

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: McGRAW-EDISON

Report Number: P956432

Luminaire Tested: **GALN-SB9A-830-U-SLL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956432  
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: McGRAW-EDISON  
Catalog Number: GALN-SB9A-830-U-SLL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

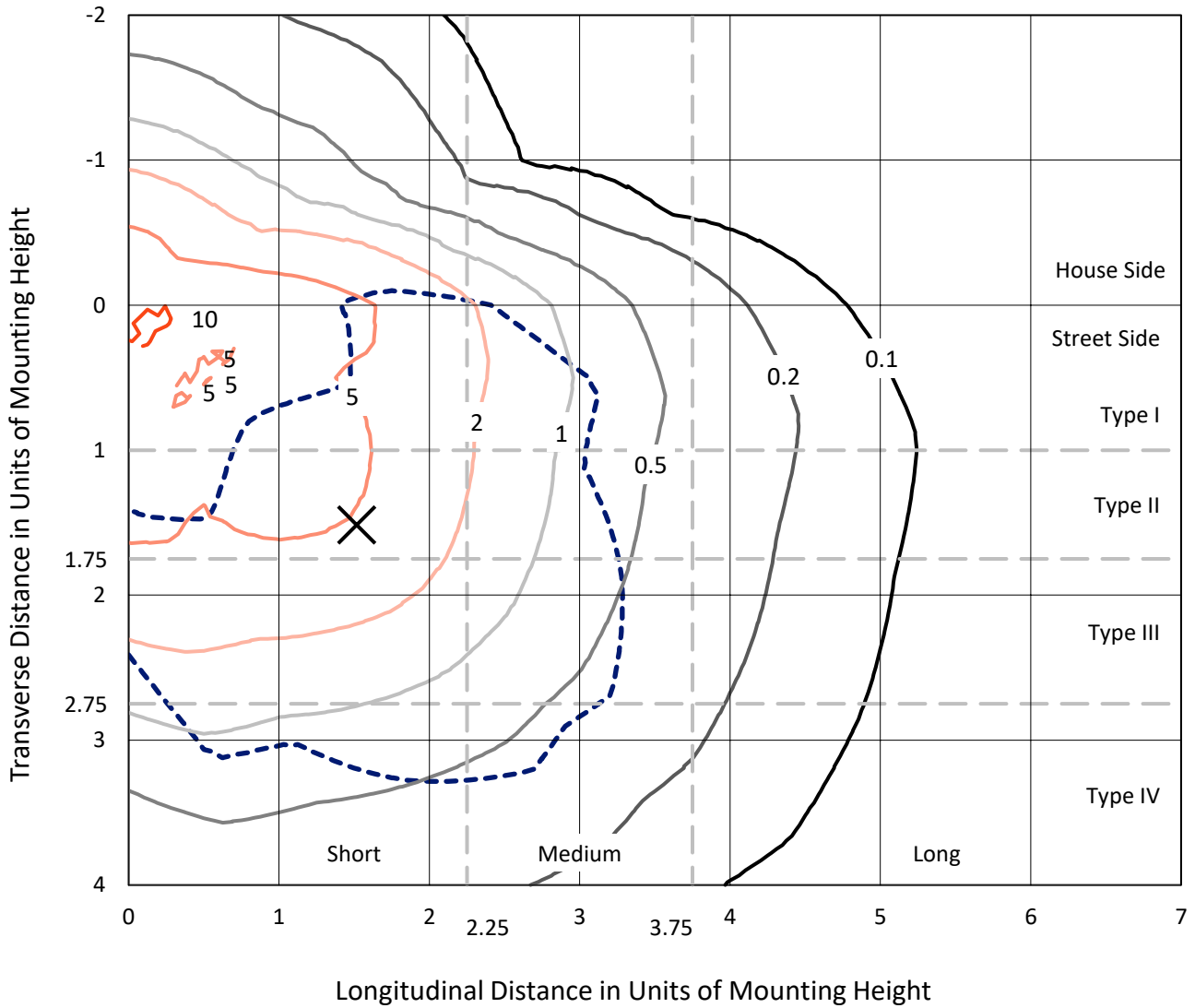
Lumens per Lamp: N/A  
Luminaire Lumens: 36581 lumens  
Efficiency: N/A  
Efficacy: 143.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

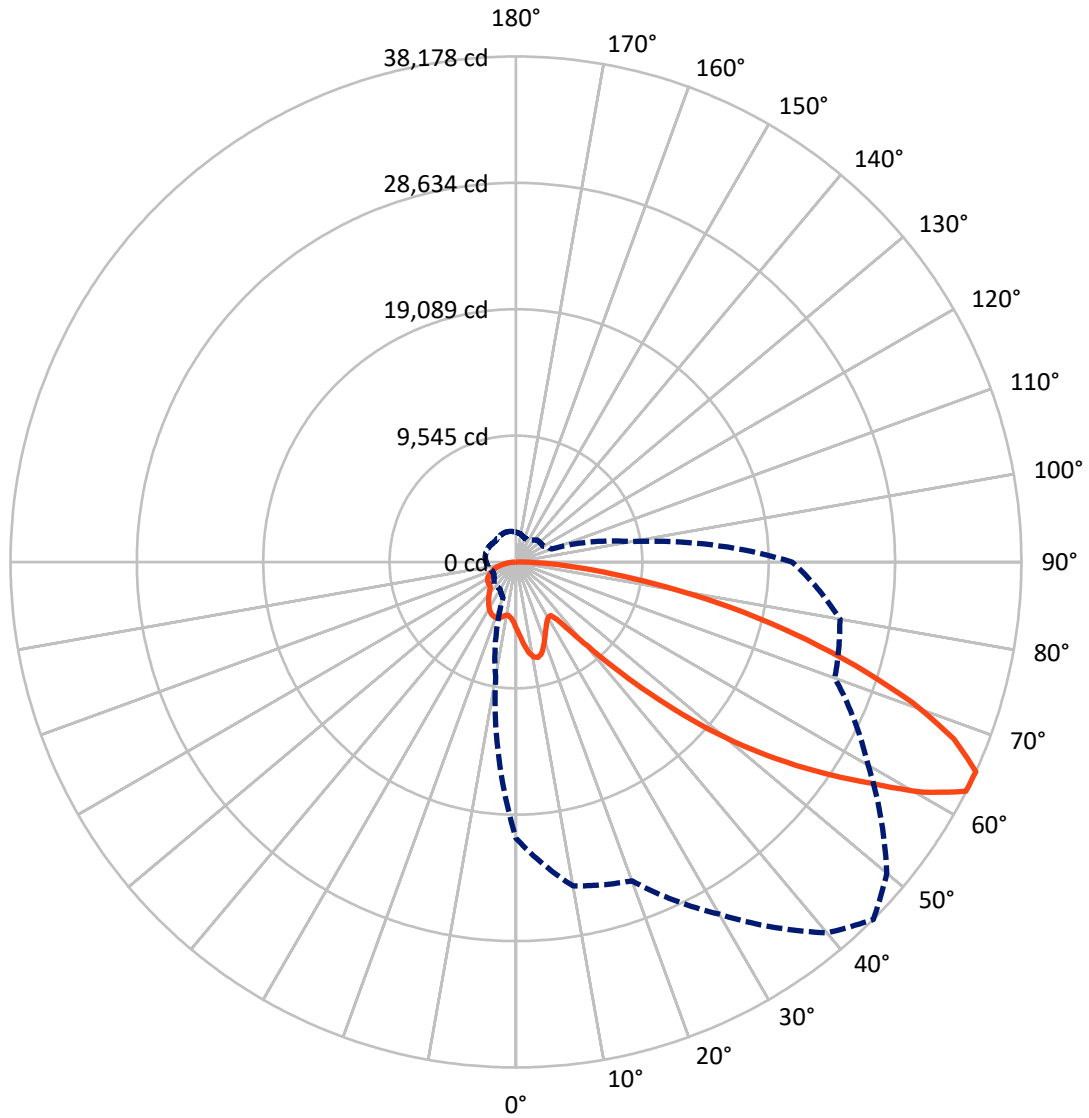
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	9297.0	0.0	9297.0
	% Fixture	25.4	0.0	25.4
<b>Street Side</b>	Lumens	27284.0	0.0	27284.0
	% Fixture	74.6	0.0	74.6
<b>Total</b>	Lumens	36581.0	0.0	36581.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.0	1.4
10°-20°	1566.4	4.3
20°-30°	2419.6	6.6
30°-40°	3066.2	8.4
40°-50°	4624.7	12.6
50°-60°	7471.9	20.4
60°-70°	9314.9	25.5
70°-80°	6108.2	16.7
80°-90°	1510.1	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°	36581.0	100.0
0°-180°	36581.0	100.0



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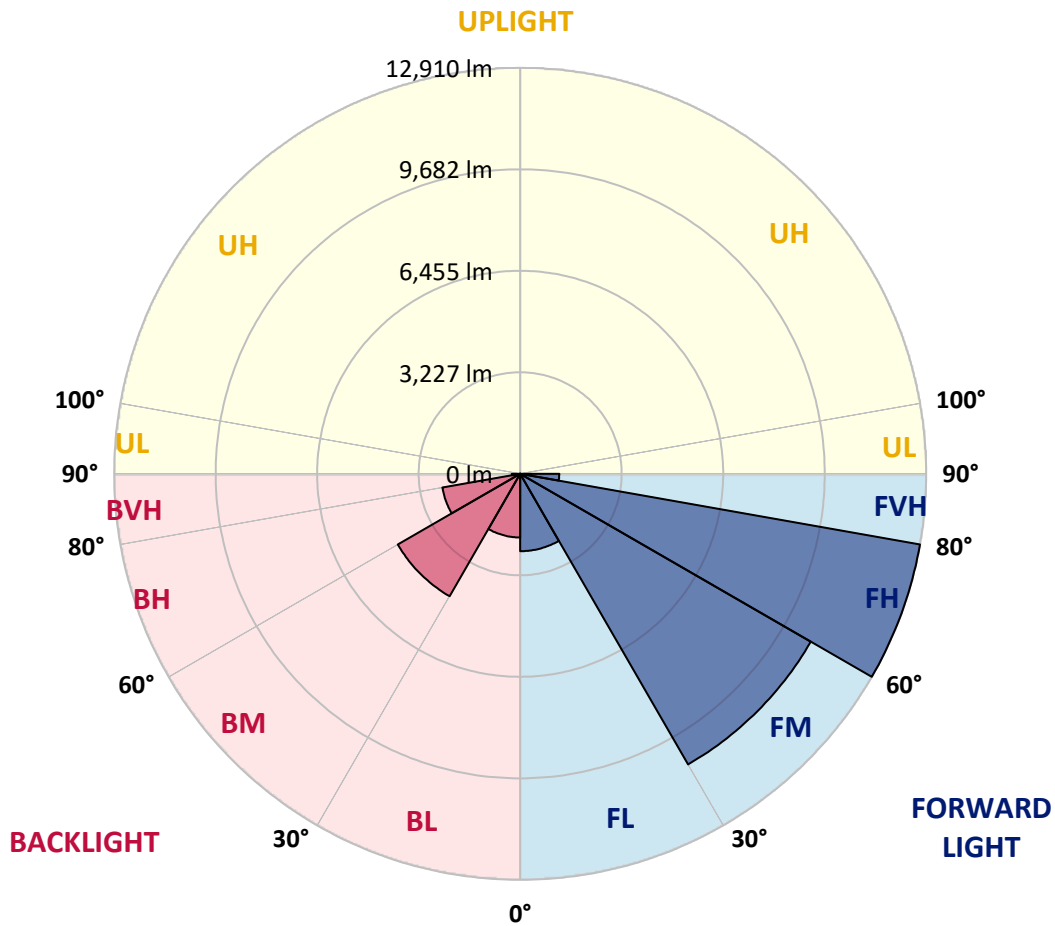
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2460.5	6.7			
FM (30°-60°)	10669.9	29.2			
FH (60°-80°)	12909.6	35.3			G5
FVH (80°-90°)	1244.0	3.4			G5
BL (0°-30°)	2024.5	5.5	B3/2500		
BM (30°-60°)	4492.9	12.3	B3/5000		
BH (60°-80°)	2513.5	6.9	B4/5000		G4/5000
BVH (80°-90°)	266.1	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2
2.5°	5409.5	5430.0	5450.6	5479.8	5508.9	5526.3	5543.6	5552.3	5561.0	5557.2
5°	5816.8	5888.4	5960.2	6031.2	6102.5	6141.1	6179.7	6203.0	6226.6	6244.3
7.5°	6226.0	6342.6	6459.0	6563.8	6668.6	6731.7	6794.8	6829.0	6863.0	6879.4
10°	6539.6	6677.5	6815.3	6938.2	7061.2	7135.7	7209.8	7243.0	7276.0	7288.6
12.5°	6731.7	6881.1	7030.3	7141.5	7252.3	7306.3	7360.4	7378.5	7396.7	7398.6
15°	6848.5	6977.4	7106.2	7175.9	7245.7	7247.7	7249.6	7230.3	7211.0	7188.2
17.5°	6914.1	7001.2	7088.2	7089.6	7090.7	7012.6	6934.4	6862.8	6791.0	6740.4
20°	6986.5	7016.8	7047.3	6955.6	6863.9	6691.4	6518.8	6393.1	6267.5	6190.3
22.5°	7070.5	7030.7	6990.9	6801.0	6611.1	6357.2	6103.4	5946.3	5789.2	5703.9
