

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: STREETWORKS

Report Number: P959418

Luminaire Tested: **NVN-SB1A-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959418
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: STREETWORKS
Catalog Number: NVN-SB1A-827-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA 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: 3052.4 lumens
Efficiency: N/A
Efficacy: 98.8 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

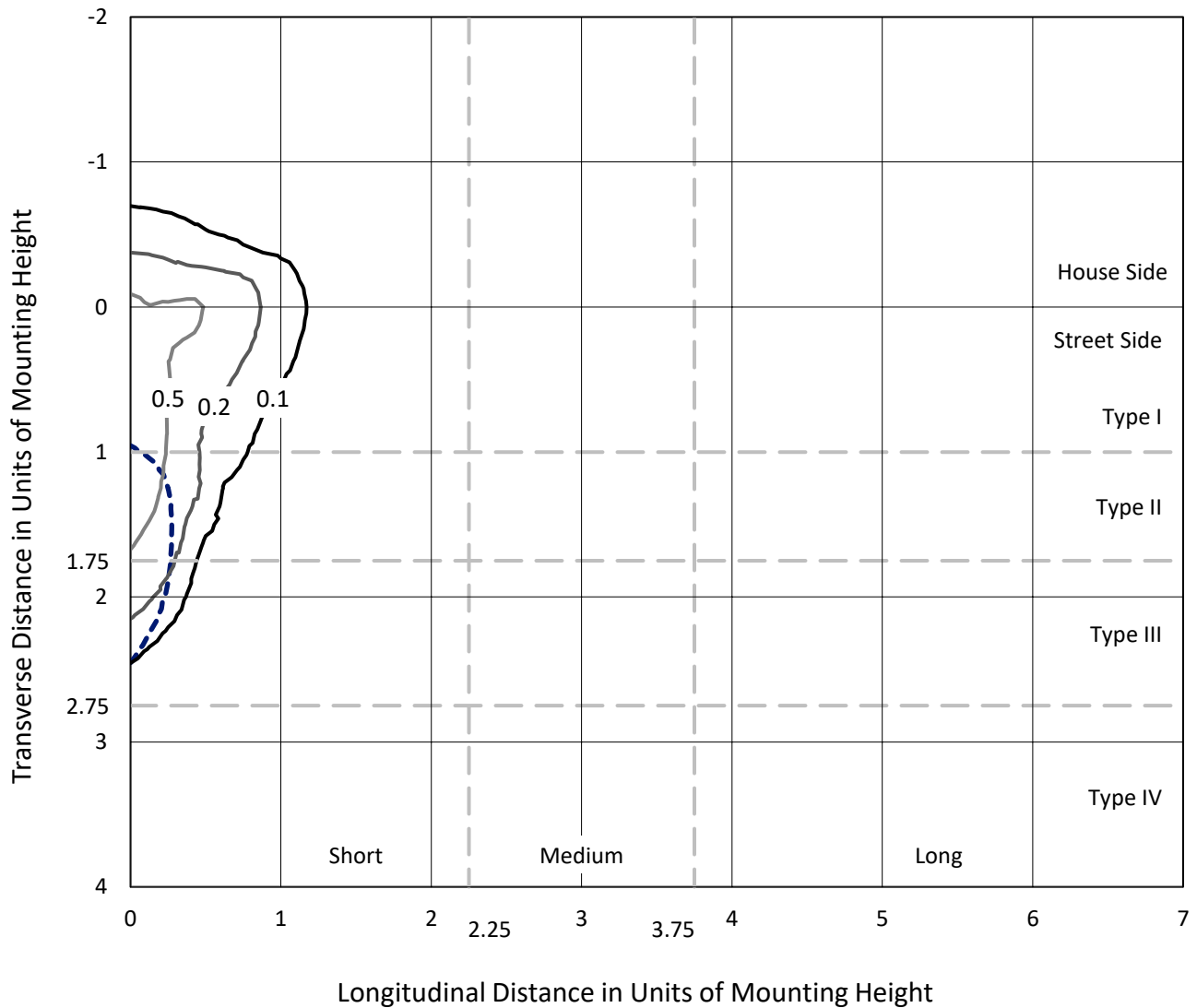
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

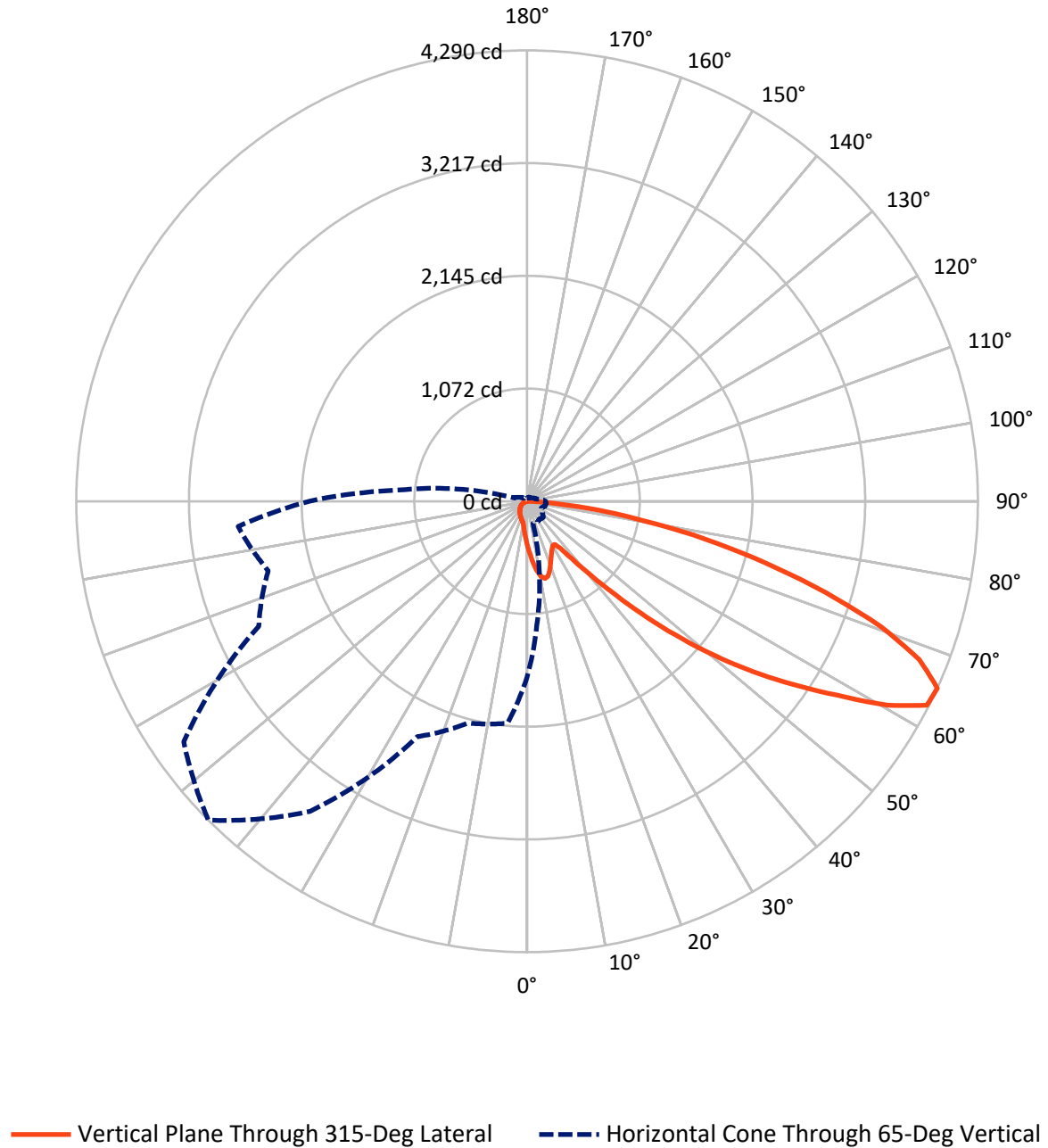
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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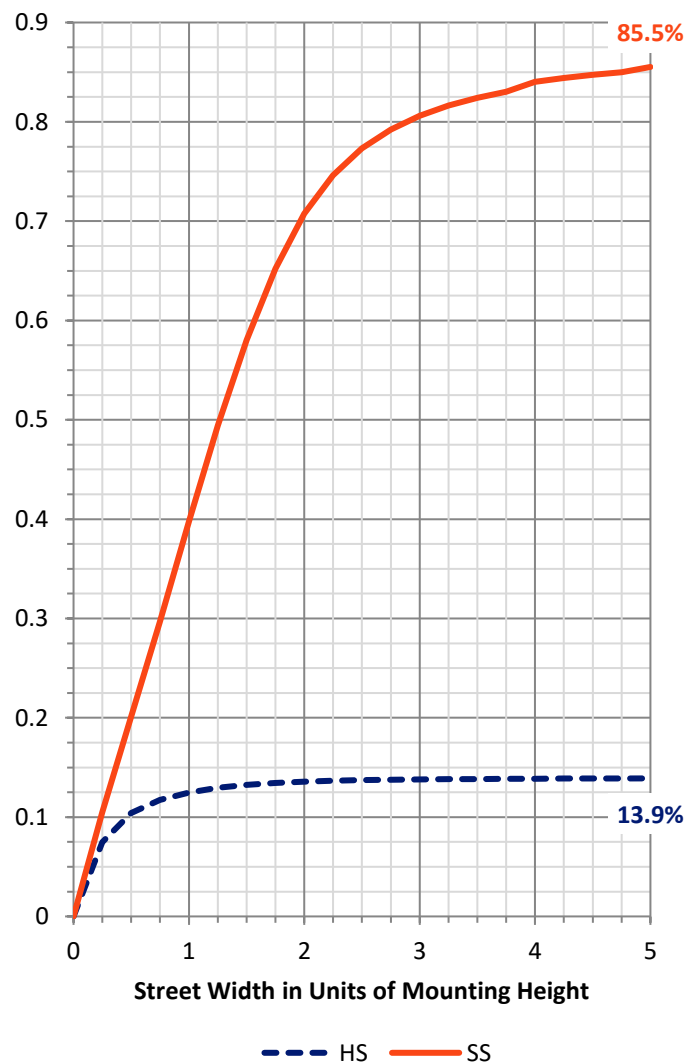
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	427.5	0.0	427.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2625.0	0.0	2625.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	3052.4	0.0	3052.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	1.4
10°-20°	124.7	4.1
20°-30°	183.8	6.0
30°-40°	236.1	7.7
40°-50°	381.8	12.5
50°-60°	669.6	21.9
60°-70°	837.8	27.4
70°-80°	489.6	16.0
80°-90°	87.3	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°	3052.4	100.0
0°-180°	3052.4	100.0

Coefficient of Utilization



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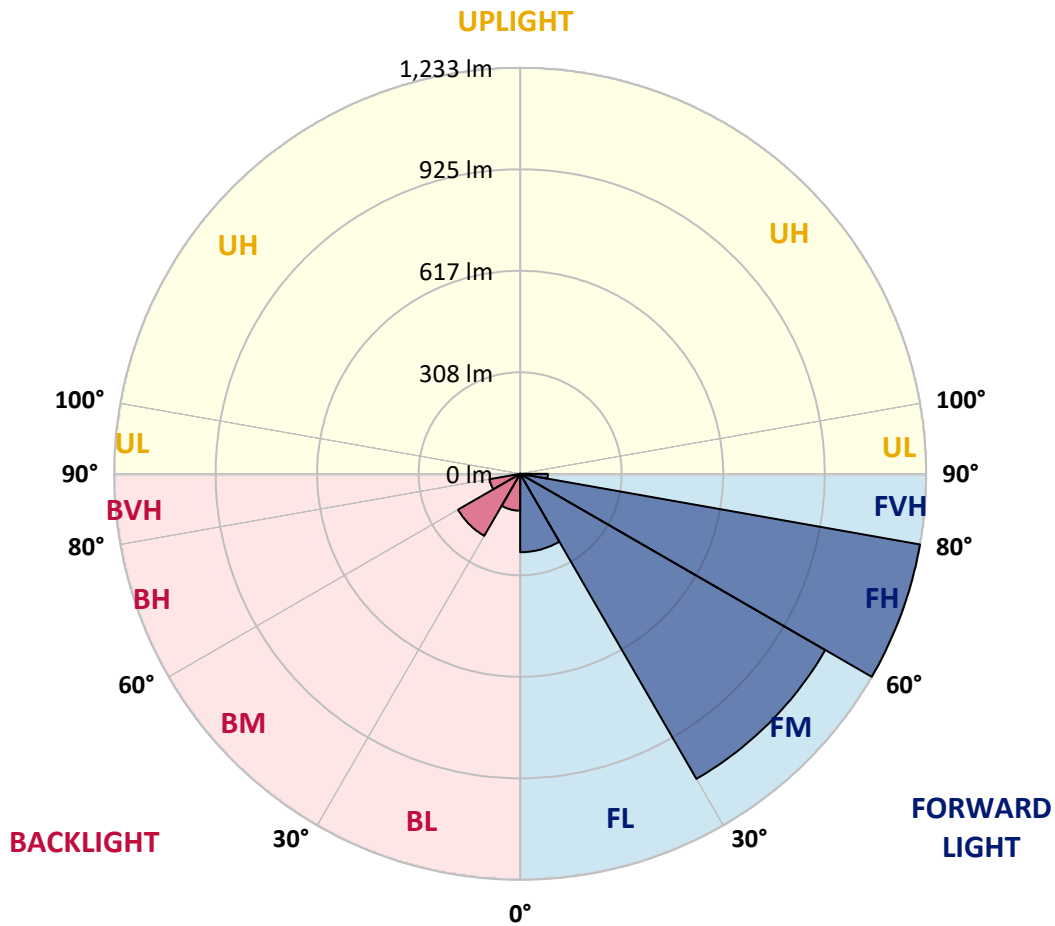
CATALOG NUMBER: NVN-SB1A-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	238.1	7.8			
FM (30°-60°)	1069.8	35.0			
FH (60°-80°)	1233.0	40.4			G1/1800
FVH (80°-90°)	84.0	2.8			G1/100
