

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: P959865

Luminaire Tested: **NAV-SB1B-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959865
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-740-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

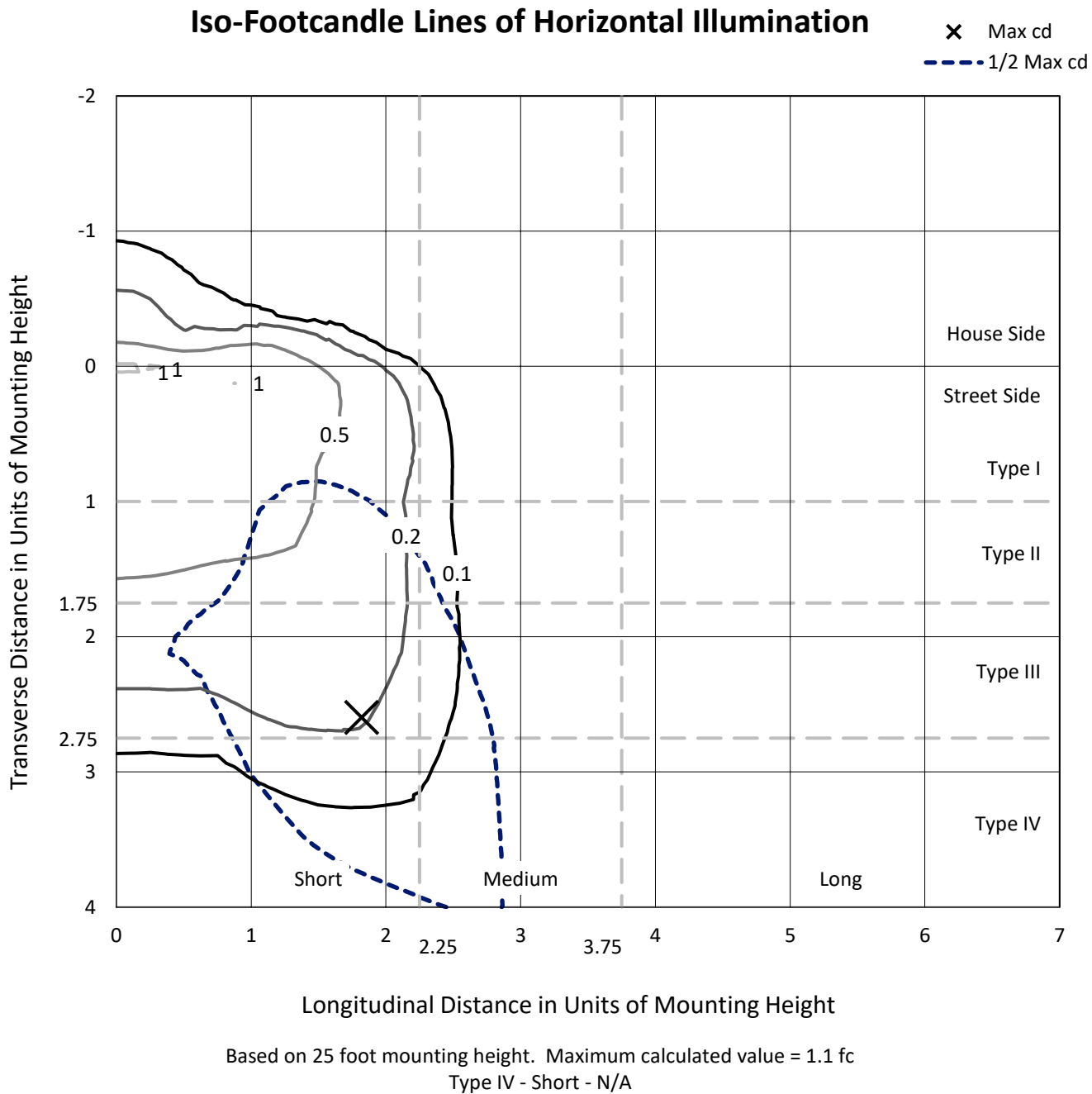
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4624.8 lumens
Efficiency: N/A
Efficacy: 116.2 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

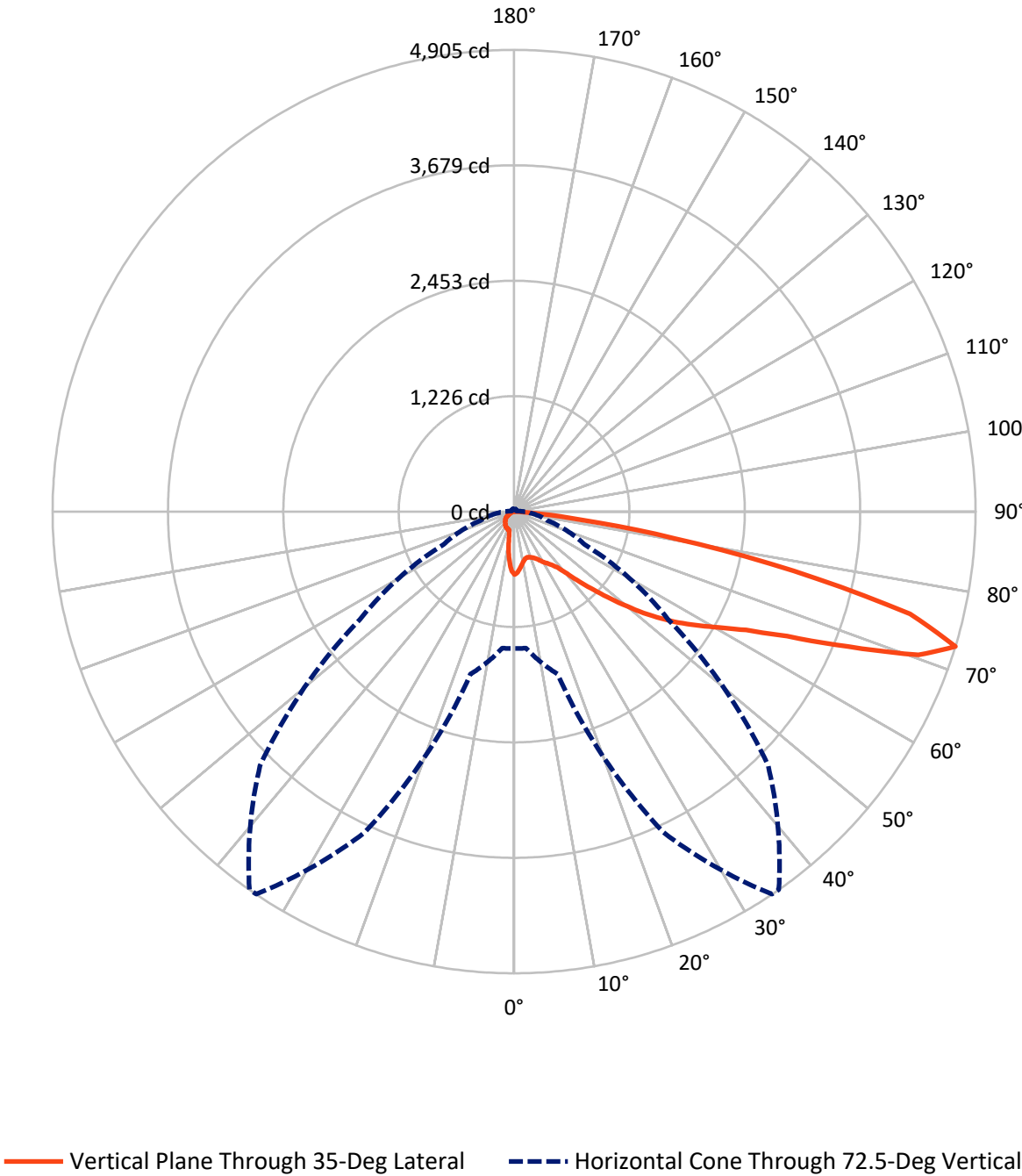


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Luminous Intensity Polar Plot



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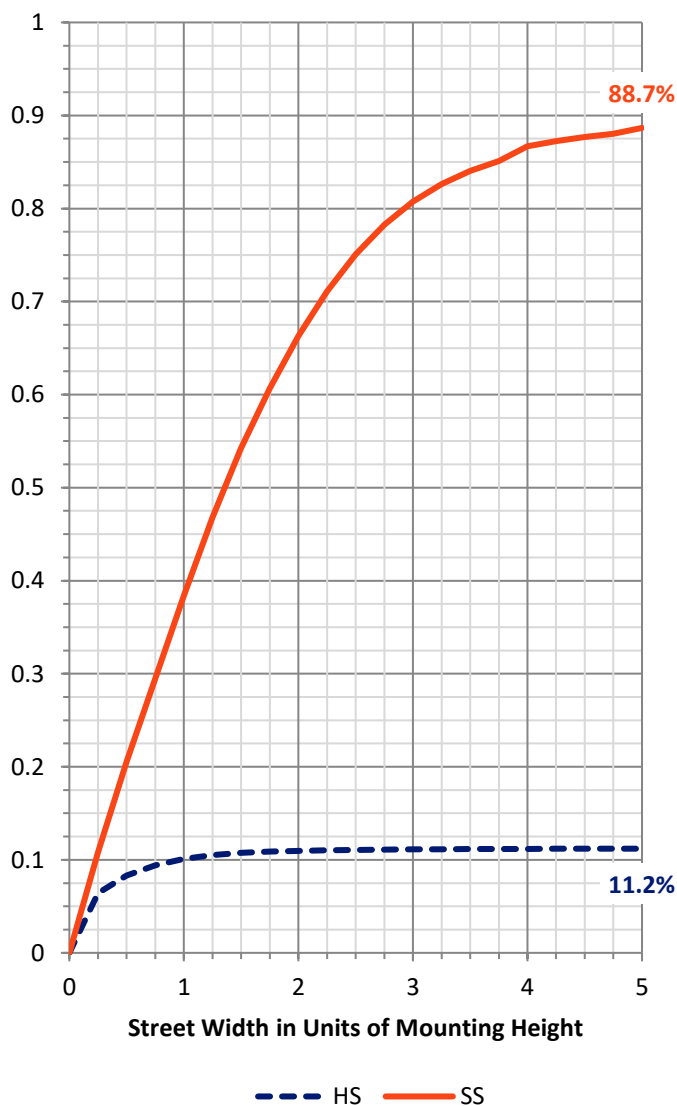
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	520.5	0.0	520.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4104.3	0.0	4104.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	4624.8	0.0	4624.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	1.2
10°-20°	128.9	2.8
20°-30°	209.3	4.5
30°-40°	349.2	7.6
40°-50°	660.8	14.3
50°-60°	1050.0	22.7
60°-70°	1298.9	28.1
70°-80°	807.4	17.5
80°-90°	65.3	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°	4624.8	100.0
