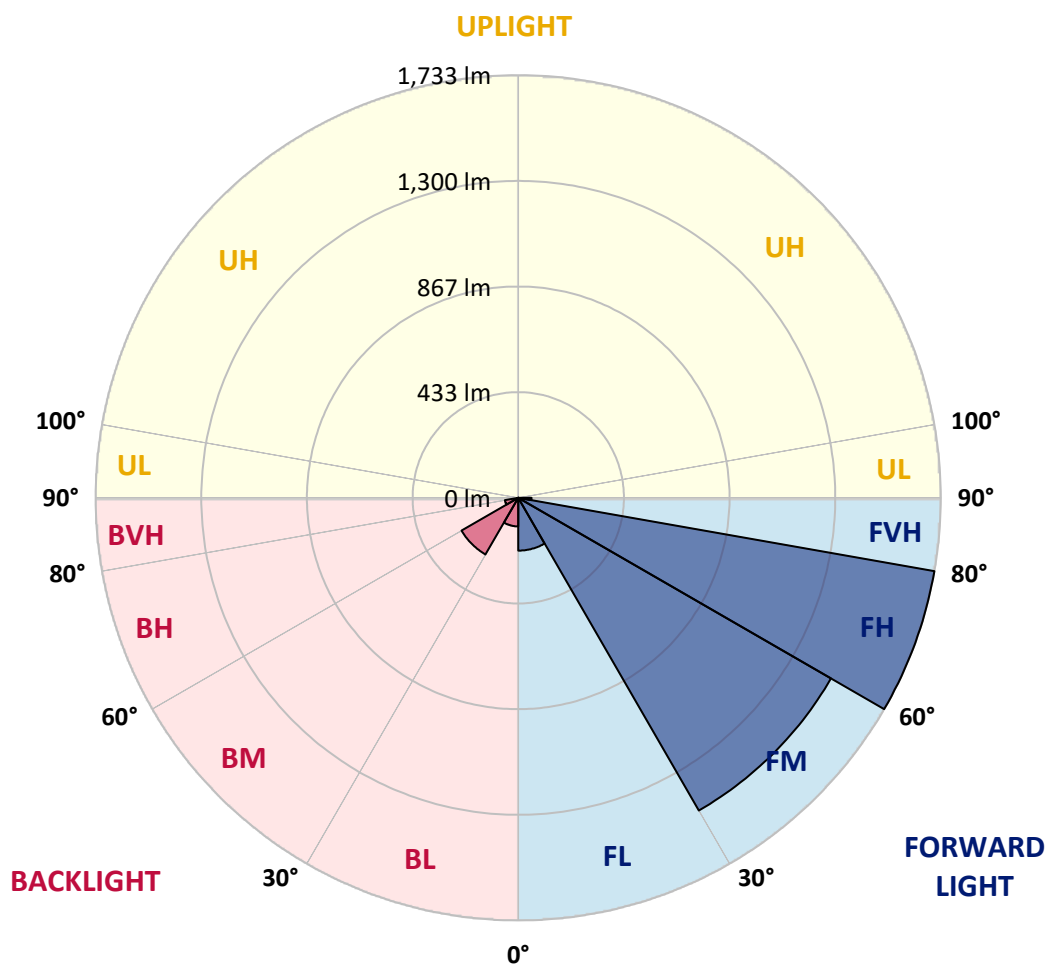
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	216.5	5.5			
FM	(30°-60°)	1481.2	37.7			
FH	(60°-80°)	1733.4	44.1			G1/1800
FVH	(80°-90°)	54.7	1.4			G1/100
BL	(0°-30°)	117.5	3.0	B1/500		
BM	(30°-60°)	268.4	6.8	B1/1000		
BH	(60°-80°)	55.5	1.4	B0/110		G0/110
BVH	(80°-90°)	0.8	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°	34°	35°	45°	55°	65°	75°	85°
0°	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3
2.5°	544.0	548.6	549.4	550.8	550.8	552.6	555.4	559.4	566.1	569.6	571.8
5°	501.3	504.8	509.1	512.6	519.2	520.1	531.3	542.2	557.5	569.0	577.1
7.5°	458.5	462.5	468.2	476.6	485.2	487.8	504.8	523.3	547.3	569.0	582.5
10°	428.2	428.6	433.7	442.1	455.9	459.0	479.8	505.9	536.2	565.5	587.7
12.5°	411.2	413.3	415.5	421.9	435.1	437.2	459.3	490.2	524.9	563.5	593.8
15°	411.2	412.7	414.1	417.3	427.9	429.7	449.3	480.0	519.2	564.4	603.5
17.5°	415.5	417.9	416.8	420.5	431.7	432.9	450.1	477.1	518.9	569.8	618.5
20°	426.0	427.6	425.4	427.6	438.9	441.2	459.0	482.7	523.8	579.3	637.1
22.5°	442.4	443.2	437.8	439.5	451.0	453.9	474.6	498.2	535.6	594.6	662.3
25°	463.1	464.8	456.4	458.5	469.4	472.8	496.7	521.5	554.3	615.6	694.1
27.5°	487.0	487.8	480.6	480.3	494.5	499.4	523.5	550.3	579.3	642.1	734.5
30°	514.3	516.9	509.9	508.8	526.6	530.7	554.6	585.7	616.2	681.8	791.7
32.5°	535.9	537.9	533.8	536.8	554.8	558.0	592.2	635.7	674.0	738.2	869.7
35°	566.9	568.2	558.9	564.1	584.8	592.9	643.8	706.0	746.8	809.0	971.6
37.5°	679.5	679.5	640.3	614.7	634.6	641.8	714.3	794.4	836.6	903.9	1099.9
40°	835.2	832.6	775.3	722.9	720.4	734.5	814.8	905.7	952.6	1017.9	1244.5
42.5°	1001.2	997.2	919.2	867.5	858.8	863.7	930.7	1043.0	1090.8	1156.9	1399.8
45°	1148.6	1147.5	1076.0	1006.4	990.9	1006.4	1075.5	1203.6	1237.8	1307.5	1555.0
47.5°	1272.1	1272.1	1220.0	1174.5	1166.4	1175.7	1271.5	1381.7	1378.5	1467.8	1706.1
