

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: P967322

Luminaire Tested: **NVN-SB4D-827-U-SLL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB4D-827-U-SLL  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

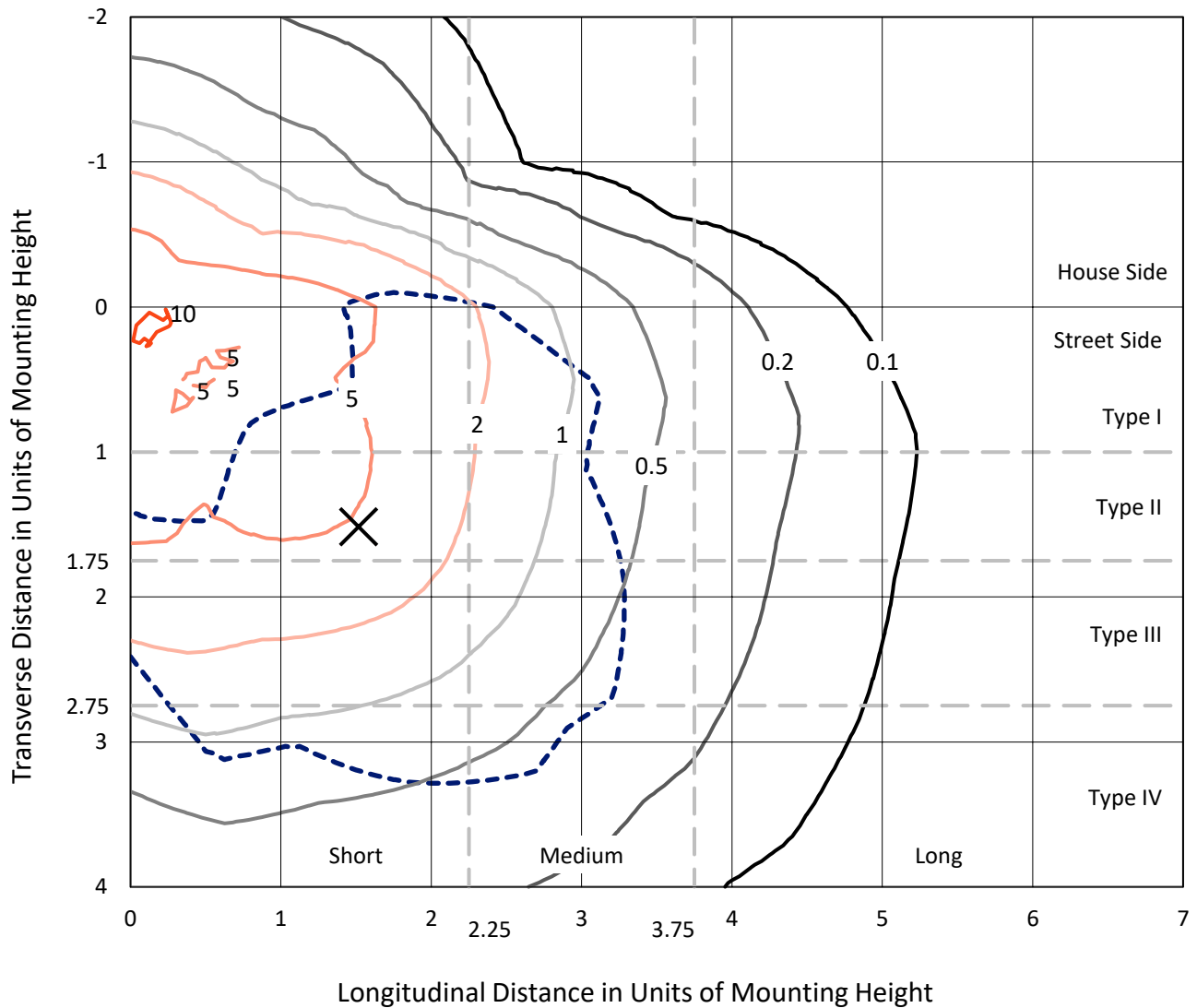
Lumens per Lamp: N/A  
Luminaire Lumens: 36220.4 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

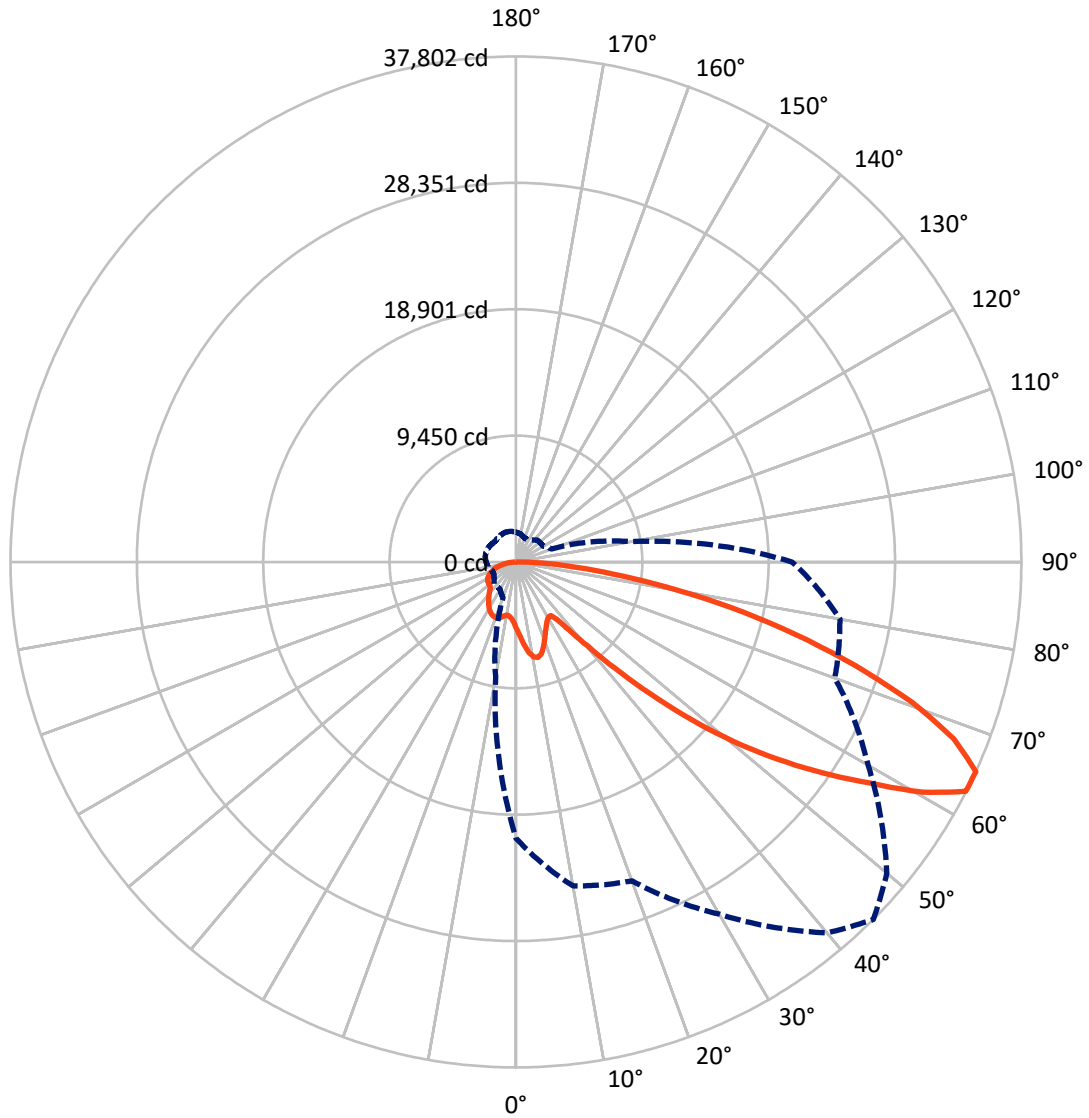
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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
<b>House Side</b>	Lumens	9205.4	0.0	9205.4
	% Fixture	25.4	0.0	25.4
<b>Street Side</b>	Lumens	27015.0	0.0	27015.0
	% Fixture	74.6	0.0	74.6
<b>Total</b>	Lumens	36220.4	0.0	36220.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.1	1.4
10°-20°	1551.0	4.3
20°-30°	2395.8	6.6
30°-40°	3036.0	8.4
40°-50°	4579.1	12.6
50°-60°	7398.2	20.4
60°-70°	9223.0	25.5
70°-80°	6048.0	16.7
80°-90°	1495.2	4.1
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°	36220.4	100.0
0°-180°	36220.4	100.0

**Coefficient of Utilization**



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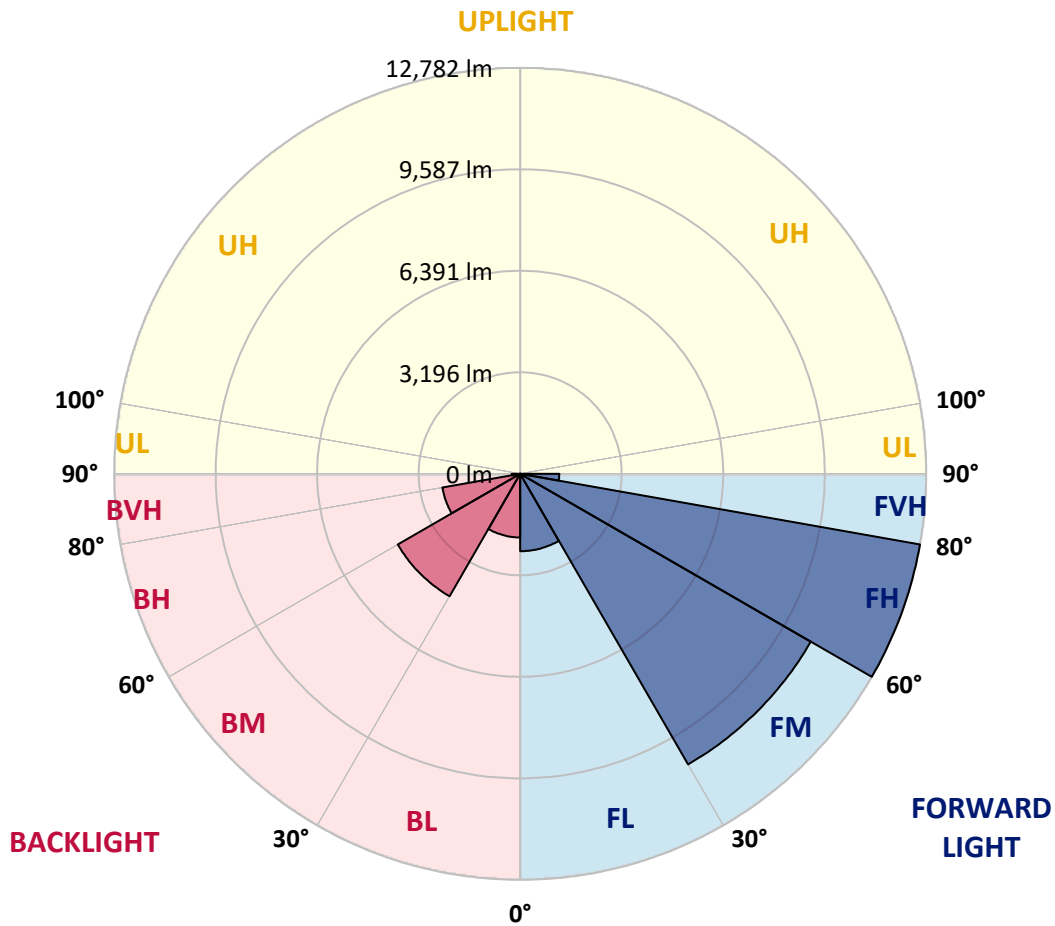
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2436.2	6.7			
FM (30°-60°)	10564.7	29.2			
FH (60°-80°)	12782.3	35.3			G5
FVH (80°-90°)	1231.7	3.4			G5
BL (0°-30°)	2004.6	5.5	B3/2500		
BM (30°-60°)	4448.6	12.3	B3/5000		
BH (60°-80°)	2488.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	263.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6
2.5°	5356.1	5376.4	5396.9	5425.7	5454.6	5471.8	5489.0	5497.6	5506.2	5502.4	5506.2
5°	5759.5	5830.3	5901.4	5971.8	6042.3	6080.5	6118.7	6141.9	6165.2	6182.8	6165.2
7.5°	6164.7	6280.1	6395.3	6499.1	6602.8	6665.4	6727.9	6761.7	6795.3	6811.5	6795.3
10°	6475.2	6611.7	6748.1	6869.9	6991.6	7065.3	7138.7	7171.6	7204.3	7216.7	7204.3
12.5°	6665.4	6813.3	6961.0	7071.1	7180.8	7234.3	7287.9	7305.8	7323.7	7325.7	7323.7
15°	6781.0	6908.6	7036.1	7105.1	7174.3	7176.2	7178.2	7159.0	7139.9	7117.4	7139.9
17.5°	6846.0	6932.2	7018.4	7019.7	7020.8	6943.5	6866.1	6795.1	6724.0	6674.0	6724.0
20°	6917.6	6947.7	6977.8	6887.1	6796.3	6625.4	6454.5	6330.1	6205.7	6129.3	6205.7
22.5°	7000.7	6961.4	6922.0	6733.9	6545.9	6294.6	6043.3	5887.7	5732.1	5647.6	5732.1
25°	7107.8	6983.5	6859.3	6573.8	6288.3	5983.0	5677.8	5514.2	5351.0	5271.2	5351.0
27.5°	7253.0	7031.0	6808.7	6430.4	6052.4	5714.2	5375.8	5214.9	5054.2	4978.7	5054.2
30°	7449.0	7117.7	6786.7	6321.2	5855.6	5503.1	5150.7	5001.5	4852.1	4781.8	4852.1
32.5°	7680.2	7226.7	6773.3	6246.7	5719.9	5388.6	5057.5	4940.3	4822.9	4772.3	4822.9
35°	7961.2	7406.1	6851.3	6302.4	5753.7	5523.6	5293.7	5266.3	5239.0	5234.8	5239.0
37.5°	8434.2	7781.3	7128.5	6629.6	6130.8	6115.9	6101.0	6226.0	6351.0	6416.0	6351.0
