

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: P967105

Luminaire Tested: **NAV-SB4D-722-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967105
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: LUMARK
Catalog Number: NAV-SB4D-722-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34409.3 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

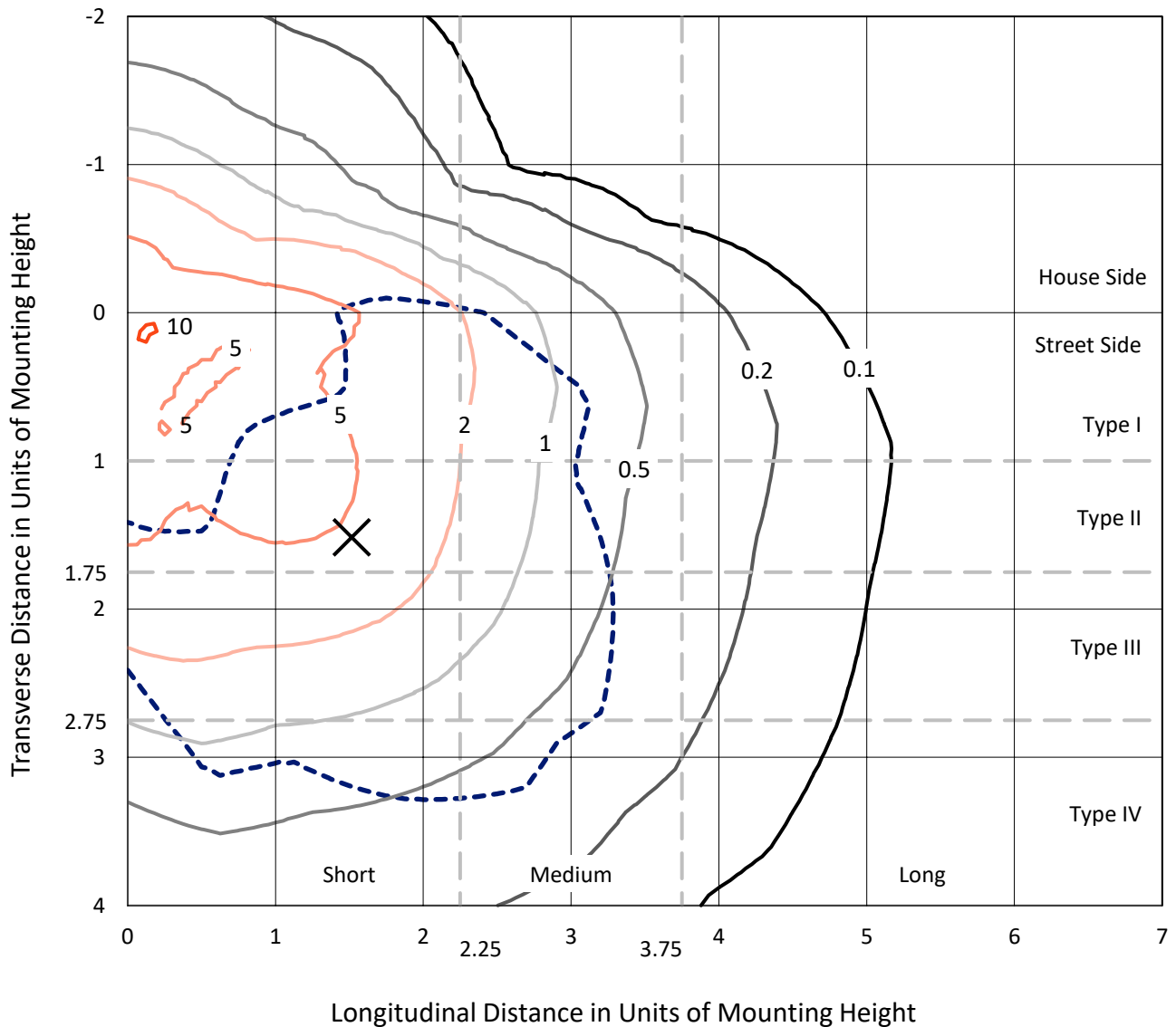
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

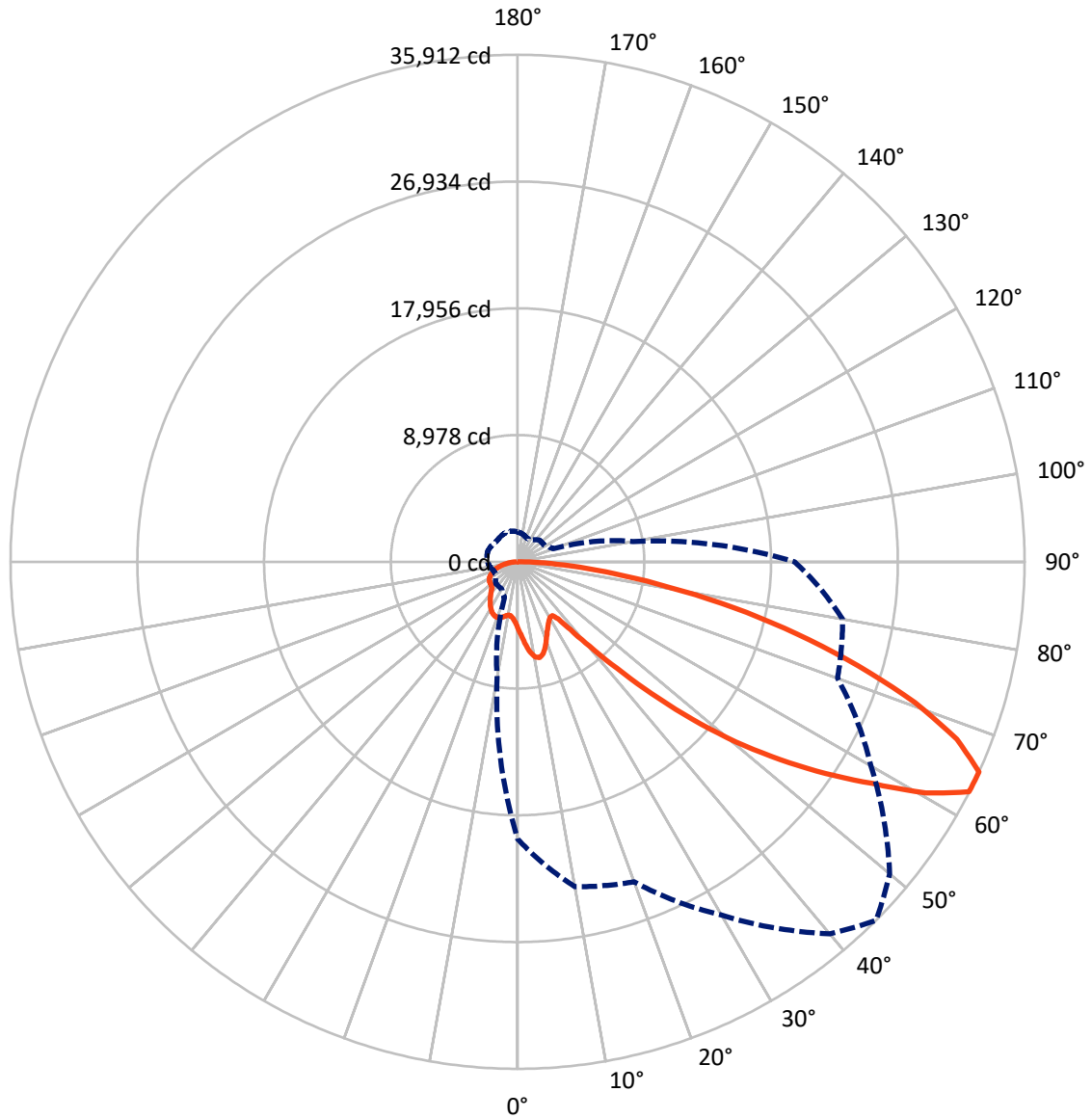
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	8745.1	0.0	8745.1
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	25664.2	0.0	25664.2
	% Fixture	74.6	0.0	74.6
Total	Lumens	34409.3	0.0	34409.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.4	1.4
10°-20°	1473.4	4.3
20°-30°	2276.0	6.6
30°-40°	2884.2	8.4
40°-50°	4350.1	12.6
50°-60°	7028.3	20.4
60°-70°	8761.8	25.5
70°-80°	5745.6	16.7
80°-90°	1420.5	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°	34409.3	100.0
0°-180°	34409.3	100.0

Coefficient of Utilization

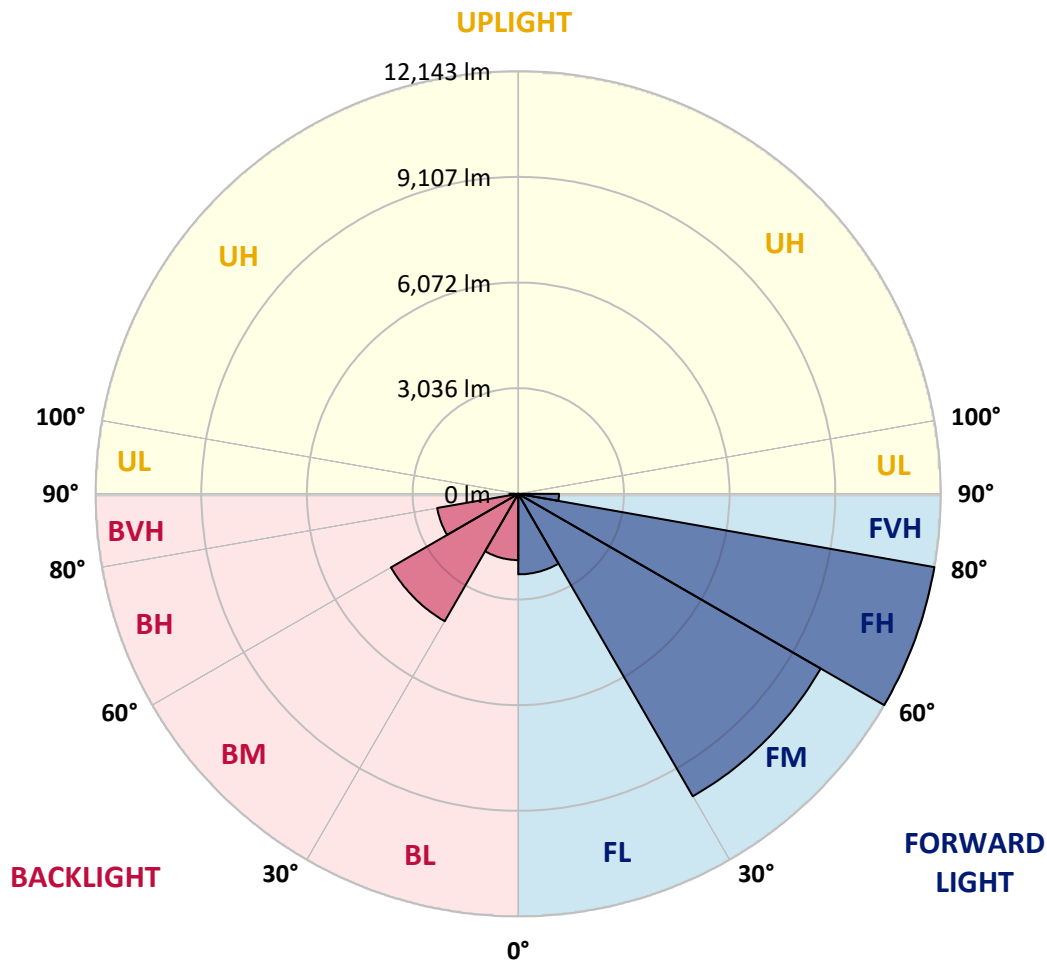


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2314.4	6.7			
FM (30°-60°)	10036.4	29.2			
FH (60°-80°)	12143.2	35.3			G5
FVH (80°-90°)	1170.1	3.4			G5
BL (0°-30°)	1904.4	5.5	B3/2500		
BM (30°-60°)	4226.2	12.3	B3/5000		
BH (60°-80°)	2364.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	250.3	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°	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6
2.5°	5088.3	5107.6	5127.0	5154.4	5181.9	5198.2	5214.5	5222.7	5230.9	5227.2	5230.9
5°	5471.4	5538.8	5606.3	5673.2	5740.2	5776.5	5812.8	5834.7	5857.0	5873.6	5857.0
7.5°	5856.3	5966.0	6075.5	6174.1	6272.7	6332.0	6391.4	6423.6	6455.6	6470.9	6455.6
10°	6151.4	6281.0	6410.7	6526.4	6642.0	6712.1	6781.8	6813.1	6844.0	6855.9	6844.0
12.5°	6332.0	6472.6	6612.9	6717.5	6821.8	6872.6	6923.4	6940.5	6957.6	6959.3	6957.6
15°	6441.9	6563.2	6684.3	6749.8	6815.5	6817.4	6819.2	6801.1	6782.8	6761.4	6782.8
17.5°	6503.6	6585.5	6667.4	6668.6	6669.8	6596.3	6522.7	6455.3	6387.8	6340.2	6387.8
20°	6571.7	6600.2	6628.9	6542.7	6456.5	6294.1	6131.8	6013.6	5895.4	5822.8	5895.4
22.5°	6650.7	6613.3	6575.9	6397.2	6218.6	5979.8	5741.0	5593.3	5445.5	5365.3	5445.5
25°	6752.4	6634.3	6516.3	6245.1	5973.8	5683.8	5394.0	5238.5	5083.5	5007.5	5083.5
27.5°	6890.4	6679.4	6468.3	6108.9	5749.7	5428.4	5107.1	4954.1	4801.5	4729.8	4801.5
30°	7076.5	6761.8	6447.4	6005.1	5562.8	5228.0	4893.1	4751.4	4609.5	4542.7	4609.5
32.5°	7296.2	6865.3	6434.6	5934.2	5433.8	5119.2	4804.6	4693.3	4581.8	4533.7	4581.8
35°	7563.1	7035.8	6508.7	5987.2	5466.0	5247.4	5029.0	5003.0	4977.1	4973.1	4977.1
37.5°	8012.4	7392.2	6772.0	6298.1	5824.3	5810.1	5795.9	5914.7	6033.4	6095.2	6033.4
