

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: P960253

Luminaire Tested: **NAV-SB1C-722-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4841.1 lumens
Efficiency: N/A
Efficacy: 89.0 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

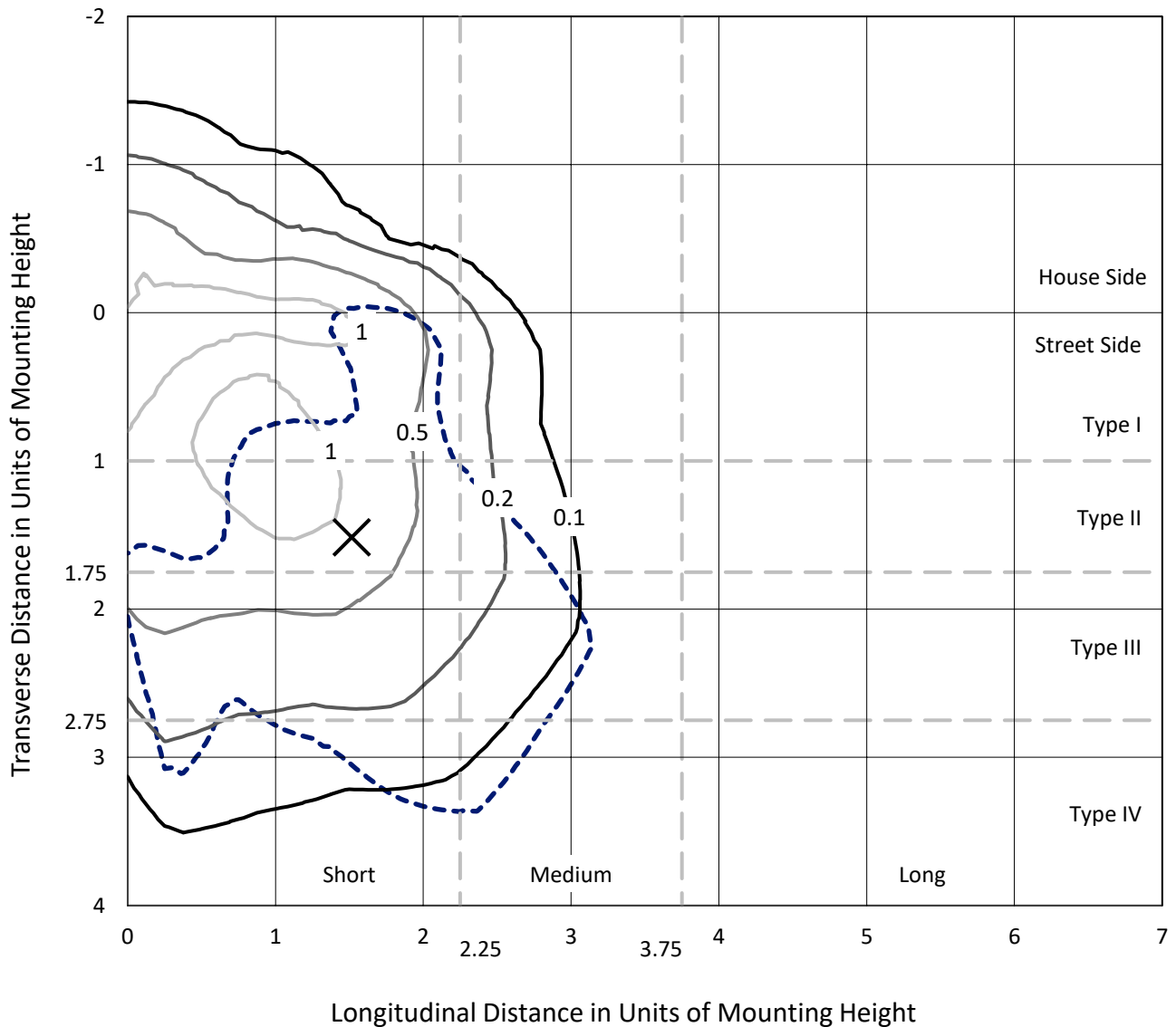
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

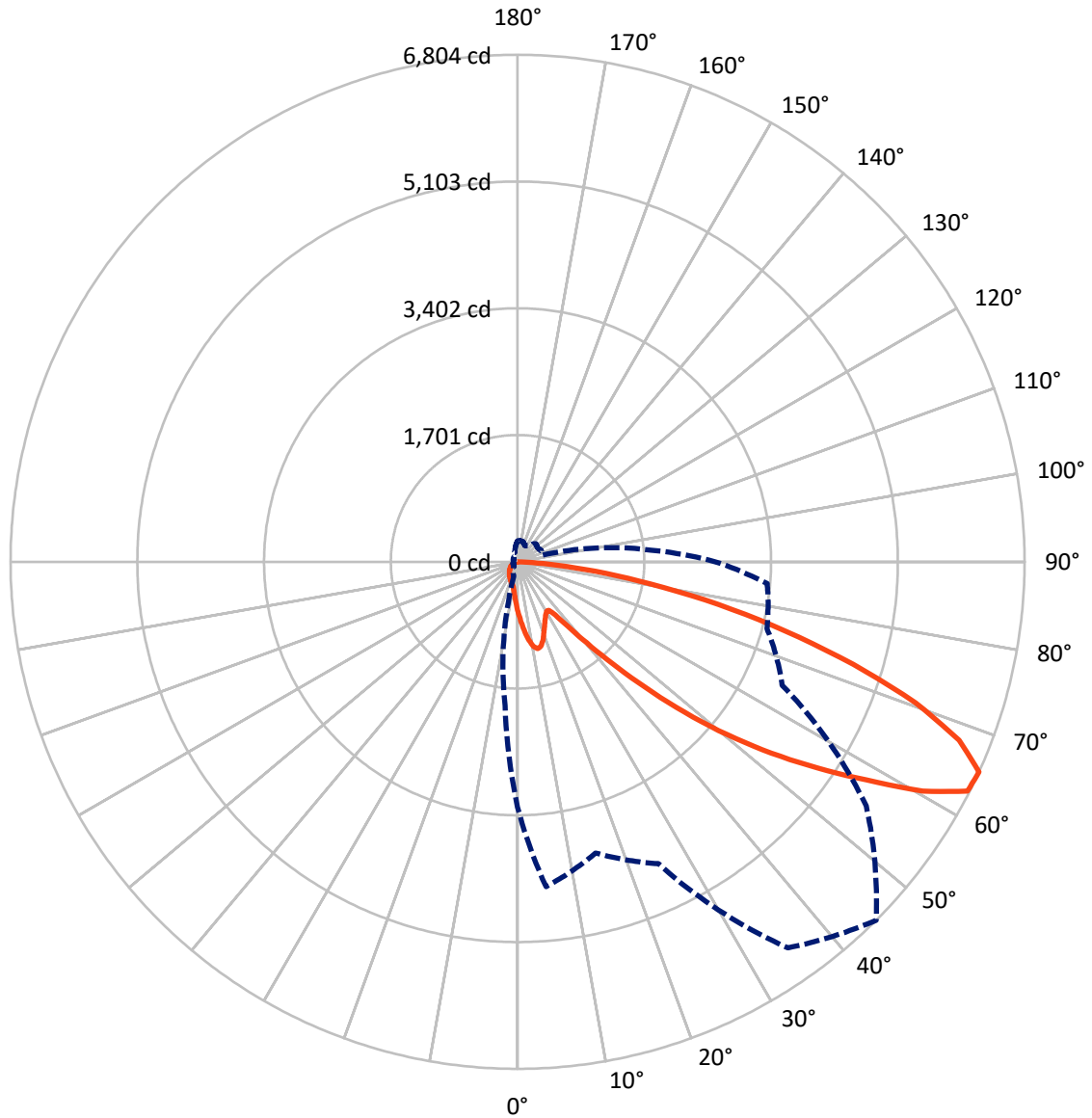
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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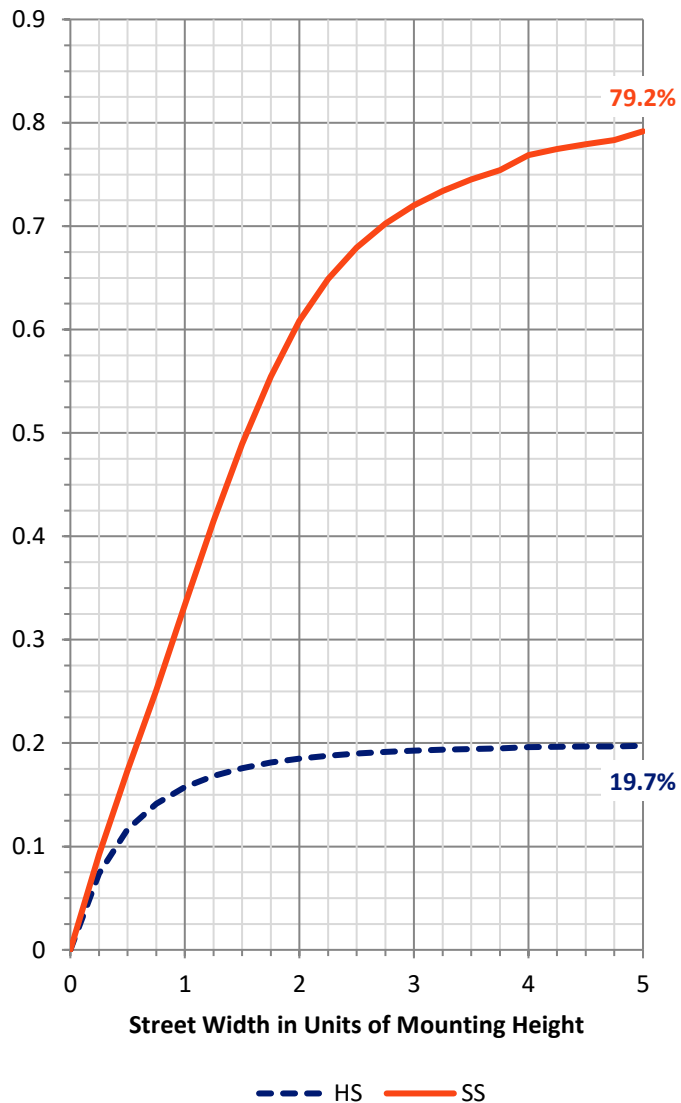
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	962.3	0.0	962.3
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	3878.8	0.0	3878.8
	% Fixture	80.1	0.0	80.1
Total	Lumens	4841.1	0.0	4841.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	1.4
10°-20°	197.8	4.1
20°-30°	291.5	6.0
30°-40°	374.4	7.7
40°-50°	605.6	12.5
50°-60°	1062.0	21.9
60°-70°	1328.8	27.4
70°-80°	776.5	16.0
80°-90°	138.5	2.9
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°	4841.1	100.0
0°-180°	4841.1	100.0

Coefficient of Utilization



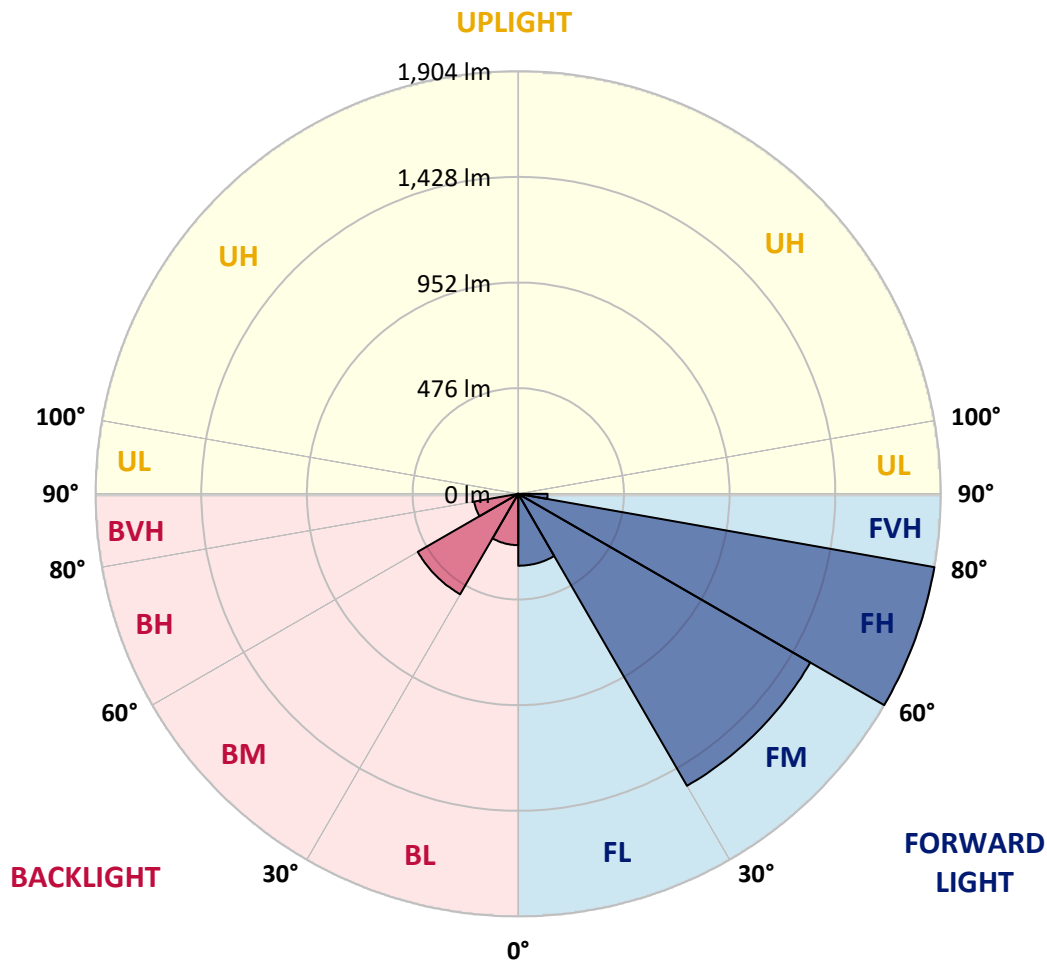
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	323.9	6.7			
FM	(30°-60°)	1519.2	31.4			
FH	(60°-80°)	1903.7	39.3			G2/5000
FVH	(80°-90°)	132.0	2.7			G2/225
BL	(0°-30°)	231.4	4.8	B1/500		
BM	(30°-60°)	522.8	10.8	B1/1000		
BH	(60°-80°)	201.6	4.2	B1/500		G1/500