40°	9148.9	8438.9	7728.9	7358.0	6987.0	7248.8	7510.7	7814.6	8118.4	8269.8	8118.4
42.5°	10097.0	9392.5	8688.0	8474.3	8260.7	8831.7	9402.7	9955.5	10508.2	10832.7	10508.2
45°	11267.5	10634.8	10001.7	9907.5	9813.1	10728.1	11643.1	12551.3	13459.7	14011.1	13459.7
47.5°	12731.5	12115.9	11500.2	11481.0	11462.0	12781.9	14101.3	15431.0	16760.4	17541.1	16760.4
50°	14650.4	13890.0	13129.6	13132.9	13136.2	14837.1	16538.1	18293.2	20048.3	21109.4	20048.3
52.5°	16853.0	15932.3	15011.6	14918.6	14825.3	16857.0	18888.9	21060.4	23231.7	24503.6	23231.7
55°	19198.1	18288.4	17378.7	17015.7	16652.8	18914.1	21175.3	23764.0	26352.7	27865.4	26352.7
57.5°	21331.1	20835.7	20340.1	19612.1	18884.3	21167.7	23451.0	26383.2	29315.1	31191.0	29315.1
60°	22620.1	23389.6	24159.2	23255.3	22351.3	24512.1	26672.9	29812.2	32951.6	34979.0	32951.6
62.5°	21965.5	24068.1	26170.6	26068.7	25966.7	27946.1	29925.8	32912.6	35899.3	37773.2	35899.3
65°	20655.4	22628.7	24602.0	24992.6	25382.8	27898.3	30414.1	33310.3	36206.4	37801.9	36206.4
67.5°	18900.0	20776.8	22653.6	22836.7	23019.6	25640.7	28261.5	31170.1	34078.8	35328.8	34078.8
70°	16790.9	18832.3	20873.9	20955.7	21037.7	23381.6	25725.3	28228.4	30731.3	31426.1	30731.3
72.5°	14277.7	16620.3	18963.0	19021.9	19080.6	20914.4	22748.2	24623.0	26497.5	26567.8	26497.5
75°	11098.4	13522.9	15947.6	16165.3	16382.9	17809.7	19236.4	20556.1	21875.8	21522.1	21875.8
77.5°	7929.6	10192.9	12456.3	12767.8	13079.4	14164.0	15248.6	16184.5	17120.7	16512.9	17120.7
80°	5189.9	7094.0	8998.0	9385.2	9772.5	10591.5	11410.3	11901.9	12393.3	11415.6	12393.3
82.5°	3016.9	4318.5	5620.5	6053.0	6485.7	7049.5	7613.3	7818.4	8023.3	7255.0	8023.3
85°	1327.4	2018.2	2709.2	3077.0	3444.9	3908.2	4371.3	4487.8	4604.1	3988.7	4604.1
87.5°	410.9	643.1	875.4	1080.6	1285.9	1517.5	1749.2	1759.1	1768.8	1485.0	1768.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6
2.5°	5497.6	5489.0	5471.8	5454.6	5425.7	5396.9	5376.4	5356.1	5315.0	5274.0	5230.3
5°	6141.9	6118.7	6080.5	6042.3	5971.8	5901.4	5830.3	5759.5	5668.7	5577.8	5487.2
7.5°	6761.7	6727.9	6665.4	6602.8	6499.1	6395.3	6280.1	6164.7	6014.8	5865.2	5726.8
10°	7171.6	7138.7	7065.3	6991.6	6869.9	6748.1	6611.7	6475.2	6285.8	6096.4	5913.5
12.5°	7305.8	7287.9	7234.3	7180.8	7071.1	6961.0	6813.3	6665.4	6457.2	6249.3	6042.1
15°	7159.0	7178.2	7176.2	7174.3	7105.1	7036.1	6908.6	6781.0	6564.1	6347.1	6122.4
17.5°	6795.1	6866.1	6943.5	7020.8	7019.7	7018.4	6932.2	6846.0	6626.0	6406.0	6160.8
20°	6330.1	6454.5	6625.4	6796.3	6887.1	6977.8	6947.7	6917.6	6689.0	6460.3	6190.8
22.5°	5887.7	6043.3	6294.6	6545.9	6733.9	6922.0	6961.4	7000.7	6767.3	6533.5	6231.3
25°	5514.2	5677.8	5983.0	6288.3	6573.8	6859.3	6983.5	7107.8	6878.9	6650.1	6304.7
