

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: P959728

Luminaire Tested: **NAV-SB1B-722-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959728
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-SB1B-722-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3639.8 lumens
Efficiency: N/A
Efficacy: 91.5 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

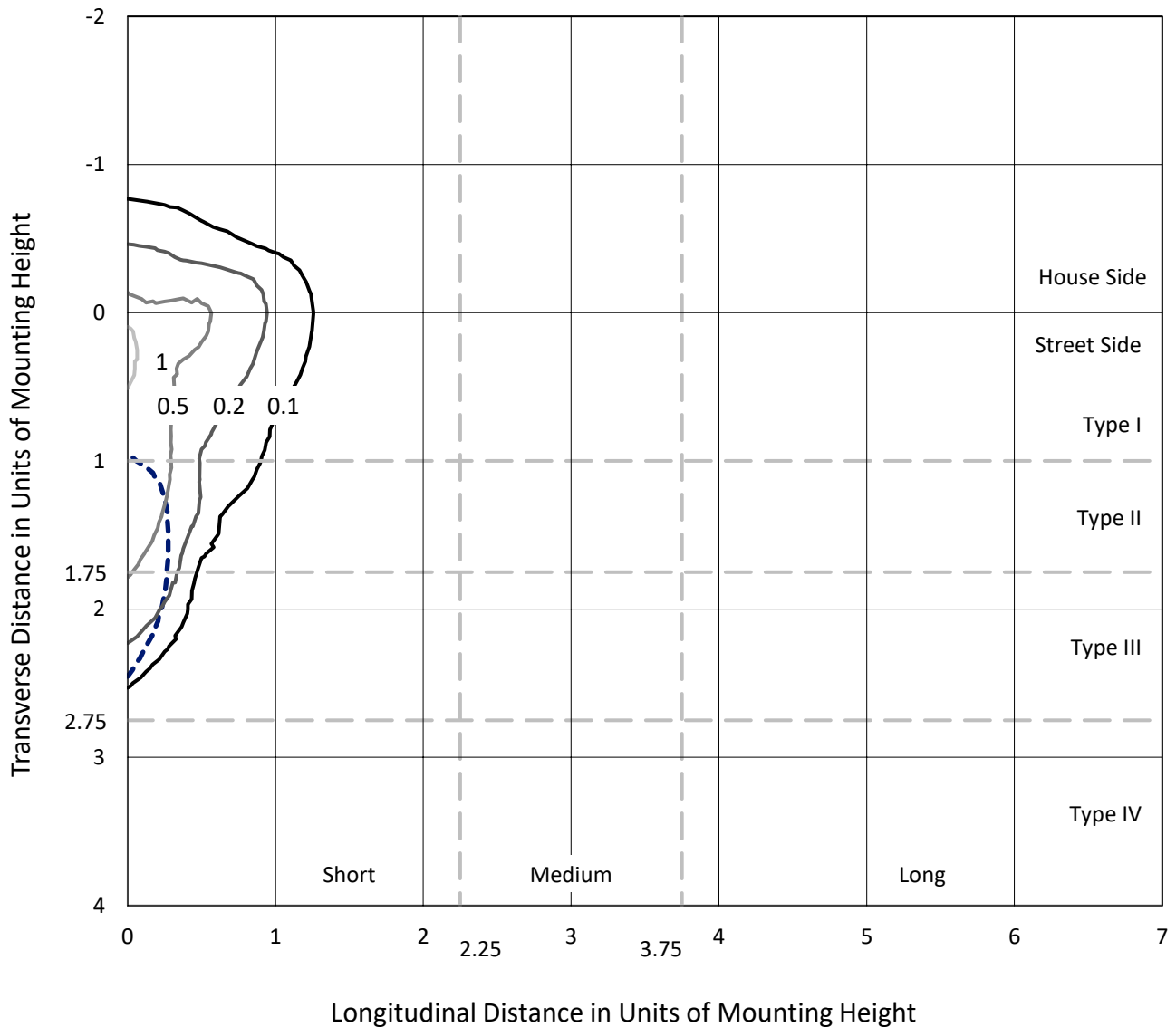
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

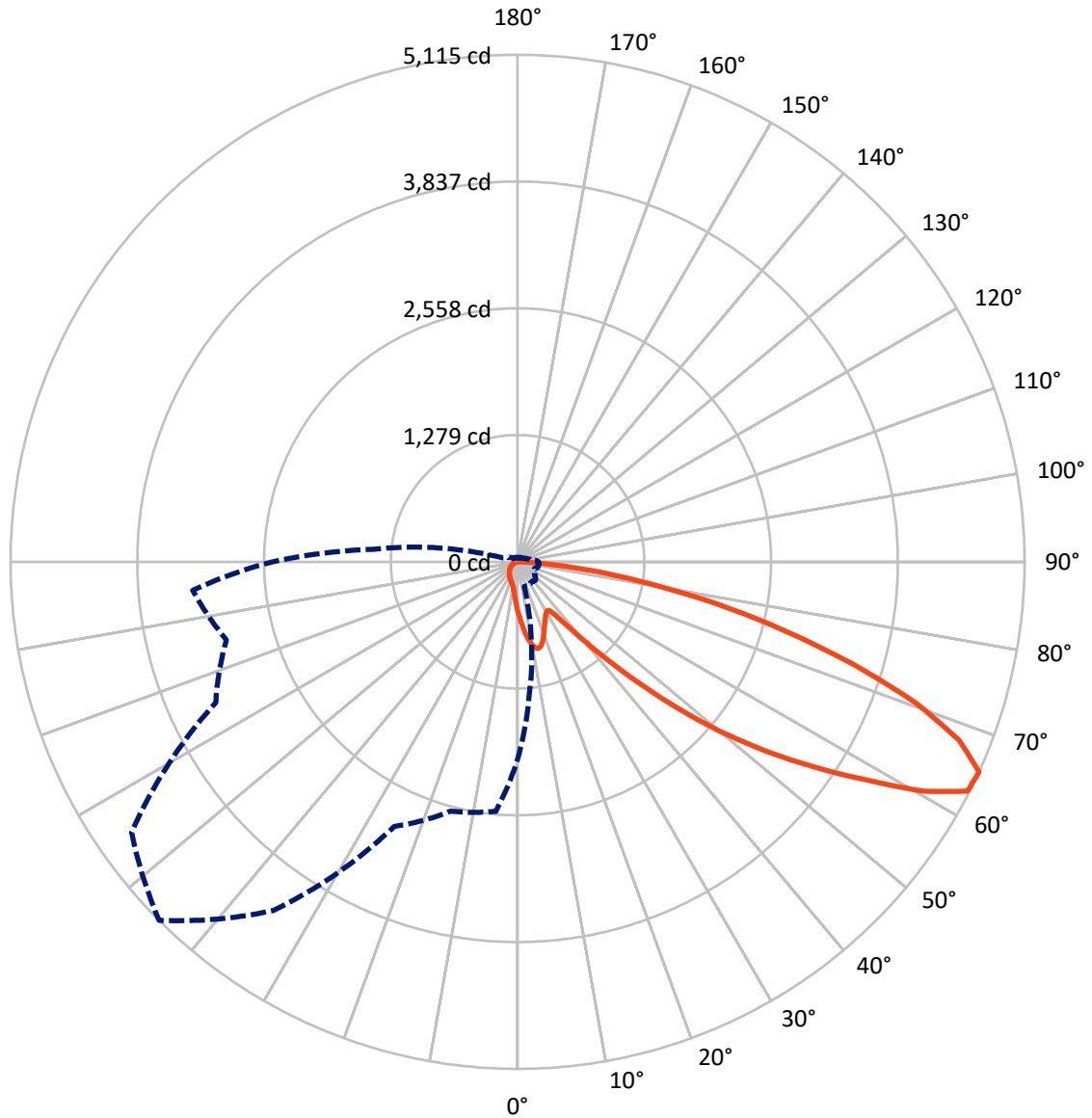
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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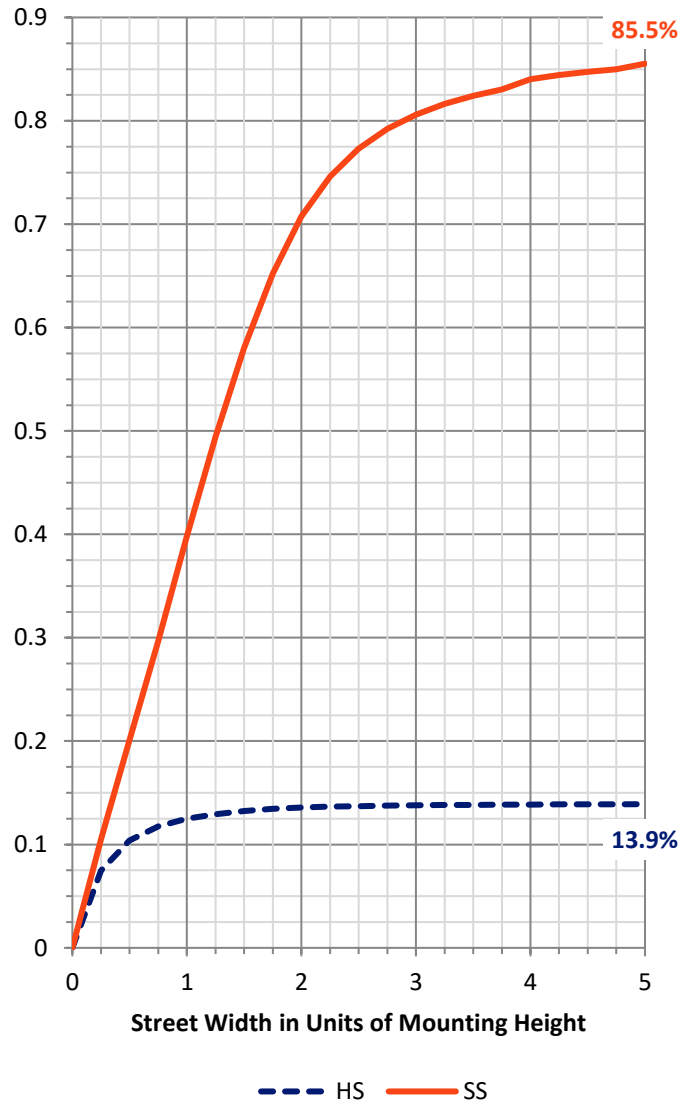
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	509.7	0.0	509.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3130.0	0.0	3130.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	3639.8	0.0	3639.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	1.4
10°-20°	148.7	4.1
20°-30°	219.1	6.0
30°-40°	281.5	7.7
40°-50°	455.3	12.5
50°-60°	798.4	21.9
60°-70°	999.1	27.4
70°-80°	583.8	16.0
80°-90°	104.2	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°	3639.8	100.0
0°-180°	3639.8	100.0

Coefficient of Utilization



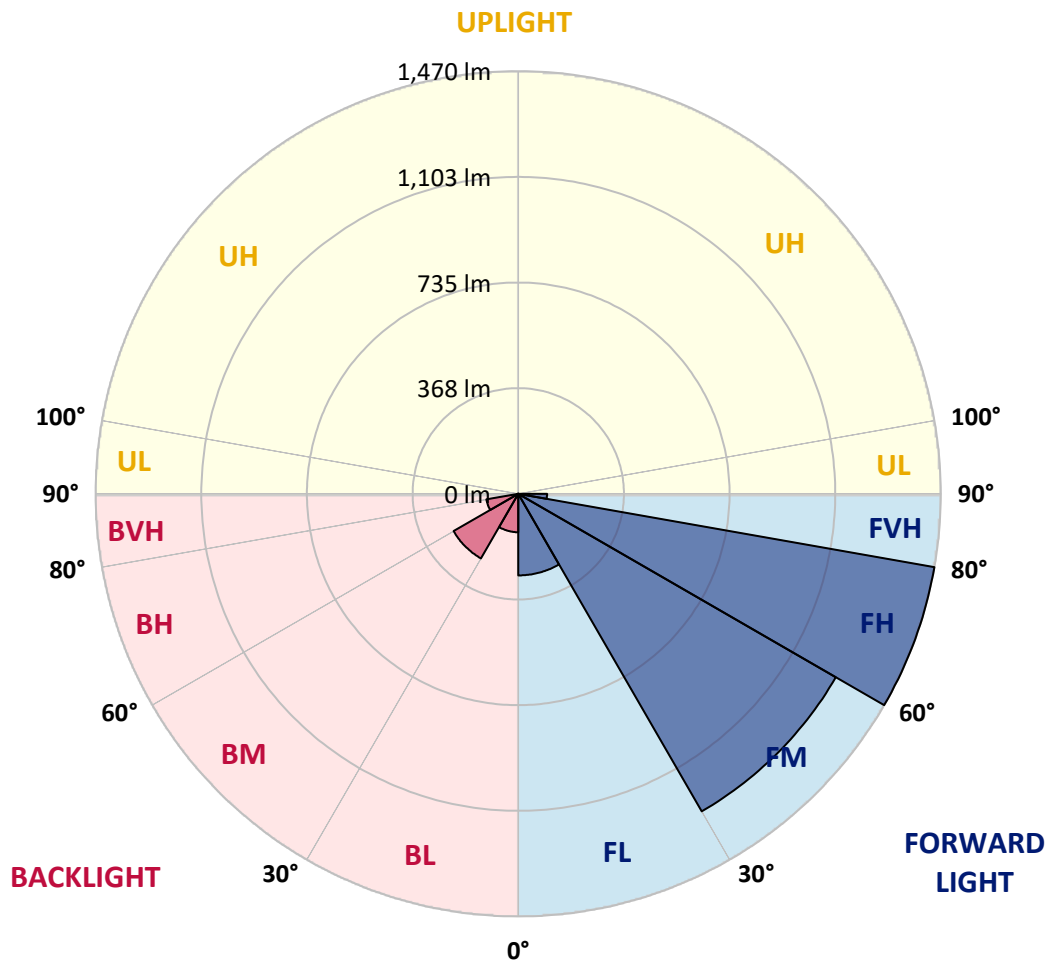
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.9	7.8			
FM (30°-60°)	1275.7	35.0			
FH (60°-80°)	1470.3	40.4			G1/1800
FVH (80°-90°)	100.2	2.8			G2/225
BL (0°-30°)	133.6	3.7	B1/500		
BM (30°-60°)	259.6	7.1	B1/1000		
BH (60°-80°)	112.5	3.1	B1/500		G1/500
BVH (80°-90°)	4.0	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°	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0