BL (0°-30°)	112.0	3.7	B1/500		
BM (30°-60°)	217.7	7.1	B0/220		
BH (60°-80°)	94.4	3.1	B0/110		G0/110
BVH (80°-90°)	3.4	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7
2.5°	477.5	469.3	464.5	452.5	440.5	430.9	417.8	409.2	398.9	389.0	380.2
5°	532.2	519.0	503.0	481.1	461.1	440.7	421.0	401.4	380.8	361.9	350.3
7.5°	578.5	559.3	531.2	502.1	476.7	452.1	429.0	403.1	378.1	348.4	332.7
10°	613.8	589.4	552.4	514.3	485.1	460.3	437.8	415.9	390.7	355.0	335.2
12.5°	635.3	609.2	565.3	520.7	487.2	459.5	442.0	432.3	422.5	386.9	363.8
15°	651.1	622.9	574.3	525.1	482.4	448.3	435.5	445.2	456.5	433.8	407.1
17.5°	667.5	637.8	586.1	527.0	469.3	426.7	421.2	446.2	472.5	471.5	445.0
20°	683.0	653.5	596.3	525.7	448.3	400.4	405.2	437.2	467.7	480.5	466.2
22.5°	700.9	669.7	606.3	520.9	421.0	375.8	390.9	422.9	449.6	464.7	460.3
25°	722.7	690.1	620.1	513.7	391.5	355.4	376.4	406.3	427.9	438.4	438.2
27.5°	746.3	714.5	638.6	509.9	367.8	340.9	360.0	386.5	405.8	413.2	413.2
30°	775.5	742.9	660.5	505.7	352.2	332.4	343.0	363.6	382.5	389.9	389.9
32.5°	807.5	774.5	681.5	495.6	342.8	326.2	326.4	339.4	356.6	365.5	366.7
35°	847.5	812.3	704.1	473.6	335.2	318.8	310.2	316.5	330.8	341.3	344.0
37.5°	904.5	861.9	731.5	442.0	324.0	307.4	293.2	294.6	305.6	317.1	321.3
40°	983.1	928.6	763.9	409.2	308.0	291.4	274.4	273.8	281.8	293.2	297.8
42.5°	1089.5	1016.7	802.9	377.9	292.7	272.1	254.6	253.6	259.9	269.8	274.6
45°	1229.9	1129.4	850.5	351.0	280.7	253.2	236.0	235.5	240.8	249.4	254.4
47.5°	1409.7	1286.1	898.3	332.7	274.4	238.2	220.6	221.4	226.0	233.8	237.4
50°	1642.6	1490.2	912.9	323.4	274.4	230.2	206.9	211.2	214.9	220.8	222.9