25°	7178.6	7053.1	6927.6	6639.2	6350.9	6042.6	5734.4	5569.1	5404.3	5323.6
27.5°	7325.3	7101.0	6876.5	6494.5	6112.7	5771.0	5429.4	5266.8	5104.5	5028.3
30°	7523.1	7188.6	6854.3	6384.1	5913.9	5557.9	5202.0	5051.2	4900.5	4829.5
32.5°	7756.7	7298.6	6840.8	6308.8	5776.8	5442.3	5107.8	4989.5	4871.0	4819.8
35°	8040.4	7479.9	6919.5	6365.2	5811.0	5578.6	5346.4	5318.8	5291.2	5286.9
37.5°	8518.1	7858.8	7199.4	6695.6	6191.8	6176.8	6161.7	6287.9	6414.2	6479.8
40°	9240.1	8523.0	7805.9	7431.2	7056.6	7321.0	7585.5	7892.4	8199.3	8352.1
42.5°	10197.5	9486.0	8774.5	8558.7	8342.9	8919.6	9496.4	10054.6	10612.8	10940.6
45°	11379.7	10740.6	10101.3	10006.2	9910.8	10834.8	11759.0	12676.3	13593.7	14150.6
47.5°	12858.3	12236.6	11614.6	11595.3	11576.0	12909.1	14241.7	15584.6	16927.2	17715.7
50°	14796.2	14028.2	13260.4	13263.6	13266.9	14984.8	16702.7	18475.3	20247.8	21319.5
52.5°	17020.8	16090.9	15161.1	15067.1	14972.9	17024.9	19076.9	21270.1	23463.0	24747.6
55°	19389.2	18470.5	17551.7	17185.1	16818.6	19102.4	21386.1	24000.6	26615.1	28142.9
57.5°	21543.4	21043.1	20542.6	19807.3	19072.3	21378.4	23684.4	26645.8	29607.0	31501.5
60°	22845.3	23622.5	24399.8	23486.8	22573.8	24756.1	26938.4	30109.0	33279.6	35327.2
62.5°	22184.2	24307.7	26431.1	26328.3	26225.2	28224.3	30223.7	33240.3	36256.6	38149.2
65°	20861.1	22854.0	24847.0	25241.3	25635.5	28176.1	30716.9	33641.9	36566.8	38178.2
67.5°	19088.1	20983.6	22879.1	23064.0	23248.8	25895.9	28542.8	31480.5	34418.1	35680.5
70°	16958.1	19019.8	21081.7	21164.3	21247.1	23614.3	25981.4	28509.4	31037.3	31738.9
72.5°	14419.8	16785.7	19151.8	19211.3	19270.5	21122.6	22974.7	24868.0	26761.2	26832.3
75°	11208.9	13657.6	16106.3	16326.2	16546.0	17986.9	19427.9	20760.7	22093.5	21736.4
77.5°	8008.6	10294.4	12580.3	12895.0	13209.6	14305.0	15400.4	16345.6	17291.1	16677.3
80°	5241.6	7164.7	9087.6	9478.6	9869.7	10697.0	11523.9	12020.4	12516.6	11529.3
82.5°	3046.9	4361.6	5676.4	6113.3	6550.3	7119.7	7689.1	7896.2	8103.1	7327.2
85°	1340.6	2038.3	2736.1	3107.7	3479.3	3947.1	4414.8	4532.4	4649.9	4028.4
87.5°	415.0	649.5	884.0	1091.4	1298.7	1532.6	1766.6	1776.6	1786.4	1499.8
90°	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):**