2.5°	569.4	559.6	553.9	539.6	525.3	513.7	498.3	487.9	475.7	463.9	453.4
5°	634.7	618.8	599.7	573.7	549.9	525.5	501.9	478.7	454.1	431.5	417.7
7.5°	689.8	667.0	633.3	598.8	568.5	539.0	511.5	480.6	450.8	415.4	396.7
10°	732.0	702.8	658.7	613.4	578.5	548.9	522.0	496.0	465.9	423.2	399.6
12.5°	757.5	726.4	674.0	620.8	581.0	547.9	527.1	515.6	503.8	461.4	433.8
15°	776.3	742.7	684.8	626.1	575.2	534.5	519.3	530.8	544.4	517.3	485.4
17.5°	795.8	760.6	698.8	628.3	559.6	508.7	502.2	532.1	563.4	562.2	530.5
20°	814.4	779.3	711.1	626.9	534.5	477.4	483.2	521.3	557.7	573.0	555.9
22.5°	835.7	798.6	722.9	621.0	501.9	448.0	466.2	504.2	536.1	554.1	548.9
25°	861.8	823.0	739.4	612.5	466.9	423.7	448.8	484.4	510.2	522.8	522.5
27.5°	889.9	852.0	761.5	608.0	438.6	406.4	429.3	460.8	483.9	492.7	492.7
30°	924.8	885.9	787.6	603.0	419.9	396.5	409.0	433.6	456.1	464.8	464.8
32.5°	962.9	923.5	812.6	591.0	408.7	388.9	389.2	404.7	425.3	435.8	437.3
35°	1010.4	968.6	839.5	564.7	399.6	380.2	369.8	377.4	394.4	406.9	410.2
37.5°	1078.4	1027.8	872.4	527.1	386.4	366.5	349.5	351.3	364.3	378.1	383.1
40°	1172.2	1107.3	910.9	487.9	367.4	347.6	327.2	326.5	336.0	349.5	355.1
42.5°	1299.1	1212.4	957.4	450.6	349.0	324.4	303.6	302.4	310.0	321.7	327.5
45°	1466.6	1346.7	1014.2	418.5	334.8	301.9	281.4	280.8	287.1	297.4	303.4
47.5°	1681.0	1533.5	1071.1	396.7	327.2	284.1	263.0	264.0	269.6	278.8	283.1
50°	1958.6	1777.0	1088.4	385.6	327.2	274.6	246.7	251.7	256.2	263.3	265.8
52.5°	2291.3	2010.7	1031.4	375.7	329.2	275.8	233.0	243.7	247.0	253.0	254.0