52.5°	1921.6	1686.2	864.9	315.0	276.1	231.3	195.4	204.4	207.2	212.2	213.0
55°	2180.2	1782.4	743.5	303.4	276.5	237.8	185.4	199.0	204.0	205.8	205.6
57.5°	2330.3	1749.4	601.2	283.9	274.8	242.2	179.2	192.2	201.8	203.2	201.2
60°	2301.7	1633.4	442.6	269.0	262.4	240.6	177.2	181.9	197.2	199.2	196.6
62.5°	2081.4	1439.2	307.2	257.4	235.1	233.2	176.6	165.7	187.2	191.8	188.2
65°	1673.0	1133.0	217.0	221.6	206.1	217.2	173.2	148.8	175.0	181.2	175.8
67.5°	1213.7	766.7	156.6	179.6	186.8	191.4	165.7	136.6	161.0	169.5	162.4
70°	778.9	414.0	110.0	118.6	157.3	162.6	152.6	125.8	147.0	156.6	148.8
72.5°	553.7	244.6	79.0	83.0	126.4	135.4	134.4	113.6	130.6	142.4	133.1
75°	382.1	134.8	53.4	59.3	91.6	110.0	103.6	97.6	110.6	122.6	113.6
77.5°	239.5	60.4	32.0	41.2	60.2	86.4	71.0	75.4	86.2	97.4	87.9
80°	133.4	23.4	17.8	27.4	32.8	62.8	39.4	48.6	63.6	71.5	64.0
82.5°	29.0	3.0	8.0	11.8	12.8	36.6	20.8	28.2	40.0	39.4	34.0
85°	0.0	0.0	1.4	1.6	0.8	15.8	7.6	9.2	13.0	12.2	9.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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°	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7
2.5°	378.5	368.2	360.6	356.8	353.7	356.6	358.3	358.3	365.5	369.7	371.4
5°	343.0	324.5	310.4	300.9	295.2	297.1	299.2	301.6	310.6	316.7	320.7
7.5°	318.4	290.0	268.5	255.3	248.4	249.4	250.8	252.8	261.6	267.7	273.0
10°	313.8	273.0	242.6	225.2	216.8	215.4	214.5	213.8	219.1	223.8	228.0
12.5°	332.7	273.8	231.5	210.3	200.0	195.6	190.5	186.5	187.4	190.3	195.6
15°	366.5	284.5	228.0	202.5	189.6	182.3	176.4	171.6	170.6	171.6	172.4