BVH	(80°-90°)	6.5	0.1			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°	55°	65°	75°	85°	90°
0°	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3
2.5°	751.0	756.8	769.4	776.0	786.4	787.1	787.1	778.1	777.8	759.4	757.4
5°	839.4	852.8	882.7	913.8	920.4	922.1	918.8	900.8	887.4	851.8	844.1
7.5°	927.1	952.8	998.5	1039.9	1053.2	1053.2	1045.2	1015.9	988.5	936.8	917.5
10°	999.8	1032.2	1094.2	1140.5	1155.9	1152.6	1136.2	1099.2	1061.5	998.9	973.4
12.5°	1047.9	1084.2	1152.2	1189.6	1205.3	1196.6	1177.9	1142.0	1102.2	1036.2	1007.5
15°	1071.8	1109.9	1168.9	1188.6	1184.3	1175.3	1172.9	1155.6	1125.6	1063.8	1032.5
17.5°	1082.2	1117.6	1158.6	1146.3	1109.6	1102.6	1125.9	1147.9	1140.5	1087.8	1058.5
20°	1091.8	1121.6	1133.9	1079.2	1015.2	1008.8	1053.5	1116.2	1148.2	1110.2	1083.2
22.5°	1105.3	1123.6	1098.2	1008.5	939.5	924.8	974.2	1068.6	1150.6	1138.6	1111.5
25°	1123.6	1128.5	1058.8	941.5	872.1	857.4	903.4	1015.5	1146.6	1169.2	1146.3
27.5°	1145.5	1135.2	1021.2	885.4	818.4	804.7	850.7	964.5	1135.2	1200.0	1183.6
30°	1174.2	1143.9	983.8	842.0	780.0	770.1	814.4	920.4	1121.2	1238.9	1229.9
32.5°	1203.2	1147.6	949.1	816.7	771.4	775.0	811.4	896.8	1105.9	1276.3	1280.6
35°	1234.6	1159.3	932.1	841.7	843.8	875.8	890.8	918.8	1103.5	1327.0	1344.0
37.5°	1277.3	1185.2	952.4	966.2	1035.6	1101.9	1089.6	1026.5	1130.6	1402.7	1434.4
40°	1338.6	1230.9	1041.2	1177.9	1320.3	1428.0	1381.0	1222.3	1213.3	1511.8	1559.1