50°		55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
5030.2	0°	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2
5561.0	2.5°	5552.3	5543.6	5526.3	5508.9	5479.8	5450.6	5430.0	5409.5	5368.0	5326.5
6226.6	5°	6203.0	6179.7	6141.1	6102.5	6031.2	5960.2	5888.4	5816.8	5725.1	5633.4
6863.0	7.5°	6829.0	6794.8	6731.7	6668.6	6563.8	6459.0	6342.6	6226.0	6074.7	5923.5
7276.0	10°	7243.0	7209.8	7135.7	7061.2	6938.2	6815.3	6677.5	6539.6	6348.4	6157.1
7396.7	12.5°	7378.5	7360.4	7306.3	7252.3	7141.5	7030.3	6881.1	6731.7	6521.5	6311.5
7211.0	15°	7230.3	7249.6	7247.7	7245.7	7175.9	7106.2	6977.4	6848.5	6629.4	6410.3
6791.0	17.5°	6862.8	6934.4	7012.6	7090.7	7089.6	7088.2	7001.2	6914.1	6691.9	6469.8
6267.5	20°	6393.1	6518.8	6691.4	6863.9	6955.6	7047.3	7016.8	6986.5	6755.6	6524.6
5789.2	22.5°	5946.3	6103.4	6357.2	6611.1	6801.0	6990.9	7030.7	7070.5	6834.6	6598.5
5404.3	25°	5569.1	5734.4	6042.6	6350.9	6639.2	6927.6	7053.1	7178.6	6947.3	6716.3
5104.5	27.5°	5266.8	5429.4	5771.0	6112.7	6494.5	6876.5	7101.0	7325.3	7104.8	6884.2
4900.5	30°	5051.2	5202.0	5557.9	5913.9	6384.1	6854.3	7188.6	7523.1	7310.0	7097.1
4871.0	32.5°	4989.5	5107.8	5442.3	5776.8	6308.8	6840.8	7298.6	7756.7	7545.7	7334.9
5291.2	35°	5318.8	5346.4	5578.6	5811.0	6365.2	6919.5	7479.9	8040.4	7838.5	7636.4
6414.2	37.5°	6287.9	6161.7	6176.8	6191.8	6695.6	7199.4	7858.8	8518.1	8260.7	8003.2
8199.3	40°	7892.4	7585.5	7321.0	7056.6	7431.2	7805.9	8523.0	9240.1	8864.8	8489.6
10612.8	42.5°	10054.6	9496.4	8919.6	8342.9	8558.7	8774.5	9486.0	10197.5	9655.8	9114.2
13593.7	45°	12676.3	11759.0	10834.8	9910.8	10006.2	10101.3	10740.6	11379.7	10649.1	9918.5
16927.2	47.5°	15584.6	14241.7	12909.1	11576.0	11595.3	11614.6	12236.6	12858.3	11830.0	10801.6
20247.8	50°	18475.3	16702.7	14984.8	13266.9	13263.6	13260.4	14028.2	14796.2	13246.1	11695.7
23463.0	52.5°	21270.1	19076.9	17024.9	14972.9	15067.1	15161.1	16090.9	17020.8	14733.5	12446.2
26615.1	55°	24000.6	21386.1	19102.4	16818.6	17185.1	17551.7	18470.5	19389.2	16052.3	12715.4
29607.0	57.5°	26645.8	23684.4	21378.4	19072.3	19807.3	20542.6	21043.1	21543.4	16986.9	12430.4
33279.6	60°	30109.0	26938.4	24756.1	22573.8	23486.8	24399.8	23622.5	22845.3	17220.4	11595.3