0°-180°	4624.8	100.0

Coefficient of Utilization



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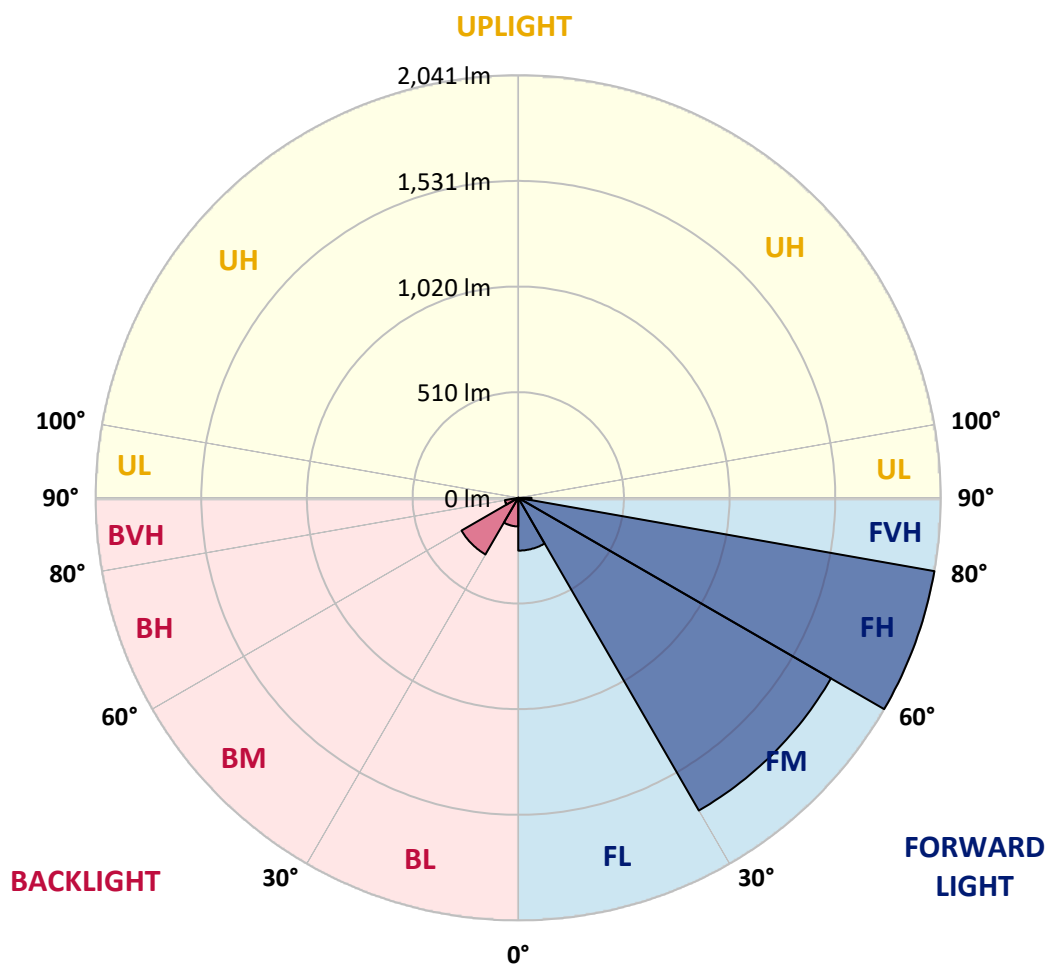
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	254.9	5.5			
FM	(30°-60°)	1744.0	37.7			
FH	(60°-80°)	2041.0	44.1			G2/5000
FVH	(80°-90°)	64.4	1.4			G1/100
BL	(0°-30°)	138.3	3.0	B1/500		
BM	(30°-60°)	316.0	6.8	B1/1000		
BH	(60°-80°)	65.3	1.4	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	34°	35°	45°	55°	65°	75°	85°
0°	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2
2.5°	640.4	645.9	646.9	648.6	648.6	650.7	654.1	658.8	666.6	670.7	673.3
5°	590.3	594.4	599.4	603.5	611.3	612.3	625.6	638.5	656.4	669.9	679.5
7.5°	539.9	544.6	551.3	561.2	571.3	574.4	594.4	616.0	644.5	669.9	685.8
10°	504.2	504.6	510.7	520.5	536.8	540.5	564.9	595.7	631.3	665.8	692.0
12.5°	484.2	486.7	489.3	496.8	512.4	514.8	540.8	577.1	618.1	663.5	699.0
15°	484.2	486.0	487.6	491.4	503.9	505.9	529.0	565.3	611.3	664.5	710.6
17.5°	489.3	492.0	490.7	495.1	508.3	509.6	530.0	561.8	611.0	671.0	728.3
20°	501.5	503.6	500.8	503.6	516.8	519.5	540.5	568.3	616.7	682.1	750.3