17.5°	405.2	299.0	227.6	195.8	179.8	172.2	167.4	163.0	161.5	161.7	162.8
20°	430.9	310.6	226.2	188.2	170.4	163.6	159.4	155.0	153.5	154.0	154.2
22.5°	433.4	316.7	224.4	179.8	160.8	155.2	151.0	147.0	146.8	146.8	148.0
25°	419.7	316.7	220.4	172.2	151.8	146.8	143.0	138.2	139.0	139.4	141.1
27.5°	398.5	309.1	212.8	166.2	144.0	138.8	135.0	130.6	131.6	132.2	134.2
30°	377.4	299.4	203.8	159.2	136.6	130.6	127.8	124.0	124.5	125.4	127.4
32.5°	357.9	289.2	193.0	153.5	129.4	123.2	121.2	117.0	117.6	118.4	120.7
35°	338.6	277.8	180.4	146.8	122.6	116.5	114.8	110.0	110.4	111.6	114.2
37.5°	317.8	265.8	170.1	140.0	116.0	109.8	108.0	103.0	103.4	105.0	107.8
40°	295.9	254.0	160.0	132.9	109.2	102.8	101.4	95.8	96.4	98.0	101.2
42.5°	273.8	241.2	152.2	123.6	102.0	95.2	93.8	88.8	89.4	91.2	94.4
45°	253.4	225.8	147.2	113.4	95.2	87.6	86.2	81.6	82.8	85.0	88.1
47.5°	236.0	210.0	145.1	104.8	88.1	79.9	78.6	74.8	77.0	79.2	81.8
50°	221.0	195.0	142.4	95.8	81.4	73.2	72.0	69.4	72.2	74.4	76.8
52.5°	210.3	177.7	136.4	87.9	75.4	67.5	67.0	65.8	68.4	70.4	72.6
55°	201.0	159.8	127.0	81.0	70.2	62.6	63.0	62.4	64.6	66.2	68.2
57.5°	192.6	144.2	115.0	75.4	64.6	58.4	59.8	58.8	60.0	61.0	63.3
60°	182.6	128.4	100.8	69.4	57.8	54.2	55.8	53.4	53.2	53.6	54.2
62.5°	167.6	107.2	85.8	61.8	52.0	49.6	50.2	45.8	42.4	42.4	43.2
65°	146.8	86.2	72.0	53.4	45.2	43.4	42.9	36.6	32.0	31.6	33.4
67.5°	122.6	70.8	59.8	45.0	37.6	36.4	36.8	32.2	27.6	27.2	29.2
70°	99.8	58.6	48.2	36.0	29.0	30.2	32.2	27.6	23.2	22.5	24.4
72.5°	81.2	46.6	37.6	27.6	21.4	25.0	27.4	22.5	18.2	17.8	19.6
75°	62.6	34.2	27.0	18.8	15.6	19.4	21.4	16.4	13.0	12.4	13.8