36256.6	62.5°	33240.3	30223.7	28224.3	26225.2	26328.3	26431.1	24307.7	22184.2	16237.0	10289.7
36566.8	65°	33641.9	30716.9	28176.1	25635.5	25241.3	24847.0	22854.0	20861.1	14845.5	8829.9
34418.1	67.5°	31480.5	28542.8	25895.9	23248.8	23064.0	22879.1	20983.6	19088.1	13189.5	7290.9
31037.3	70°	28509.4	25981.4	23614.3	21247.1	21164.3	21081.7	19019.8	16958.1	11382.6	5807.1
26761.2	72.5°	24868.0	22974.7	21122.6	19270.5	19211.3	19151.8	16785.7	14419.8	9423.8	4428.0
22093.5	75°	20760.7	19427.9	17986.9	16546.0	16326.2	16106.3	13657.6	11208.9	7178.4	3147.8
17291.1	77.5°	16345.6	15400.4	14305.0	13209.6	12895.0	12580.3	10294.4	8008.6	5024.2	2039.9
12516.6	80°	12020.4	11523.9	10697.0	9869.7	9478.6	9087.6	7164.7	5241.6	3237.0	1232.5
8103.1	82.5°	7896.2	7689.1	7119.7	6550.3	6113.3	5676.4	4361.6	3046.9	1873.5	700.3
4649.9	85°	4532.4	4414.8	3947.1	3479.3	3107.7	2736.1	2038.3	1340.6	842.7	345.1
1786.4	87.5°	1776.6	1766.6	1532.6	1298.7	1091.4	884.0	649.5	415.0	276.0	137.0
0.0	90°	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):**

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
5030.2	0°	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2
5282.3	2.5°	5238.3	5193.9	5149.5	5107.0	5064.6	5023.4	4977.7	4940.6	4903.8	4870.4
5541.9	5°	5450.6	5358.5	5266.7	5180.8	5094.9	5013.8	4933.7	4863.8	4793.7	4735.1
5783.8	7.5°	5644.0	5507.9	5371.9	5252.0	5132.1	5021.5	4917.9	4824.8	4732.0	4654.8
5972.4	10°	5787.8	5622.6	5457.2	5315.5	5173.4	5037.0	4925.6	4827.5	4729.5	4652.3
6102.3	12.5°	5893.0	5698.1	5503.1	5342.7	5182.3	5038.9	4935.2	4854.9	4775.0	4723.7
6183.3	15°	5956.3	5731.8	5507.4	5321.7	5136.0	4977.1	4894.1	4855.7	4817.5	4824.4
6222.1	17.5°	5974.5	5713.9	5453.3	5230.0	5006.7	4819.8	4768.7	4782.7	4796.6	4880.8
6252.4	20°	5980.3	5664.5	5348.7	5071.9	4795.1	4577.6	4564.0	4629.7	4695.3	4841.4
6293.4	22.5°	5988.0	5603.9	5219.8	4886.4	4553.0	4305.4	4331.8	4428.9	4526.0	4692.8
6367.5	25°	6018.5	5544.0	5069.8	4679.3	4289.0	4035.2	4106.6	4218.5	4330.5	4480.5
6483.3	27.5°	6082.2	5504.1	4926.0	4489.9	4053.9	3822.8	3909.7	4017.8	4125.9	4249.2
6633.3	30°	6169.4	5485.4	4800.9	4331.6	3862.4	3668.4	3736.6	3822.3	3908.3	4010.7
6789.8	32.5°	6244.7	5462.2	4679.3	4195.2	3710.9	3554.5	3584.8	3635.6	3686.4	3768.0