42.5°	1428.0	1303.7	1198.6	1436.7	1678.1	1855.6	1729.5	1474.8	1358.0	1667.5	1727.8
45°	1560.2	1421.4	1389.0	1709.8	2119.4	2398.9	2136.7	1743.8	1560.8	1903.3	1950.7
47.5°	1743.2	1594.5	1567.4	1997.6	2655.7	3017.2	2588.3	1993.3	1791.6	2224.8	2235.7
50°	1986.3	1827.6	1736.6	2312.5	3243.6	3647.5	3039.5	2234.1	2056.0	2617.6	2604.9
52.5°	2307.2	2152.7	1933.7	2612.3	3848.3	4264.4	3492.8	2445.5	2384.1	3073.6	3047.5
55°	2744.7	2641.9	2203.1	2898.5	4452.6	4885.2	3928.3	2645.0	2817.7	3615.2	3457.7
57.5°	3287.7	3361.0	2591.6	3230.3	4995.8	5524.7	4365.9	2923.8	3380.7	4220.7	3695.8
60°	3637.8	4317.2	3335.7	3720.9	5613.1	6248.1	4965.5	3454.0	3972.3	4437.8	3650.4
62.5°	3553.1	4621.3	4226.8	4347.1	6180.7	6774.0	5553.1	3986.6	4083.7	4118.0	3301.0
65°	3293.3	4375.8	4045.1	4468.9	6324.5	6803.7	5710.2	3918.0	3464.1	3362.0	2653.3
67.5°	2935.8	4084.7	3613.1	4146.0	6064.7	6388.8	5417.7	3465.7	2677.0	2522.9	1925.0
70°	2549.9	3762.6	3329.6	3783.9	5569.4	5665.8	4920.4	3048.1	1969.0	1703.9	1235.3
72.5°	2183.8	3427.1	3135.6	3412.7	4908.8	4709.4	4273.1	2679.0	1433.7	1229.0	878.1
75°	1809.2	2932.1	2859.1	2971.8	4040.0	3709.5	3550.4	2218.1	1125.2	889.1	606.0
77.5°	1396.0	2291.2	2459.2	2379.8	2843.8	2755.4	2752.0	1666.9	822.0	593.3	379.9
80°	955.5	1596.7	1921.3	1678.8	1845.6	1800.5	2072.7	1118.3	596.3	357.2	211.5
82.5°	561.6	972.1	1337.3	812.7	1020.5	1047.6	1234.3	544.0	350.9	82.4	46.0
85°	227.8	383.9	523.0	318.2	492.2	415.2	468.5	152.7	97.7	2.0	0.0