27.5°	5214.9	5375.8	5714.2	6052.4	6430.4	6808.7	7031.0	7253.0	7034.8	6816.4	6419.4
30°	5001.5	5150.7	5503.1	5855.6	6321.2	6786.7	7117.7	7449.0	7237.9	7027.2	6567.9
32.5°	4940.3	5057.5	5388.6	5719.9	6246.7	6773.3	7226.7	7680.2	7471.3	7262.6	6722.9
35°	5266.3	5293.7	5523.6	5753.7	6302.4	6851.3	7406.1	7961.2	7761.2	7561.1	6899.5
37.5°	6226.0	6101.0	6115.9	6130.8	6629.6	7128.5	7781.3	8434.2	8179.2	7924.3	7097.3
40°	7814.6	7510.7	7248.8	6987.0	7358.0	7728.9	8438.9	9148.9	8777.5	8405.9	7348.4
42.5°	9955.5	9402.7	8831.7	8260.7	8474.3	8688.0	9392.5	10097.0	9560.7	9024.4	7676.9
45°	12551.3	11643.1	10728.1	9813.1	9907.5	10001.7	10634.8	11267.5	10544.2	9820.7	8109.3
47.5°	15431.0	14101.3	12781.9	11462.0	11481.0	11500.2	12115.9	12731.5	11713.4	10695.2	8569.9
50°	18293.2	16538.1	14837.1	13136.2	13132.9	13129.6	13890.0	14650.4	13115.5	11580.4	8997.2
52.5°	21060.4	18888.9	16857.0	14825.3	14918.6	15011.6	15932.3	16853.0	14588.3	12323.5	9274.7
55°	23764.0	21175.3	18914.1	16652.8	17015.7	17378.7	18288.4	19198.1	15894.1	12590.1	9213.6
57.5°	26383.2	23451.0	21167.7	18884.3	19612.1	20340.1	20835.7	21331.1	16819.4	12307.8	8783.1
60°	29812.2	26672.9	24512.1	22351.3	23255.3	24159.2	23389.6	22620.1	17050.7	11481.0	7982.2
62.5°	32912.6	29925.8	27946.1	25966.7	26068.7	26170.6	24068.1	21965.5	16076.9	10188.3	6899.1
65°	33310.3	30414.1	27898.3	25382.8	24992.6	24602.0	22628.7	20655.4	14699.1	8742.8	5794.0
67.5°	31170.1	28261.5	25640.7	23019.6	22836.7	22653.6	20776.8	18900.0	13059.5	7219.1	4711.5
70°	28228.4	25725.3	23381.6	21037.7	20955.7	20873.9	18832.3	16790.9	11270.4	5749.8	3709.7
72.5°	24623.0	22748.2	20914.4	19080.6	19021.9	18963.0	16620.3	14277.7	9330.9	4384.3	2836.1
75°	20556.1	19236.4	17809.7	16382.9	16165.3	15947.6	13522.9	11098.4	7107.7	3116.8	2058.4
77.5°	16184.5	15248.6	14164.0	13079.4	12767.8	12456.3	10192.9	7929.6	4974.7	2019.8	1394.8
80°	11901.9	11410.3	10591.5	9772.5	9385.2	8998.0	7094.0	5189.9	3205.1	1220.3	898.6
82.5°	7818.4	7613.3	7049.5	6485.7	6053.0	5620.5	4318.5	3016.9	1855.0	693.4	552.7
85°	4487.8	4371.3	3908.2	3444.9	3077.0	2709.2	2018.2	1327.4	834.5	341.7	295.5
87.5°	1759.1	1749.2	1517.5	1285.9	1080.6	875.4	643.1	410.9	273.3	135.7	122.5
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6
2.5°	5186.6	5142.7	5098.8	5056.7	5014.6	4973.9	4928.6	4891.9	4855.4	4822.4	4789.5
5°	5396.9	5305.7	5214.8	5129.7	5044.6	4964.4	4885.0	4815.9	4746.5	4688.3	4630.4
7.5°	5588.4	5453.6	5318.9	5200.2	5081.5	4972.1	4869.4	4777.2	4685.4	4608.9	4532.4
10°	5730.8	5567.2	5403.4	5263.1	5122.4	4987.3	4877.1	4780.0	4682.8	4606.5	4530.0
12.5°	5834.9	5641.9	5448.9	5290.0	5131.3	4989.2	4886.6	4807.0	4727.9	4677.1	4626.6