6968.2	35°	6299.9	5418.6	4537.6	4061.0	3584.5	3454.2	3441.6	3455.5	3469.6	3532.0
7167.9	37.5°	6332.7	5343.9	4355.0	3903.1	3451.3	3337.4	3291.4	3276.0	3260.6	3305.3
7421.6	40°	6353.4	5241.0	4128.8	3714.7	3300.7	3197.4	3127.0	3092.0	3057.1	3089.3
7753.4	42.5°	6392.6	5134.8	3877.5	3506.9	3136.3	3041.1	2952.3	2906.0	2859.6	2885.9
8190.0	45°	6461.5	5036.2	3611.1	3286.0	2961.0	2864.5	2778.6	2733.4	2688.4	2710.4
8655.2	47.5°	6508.8	4954.7	3400.7	3111.4	2822.0	2697.5	2623.6	2585.7	2547.9	2568.8
9086.8	50°	6477.9	4865.9	3254.0	2995.3	2736.7	2573.0	2487.1	2453.5	2420.1	2452.6
9367.1	52.5°	6287.8	4716.0	3144.4	2918.9	2693.6	2505.5	2385.4	2352.2	2319.2	2368.0
9305.3	55°	5894.9	4467.3	3039.7	2863.5	2687.3	2512.2	2331.3	2278.8	2226.5	2295.8
8870.6	57.5°	5311.1	4116.8	2922.4	2797.9	2673.4	2519.0	2298.9	2222.5	2146.0	2220.5
8061.6	60°	4528.0	3661.7	2795.4	2697.5	2599.6	2497.7	2268.4	2169.4	2070.2	2135.6
6967.8	62.5°	3645.8	3116.9	2588.1	2523.0	2458.2	2445.6	2232.9	2109.0	1985.3	2026.8
5851.7	65°	2873.7	2626.9	2380.0	2349.3	2318.6	2320.1	2158.0	2026.4	1894.5	1910.6
4758.4	67.5°	2226.0	2155.9	2085.6	2102.8	2119.8	2115.5	2024.4	1914.8	1805.2	1800.1
3746.6	70°	1686.1	1706.1	1726.0	1805.5	1884.9	1884.9	1855.0	1777.0	1699.0	1681.6
2864.3	72.5°	1300.6	1361.0	1421.6	1534.3	1646.9	1665.8	1666.2	1612.7	1559.2	1533.8
2078.9	75°	1009.9	1064.7	1119.5	1245.8	1372.0	1459.3	1451.9	1410.8	1369.5	1345.2
1408.7	77.5°	777.5	814.8	852.2	974.8	1097.3	1241.1	1237.3	1204.3	1171.3	1146.6
907.6	80°	582.9	598.4	613.8	717.7	821.3	993.1	992.5	964.9	937.1	916.5
558.2	82.5°	416.5	419.2	422.3	498.8	575.2	721.9	730.0	716.5	703.0	688.3
298.4	85°	251.9	250.5	249.0	305.0	361.0	470.0	480.6	466.2	451.7	435.3
123.7	87.5°	110.4	109.1	107.7	130.5	153.5	198.8	212.3	206.5	200.7	197.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956432  
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**CANDELA DISTRIBUTION (continued):**

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
5030.2	0°	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2
4837.2	2.5°	4808.0	4778.9	4749.5	4720.4	4697.8	4675.0	4656.7	4638.4	4624.1	4609.8
4676.6	5°	4624.9	4573.1	4526.2	4479.1	4443.0	4406.7	4381.4	4356.2	4338.2	4320.3