87.5°	57.4	122.7	86.0	35.7	57.0	52.4	41.3	18.7	4.0	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

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3
2.5°	744.4	736.7	717.7	698.6	683.4	662.7	649.0	632.6	616.9	603.0	600.3
5°	823.1	797.8	763.0	731.3	699.0	667.7	636.6	603.9	574.0	555.7	544.0
7.5°	887.1	842.4	796.4	756.0	717.0	680.3	639.3	599.6	552.6	527.6	504.9
10°	934.8	876.1	815.7	769.4	730.0	694.3	659.7	619.6	562.9	531.6	497.5
12.5°	966.2	896.5	825.7	772.7	728.7	701.0	685.7	670.0	613.7	577.0	527.6
15°	987.8	910.8	832.7	765.1	711.0	690.6	706.0	724.1	688.0	645.6	581.3
17.5°	1011.5	929.5	835.8	744.4	676.7	668.0	707.7	749.4	747.7	705.7	642.7
20°	1036.5	945.8	833.7	711.0	635.0	642.7	693.3	741.7	762.1	739.3	683.4
22.5°	1062.2	961.4	826.0	667.7	595.9	620.0	670.7	713.0	737.1	730.0	687.4
25°	1094.5	983.5	814.8	620.9	563.6	597.0	644.3	678.7	695.4	695.1	665.6
27.5°	1133.2	1012.8	808.7	583.3	540.6	570.9	612.9	643.7	655.3	655.3	632.0
30°	1178.2	1047.6	802.1	558.6	527.3	544.0	576.7	606.6	618.3	618.3	598.6
32.5°	1228.3	1080.9	786.1	543.6	517.2	517.6	538.2	565.6	579.6	581.6	567.6
35°	1288.3	1116.5	751.0	531.6	505.6	491.9	501.9	524.6	541.3	545.6	536.9
37.5°	1367.0	1160.2	701.0	513.9	487.6	464.9	467.2	484.6	503.0	509.6	503.9
40°	1472.7	1211.7	649.0	488.6	462.3	435.2	434.2	446.9	464.9	472.2	469.2
42.5°	1612.4	1273.3	599.3	464.2	431.5	403.8	402.2	412.3	427.8	435.5	434.2