15°	5897.6	5675.3	5453.1	5269.2	5085.3	4928.1	4845.9	4807.9	4770.0	4776.9	4783.8
17.5°	5915.6	5657.6	5399.6	5178.4	4957.3	4772.3	4721.7	4735.6	4749.3	4832.7	4916.0
20°	5921.3	5608.6	5296.0	5021.9	4747.8	4532.4	4519.0	4584.0	4649.0	4793.7	4938.6
22.5°	5929.0	5548.6	5168.3	4838.2	4508.2	4263.0	4289.1	4385.3	4481.4	4646.5	4812.1
25°	5959.1	5489.4	5019.8	4633.2	4246.7	3995.3	4066.1	4177.0	4287.8	4436.3	4585.0
27.5°	6022.2	5449.8	4877.5	4445.6	4013.9	3785.1	3871.1	3978.2	4085.2	4207.3	4329.3
30°	6108.6	5431.3	4753.5	4288.9	3824.4	3632.3	3699.7	3784.6	3869.8	3971.2	4072.4
32.5°	6183.1	5408.3	4633.2	4153.8	3674.3	3519.5	3549.5	3599.8	3650.0	3730.9	3811.9
35°	6237.8	5365.2	4492.9	4021.0	3549.2	3420.1	3407.7	3421.4	3435.4	3497.1	3558.7
37.5°	6270.3	5291.2	4312.1	3864.7	3417.2	3304.5	3259.0	3243.7	3228.4	3272.7	3316.9
40°	6290.7	5189.4	4088.1	3678.1	3268.2	3165.9	3096.1	3061.6	3026.9	3058.9	3090.8
42.5°	6329.6	5084.2	3839.2	3472.3	3105.3	3011.1	2923.2	2877.4	2831.5	2857.5	2883.6
45°	6397.7	4986.5	3575.5	3253.7	2931.8	2836.3	2751.2	2706.5	2661.9	2683.8	2705.9
47.5°	6444.6	4905.9	3367.1	3080.6	2794.1	2670.9	2597.8	2560.2	2522.8	2543.4	2563.9
50°	6414.0	4818.0	3221.9	2965.8	2709.7	2547.6	2462.6	2429.4	2396.2	2428.4	2460.7
52.5°	6225.7	4669.5	3113.3	2890.1	2667.0	2480.7	2361.9	2329.0	2296.3	2344.7	2392.9
55°	5836.9	4423.3	3009.8	2835.3	2660.8	2487.5	2308.4	2256.3	2204.6	2273.2	2341.6
57.5°	5258.7	4076.2	2893.6	2770.3	2647.1	2494.1	2276.2	2200.6	2124.9	2198.6	2272.4
60°	4483.3	3625.5	2767.8	2670.9	2574.0	2473.1	2246.1	2148.0	2049.8	2114.6	2179.1
62.5°	3609.9	3086.3	2562.6	2498.1	2434.0	2421.5	2210.9	2088.2	1965.6	2006.7	2047.8
65°	2845.4	2600.9	2356.5	2326.1	2295.8	2297.2	2136.7	2006.4	1875.9	1891.7	1907.4
67.5°	2204.1	2134.7	2065.1	2082.1	2098.9	2094.7	2004.5	1895.9	1787.4	1782.4	1777.5
70°	1669.4	1689.3	1709.0	1787.7	1866.3	1866.3	1836.7	1759.4	1682.2	1665.0	1647.9
72.5°	1287.8	1347.6	1407.6	1519.3	1630.7	1649.3	1649.7	1596.8	1543.9	1518.6	1493.6
75°	1000.0	1054.2	1108.5	1233.5	1358.5	1444.8	1437.7	1396.9	1356.0	1331.9	1307.7
77.5°	769.9	806.7	843.8	965.1	1086.5	1228.9	1225.1	1192.4	1159.7	1135.3	1110.8
80°	577.2	592.4	607.7	710.6	813.2	983.3	982.8	955.4	927.9	907.4	886.8
82.5°	412.5	415.1	418.2	493.8	569.6	714.8	722.8	709.4	696.1	681.5	667.0
85°	249.4	248.0	246.5	302.0	357.4	465.4	475.9	461.6	447.2	431.0	414.7
87.5°	109.4	107.9	106.6	129.1	151.9	196.9	210.2	204.5	198.7	195.7	192.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P967322  
 CATALOG NUMBER: NVN-SB4D-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6
2.5°	4760.6	4731.8	4702.7	4673.9	4651.6	4629.0	4610.8	4592.6	4578.5	4564.3	4551.4
5°	4579.3	4528.0	4481.6	4435.0	4399.2	4363.3	4338.3	4313.2	4295.5	4277.6	4264.1