55°	2599.7	2125.3	886.6	361.8	329.7	283.6	221.2	237.2	243.2	245.5	245.2
57.5°	2778.8	2086.0	716.9	338.5	327.7	288.8	213.6	229.2	240.7	242.2	240.0
60°	2744.6	1947.8	527.8	320.7	312.9	286.9	211.4	216.9	235.2	237.5	234.4
62.5°	2481.8	1716.1	366.3	306.9	280.3	278.1	210.6	197.6	223.1	228.7	224.4
65°	1995.0	1350.9	258.8	264.2	245.7	259.0	206.6	177.5	208.6	216.2	209.6
67.5°	1447.3	914.2	186.8	214.1	222.6	228.2	197.6	163.0	192.1	202.1	193.6
70°	928.8	493.7	131.1	141.4	187.6	193.8	182.0	150.0	175.3	186.8	177.5
72.5°	660.2	291.6	94.3	99.0	150.7	161.4	160.2	135.4	155.7	169.7	158.7
75°	455.6	160.7	63.7	70.7	109.4	131.1	123.6	116.3	131.9	146.2	135.4
77.5°	285.6	72.0	38.1	49.1	71.8	103.0	84.8	90.0	102.8	116.1	104.9
80°	159.0	27.9	21.3	32.6	39.2	74.9	46.8	57.9	75.7	85.3	76.3
82.5°	34.6	3.5	9.5	14.0	15.3	43.7	24.8	33.6	47.7	46.8	40.6
85°	0.0	0.0	1.7	2.0	1.0	18.8	9.0	11.1	15.6	14.6	11.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	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°	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0
2.5°	451.3	439.0	430.0	425.5	421.8	425.3	427.2	427.2	435.8	440.9	442.8
5°	409.0	386.9	370.1	358.9	352.1	354.3	356.8	359.6	370.3	377.6	382.4
7.5°	379.7	345.7	320.2	304.4	296.1	297.4	299.1	301.3	311.9	319.2	325.4
10°	374.1	325.4	289.4	268.5	258.5	256.8	255.7	255.0	261.3	266.8	271.8
12.5°	396.7	326.5	276.0	250.7	238.4	233.2	227.1	222.4	223.4	226.9	233.2
15°	437.1	339.3	271.8	241.5	226.2	217.4	210.3	204.6	203.4	204.6	205.6
17.5°	483.2	356.6	271.3	233.4	214.4	205.3	199.6	194.3	192.6	192.8	194.0
20°	513.7	370.3	269.8	224.4	203.1	195.1	190.0	184.8	183.1	183.6	183.8