4577.6	7.5°	4512.5	4447.3	4389.7	4332.4	4289.4	4246.5	4216.4	4186.3	4165.6	4145.2
4575.1	10°	4505.0	4434.7	4370.1	4305.4	4254.1	4202.5	4168.9	4135.0	4115.5	4096.0
4672.7	12.5°	4617.5	4562.7	4495.7	4428.9	4363.3	4297.7	4254.2	4210.8	4189.0	4167.4
4831.4	15°	4817.1	4802.8	4744.7	4686.6	4593.2	4499.8	4433.8	4367.7	4337.4	4307.3
4965.0	17.5°	5009.7	5054.3	5007.4	4960.7	4837.0	4713.3	4616.0	4518.7	4473.9	4428.9
4987.7	20°	5081.4	5175.0	5153.4	5131.5	4990.1	4848.8	4729.5	4610.4	4553.0	4495.5
4860.0	22.5°	4981.8	5103.6	5116.7	5129.6	4994.5	4859.4	4736.6	4613.7	4553.2	4492.6
4630.6	25°	4750.5	4870.4	4915.2	4959.7	4849.0	4738.4	4629.1	4520.2	4467.7	4415.4
4372.4	27.5°	4468.5	4564.6	4614.4	4664.4	4585.5	4506.7	4422.0	4337.2	4302.1	4266.8
4113.0	30°	4192.7	4272.6	4313.1	4353.7	4293.6	4233.4	4172.8	4111.8	4093.8	4075.7
3849.9	32.5°	3926.3	4002.9	4047.9	4093.1	4037.9	3982.5	3934.0	3885.6	3873.8	3862.0
3594.1	35°	3669.8	3745.6	3799.7	3853.7	3814.3	3775.2	3730.4	3685.8	3667.8	3650.1
3349.9	37.5°	3425.4	3501.1	3567.9	3634.6	3616.5	3598.4	3557.2	3515.9	3483.3	3450.9
3121.6	40°	3194.5	3267.5	3344.3	3421.3	3425.8	3430.0	3395.1	3360.2	3312.7	3265.6
2912.3	42.5°	2981.4	3050.7	3133.7	3216.7	3238.9	3261.1	3231.6	3202.3	3143.4	3084.5
2732.8	45°	2798.5	2864.1	2950.2	3036.3	3068.1	3100.0	3073.3	3046.9	2979.5	2912.3
2589.4	47.5°	2653.7	2717.8	2802.7	2887.6	2924.3	2961.0	2942.5	2923.9	2864.1	2804.3
2485.2	50°	2545.8	2606.2	2682.3	2758.3	2805.4	2852.5	2851.3	2850.6	2802.7	2754.8
2416.7	52.5°	2472.2	2527.6	2598.5	2669.5	2725.3	2781.1	2791.1	2801.2	2762.2	2723.2
2364.9	55°	2424.8	2484.6	2546.8	2608.7	2667.8	2727.0	2740.9	2754.8	2720.9	2686.9
2295.1	57.5°	2365.3	2435.6	2497.0	2558.5	2618.2	2677.6	2691.7	2705.8	2671.5	2637.1
2200.9	60°	2281.5	2362.2	2424.6	2487.1	2547.0	2606.8	2622.2	2637.7	2604.1	2570.7
2068.3	62.5°	2162.3	2256.4	2323.0	2389.6	2444.5	2499.3	2514.1	2529.0	2498.7	2468.4
1926.4	65°	2027.1	2128.1	2191.8	2255.5	2303.7	2352.0	2367.2	2382.3	2353.2	2324.0
1795.1	67.5°	1888.2	1981.4	2041.8	2102.0	2143.7	2185.4	2200.3	2214.9	2188.1	2161.5
1664.3	70°	1746.1	1827.9	1880.1	1932.2	1969.8	2007.4	2021.7	2036.0	2014.2	1992.4
1508.5	72.5°	1573.0	1637.2	1684.3	1731.4	1768.3	1805.2	1822.1	1839.1	1821.0	1802.8