77.5°	41.8	21.2	15.2	11.8	9.2	13.2	14.3	8.6	7.6	7.4	8.4
80°	25.4	9.8	6.6	5.6	3.2	4.8	5.6	3.6	4.0	4.2	5.0
82.5°	12.8	2.8	1.0	0.2	0.0	0.0	1.6	0.8	1.6	2.2	3.2
85°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7
2.5°	383.1	392.0	400.4	413.8	427.7	441.4	455.3	468.7	473.6	477.1	485.1
5°	339.0	355.6	374.9	401.6	430.2	459.7	489.5	516.9	529.3	537.7	556.6
7.5°	293.4	315.0	342.8	382.9	427.7	474.6	521.5	564.6	584.6	600.8	629.6
10°	248.2	271.7	306.8	352.6	413.2	480.5	545.3	604.5	630.4	650.8	689.9
12.5°	208.4	230.4	267.2	318.0	390.5	475.9	558.9	630.2	660.7	683.7	726.5
15°	180.4	196.0	228.6	283.2	363.6	460.9	559.8	642.4	675.9	699.8	737.1
17.5°	164.8	170.1	191.4	247.9	333.7	441.4	552.0	646.6	682.3	704.7	730.5
20°	156.4	157.3	163.2	202.1	295.4	423.1	544.6	650.8	688.5	707.1	714.9
22.5°	149.8	149.8	151.2	165.3	246.0	401.2	542.3	658.2	696.9	708.5	692.5
25°	143.6	143.6	144.0	147.8	195.0	367.8	540.9	669.5	708.5	711.6	667.7
27.5°	137.4	137.6	137.6	139.6	157.0	322.4	534.5	684.3	722.3	715.8	643.9
30°	131.0	131.4	131.4	132.9	139.0	269.2	522.1	701.9	740.4	721.3	620.3
32.5°	124.7	125.2	125.2	126.4	130.8	214.9	506.6	718.1	758.7	723.5	598.5
35°	118.2	118.8	118.4	120.0	124.7	171.0	486.8	734.3	778.5	730.9	587.7
37.5°	111.6	112.0	111.8	113.6	118.8	147.6	463.9	746.5	805.3	747.3	600.5
40°	105.2	105.0	105.0	106.8	112.5	140.9	435.1	765.9	844.1	776.1	656.5
42.5°	98.4	98.4	98.0	100.1	107.0	135.8	407.5	800.5	900.5	821.9	755.7
45°	92.4	92.1	91.2	93.2	101.8	127.0	397.8	865.3	983.7	896.3	875.9
47.5°	86.4	86.2	84.2	85.8	95.4	119.0	434.0	971.3	1099.1	1005.3	988.3
50°	81.2	81.4	77.4	78.8	89.2	113.0	512.5	1108.8	1252.4	1152.3	1094.9