22.5°	516.8	377.6	267.5	214.4	191.8	185.0	180.0	175.3	175.0	175.0	176.5
25°	500.5	377.6	262.8	205.3	181.0	175.0	170.5	164.7	165.7	166.3	168.2
27.5°	475.2	368.6	253.8	198.1	171.8	165.5	161.0	155.7	156.9	157.7	160.0
30°	450.1	357.0	242.9	189.8	163.0	155.7	152.4	147.9	148.4	149.4	151.9
32.5°	426.8	344.8	230.2	183.1	154.2	147.0	144.4	139.4	140.1	141.1	143.9
35°	403.6	331.3	215.1	175.0	146.2	138.9	136.9	131.1	131.6	133.1	136.1
37.5°	378.8	316.9	202.8	167.0	138.4	130.9	128.8	122.9	123.4	125.2	128.6
40°	352.8	302.9	190.9	158.5	130.2	122.6	120.8	114.3	114.8	116.8	120.6
42.5°	326.5	287.6	181.5	147.4	121.6	113.6	111.8	105.8	106.6	108.9	112.5
45°	302.2	269.3	175.5	135.2	113.6	104.6	102.8	97.3	98.8	101.3	105.1
47.5°	281.4	250.5	173.0	124.8	105.1	95.3	93.8	89.3	91.7	94.5	97.6
50°	263.5	232.5	169.7	114.3	97.1	87.2	85.8	82.7	86.0	88.8	91.5
52.5°	250.7	211.9	162.8	104.9	90.0	80.5	79.9	78.5	81.5	83.9	86.5
55°	239.7	190.5	151.5	96.6	83.7	74.7	75.2	74.5	77.0	79.0	81.3
57.5°	229.7	172.0	137.1	90.0	77.0	69.7	71.2	70.2	71.4	72.7	75.4
60°	217.6	153.2	120.1	82.7	69.0	64.7	66.4	63.7	63.4	64.0	64.7
62.5°	199.9	127.9	102.3	73.7	61.9	59.1	60.0	54.6	50.6	50.6	51.4
65°	175.0	102.8	85.8	63.7	53.9	51.7	51.1	43.7	38.1	37.6	39.9
67.5°	146.2	84.5	71.2	53.7	44.9	43.4	43.9	38.3	32.8	32.4	34.8
70°	119.1	70.0	57.4	42.8	34.6	36.1	38.3	32.8	27.6	26.9	29.1
72.5°	96.8	55.7	44.9	32.8	25.6	29.8	32.6	26.9	21.8	21.3	23.4
75°	74.7	40.9	32.1	22.3	18.6	23.1	25.6	19.6	15.6	14.8	16.5
77.5°	49.9	25.3	18.0	14.0	11.1	15.8	17.0	10.2	9.0	8.8	10.0
80°	30.3	11.8	7.8	6.8	3.8	5.7	6.8	4.3	4.7	5.0	6.0