50°	1414.3	1413.1	1363.6	1344.0	1352.4	1365.3	1497.1	1569.4	1524.2	1625.2	1841.1
52.5°	1513.8	1520.7	1503.8	1500.6	1543.1	1565.6	1726.2	1753.0	1654.6	1774.6	1942.1
55°	1592.6	1600.7	1620.3	1642.5	1724.5	1753.9	1948.1	1927.1	1763.6	1904.0	2000.2
57.5°	1704.4	1692.9	1723.0	1766.8	1899.5	1934.9	2163.2	2091.4	1851.5	2009.1	2006.5
60°	1839.9	1841.6	1846.8	1902.1	2074.2	2119.7	2374.9	2246.9	1907.8	2073.6	1936.3
62.5°	2002.8	2005.4	2016.1	2100.9	2308.7	2351.7	2600.5	2374.1	1933.8	2055.4	1755.0
65°	1991.6	2002.5	2121.3	2411.7	2665.3	2707.6	2864.0	2463.3	1894.6	1889.7	1429.0
67.5°	1814.2	1832.2	2031.0	2783.1	3202.9	3250.2	3182.2	2480.8	1725.7	1469.5	932.2
70°	1581.8	1588.1	1827.3	3116.9	3825.4	3873.3	3467.2	2287.7	1309.5	819.7	417.6
72.5°	1235.2	1236.7	1517.3	3194.3	4163.3	4165.9	3243.5	1698.3	704.3	314.9	145.0
75°	882.4	873.8	1016.2	2590.5	3662.8	3692.2	2431.6	796.6	269.1	148.8	72.3
77.5°	473.1	482.7	575.0	1536.3	2530.3	2580.4	1326.8	229.7	137.0	101.3	47.8
80°	146.2	154.3	235.7	703.4	1433.3	1463.5	491.9	102.2	95.5	72.3	31.4
82.5°	46.0	47.8	110.0	295.6	594.9	608.7	142.5	57.8	65.3	47.8	18.4
85°	13.2	13.5	48.9	110.2	147.1	150.0	40.0	22.4	37.4	29.6	9.5
87.5°	1.4	4.6	18.4	18.4	12.9	12.7	4.3	4.9	10.7	3.8	1.7
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°	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3
2.5°	570.4	570.7	566.9	560.7	553.7	548.0	540.8	535.0	530.9	529.8	531.9
5°	574.4	572.5	561.8	542.5	519.5	499.6	477.4	459.9	448.4	443.5	445.3
7.5°	580.5	574.7	551.4	513.4	469.4	430.3	390.5	359.8	340.2	330.4	331.8
10°	585.7	574.2	534.1	471.4	404.1	344.8	291.3	254.1	233.4	223.7	223.9
12.5°	590.6	573.9	511.7	421.6	330.4	257.9	208.1	189.6	183.9	181.9	181.3
15°	599.7	574.7	483.5	364.6	257.0	194.9	176.7	176.4	177.5	177.0	176.7
17.5°	612.4	575.6	451.5	304.2	198.3	171.8	171.0	173.5	175.3	174.5	174.1