22.5°	520.8	521.8	515.5	517.4	531.1	534.4	558.8	586.6	630.7	700.1	779.7
25°	545.2	547.2	537.4	539.9	552.7	556.8	584.9	614.1	652.6	724.9	817.3
27.5°	573.4	574.4	565.9	565.6	582.2	587.9	616.4	647.9	682.1	756.0	864.8
30°	605.6	608.6	600.4	599.1	620.1	624.8	653.0	689.6	725.5	802.8	932.2
32.5°	631.0	633.3	628.6	632.0	653.3	657.0	697.4	748.6	793.7	869.2	1024.1
35°	667.6	668.9	658.0	664.2	688.6	698.0	758.1	831.3	879.3	952.5	1144.0
37.5°	800.1	800.1	754.0	723.9	747.2	755.7	841.1	935.3	985.1	1064.4	1295.2
40°	983.4	980.3	913.0	851.3	848.2	864.8	959.3	1066.4	1121.7	1198.6	1465.2
42.5°	1179.0	1174.2	1082.4	1021.3	1011.2	1017.0	1095.9	1228.1	1284.3	1362.2	1648.3
45°	1352.5	1351.1	1267.0	1185.0	1166.8	1185.0	1266.4	1417.2	1457.4	1539.4	1831.0
47.5°	1497.8	1497.8	1436.4	1382.9	1373.4	1384.3	1497.1	1626.9	1623.2	1728.3	2008.8
50°	1665.2	1663.9	1605.6	1582.5	1592.3	1607.6	1762.8	1847.9	1794.7	1913.6	2167.8
52.5°	1782.5	1790.6	1770.6	1766.9	1817.0	1843.5	2032.6	2064.0	1948.2	2089.5	2286.7
55°	1875.3	1884.8	1907.8	1934.0	2030.5	2065.1	2293.8	2269.0	2076.6	2242.0	2355.1
57.5°	2006.8	1993.2	2028.8	2080.3	2236.5	2278.3	2546.9	2462.6	2180.0	2365.7	2362.6