1320.7	75°	1368.5	1416.4	1459.1	1501.7	1535.3	1568.9	1586.7	1604.4	1595.5	1586.7
1121.9	77.5°	1160.8	1199.6	1236.3	1273.0	1308.3	1343.4	1360.0	1376.6	1364.3	1351.6
895.6	80°	928.1	960.3	991.2	1022.1	1048.9	1075.5	1097.5	1119.5	1114.1	1108.9
673.7	82.5°	671.0	668.2	657.4	646.6	703.8	760.9	798.3	835.8	833.5	831.0
418.9	85°	405.0	390.9	361.0	331.0	384.5	438.2	484.5	530.8	527.0	523.1
194.6	87.5°	194.0	193.4	170.6	147.7	170.1	192.6	211.4	230.1	225.5	220.4
0.0	90°	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):**

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
5030.2	0°	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2
4596.7	2.5°	4583.4	4566.9	4583.4	4596.7	4609.8	4624.1	4638.4	4656.7	4675.0	4697.8
4306.6	5°	4292.9	4279.3	4292.9	4306.6	4320.3	4338.2	4356.2	4381.4	4406.7	4443.0
4132.8	7.5°	4120.7	4111.4	4120.7	4132.8	4145.2	4165.6	4186.3	4216.4	4246.5	4289.4
4085.5	10°	4075.1	4070.9	4075.1	4085.5	4096.0	4115.5	4135.0	4168.9	4202.5	4254.1
4158.5	12.5°	4149.6	4148.1	4149.6	4158.5	4167.4	4189.0	4210.8	4254.2	4297.7	4363.3
4295.7	15°	4284.2	4283.2	4284.2	4295.7	4307.3	4337.4	4367.7	4433.8	4499.8	4593.2
4414.3	17.5°	4399.4	4397.1	4399.4	4414.3	4428.9	4473.9	4518.7	4616.0	4713.3	4837.0
4477.2	20°	4458.9	4453.1	4458.9	4477.2	4495.5	4553.0	4610.4	4729.5	4848.8	4990.1
4472.4	22.5°	4452.1	4443.4	4452.1	4472.4	4492.6	4553.2	4613.7	4736.6	4859.4	4994.5
4396.3	25°	4377.4	4366.2	4377.4	4396.3	4415.4	4467.7	4520.2	4629.1	4738.4	4849.0
4258.1	27.5°	4249.4	4246.5	4249.4	4258.1	4266.8	4302.1	4337.2	4422.0	4506.7	4585.5
4075.7	30°	4075.7	4078.6	4075.7	4075.7	4075.7	4093.8	4111.8	4172.8	4233.4	4293.6
3863.6	32.5°	3865.3	3868.2	3865.3	3863.6	3862.0	3873.8	3885.6	3934.0	3982.5	4037.9
3646.2	35°	3642.4	3640.4	3642.4	3646.2	3650.1	3667.8	3685.8	3730.4	3775.2	3814.3
3433.7	37.5°	3416.5	3406.9	3416.5	3433.7	3450.9	3483.3	3515.9	3557.2	3598.4	3616.5
3233.5	40°	3201.9	3183.0	3201.9	3233.5	3265.6	3312.7	3360.2	3395.1	3430.0	3425.8
3038.0	42.5°	2991.5	2961.0	2991.5	3038.0	3084.5	3143.4	3202.3	3231.6	3261.1	3238.9
2857.7	45°	2803.1	2768.0	2803.1	2857.7	2912.3	2979.5	3046.9	3073.3	3100.0	3068.1