82.5°	15.3	3.3	1.2	0.2	0.0	0.0	2.0	1.0	2.0	2.5	3.8
85°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.2	2.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0
2.5°	456.8	467.4	477.4	493.4	510.0	526.3	542.8	558.9	564.7	569.0	578.5
5°	404.2	424.0	447.1	478.9	513.0	548.2	583.7	616.3	631.1	641.1	663.7
7.5°	349.8	375.7	408.7	456.6	510.0	565.9	621.9	673.2	697.1	716.4	750.7
10°	295.9	324.0	365.8	420.5	492.7	573.0	650.2	720.9	751.7	776.0	822.7
12.5°	248.5	274.8	318.7	379.1	465.7	567.4	666.5	751.4	787.8	815.2	866.3
15°	215.1	233.7	272.5	337.7	433.6	549.6	667.5	766.0	805.9	834.5	878.8
17.5°	196.6	202.8	228.2	295.6	397.9	526.3	658.2	771.0	813.6	840.2	871.0
20°	186.5	187.6	194.5	241.0	352.3	504.5	649.4	776.0	820.9	843.3	852.5
22.5°	178.6	178.6	180.3	197.1	293.4	478.4	646.7	784.8	831.0	844.7	825.7
25°	171.3	171.3	171.8	176.3	232.5	438.6	644.9	798.4	844.7	848.5	796.1
27.5°	163.7	164.0	164.0	166.5	187.3	384.4	637.3	815.9	861.3	853.5	767.7
30°	156.2	156.7	156.7	158.5	165.7	320.9	622.6	837.0	882.8	860.1	739.6
32.5°	148.7	149.2	149.2	150.7	156.0	256.2	604.0	856.3	904.7	862.8	713.6
35°	140.9	141.7	141.1	143.2	148.7	203.9	580.5	875.6	928.2	871.6	700.8
37.5°	133.1	133.7	133.4	135.4	141.7	176.0	553.1	890.1	960.3	891.1	716.2
40°	125.4	125.2	125.2	127.4	134.2	168.0	518.8	913.2	1006.4	925.5	782.8
42.5°	117.4	117.4	116.8	119.3	127.6	162.0	486.0	954.6	1073.7	980.1	901.2
45°	110.1	109.8	108.9	111.1	121.4	151.5	474.4	1031.8	1173.0	1068.7	1044.4
47.5°	103.0	102.8	100.3	102.3	113.9	142.0	517.5	1158.1	1310.7	1198.8	1178.4
50°	96.8	97.1	92.2	94.0	106.3	134.7	611.1	1322.1	1493.4	1374.1	1305.6