7.5°	4468.1	4403.4	4346.5	4289.7	4247.1	4204.7	4174.8	4145.0	4124.6	4104.3	4092.1
10°	4460.6	4391.0	4326.9	4263.0	4212.1	4161.1	4127.9	4094.2	4074.9	4055.6	4045.3
12.5°	4572.0	4517.7	4451.4	4385.3	4320.3	4255.3	4212.3	4169.3	4147.8	4126.3	4117.5
15°	4769.6	4755.5	4698.0	4640.4	4547.9	4455.5	4390.1	4324.7	4294.6	4264.8	4253.4
17.5°	4960.4	5004.5	4958.0	4911.8	4789.3	4666.8	4570.5	4474.1	4429.8	4385.3	4370.7
20°	5031.3	5124.0	5102.6	5080.9	4940.9	4801.0	4682.8	4564.9	4508.2	4451.2	4433.0
22.5°	4932.6	5053.2	5066.3	5079.1	4945.2	4811.5	4689.9	4568.2	4508.4	4448.4	4428.3
25°	4703.7	4822.4	4866.7	4910.9	4801.2	4691.6	4583.5	4475.7	4423.7	4371.9	4353.0
27.5°	4424.4	4519.6	4568.9	4618.4	4540.2	4462.3	4378.4	4294.5	4259.7	4224.7	4216.1
30°	4151.4	4230.5	4270.6	4310.7	4251.3	4191.6	4131.7	4071.3	4053.5	4035.5	4035.5
32.5°	3887.6	3963.5	4008.0	4052.7	3998.1	3943.2	3895.2	3847.2	3835.7	3824.0	3825.5
35°	3633.6	3708.8	3762.3	3815.8	3776.7	3738.0	3693.6	3649.4	3631.7	3614.2	3610.3
37.5°	3391.6	3466.6	3532.7	3598.8	3580.8	3562.9	3522.2	3481.3	3449.0	3416.8	3399.8
40°	3163.0	3235.3	3311.4	3387.6	3392.0	3396.2	3361.6	3327.0	3280.0	3233.4	3201.7
42.5°	2952.1	3020.7	3102.9	3185.1	3207.0	3229.0	3199.7	3170.7	3112.4	3054.1	3008.1
45°	2770.9	2835.9	2921.1	3006.3	3037.9	3069.4	3043.0	3016.9	2950.2	2883.6	2829.5
47.5°	2627.5	2691.0	2775.1	2859.1	2895.5	2931.8	2913.5	2895.1	2835.9	2776.6	2726.5
50°	2520.7	2580.5	2655.8	2731.1	2777.7	2824.4	2823.3	2822.4	2775.1	2727.7	2681.4
52.5°	2447.9	2502.7	2572.9	2643.2	2698.4	2753.7	2763.6	2773.5	2734.9	2696.4	2654.9
55°	2400.9	2460.1	2521.7	2583.0	2641.5	2700.2	2713.9	2727.7	2694.0	2660.4	2624.1
57.5°	2342.0	2411.5	2472.3	2533.3	2592.3	2651.3	2665.2	2679.1	2645.1	2611.1	2575.2
60°	2259.1	2338.9	2400.7	2462.6	2521.8	2581.1	2596.4	2611.7	2578.4	2545.4	2508.3
62.5°	2140.9	2234.2	2300.1	2366.1	2420.3	2474.7	2489.3	2504.1	2474.0	2444.0	2405.1
65°	2007.2	2107.1	2170.2	2233.3	2281.0	2328.8	2343.9	2358.8	2329.9	2301.1	2263.3
67.5°	1869.5	1961.8	2021.7	2081.3	2122.6	2163.9	2178.6	2193.1	2166.5	2140.2	2105.0
70°	1728.9	1809.9	1861.5	1913.2	1950.4	1987.7	2001.8	2016.0	1994.3	1972.7	1939.1
72.5°	1557.5	1621.1	1667.7	1714.3	1750.9	1787.4	1804.2	1821.0	1803.1	1785.0	1753.0
75°	1355.0	1402.4	1444.6	1487.0	1520.2	1553.4	1571.0	1588.6	1579.8	1571.0	1544.1
77.5°	1149.4	1187.8	1224.2	1260.4	1295.4	1330.2	1346.6	1363.0	1350.8	1338.2	1311.1
80°	918.9	950.8	981.4	1012.0	1038.5	1065.0	1086.7	1108.5	1103.1	1098.0	1061.5
82.5°	664.3	661.6	651.0	640.2	696.8	753.4	790.5	827.6	825.2	822.8	792.0
85°	401.0	387.0	357.4	327.8	380.7	433.9	479.7	525.6	521.7	517.9	493.8
87.5°	192.1	191.5	168.9	146.2	168.4	190.8	209.3	227.9	223.2	218.2	206.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P967322