40°	8691.5	8016.9	7342.5	6990.1	6637.6	6886.4	7135.1	7423.8	7712.5	7856.3	7712.5
42.5°	9592.1	8922.8	8253.5	8050.6	7847.6	8390.1	8932.6	9457.7	9982.8	10291.1	9982.8
45°	10704.2	10103.0	9501.6	9412.2	9322.4	10191.6	11060.9	11923.7	12786.7	13310.4	12786.7
47.5°	12094.9	11510.1	10925.1	10906.9	10888.8	12142.7	13396.1	14659.3	15922.2	16663.9	15922.2
50°	13917.9	13195.3	12473.1	12476.2	12479.3	14095.2	15711.1	17378.5	19045.7	20053.8	19045.7
52.5°	16010.4	15135.6	14260.9	14172.6	14083.9	16014.2	17944.4	20007.3	22070.1	23278.4	22070.1
55°	18238.1	17373.9	16509.7	16164.9	15820.1	17968.4	20116.4	22575.7	25035.0	26472.1	25035.0
57.5°	20264.4	19793.8	19323.0	18631.4	17940.1	20109.2	22278.3	25063.9	27849.2	29631.3	27849.2
60°	21489.0	22220.1	22951.2	22092.4	21233.6	23286.4	25339.1	28321.5	31303.9	33229.9	31303.9
62.5°	20867.2	22864.6	24862.0	24765.2	24668.3	26548.7	28429.4	31266.8	34104.1	35884.4	34104.1
65°	19622.6	21497.2	23371.8	23742.8	24113.5	26503.3	28893.2	31644.7	34395.9	35911.6	34395.9
67.5°	17954.9	19737.9	21520.8	21694.7	21868.5	24358.5	26848.3	29611.5	32374.7	33562.2	32374.7
70°	15951.4	17890.7	19830.1	19907.9	19985.7	22212.4	24439.0	26816.9	29194.7	29854.7	29194.7
72.5°	13563.7	15789.2	18014.8	18070.8	18126.5	19868.6	21610.7	23391.6	25172.5	25239.3	25172.5
75°	10543.5	12846.7	15150.1	15356.9	15563.7	16919.1	18274.4	19528.2	20781.9	20446.0	20781.9
77.5°	7533.1	9683.2	11833.4	12129.4	12425.4	13455.7	14486.1	15375.2	16264.5	15687.2	16264.5
80°	4930.4	6739.3	8548.1	8915.9	9283.7	10061.9	10839.8	11306.8	11773.6	10844.8	11773.6
82.5°	2866.0	4102.7	5339.4	5750.4	6161.4	6697.0	7232.6	7427.5	7622.1	6892.2	7622.1
85°	1261.0	1917.4	2573.7	2923.2	3272.7	3712.9	4152.8	4263.3	4373.9	3789.2	4373.9
87.5°	390.3	611.0	831.6	1026.5	1221.6	1441.7	1661.6	1671.2	1680.4	1410.7	1680.4
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°	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6
2.5°	5222.7	5214.5	5198.2	5181.9	5154.4	5127.0	5107.6	5088.3	5049.4	5010.3	4968.7
5°	5834.7	5812.8	5776.5	5740.2	5673.2	5606.3	5538.8	5471.4	5385.2	5298.9	5212.9
7.5°	6423.6	6391.4	6332.0	6272.7	6174.1	6075.5	5966.0	5856.3	5714.0	5571.8	5440.4
10°	6813.1	6781.8	6712.1	6642.0	6526.4	6410.7	6281.0	6151.4	5971.4	5791.6	5617.8
12.5°	6940.5	6923.4	6872.6	6821.8	6717.5	6612.9	6472.6	6332.0	6134.3	5936.8	5740.0
15°	6801.1	6819.2	6817.4	6815.5	6749.8	6684.3	6563.2	6441.9	6235.8	6029.8	5816.3
17.5°	6455.3	6522.7	6596.3	6669.8	6668.6	6667.4	6585.5	6503.6	6294.6	6085.6	5852.7
20°	6013.6	6131.8	6294.1	6456.5	6542.7	6628.9	6600.2	6571.7	6354.6	6137.3	5881.2
22.5°	5593.3	5741.0	5979.8	6218.6	6397.2	6575.9	6613.3	6650.7	6428.8	6206.8	5919.7
25°	5238.5	5394.0	5683.8	5973.8	6245.1	6516.3	6634.3	6752.4	6534.9	6317.5	5989.5