60°	2166.4	2168.5	2174.5	2239.6	2442.3	2495.8	2796.4	2645.5	2246.4	2441.5	2279.9
62.5°	2358.2	2361.3	2373.8	2473.7	2718.4	2768.9	3062.1	2795.4	2276.8	2420.2	2066.4
65°	2345.0	2357.9	2497.8	2839.8	3138.2	3188.1	3372.1	2900.4	2230.8	2225.1	1682.5
67.5°	2136.2	2157.2	2391.4	3276.9	3771.3	3826.8	3746.9	2921.0	2031.9	1730.3	1097.6
70°	1862.4	1869.9	2151.5	3670.0	4504.3	4560.5	4082.4	2693.7	1541.9	965.1	491.7
72.5°	1454.5	1456.1	1786.6	3761.1	4902.2	4905.1	3819.0	1999.7	829.2	370.7	170.8
75°	1038.9	1028.8	1196.6	3050.2	4312.8	4347.4	2863.1	938.0	316.8	175.2	85.1
77.5°	557.1	568.3	677.1	1808.9	2979.4	3038.3	1562.2	270.4	161.3	119.3	56.3
80°	172.1	181.6	277.6	828.2	1687.6	1723.1	579.1	120.3	112.5	85.1	36.9
82.5°	54.2	56.3	129.5	348.0	700.5	716.7	167.8	68.2	76.9	56.3	21.7
85°	15.6	15.9	57.6	129.8	173.1	176.5	47.2	26.4	44.1	35.0	11.2
87.5°	1.7	5.4	21.7	21.7	15.3	14.9	5.1	5.7	12.5	4.4	2.0
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°	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2
2.5°	671.7	672.0	667.6	660.1	652.0	645.2	636.7	630.0	625.2	623.8	626.3