CATALOG NUMBER: NVN-SB4D-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6
2.5°	4538.2	4521.9	4538.2	4551.4	4564.3	4578.5	4592.6	4610.8	4629.0	4651.6	4673.9
5°	4250.6	4237.1	4250.6	4264.1	4277.6	4295.5	4313.2	4338.3	4363.3	4399.2	4435.0
7.5°	4080.0	4070.9	4080.0	4092.1	4104.3	4124.6	4145.0	4174.8	4204.7	4247.1	4289.7
10°	4034.9	4030.7	4034.9	4045.3	4055.6	4074.9	4094.2	4127.9	4161.1	4212.1	4263.0
12.5°	4108.7	4107.2	4108.7	4117.5	4126.3	4147.8	4169.3	4212.3	4255.3	4320.3	4385.3
15°	4242.0	4240.9	4242.0	4253.4	4264.8	4294.6	4324.7	4390.1	4455.5	4547.9	4640.4
17.5°	4356.0	4353.8	4356.0	4370.7	4385.3	4429.8	4474.1	4570.5	4666.8	4789.3	4911.8
20°	4414.9	4409.1	4414.9	4433.0	4451.2	4508.2	4564.9	4682.8	4801.0	4940.9	5080.9
22.5°	4408.2	4399.6	4408.2	4428.3	4448.4	4508.4	4568.2	4689.9	4811.5	4945.2	5079.1
25°	4334.2	4323.1	4334.2	4353.0	4371.9	4423.7	4475.7	4583.5	4691.6	4801.2	4910.9
27.5°	4207.5	4204.7	4207.5	4216.1	4224.7	4259.7	4294.5	4378.4	4462.3	4540.2	4618.4
30°	4035.5	4038.4	4035.5	4035.5	4035.5	4053.5	4071.3	4131.7	4191.6	4251.3	4310.7
32.5°	3827.2	3830.1	3827.2	3825.5	3824.0	3835.7	3847.2	3895.2	3943.2	3998.1	4052.7
35°	3606.5	3604.5	3606.5	3610.3	3614.2	3631.7	3649.4	3693.6	3738.0	3776.7	3815.8
37.5°	3382.8	3373.3	3382.8	3399.8	3416.8	3449.0	3481.3	3522.2	3562.9	3580.8	3598.8
40°	3170.3	3151.6	3170.3	3201.7	3233.4	3280.0	3327.0	3361.6	3396.2	3392.0	3387.6
42.5°	2962.0	2931.8	2962.0	3008.1	3054.1	3112.4	3170.7	3199.7	3229.0	3207.0	3185.1
45°	2775.5	2740.6	2775.5	2829.5	2883.6	2950.2	3016.9	3043.0	3069.4	3037.9	3006.3
47.5°	2676.7	2643.2	2676.7	2726.5	2776.6	2835.9	2895.1	2913.5	2931.8	2895.5	2859.1
50°	2635.2	2603.1	2635.2	2681.4	2727.7	2775.1	2822.4	2823.3	2824.4	2777.7	2731.1
52.5°	2613.5	2583.9	2613.5	2654.9	2696.4	2734.9	2773.5	2763.6	2753.7	2698.4	2643.2
55°	2587.8	2561.1	2587.8	2624.1	2660.4	2694.0	2727.7	2713.9	2700.2	2641.5	2583.0
57.5°	2539.0	2511.4	2539.0	2575.2	2611.1	2645.1	2679.1	2665.2	2651.3	2592.3	2533.3
60°	2471.2	2442.6	2471.2	2508.3	2545.4	2578.4	2611.7	2596.4	2581.1	2521.8	2462.6
62.5°	2366.1	2331.7	2366.1	2405.1	2444.0	2474.0	2504.1	2489.3	2474.7	2420.3	2366.1
65°	2225.6	2196.0	2225.6	2263.3	2301.1	2329.9	2358.8	2343.9	2328.8	2281.0	2233.3
67.5°	2069.9	2043.1	2069.9	2105.0	2140.2	2166.5	2193.1	2178.6	2163.9	2122.6	2081.3
70°	1905.5	1874.9	1905.5	1939.1	1972.7	1994.3	2016.0	2001.8	1987.7	1950.4	1913.2
72.5°	1721.1	1691.5	1721.1	1753.0	1785.0	1803.1	1821.0	1804.2	1787.4	1750.9	1714.3
75°	1517.1	1488.8	1517.1	1544.1	1571.0	1579.8	1588.6	1571.0	1553.4	1520.2	1487.0
77.5°	1283.9	1261.4	1283.9	1311.1	1338.2	1350.8	1363.0	1346.6	1330.2	1295.4	1260.4