27.5°	4954.1	5107.1	5428.4	5749.7	6108.9	6468.3	6679.4	6890.4	6683.0	6475.5	6098.3
30°	4751.4	4893.1	5228.0	5562.8	6005.1	6447.4	6761.8	7076.5	6876.0	6675.7	6239.5
32.5°	4693.3	4804.6	5119.2	5433.8	5934.2	6434.6	6865.3	7296.2	7097.7	6899.5	6386.7
35°	5003.0	5029.0	5247.4	5466.0	5987.2	6508.7	7035.8	7563.1	7373.1	7183.1	6554.5
37.5°	5914.7	5795.9	5810.1	5824.3	6298.1	6772.0	7392.2	8012.4	7770.2	7528.0	6742.3
40°	7423.8	7135.1	6886.4	6637.6	6990.1	7342.5	8016.9	8691.5	8338.5	7985.6	6981.0
42.5°	9457.7	8932.6	8390.1	7847.6	8050.6	8253.5	8922.8	9592.1	9082.6	8573.1	7293.1
45°	11923.7	11060.9	10191.6	9322.4	9412.2	9501.6	10103.0	10704.2	10016.9	9329.7	7703.8
47.5°	14659.3	13396.1	12142.7	10888.8	10906.9	10925.1	11510.1	12094.9	11127.7	10160.3	8141.4
50°	17378.5	15711.1	14095.2	12479.3	12476.2	12473.1	13195.3	13917.9	12459.7	11001.3	8547.4
52.5°	20007.3	17944.4	16014.2	14083.9	14172.6	14260.9	15135.6	16010.4	13858.8	11707.2	8811.0
55°	22575.7	20116.4	17968.4	15820.1	16164.9	16509.7	17373.9	18238.1	15099.3	11960.5	8752.9
57.5°	25063.9	22278.3	20109.2	17940.1	18631.4	19323.0	19793.8	20264.4	15978.4	11692.4	8344.0
60°	28321.5	25339.1	23286.4	21233.6	22092.4	22951.2	22220.1	21489.0	16198.1	10906.9	7583.1
62.5°	31266.8	28429.4	26548.7	24668.3	24765.2	24862.0	22864.6	20867.2	15273.0	9678.9	6554.2
65°	31644.7	28893.2	26503.3	24113.5	23742.8	23371.8	21497.2	19622.6	13964.1	8305.7	5504.4
67.5°	29611.5	26848.3	24358.5	21868.5	21694.7	21520.8	19737.9	17954.9	12406.5	6858.1	4476.0
70°	26816.9	24439.0	22212.4	19985.7	19907.9	19830.1	17890.7	15951.4	10706.8	5462.3	3524.2
72.5°	23391.6	21610.7	19868.6	18126.5	18070.8	18014.8	15789.2	13563.7	8864.3	4165.1	2694.2
75°	19528.2	18274.4	16919.1	15563.7	15356.9	15150.1	12846.7	10543.5	6752.2	2960.9	1955.5
77.5°	15375.2	14486.1	13455.7	12425.4	12129.4	11833.4	9683.2	7533.1	4726.0	1918.8	1325.0
80°	11306.8	10839.8	10061.9	9283.7	8915.9	8548.1	6739.3	4930.4	3044.9	1159.3	853.7
82.5°	7427.5	7232.6	6697.0	6161.4	5750.4	5339.4	4102.7	2866.0	1762.3	658.7	525.1
85°	4263.3	4152.8	3712.9	3272.7	2923.2	2573.7	1917.4	1261.0	792.7	324.6	280.7
87.5°	1671.2	1661.6	1441.7	1221.6	1026.5	831.6	611.0	390.3	259.6	128.9	116.3
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°	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6
2.5°	4927.3	4885.6	4843.7	4803.9	4763.9	4725.2	4682.2	4647.3	4612.6	4581.2	4550.0
5°	5127.0	5040.4	4954.0	4873.2	4792.4	4716.1	4640.8	4575.1	4509.2	4453.9	4399.0
7.5°	5309.0	5181.0	5052.9	4940.2	4827.4	4723.4	4625.9	4538.4	4451.1	4378.4	4305.8
10°	5444.2	5288.8	5133.2	5000.0	4866.3	4738.0	4633.2	4541.0	4448.7	4376.0	4303.5
12.5°	5543.2	5359.8	5176.4	5025.5	4874.6	4739.7	4642.2	4566.7	4491.5	4443.3	4395.3