45°	1791.2	1349.0	556.6	445.3	401.5	374.2	373.5	381.8	395.5	403.5	401.9
47.5°	2039.6	1424.7	527.6	435.2	377.8	349.8	351.2	358.5	370.8	376.5	374.2
50°	2363.5	1447.7	512.9	435.2	365.2	328.2	334.9	340.8	350.1	353.5	350.5
52.5°	2674.3	1371.7	499.6	437.9	366.8	309.9	324.2	328.5	336.5	337.8	333.5
55°	2826.7	1179.3	481.2	438.6	377.2	294.2	315.5	323.5	326.5	326.2	318.8
57.5°	2774.4	953.5	450.2	435.9	384.2	284.1	304.8	320.2	322.2	319.2	305.4
60°	2590.6	702.0	426.5	416.3	381.5	281.2	288.4	312.8	315.8	311.8	289.5
62.5°	2282.5	487.3	408.2	372.9	369.8	280.1	262.8	296.8	304.1	298.5	265.8
65°	1796.9	344.2	351.5	326.9	344.5	274.8	236.2	277.5	287.5	278.8	232.8
67.5°	1216.0	248.5	284.8	296.1	303.5	262.8	216.8	255.4	268.8	257.5	194.4
70°	656.6	174.5	188.1	249.5	257.8	242.1	199.5	233.1	248.5	236.2	158.4
72.5°	387.9	125.4	131.7	200.4	214.7	213.1	180.1	207.2	225.8	211.2	128.7
75°	213.8	84.7	94.1	145.4	174.5	164.4	154.8	175.4	194.4	180.1	99.4
77.5°	95.7	50.7	65.4	95.4	137.0	112.7	119.7	136.7	154.4	139.4	66.3
80°	37.0	28.4	43.4	52.1	99.7	62.3	77.1	100.8	113.4	101.4	40.4
82.5°	4.7	12.7	18.7	20.3	58.0	33.0	44.7	63.3	62.3	54.0	20.3
85°	0.0	2.4	2.7	1.3	25.0	12.0	14.7	20.7	19.4	14.7	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	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

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3
2.5°	583.9	571.9	565.9	561.0	565.6	568.3	568.3	579.6	586.3	589.0	607.6