52.5°	91.0	91.0	84.8	85.8	97.1	128.1	700.1	1500.0	1734.6	1618.6	1453.8
55°	85.3	84.8	77.7	78.2	87.7	118.9	713.4	1673.4	2063.6	1986.3	1656.4
57.5°	78.7	77.7	71.2	71.2	79.2	112.0	618.3	1806.9	2471.8	2526.9	1948.5
60°	70.7	70.0	65.7	64.5	72.5	118.1	436.3	1822.3	2735.1	3245.9	2508.0
62.5°	60.5	61.4	59.1	57.4	65.9	122.6	258.5	1697.3	2671.5	3474.5	3177.9
65°	47.7	51.7	51.1	49.9	72.5	103.3	152.7	1457.0	2476.1	3289.9	3041.3
67.5°	40.6	43.4	42.6	42.6	76.0	78.5	96.0	1138.4	2207.2	3071.1	2716.6
70°	34.6	37.3	34.6	34.6	57.4	47.7	66.4	794.9	1917.2	2828.9	2503.5
72.5°	28.6	31.4	28.3	26.3	45.9	35.6	48.7	496.7	1641.8	2576.6	2357.5
75°	21.8	25.1	22.9	20.3	30.3	26.5	36.9	288.6	1360.3	2204.6	2149.6
77.5°	13.8	18.0	17.0	14.2	22.3	19.3	26.5	171.8	1049.6	1722.6	1849.0
80°	8.5	9.3	9.5	9.0	12.8	13.0	18.0	97.8	718.4	1200.6	1444.5
82.5°	5.5	5.5	4.3	4.7	6.3	7.5	10.2	36.9	422.3	730.9	1005.5
85°	4.0	3.5	2.3	2.3	3.0	3.8	4.0	11.3	171.3	288.6	393.2
87.5°	2.0	1.7	0.7	1.0	1.5	1.2	1.0	0.5	43.2	92.2	64.7
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°	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0
2.5°	583.4	591.2	591.7	591.7	585.0	584.8	570.9	569.4
5°	687.1	692.1	693.3	690.7	677.2	667.3	640.4	634.7
7.5°	781.8	791.8	791.8	785.9	763.7	743.2	704.4	689.8
10°	857.5	869.1	866.5	854.2	826.5	798.1	751.0	732.0
12.5°	894.4	906.2	899.6	885.6	858.5	828.7	779.1	757.5
15°	893.6	890.4	883.7	881.9	868.8	846.2	799.9	776.3
17.5°	861.8	834.2	828.9	846.5	863.0	857.5	817.9	795.8
20°	811.4	763.2	758.5	792.1	839.3	863.4	834.8	814.4
22.5°	758.3	706.3	695.4	732.5	803.4	865.1	856.1	835.7