15°	5602.8	5391.6	5180.3	5005.7	4831.0	4681.7	4603.6	4567.4	4531.5	4538.0	4544.5
17.5°	5619.8	5374.7	5129.5	4919.5	4709.5	4533.7	4485.5	4498.8	4511.8	4591.1	4670.2
20°	5625.2	5328.2	5031.1	4770.8	4510.4	4305.8	4293.1	4354.8	4416.5	4554.0	4691.6
22.5°	5632.5	5271.2	4909.9	4596.3	4282.8	4049.8	4074.7	4166.0	4257.3	4414.2	4571.4
25°	5661.2	5214.9	4768.8	4401.5	4034.4	3795.6	3862.8	3968.1	4073.3	4214.5	4355.7
27.5°	5721.1	5177.3	4633.5	4223.4	3813.2	3595.9	3677.6	3779.3	3881.0	3997.0	4112.8
30°	5803.1	5159.7	4515.8	4074.5	3633.1	3450.7	3514.7	3595.3	3676.3	3772.5	3868.8
32.5°	5874.0	5137.9	4401.5	3946.1	3490.5	3343.6	3372.0	3419.8	3467.5	3544.3	3621.3
35°	5925.9	5096.9	4268.2	3820.0	3371.6	3249.0	3237.3	3250.4	3263.6	3322.2	3380.8
37.5°	5956.8	5026.6	4096.4	3671.4	3246.4	3139.3	3096.0	3081.6	3067.0	3109.1	3151.1
40°	5976.2	4929.8	3883.6	3494.2	3104.7	3007.7	2941.3	2908.4	2875.6	2906.0	2936.2
42.5°	6013.1	4830.0	3647.3	3298.7	2950.1	2860.6	2777.0	2733.5	2689.9	2714.6	2739.4
45°	6077.8	4737.2	3396.7	3091.0	2785.2	2694.4	2613.6	2571.1	2528.9	2549.5	2570.6
47.5°	6122.3	4660.6	3198.8	2926.7	2654.4	2537.4	2467.8	2432.2	2396.7	2416.2	2435.7
50°	6093.3	4577.0	3060.9	2817.5	2574.2	2420.2	2339.5	2307.9	2276.4	2307.0	2337.6
52.5°	5914.5	4436.0	2957.6	2745.7	2533.7	2356.7	2243.7	2212.6	2181.5	2227.4	2273.1
55°	5544.9	4202.1	2859.2	2693.5	2527.8	2363.0	2192.9	2143.6	2094.4	2159.6	2224.6
57.5°	4995.7	3872.4	2748.8	2631.8	2514.6	2369.4	2162.4	2090.5	2018.6	2088.7	2158.8
60°	4259.2	3444.3	2629.4	2537.4	2445.3	2349.4	2133.7	2040.6	1947.3	2008.8	2070.2
62.5°	3429.3	2931.9	2434.4	2373.2	2312.2	2300.4	2100.3	1983.8	1867.3	1906.4	1945.4
65°	2703.1	2470.9	2238.7	2209.8	2181.0	2182.4	2029.9	1906.1	1782.1	1797.1	1812.0
67.5°	2093.8	2027.9	1961.8	1977.9	1993.9	1989.9	1904.2	1801.1	1698.0	1693.3	1688.6
70°	1586.0	1604.8	1623.6	1698.3	1772.9	1772.9	1744.9	1671.5	1598.2	1581.8	1565.5
72.5°	1223.3	1280.2	1337.2	1443.3	1549.1	1566.9	1567.2	1517.0	1466.7	1442.7	1418.9
75°	950.0	1001.5	1053.1	1171.8	1290.6	1372.6	1365.7	1327.1	1288.2	1265.4	1242.3
77.5°	731.3	766.4	801.7	916.9	1032.2	1167.5	1163.8	1132.8	1101.8	1078.5	1055.2
80°	548.4	562.8	577.4	675.1	772.5	934.2	933.6	907.6	881.5	862.0	842.4
82.5°	391.9	394.3	397.3	469.1	541.1	679.1	686.6	673.9	661.2	647.5	633.7
85°	237.0	235.6	234.2	286.9	339.5	442.1	452.1	438.5	424.9	409.4	394.0
87.5°	103.8	102.6	101.3	122.7	144.3	187.1	199.7	194.2	188.8	185.9	183.1
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: P967105
 CATALOG NUMBER: NAV-SB4D-722-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6
2.5°	4522.6	4495.1	4467.6	4440.2	4418.9	4397.5	4380.2	4363.0	4349.6	4336.2	4323.8
5°	4350.3	4301.6	4257.5	4213.2	4179.2	4145.1	4121.3	4097.5	4080.6	4063.8	4050.9