5°	514.6	492.2	477.2	468.2	471.2	474.6	478.3	492.6	502.2	508.6	537.6
7.5°	459.9	425.9	404.9	393.9	395.5	397.9	400.9	414.9	424.6	432.9	465.2
10°	432.9	384.9	357.2	343.9	341.5	340.2	339.2	347.5	354.9	361.5	393.5
12.5°	434.2	367.2	333.5	317.1	310.2	302.2	295.8	297.1	301.9	310.2	330.5
15°	451.2	361.5	321.1	300.8	289.2	279.8	272.1	270.5	272.1	273.5	286.2
17.5°	474.3	360.8	310.5	285.2	273.2	265.5	258.5	256.1	256.5	258.1	261.5
20°	492.6	358.9	298.5	270.1	259.4	252.8	245.8	243.4	244.2	244.5	248.2
22.5°	502.2	355.9	285.2	255.1	246.1	239.4	233.1	232.8	232.8	234.8	237.5
25°	502.2	349.5	273.2	240.8	232.8	226.7	219.1	220.5	221.1	223.8	227.8
27.5°	490.3	337.5	263.4	228.5	220.1	214.1	207.2	208.8	209.8	212.8	217.8
30°	474.9	323.2	252.5	216.8	207.2	202.7	196.8	197.4	198.7	202.1	207.8
32.5°	458.6	306.2	243.4	205.1	195.5	192.1	185.4	186.4	187.8	191.5	197.7
35°	440.5	286.2	232.8	194.4	184.8	182.0	174.5	175.1	177.1	181.1	187.5
37.5°	421.6	269.8	222.1	184.1	174.0	171.4	163.4	164.1	166.5	171.1	177.1
40°	402.8	253.8	210.7	173.1	163.1	160.7	152.1	152.7	155.4	160.4	166.8
42.5°	382.5	241.5	196.1	161.7	151.1	148.7	140.7	141.8	144.7	149.8	156.1
45°	358.1	233.5	179.8	151.1	139.1	136.7	129.4	131.4	134.7	139.7	146.4
47.5°	333.1	230.1	166.0	139.7	126.7	124.7	118.7	122.1	125.8	129.8	137.0
50°	309.1	225.8	152.1	129.0	116.0	114.1	110.1	114.4	118.1	121.8	128.7
52.5°	281.8	216.5	139.4	119.7	107.0	106.4	104.3	108.3	111.7	115.1	121.1