80°	1024.8	982.4	1024.8	1061.5	1098.0	1103.1	1108.5	1086.7	1065.0	1038.5	1012.0
82.5°	761.1	733.9	761.1	792.0	822.8	825.2	827.6	790.5	753.4	696.8	640.2
85°	469.8	445.4	469.8	493.8	517.9	521.7	525.6	479.7	433.9	380.7	327.8
87.5°	193.4	181.5	193.4	206.0	218.2	223.2	227.9	209.3	190.8	168.4	146.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P967322

CATALOG NUMBER: NVN-SB4D-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6
2.5°	4702.7	4731.8	4760.6	4789.5	4822.4	4855.4	4891.9	4928.6	4973.9	5014.6	5056.7
5°	4481.6	4528.0	4579.3	4630.4	4688.3	4746.5	4815.9	4885.0	4964.4	5044.6	5129.7
7.5°	4346.5	4403.4	4468.1	4532.4	4608.9	4685.4	4777.2	4869.4	4972.1	5081.5	5200.2
10°	4326.9	4391.0	4460.6	4530.0	4606.5	4682.8	4780.0	4877.1	4987.3	5122.4	5263.1
12.5°	4451.4	4517.7	4572.0	4626.6	4677.1	4727.9	4807.0	4886.6	4989.2	5131.3	5290.0
15°	4698.0	4755.5	4769.6	4783.8	4776.9	4770.0	4807.9	4845.9	4928.1	5085.3	5269.2
17.5°	4958.0	5004.5	4960.4	4916.0	4832.7	4749.3	4735.6	4721.7	4772.3	4957.3	5178.4
20°	5102.6	5124.0	5031.3	4938.6	4793.7	4649.0	4584.0	4519.0	4532.4	4747.8	5021.9
22.5°	5066.3	5053.2	4932.6	4812.1	4646.5	4481.4	4385.3	4289.1	4263.0	4508.2	4838.2
25°	4866.7	4822.4	4703.7	4585.0	4436.3	4287.8	4177.0	4066.1	3995.3	4246.7	4633.2
27.5°	4568.9	4519.6	4424.4	4329.3	4207.3	4085.2	3978.2	3871.1	3785.1	4013.9	4445.6
30°	4270.6	4230.5	4151.4	4072.4	3971.2	3869.8	3784.6	3699.7	3632.3	3824.4	4288.9
32.5°	4008.0	3963.5	3887.6	3811.9	3730.9	3650.0	3599.8	3549.5	3519.5	3674.3	4153.8
35°	3762.3	3708.8	3633.6	3558.7	3497.1	3435.4	3421.4	3407.7	3420.1	3549.2	4021.0
37.5°	3532.7	3466.6	3391.6	3316.9	3272.7	3228.4	3243.7	3259.0	3304.5	3417.2	3864.7
40°	3311.4	3235.3	3163.0	3090.8	3058.9	3026.9	3061.6	3096.1	3165.9	3268.2	3678.1
42.5°	3102.9	3020.7	2952.1	2883.6	2857.5	2831.5	2877.4	2923.2	3011.1	3105.3	3472.3
45°	2921.1	2835.9	2770.9	2705.9	2683.8	2661.9	2706.5	2751.2	2836.3	2931.8	3253.7
47.5°	2775.1	2691.0	2627.5	2563.9	2543.4	2522.8	2560.2	2597.8	2670.9	2794.1	3080.6
50°	2655.8	2580.5	2520.7	2460.7	2428.4	2396.2	2429.4	2462.6	2547.6	2709.7	2965.8
52.5°	2572.9	2502.7	2447.9	2392.9	2344.7	2296.3	2329.0	2361.9	2480.7	2667.0	2890.1
55°	2521.7	2460.1	2400.9	2341.6	2273.2	2204.6	2256.3	2308.4	2487.5	2660.8	2835.3
57.5°	2472.3	2411.5	2342.0	2272.4	2198.6	2124.9	2200.6	2276.2	2494.1	2647.1	2770.3
60°	2400.7	2338.9	2259.1	2179.1	2114.6	2049.8	2148.0	2246.1	2473.1	2574.0	2670.9
62.5°	2300.1	2234.2	2140.9	2047.8	2006.7	1965.6	2088.2	2210.9	2421.5	2434.0	2498.1
65°	2170.2	2107.1	2007.2	1907.4	1891.7	1875.9	2006.4	2136.7	2297.2	2295.8	2326.1
67.5°	2021.7	1961.8	1869.5	1777.5	1782.4	1787.4	1895.9	2004.5	2094.7	2098.9	2082.1
70°	1861.5	1809.9	1728.9	1647.9	1665.0	1682.2	1759.4	1836.7	1866.3	1866.3	1787.7