7.5°	4244.6	4183.2	4129.1	4075.2	4034.7	3994.4	3966.1	3937.7	3918.4	3899.1	3887.5
10°	4237.6	4171.4	4110.7	4049.8	4001.5	3953.0	3921.4	3889.5	3871.1	3852.8	3843.0
12.5°	4343.3	4291.8	4228.8	4166.0	4104.3	4042.5	4001.7	3960.8	3940.3	3920.0	3911.6
15°	4531.1	4517.7	4463.1	4408.4	4320.5	4232.6	4170.5	4108.4	4079.9	4051.6	4040.8
17.5°	4712.3	4754.3	4710.2	4666.2	4549.9	4433.4	4341.9	4250.5	4208.3	4166.0	4152.2
20°	4779.7	4867.7	4847.4	4826.9	4693.8	4560.9	4448.7	4336.7	4282.8	4228.6	4211.4
22.5°	4686.0	4800.6	4812.9	4825.1	4698.0	4570.9	4455.4	4339.7	4283.0	4225.9	4206.8
25°	4468.5	4581.2	4623.4	4665.3	4561.0	4457.0	4354.3	4251.9	4202.5	4153.3	4135.3
27.5°	4203.2	4293.6	4340.5	4387.5	4313.2	4239.2	4159.4	4079.7	4046.7	4013.5	4005.3
30°	3943.8	4018.9	4057.1	4095.2	4038.7	3982.0	3925.0	3867.7	3850.8	3833.7	3833.7
32.5°	3693.2	3765.2	3807.6	3850.1	3798.1	3746.1	3700.5	3654.8	3643.8	3632.7	3634.2
35°	3451.9	3523.2	3574.1	3624.9	3587.9	3551.0	3508.9	3467.0	3450.0	3433.3	3429.8
37.5°	3222.1	3293.2	3356.1	3418.9	3401.8	3384.8	3346.0	3307.2	3276.5	3246.0	3229.9
40°	3004.9	3073.6	3145.8	3218.2	3222.4	3226.4	3193.5	3160.7	3116.0	3071.7	3041.6
42.5°	2804.4	2869.6	2947.7	3025.8	3046.6	3067.5	3039.7	3012.2	2956.8	2901.4	2857.6
45°	2632.3	2694.0	2775.0	2856.0	2886.0	2915.9	2890.9	2866.0	2802.7	2739.4	2688.1
47.5°	2496.2	2556.5	2636.3	2716.2	2750.7	2785.2	2767.8	2750.4	2694.0	2637.7	2590.2
50°	2394.6	2451.5	2523.0	2594.6	2638.9	2683.1	2682.1	2681.3	2636.3	2591.3	2547.3
52.5°	2325.5	2377.6	2444.2	2511.0	2563.5	2616.0	2625.4	2634.9	2598.2	2561.5	2522.1
55°	2280.8	2337.1	2395.5	2453.8	2509.4	2565.2	2578.2	2591.3	2559.3	2527.3	2492.9
57.5°	2224.9	2291.0	2348.7	2406.6	2462.8	2518.6	2532.0	2545.2	2512.9	2480.5	2446.4
60°	2146.0	2222.0	2280.6	2339.5	2395.7	2452.0	2466.6	2481.1	2449.4	2418.1	2382.8
62.5°	2033.9	2122.5	2185.1	2247.7	2299.4	2350.9	2364.9	2378.8	2350.3	2321.8	2284.8
65°	1906.8	2001.7	2061.7	2121.5	2167.0	2212.4	2226.7	2240.9	2213.5	2186.0	2150.0
67.5°	1776.0	1863.8	1920.5	1977.2	2016.5	2055.6	2069.7	2083.4	2058.2	2033.2	1999.8
70°	1642.5	1719.4	1768.4	1817.4	1852.9	1888.3	1901.7	1915.1	1894.6	1874.1	1842.1
72.5°	1479.6	1540.1	1584.3	1628.6	1663.3	1698.0	1714.0	1730.0	1712.9	1695.9	1665.3
75°	1287.3	1332.3	1372.5	1412.6	1444.1	1475.8	1492.5	1509.2	1500.8	1492.5	1466.9
77.5°	1091.9	1128.4	1163.0	1197.4	1230.6	1263.7	1279.3	1294.9	1283.3	1271.3	1245.6
80°	873.0	903.3	932.3	961.3	986.7	1011.7	1032.4	1053.1	1048.0	1043.0	1008.4
82.5°	631.1	628.5	618.4	608.2	661.9	715.8	750.9	786.2	784.0	781.7	752.5
85°	380.9	367.7	339.5	311.4	361.7	412.2	455.7	499.3	495.7	492.0	469.1
87.5°	182.4	181.9	160.5	138.9	160.0	181.2	198.8	216.4	212.1	207.4	195.8