20°	628.8	579.0	417.6	244.4	170.4	166.0	168.1	170.4	171.8	170.4	170.0
22.5°	651.9	585.1	380.5	196.3	161.4	162.6	164.3	167.0	168.4	166.4	166.0
25°	680.1	594.6	343.9	170.7	157.1	158.6	161.1	164.0	165.7	163.8	163.5
27.5°	716.6	609.9	310.3	164.9	152.8	153.6	157.4	161.7	164.0	161.4	161.4
30°	769.6	634.9	281.2	167.5	150.3	148.2	153.4	159.5	162.1	159.7	159.5
32.5°	839.8	670.2	263.3	171.5	149.0	141.9	146.8	154.6	158.9	157.4	157.4
35°	931.9	724.1	256.5	176.1	148.2	135.3	138.7	147.1	154.6	156.0	156.0
37.5°	1043.6	798.9	258.4	178.1	145.7	129.8	131.5	138.7	148.5	153.1	154.3
40°	1170.4	886.1	270.0	176.1	142.8	125.2	125.5	131.0	139.6	146.5	148.8
42.5°	1301.4	988.0	291.3	168.6	140.1	121.2	120.3	124.0	129.8	134.7	136.7
45°	1426.1	1092.8	312.2	158.3	137.0	117.2	115.1	116.5	117.7	119.7	120.8
47.5°	1534.8	1166.4	306.3	148.8	132.6	112.5	109.1	108.5	105.1	104.8	104.4
50°	1610.0	1182.5	271.9	139.3	126.4	107.3	101.9	98.4	92.4	89.5	89.8
52.5°	1633.8	1119.0	222.2	129.8	116.0	100.4	92.7	87.2	79.7	77.1	76.9
55°	1602.2	994.4	177.5	118.3	101.6	91.2	82.6	75.4	69.4	66.2	66.2
57.5°	1524.8	835.8	140.4	104.8	86.3	80.9	72.3	65.1	59.9	56.7	56.2
60°	1396.5	663.7	111.1	88.7	73.7	69.6	60.7	56.2	51.6	47.8	46.9
62.5°	1201.6	473.8	87.2	70.2	61.6	57.0	51.8	48.4	42.8	37.7	36.8
65°	937.7	289.8	67.3	51.6	49.5	47.2	44.1	40.9	34.2	29.1	28.2
67.5°	591.4	137.2	48.1	38.8	39.2	38.0	36.6	33.9	29.1	24.5	23.9
70°	260.5	66.5	31.7	29.6	29.1	29.1	30.2	29.3	24.7	20.4	19.6
72.5°	88.7	35.7	23.6	22.4	21.0	20.7	25.3	24.5	19.9	15.8	15.0
75°	46.3	23.9	17.2	16.1	12.7	15.3	20.2	19.0	14.1	10.4	9.5
77.5°	30.2	17.0	11.8	10.4	7.2	10.0	15.0	13.2	8.3	5.2	4.6
80°	19.0	11.3	6.9	4.9	3.5	5.4	8.1	5.7	3.2	1.1	0.8
82.5°	10.0	5.7	2.6	1.7	1.4	1.7	2.0	1.4	0.6	0.0	0.0
85°	4.0	2.0	0.8	0.6	0.3	0.0	0.6	0.3	0.0	0.0	0.0
87.5°	1.4	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)