72.5°	1667.7	1621.1	1557.5	1493.6	1518.6	1543.9	1596.8	1649.7	1649.3	1630.7	1519.3
75°	1444.6	1402.4	1355.0	1307.7	1331.9	1356.0	1396.9	1437.7	1444.8	1358.5	1233.5
77.5°	1224.2	1187.8	1149.4	1110.8	1135.3	1159.7	1192.4	1225.1	1228.9	1086.5	965.1
80°	981.4	950.8	918.9	886.8	907.4	927.9	955.4	982.8	983.3	813.2	710.6
82.5°	651.0	661.6	664.3	667.0	681.5	696.1	709.4	722.8	714.8	569.6	493.8
85°	357.4	387.0	401.0	414.7	431.0	447.2	461.6	475.9	465.4	357.4	302.0
87.5°	168.9	191.5	192.1	192.7	195.7	198.7	204.5	210.2	196.9	151.9	129.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P967322

CATALOG NUMBER: NVN-SB4D-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6
2.5°	5098.8	5142.7	5186.6	5230.3	5274.0	5315.0	5356.1
5°	5214.8	5305.7	5396.9	5487.2	5577.8	5668.7	5759.5
7.5°	5318.9	5453.6	5588.4	5726.8	5865.2	6014.8	6164.7
10°	5403.4	5567.2	5730.8	5913.5	6096.4	6285.8	6475.2
12.5°	5448.9	5641.9	5834.9	6042.1	6249.3	6457.2	6665.4
15°	5453.1	5675.3	5897.6	6122.4	6347.1	6564.1	6781.0
17.5°	5399.6	5657.6	5915.6	6160.8	6406.0	6626.0	6846.0
20°	5296.0	5608.6	5921.3	6190.8	6460.3	6689.0	6917.6
22.5°	5168.3	5548.6	5929.0	6231.3	6533.5	6767.3	7000.7
25°	5019.8	5489.4	5959.1	6304.7	6650.1	6878.9	7107.8
27.5°	4877.5	5449.8	6022.2	6419.4	6816.4	7034.8	7253.0
30°	4753.5	5431.3	6108.6	6567.9	7027.2	7237.9	7449.0
32.5°	4633.2	5408.3	6183.1	6722.9	7262.6	7471.3	7680.2
35°	4492.9	5365.2	6237.8	6899.5	7561.1	7761.2	7961.2
37.5°	4312.1	5291.2	6270.3	7097.3	7924.3	8179.2	8434.2
40°	4088.1	5189.4	6290.7	7348.4	8405.9	8777.5	9148.9
42.5°	3839.2	5084.2	6329.6	7676.9	9024.4	9560.7	10097.0
45°	3575.5	4986.5	6397.7	8109.3	9820.7	10544.2	11267.5
47.5°	3367.1	4905.9	6444.6	8569.9	10695.2	11713.4	12731.5
50°	3221.9	4818.0	6414.0	8997.2	11580.4	13115.5	14650.4
52.5°	3113.3	4669.5	6225.7	9274.7	12323.5	14588.3	16853.0
55°	3009.8	4423.3	5836.9	9213.6	12590.1	15894.1	19198.1
57.5°	2893.6	4076.2	5258.7	8783.1	12307.8	16819.4	21331.1
60°	2767.8	3625.5	4483.3	7982.2	11481.0	17050.7	22620.1
62.5°	2562.6	3086.3	3609.9	6899.1	10188.3	16076.9	21965.5
65°	2356.5	2600.9	2845.4	5794.0	8742.8	14699.1	20655.4
67.5°	2065.1	2134.7	2204.1	4711.5	7219.1	13059.5	18900.0
70°	1709.0	1689.3	1669.4	3709.7	5749.8	11270.4	16790.9
72.5°	1407.6	1347.6	1287.8	2836.1	4384.3	9330.9	14277.7
75°	1108.5	1054.2	1000.0	2058.4	3116.8	7107.7	11098.4
77.5°	843.8	806.7	769.9	1394.8	2019.8	4974.7	7929.6
80°	607.7	592.4	577.2	898.6	1220.3	3205.1	5189.9
82.5°	418.2	415.1	412.5	552.7	693.4	1855.0	3016.9
85°	246.5	248.0	249.4	295.5	341.7	834.5	1327.4
87.5°	106.6	107.9	109.4	122.5	135.7	273.3	410.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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