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: P967105
 CATALOG NUMBER: NAV-SB4D-722-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6
2.5°	4311.3	4295.8	4311.3	4323.8	4336.2	4349.6	4363.0	4380.2	4397.5	4418.9	4440.2
5°	4038.0	4025.3	4038.0	4050.9	4063.8	4080.6	4097.5	4121.3	4145.1	4179.2	4213.2
7.5°	3876.0	3867.3	3876.0	3887.5	3899.1	3918.4	3937.7	3966.1	3994.4	4034.7	4075.2
10°	3833.2	3829.2	3833.2	3843.0	3852.8	3871.1	3889.5	3921.4	3953.0	4001.5	4049.8
12.5°	3903.3	3901.9	3903.3	3911.6	3920.0	3940.3	3960.8	4001.7	4042.5	4104.3	4166.0
15°	4029.8	4028.9	4029.8	4040.8	4051.6	4079.9	4108.4	4170.5	4232.6	4320.5	4408.4
17.5°	4138.2	4136.1	4138.2	4152.2	4166.0	4208.3	4250.5	4341.9	4433.4	4549.9	4666.2
20°	4194.1	4188.7	4194.1	4211.4	4228.6	4282.8	4336.7	4448.7	4560.9	4693.8	4826.9
22.5°	4187.7	4179.6	4187.7	4206.8	4225.9	4283.0	4339.7	4455.4	4570.9	4698.0	4825.1
25°	4117.5	4107.0	4117.5	4135.3	4153.3	4202.5	4251.9	4354.3	4457.0	4561.0	4665.3
27.5°	3997.1	3994.4	3997.1	4005.3	4013.5	4046.7	4079.7	4159.4	4239.2	4313.2	4387.5
30°	3833.7	3836.5	3833.7	3833.7	3833.7	3850.8	3867.7	3925.0	3982.0	4038.7	4095.2
32.5°	3635.8	3638.5	3635.8	3634.2	3632.7	3643.8	3654.8	3700.5	3746.1	3798.1	3850.1
35°	3426.2	3424.3	3426.2	3429.8	3433.3	3450.0	3467.0	3508.9	3551.0	3587.9	3624.9
37.5°	3213.7	3204.7	3213.7	3229.9	3246.0	3276.5	3307.2	3346.0	3384.8	3401.8	3418.9
40°	3011.8	2994.0	3011.8	3041.6	3071.7	3116.0	3160.7	3193.5	3226.4	3222.4	3218.2
42.5°	2813.9	2785.2	2813.9	2857.6	2901.4	2956.8	3012.2	3039.7	3067.5	3046.6	3025.8
45°	2636.7	2603.6	2636.7	2688.1	2739.4	2802.7	2866.0	2890.9	2915.9	2886.0	2856.0
47.5°	2542.8	2511.0	2542.8	2590.2	2637.7	2694.0	2750.4	2767.8	2785.2	2750.7	2716.2
50°	2503.5	2472.9	2503.5	2547.3	2591.3	2636.3	2681.3	2682.1	2683.1	2638.9	2594.6
52.5°	2482.9	2454.8	2482.9	2522.1	2561.5	2598.2	2634.9	2625.4	2616.0	2563.5	2511.0
55°	2458.4	2432.9	2458.4	2492.9	2527.3	2559.3	2591.3	2578.2	2565.2	2509.4	2453.8
57.5°	2412.1	2385.8	2412.1	2446.4	2480.5	2512.9	2545.2	2532.0	2518.6	2462.8	2406.6
60°	2347.7	2320.4	2347.7	2382.8	2418.1	2449.4	2481.1	2466.6	2452.0	2395.7	2339.5
62.5°	2247.7	2215.1	2247.7	2284.8	2321.8	2350.3	2378.8	2364.9	2350.9	2299.4	2247.7
65°	2114.3	2086.2	2114.3	2150.0	2186.0	2213.5	2240.9	2226.7	2212.4	2167.0	2121.5
67.5°	1966.4	1940.9	1966.4	1999.8	2033.2	2058.2	2083.4	2069.7	2055.6	2016.5	1977.2
70°	1810.2	1781.1	1810.2	1842.1	1874.1	1894.6	1915.1	1901.7	1888.3	1852.9	1817.4
72.5°	1635.0	1606.9	1635.0	1665.3	1695.9	1712.9	1730.0	1714.0	1698.0	1663.3	1628.6
75°	1441.3	1414.4	1441.3	1466.9	1492.5	1500.8	1509.2	1492.5	1475.8	1444.1	1412.6
77.5°	1219.8	1198.3	1219.8	1245.6	1271.3	1283.3	1294.9	1279.3	1263.7	1230.6	1197.4