52.5°	76.4	76.4	71.0	72.0	81.4	107.4	587.1	1257.9	1454.7	1357.4	1219.2
55°	71.5	71.0	65.2	65.6	73.6	99.6	598.3	1403.4	1730.6	1665.8	1389.1
57.5°	66.0	65.2	59.8	59.8	66.4	94.0	518.5	1515.3	2073.0	2119.2	1634.1
60°	59.3	58.6	55.1	54.0	60.8	99.0	365.9	1528.4	2293.7	2722.1	2103.2
62.5°	50.6	51.6	49.6	48.2	55.4	102.8	216.8	1423.4	2240.3	2913.9	2665.1
65°	40.0	43.4	42.9	41.8	60.8	86.6	128.0	1221.9	2076.5	2759.1	2550.5
67.5°	34.0	36.4	35.8	35.8	63.8	65.8	80.6	954.7	1851.2	2575.5	2278.2
70°	29.0	31.4	29.0	29.0	48.2	40.0	55.8	666.6	1607.8	2372.4	2099.4
72.5°	24.0	26.2	23.8	22.0	38.4	29.8	40.8	416.6	1376.9	2160.9	1977.0
75°	18.2	21.0	19.2	17.0	25.4	22.2	31.0	242.0	1140.8	1848.8	1802.8
77.5°	11.6	15.2	14.3	12.0	18.8	16.2	22.2	144.0	880.3	1444.6	1550.6
80°	7.2	7.8	8.0	7.6	10.8	11.0	15.2	82.0	602.5	1006.9	1211.4
82.5°	4.6	4.6	3.6	4.0	5.2	6.4	8.6	31.0	354.1	612.9	843.3
85°	3.4	3.0	1.8	1.8	2.6	3.2	3.4	9.4	143.6	242.0	329.7
87.5°	1.6	1.4	0.6	0.8	1.2	1.0	0.8	0.4	36.2	77.4	54.2
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°	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7
2.5°	489.3	495.9	496.3	496.3	490.6	490.4	478.8	477.5
5°	576.2	580.4	581.4	579.3	568.0	559.5	537.1	532.2
7.5°	655.7	664.1	664.1	659.0	640.5	623.3	590.7	578.5
10°	719.1	728.9	726.7	716.5	693.1	669.3	629.8	613.8
12.5°	750.1	759.9	754.5	742.7	720.0	694.9	653.3	635.3
15°	749.5	746.7	741.1	739.5	728.7	709.7	670.8	651.1
17.5°	722.7	699.6	695.2	709.9	723.8	719.1	685.9	667.5
20°	680.5	640.1	636.1	664.3	703.8	724.0	700.1	683.0
22.5°	635.9	592.3	583.1	614.3	673.7	725.5	717.9	700.9