5°	676.4	674.0	661.4	638.8	611.6	588.2	562.2	541.5	528.0	522.2	524.2
7.5°	683.5	676.7	649.2	604.5	552.7	506.7	459.8	423.6	400.6	389.0	390.7
10°	689.6	676.1	628.9	555.0	475.8	406.0	343.0	299.2	274.8	263.3	263.6
12.5°	695.4	675.7	602.5	496.4	389.0	303.6	245.0	223.3	216.6	214.1	213.5
15°	706.2	676.7	569.3	429.4	302.6	229.4	208.1	207.8	209.1	208.4	208.1
17.5°	721.1	677.7	531.7	358.2	233.5	202.3	201.3	204.4	206.3	205.3	205.0
20°	740.5	681.8	491.7	287.7	200.6	195.6	197.9	200.6	202.3	200.6	200.3
22.5°	767.5	688.9	448.0	231.1	190.1	191.5	193.5	196.6	198.2	195.9	195.6
25°	800.7	700.1	405.0	200.9	185.0	186.8	189.7	193.1	195.2	192.8	192.5
27.5°	843.8	718.1	365.3	194.1	180.0	180.9	185.3	190.4	193.1	190.1	190.1
30°	906.1	747.5	331.1	197.2	176.9	174.6	180.6	187.8	190.8	188.1	187.8
32.5°	988.8	789.2	310.1	201.9	175.6	167.1	172.8	181.9	187.1	185.3	185.3
35°	1097.3	852.6	302.0	207.4	174.6	159.3	163.4	173.1	181.9	183.7	183.7
37.5°	1228.8	940.7	304.3	209.7	171.5	152.8	154.9	163.4	174.9	180.3	181.6
40°	1378.2	1043.3	317.9	207.4	168.1	147.4	147.7	154.2	164.3	172.5	175.2
42.5°	1532.4	1163.4	343.0	198.5	165.0	142.7	141.7	146.1	152.8	158.6	160.9