80°	973.5	933.3	973.5	1008.4	1043.0	1048.0	1053.1	1032.4	1011.7	986.7	961.3
82.5°	723.0	697.2	723.0	752.5	781.7	784.0	786.2	750.9	715.8	661.9	608.2
85°	446.3	423.0	446.3	469.1	492.0	495.7	499.3	455.7	412.2	361.7	311.4
87.5°	183.8	172.5	183.8	195.8	207.4	212.1	216.4	198.8	181.2	160.0	138.9
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: P967105
 CATALOG NUMBER: NAV-SB4D-722-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6
2.5°	4467.6	4495.1	4522.6	4550.0	4581.2	4612.6	4647.3	4682.2	4725.2	4763.9	4803.9
5°	4257.5	4301.6	4350.3	4399.0	4453.9	4509.2	4575.1	4640.8	4716.1	4792.4	4873.2
7.5°	4129.1	4183.2	4244.6	4305.8	4378.4	4451.1	4538.4	4625.9	4723.4	4827.4	4940.2
10°	4110.7	4171.4	4237.6	4303.5	4376.0	4448.7	4541.0	4633.2	4738.0	4866.3	5000.0
12.5°	4228.8	4291.8	4343.3	4395.3	4443.3	4491.5	4566.7	4642.2	4739.7	4874.6	5025.5
15°	4463.1	4517.7	4531.1	4544.5	4538.0	4531.5	4567.4	4603.6	4681.7	4831.0	5005.7
17.5°	4710.2	4754.3	4712.3	4670.2	4591.1	4511.8	4498.8	4485.5	4533.7	4709.5	4919.5
20°	4847.4	4867.7	4779.7	4691.6	4554.0	4416.5	4354.8	4293.1	4305.8	4510.4	4770.8
22.5°	4812.9	4800.6	4686.0	4571.4	4414.2	4257.3	4166.0	4074.7	4049.8	4282.8	4596.3
25°	4623.4	4581.2	4468.5	4355.7	4214.5	4073.3	3968.1	3862.8	3795.6	4034.4	4401.5
27.5°	4340.5	4293.6	4203.2	4112.8	3997.0	3881.0	3779.3	3677.6	3595.9	3813.2	4223.4
30°	4057.1	4018.9	3943.8	3868.8	3772.5	3676.3	3595.3	3514.7	3450.7	3633.1	4074.5
32.5°	3807.6	3765.2	3693.2	3621.3	3544.3	3467.5	3419.8	3372.0	3343.6	3490.5	3946.1
35°	3574.1	3523.2	3451.9	3380.8	3322.2	3263.6	3250.4	3237.3	3249.0	3371.6	3820.0
37.5°	3356.1	3293.2	3222.1	3151.1	3109.1	3067.0	3081.6	3096.0	3139.3	3246.4	3671.4
40°	3145.8	3073.6	3004.9	2936.2	2906.0	2875.6	2908.4	2941.3	3007.7	3104.7	3494.2
42.5°	2947.7	2869.6	2804.4	2739.4	2714.6	2689.9	2733.5	2777.0	2860.6	2950.1	3298.7
45°	2775.0	2694.0	2632.3	2570.6	2549.5	2528.9	2571.1	2613.6	2694.4	2785.2	3091.0
47.5°	2636.3	2556.5	2496.2	2435.7	2416.2	2396.7	2432.2	2467.8	2537.4	2654.4	2926.7
50°	2523.0	2451.5	2394.6	2337.6	2307.0	2276.4	2307.9	2339.5	2420.2	2574.2	2817.5
52.5°	2444.2	2377.6	2325.5	2273.1	2227.4	2181.5	2212.6	2243.7	2356.7	2533.7	2745.7
55°	2395.5	2337.1	2280.8	2224.6	2159.6	2094.4	2143.6	2192.9	2363.0	2527.8	2693.5
57.5°	2348.7	2291.0	2224.9	2158.8	2088.7	2018.6	2090.5	2162.4	2369.4	2514.6	2631.8
60°	2280.6	2222.0	2146.0	2070.2	2008.8	1947.3	2040.6	2133.7	2349.4	2445.3	2537.4
62.5°	2185.1	2122.5	2033.9	1945.4	1906.4	1867.3	1983.8	2100.3	2300.4	2312.2	2373.2
65°	2061.7	2001.7	1906.8	1812.0	1797.1	1782.1	1906.1	2029.9	2182.4	2181.0	2209.8
67.5°	1920.5	1863.8	1776.0	1688.6	1693.3	1698.0	1801.1	1904.2	1989.9	1993.9	1977.9
70°	1768.4	1719.4	1642.5	1565.5	1581.8	1598.2	1671.5	1744.9	1772.9	1772.9	1698.3