55°	253.5	201.4	128.4	111.4	99.4	100.0	99.0	102.4	105.1	108.0	113.4
57.5°	228.8	182.4	119.7	102.4	92.8	94.7	93.4	95.0	96.8	100.3	104.8
60°	203.8	159.8	110.1	91.7	86.0	88.4	84.7	84.4	85.1	86.0	94.1
62.5°	170.0	136.0	98.1	82.4	78.7	79.7	72.7	67.3	67.3	68.4	80.4
65°	136.7	114.1	84.7	71.8	68.7	68.1	58.0	50.7	50.0	53.0	63.3
67.5°	112.3	94.7	71.3	59.7	57.7	58.3	51.0	43.7	43.0	46.3	54.0
70°	93.1	76.4	57.0	46.0	48.1	51.0	43.7	36.7	35.7	38.6	46.0
72.5°	74.0	59.7	43.7	34.0	39.7	43.4	35.7	29.0	28.4	31.1	38.0
75°	54.3	42.6	29.7	24.7	30.6	34.0	26.0	20.7	19.7	22.0	29.0
77.5°	33.7	24.0	18.7	14.7	21.0	22.7	13.6	12.0	11.7	13.3	18.3
80°	15.7	10.4	9.0	5.0	7.7	9.0	5.6	6.4	6.7	8.0	11.4
82.5°	4.3	1.6	0.3	0.0	0.0	2.7	1.3	2.7	3.4	5.0	7.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.6	3.0	5.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.7
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3
2.5°	621.7	635.0	656.3	678.3	700.0	722.0	743.3	751.0
5°	564.0	594.6	636.9	682.3	729.0	776.4	819.7	839.4
7.5°	499.6	543.6	607.3	678.3	752.7	827.1	895.4	927.1
10°	430.9	486.6	559.2	655.3	762.1	864.8	958.8	999.8
12.5°	365.5	423.8	504.3	619.3	754.7	886.4	999.5	1047.9
15°	310.8	362.5	449.3	576.7	731.0	887.8	1018.8	1071.8
17.5°	269.8	303.5	393.2	529.3	700.0	875.5	1025.5	1082.2
20°	249.5	258.8	320.5	468.5	671.0	863.8	1032.2	1091.8
22.5°	237.5	239.7	262.1	390.2	636.3	860.1	1043.9	1105.3
25°	227.8	228.5	234.4	309.1	583.3	857.7	1061.9	1123.6