45°	1679.2	1286.7	367.7	186.3	161.3	138.0	135.5	137.2	138.6	140.9	142.4
47.5°	1807.2	1373.4	360.6	175.2	156.2	132.5	128.4	127.7	123.7	123.3	123.0
50°	1895.6	1392.5	320.2	164.0	148.7	126.4	119.9	115.9	108.8	105.4	105.7
52.5°	1923.8	1317.5	261.6	152.8	136.5	118.3	109.2	102.7	93.9	90.8	90.5
55°	1886.5	1170.8	209.1	139.3	119.6	107.4	97.3	88.8	81.7	77.9	77.9
57.5°	1795.4	984.1	165.3	123.3	101.7	95.2	85.1	76.6	70.5	66.7	66.1
60°	1644.2	781.5	130.8	104.3	86.7	82.0	71.5	66.1	60.7	56.3	55.2
62.5°	1414.8	557.8	102.7	82.7	72.5	67.1	61.0	56.9	50.5	44.4	43.4
65°	1104.0	341.2	79.3	60.7	58.3	55.6	51.9	48.1	40.3	34.2	33.2
67.5°	696.4	161.6	56.6	45.7	46.1	44.7	43.0	40.0	34.2	28.8	28.1
70°	306.7	78.3	37.3	35.0	34.2	34.2	35.6	34.5	29.1	24.1	23.1
72.5°	104.3	42.0	27.8	26.4	24.7	24.4	29.8	28.8	23.4	18.7	17.6
75°	54.5	28.1	20.3	19.0	14.9	17.9	23.7	22.3	16.6	12.2	11.2
77.5°	35.6	20.0	13.9	12.2	8.5	11.9	17.6	15.6	9.8	6.1	5.4
80°	22.3	13.2	8.1	5.7	4.1	6.5	9.5	6.8	3.7	1.3	1.0
82.5°	11.9	6.8	3.1	2.0	1.7	2.0	2.4	1.7	0.7	0.0	0.0
85°	4.7	2.4	1.0	0.7	0.3	0.0	0.7	0.3	0.0	0.0	0.0
87.5°	1.7	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)