72.5°	1584.3	1540.1	1479.6	1418.9	1442.7	1466.7	1517.0	1567.2	1566.9	1549.1	1443.3
75°	1372.5	1332.3	1287.3	1242.3	1265.4	1288.2	1327.1	1365.7	1372.6	1290.6	1171.8
77.5°	1163.0	1128.4	1091.9	1055.2	1078.5	1101.8	1132.8	1163.8	1167.5	1032.2	916.9
80°	932.3	903.3	873.0	842.4	862.0	881.5	907.6	933.6	934.2	772.5	675.1
82.5°	618.4	628.5	631.1	633.7	647.5	661.2	673.9	686.6	679.1	541.1	469.1
85°	339.5	367.7	380.9	394.0	409.4	424.9	438.5	452.1	442.1	339.5	286.9
87.5°	160.5	181.9	182.4	183.1	185.9	188.8	194.2	199.7	187.1	144.3	122.7
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: P967105
 CATALOG NUMBER: NAV-SB4D-722-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6	4731.6
2.5°	4843.7	4885.6	4927.3	4968.7	5010.3	5049.4	5088.3
5°	4954.0	5040.4	5127.0	5212.9	5298.9	5385.2	5471.4
7.5°	5052.9	5181.0	5309.0	5440.4	5571.8	5714.0	5856.3
10°	5133.2	5288.8	5444.2	5617.8	5791.6	5971.4	6151.4
12.5°	5176.4	5359.8	5543.2	5740.0	5936.8	6134.3	6332.0
15°	5180.3	5391.6	5602.8	5816.3	6029.8	6235.8	6441.9
17.5°	5129.5	5374.7	5619.8	5852.7	6085.6	6294.6	6503.6
20°	5031.1	5328.2	5625.2	5881.2	6137.3	6354.6	6571.7
22.5°	4909.9	5271.2	5632.5	5919.7	6206.8	6428.8	6650.7
25°	4768.8	5214.9	5661.2	5989.5	6317.5	6534.9	6752.4
27.5°	4633.5	5177.3	5721.1	6098.3	6475.5	6683.0	6890.4
30°	4515.8	5159.7	5803.1	6239.5	6675.7	6876.0	7076.5
32.5°	4401.5	5137.9	5874.0	6386.7	6899.5	7097.7	7296.2
35°	4268.2	5096.9	5925.9	6554.5	7183.1	7373.1	7563.1
37.5°	4096.4	5026.6	5956.8	6742.3	7528.0	7770.2	8012.4
40°	3883.6	4929.8	5976.2	6981.0	7985.6	8338.5	8691.5
42.5°	3647.3	4830.0	6013.1	7293.1	8573.1	9082.6	9592.1
45°	3396.7	4737.2	6077.8	7703.8	9329.7	10016.9	10704.2
47.5°	3198.8	4660.6	6122.3	8141.4	10160.3	11127.7	12094.9
50°	3060.9	4577.0	6093.3	8547.4	11001.3	12459.7	13917.9
52.5°	2957.6	4436.0	5914.5	8811.0	11707.2	13858.8	16010.4
55°	2859.2	4202.1	5544.9	8752.9	11960.5	15099.3	18238.1
57.5°	2748.8	3872.4	4995.7	8344.0	11692.4	15978.4	20264.4
60°	2629.4	3444.3	4259.2	7583.1	10906.9	16198.1	21489.0
62.5°	2434.4	2931.9	3429.3	6554.2	9678.9	15273.0	20867.2
65°	2238.7	2470.9	2703.1	5504.4	8305.7	13964.1	19622.6
67.5°	1961.8	2027.9	2093.8	4476.0	6858.1	12406.5	17954.9
70°	1623.6	1604.8	1586.0	3524.2	5462.3	10706.8	15951.4
72.5°	1337.2	1280.2	1223.3	2694.2	4165.1	8864.3	13563.7
75°	1053.1	1001.5	950.0	1955.5	2960.9	6752.2	10543.5
77.5°	801.7	766.4	731.3	1325.0	1918.8	4726.0	7533.1
80°	577.4	562.8	548.4	853.7	1159.3	3044.9	4930.4
82.5°	397.3	394.3	391.9	525.1	658.7	1762.3	2866.0
85°	234.2	235.6	237.0	280.7	324.6	792.7	1261.0
87.5°	101.3	102.6	103.8	116.3	128.9	259.6	390.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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