27.5°	218.1	218.1	221.4	249.1	511.3	847.8	1085.2	1145.5
30°	208.5	208.5	210.7	220.5	426.9	828.1	1113.3	1174.2
32.5°	198.4	198.4	200.4	207.5	340.8	803.4	1138.9	1203.2
35°	188.4	187.8	190.4	197.7	271.1	772.0	1164.6	1234.6
37.5°	177.7	177.4	180.1	188.4	234.1	735.7	1183.9	1277.3
40°	166.5	166.5	169.4	178.5	223.4	690.0	1214.6	1338.6
42.5°	156.1	155.4	158.8	169.7	215.5	646.4	1269.7	1428.0
45°	146.1	144.7	147.7	161.4	201.4	631.0	1372.4	1560.2
47.5°	136.7	133.4	136.0	151.4	188.8	688.4	1540.5	1743.2
50°	129.0	122.7	125.0	141.4	179.1	812.7	1758.6	1986.3
52.5°	121.1	112.7	114.1	129.0	170.5	931.1	1995.0	2307.2
55°	112.7	103.4	104.0	116.7	158.1	948.8	2225.8	2744.7
57.5°	103.4	94.7	94.7	105.4	149.0	822.5	2403.2	3287.7
60°	93.1	87.3	85.7	96.4	157.0	580.3	2423.9	3637.8
62.5°	81.7	78.7	76.4	87.7	163.1	343.9	2257.5	3553.1
65°	68.7	68.1	66.3	96.4	137.5	203.1	1938.0	3293.3
67.5°	57.7	56.7	56.7	101.1	104.3	127.7	1514.1	2935.8
70°	49.7	46.0	46.0	76.4	63.3	88.4	1057.2	2549.9
72.5°	41.7	37.7	35.1	61.0	47.4	64.7	660.6	2183.8
75°	33.3	30.3	27.1	40.4	35.4	49.0	383.9	1809.2
77.5°	24.0	22.7	19.0	29.7	25.7	35.4	228.5	1396.0
80°	12.3	12.7	12.0	17.0	17.3	24.0	130.1	955.5
82.5°	7.4	5.6	6.4	8.3	10.0	13.6	49.0	561.6
85°	4.7	3.0	3.0	4.0	5.0	5.3	15.0	227.8
87.5°	2.4	1.0	1.3	2.0	1.6	1.3	0.7	57.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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