25°	593.6	549.9	540.6	569.7	640.3	722.9	737.3	722.7
27.5°	558.3	516.0	507.4	536.4	608.1	715.8	756.6	746.3
30°	530.9	491.9	485.5	513.5	580.4	706.9	781.2	775.5
32.5°	515.0	486.4	488.7	511.6	565.5	697.3	804.7	807.5
35°	530.7	532.0	552.2	561.7	579.3	695.9	836.7	847.5
37.5°	609.2	652.9	694.7	687.0	647.3	712.9	884.5	904.5
40°	742.7	832.5	900.5	870.7	770.7	765.0	953.2	983.1
42.5°	905.9	1058.1	1170.0	1090.5	929.9	856.3	1051.4	1089.5
45°	1078.1	1336.3	1512.6	1347.3	1099.5	984.1	1200.1	1229.9
47.5°	1259.6	1674.4	1902.4	1632.0	1256.9	1129.7	1402.8	1409.7
50°	1458.1	2045.2	2299.9	1916.5	1408.7	1296.4	1650.5	1642.6
52.5°	1647.2	2426.5	2688.9	2202.3	1542.0	1503.3	1938.0	1921.6
55°	1827.6	2807.5	3080.2	2476.9	1667.8	1776.6	2279.5	2180.2
57.5°	2036.8	3150.0	3483.6	2752.8	1843.6	2131.6	2661.3	2330.3
60°	2346.1	3539.2	3939.6	3130.9	2177.9	2504.7	2798.2	2301.7
62.5°	2741.1	3897.2	4271.3	3501.4	2513.7	2574.9	2596.5	2081.4
65°	2817.8	3987.8	4289.9	3600.4	2470.4	2184.2	2119.8	1673.0
67.5°	2614.3	3824.0	4028.4	3416.0	2185.3	1688.0	1590.8	1213.7
70°	2385.9	3511.8	3572.4	3102.5	1922.0	1241.5	1074.3	778.9
72.5°	2151.8	3095.1	2969.4	2694.3	1689.2	904.0	774.9	553.7
75°	1873.8	2547.3	2338.9	2238.7	1398.6	709.5	560.6	382.1
77.5°	1500.6	1793.0	1737.4	1735.2	1051.0	518.3	374.1	239.5
80°	1058.5	1163.7	1135.3	1306.9	705.1	376.0	225.2	133.4
82.5°	512.5	643.5	660.5	778.3	343.0	221.2	52.0	29.0
85°	200.6	310.4	261.8	295.4	96.4	61.6	1.2	0.0
87.5°	22.5	36.0	33.0	26.0	11.8	2.6	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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