25°	707.9	655.7	644.6	679.3	763.5	862.0	879.1	861.8
27.5°	665.7	615.3	605.1	639.6	725.2	853.5	902.2	889.9
30°	633.1	586.5	578.9	612.3	692.1	843.0	931.5	924.8
32.5°	614.1	579.9	582.7	610.1	674.2	831.5	959.6	962.9
35°	632.8	634.4	658.5	669.7	690.7	829.7	997.7	1010.4
37.5°	726.4	778.6	828.4	819.2	771.8	850.0	1054.6	1078.4
40°	885.6	992.7	1073.7	1038.3	919.0	912.2	1136.6	1172.2
42.5°	1080.2	1261.8	1395.1	1300.3	1108.7	1021.0	1253.7	1299.1
45°	1285.6	1593.5	1803.6	1606.5	1311.2	1173.5	1431.0	1466.6
47.5°	1501.9	1996.7	2268.4	1946.0	1498.7	1347.0	1672.7	1681.0
50°	1738.6	2438.7	2742.4	2285.2	1679.8	1545.8	1968.1	1958.6
52.5°	1964.1	2893.3	3206.2	2626.0	1838.6	1792.5	2310.9	2291.3
55°	2179.3	3347.6	3672.9	2953.5	1988.6	2118.6	2718.1	2599.7
57.5°	2428.7	3756.1	4153.8	3282.5	2198.2	2541.8	3173.4	2778.8
60°	2797.5	4220.2	4697.7	3733.3	2596.9	2986.5	3336.6	2744.6
62.5°	3268.4	4647.0	5093.1	4175.1	2997.4	3070.4	3096.2	2481.8
65°	3360.0	4755.1	5115.4	4293.2	2945.7	2604.4	2527.8	1995.0
67.5°	3117.2	4559.7	4803.5	4073.3	2605.8	2012.7	1896.9	1447.3
70°	2844.9	4187.4	4259.9	3699.4	2291.8	1480.4	1281.0	928.8
72.5°	2565.9	3690.7	3540.8	3212.8	2014.2	1078.0	923.9	660.2
75°	2234.4	3037.5	2789.0	2669.4	1667.7	846.0	668.5	455.6
77.5°	1789.3	2138.0	2071.6	2069.2	1253.2	618.1	446.1	285.6
80°	1262.3	1387.6	1353.7	1558.4	840.7	448.3	268.5	159.0
82.5°	611.1	767.3	787.6	928.0	409.0	263.7	61.9	34.6
85°	239.2	370.1	312.2	352.3	114.8	73.5	1.5	0.0
87.5°	26.9	42.8	39.4	31.1	14.0	3.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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