2753.7	47.5°	2703.3	2669.5	2703.3	2753.7	2804.3	2864.1	2923.9	2942.5	2961.0	2924.3
2708.1	50°	2661.4	2629.0	2661.4	2708.1	2754.8	2802.7	2850.6	2851.3	2852.5	2805.4
2681.3	52.5°	2639.6	2609.7	2639.6	2681.3	2723.2	2762.2	2801.2	2791.1	2781.1	2725.3
2650.2	55°	2613.5	2586.5	2613.5	2650.2	2686.9	2720.9	2754.8	2740.9	2727.0	2667.8
2600.8	57.5°	2564.3	2536.3	2564.3	2600.8	2637.1	2671.5	2705.8	2691.7	2677.6	2618.2
2533.2	60°	2495.8	2466.8	2495.8	2533.2	2570.7	2604.1	2637.7	2622.2	2606.8	2547.0
2429.0	62.5°	2389.6	2354.9	2389.6	2429.0	2468.4	2498.7	2529.0	2514.1	2499.3	2444.5
2285.8	65°	2247.8	2217.8	2247.8	2285.8	2324.0	2353.2	2382.3	2367.2	2352.0	2303.7
2126.0	67.5°	2090.4	2063.4	2090.4	2126.0	2161.5	2188.1	2214.9	2200.3	2185.4	2143.7
1958.4	70°	1924.4	1893.6	1924.4	1958.4	1992.4	2014.2	2036.0	2021.7	2007.4	1969.8
1770.4	72.5°	1738.2	1708.3	1738.2	1770.4	1802.8	1821.0	1839.1	1822.1	1805.2	1768.3
1559.4	75°	1532.2	1503.7	1532.2	1559.4	1586.7	1595.5	1604.4	1586.7	1568.9	1535.3
1324.1	77.5°	1296.7	1274.0	1296.7	1324.1	1351.6	1364.3	1376.6	1360.0	1343.4	1308.3
1072.1	80°	1035.0	992.1	1035.0	1072.1	1108.9	1114.1	1119.5	1097.5	1075.5	1048.9
799.9	82.5°	768.6	741.2	768.6	799.9	831.0	833.5	835.8	798.3	760.9	703.8
498.8	85°	474.5	449.7	474.5	498.8	523.1	527.0	530.8	484.5	438.2	384.5
208.1	87.5°	195.3	183.4	195.3	208.1	220.4	225.5	230.1	211.4	192.6	170.1
0.0	90°	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):**

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
5030.2	0°	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2
4720.4	2.5°	4749.5	4778.9	4808.0	4837.2	4870.4	4903.8	4940.6	4977.7	5023.4	5064.6
4479.1	5°	4526.2	4573.1	4624.9	4676.6	4735.1	4793.7	4863.8	4933.7	5013.8	5094.9
4332.4	7.5°	4389.7	4447.3	4512.5	4577.6	4654.8	4732.0	4824.8	4917.9	5021.5	5132.1
4305.4	10°	4370.1	4434.7	4505.0	4575.1	4652.3	4729.5	4827.5	4925.6	5037.0	5173.4
4428.9	12.5°	4495.7	4562.7	4617.5	4672.7	4723.7	4775.0	4854.9	4935.2	5038.9	5182.3
4686.6	15°	4744.7	4802.8	4817.1	4831.4	4824.4	4817.5	4855.7	4894.1	4977.1	5136.0
4960.7	17.5°	5007.4	5054.3	5009.7	4965.0	4880.8	4796.6	4782.7	4768.7	4819.8	5006.7
5131.5	20°	5153.4	5175.0	5081.4	4987.7	4841.4	4695.3	4629.7	4564.0	4577.6	4795.1
5129.6	22.5°	5116.7	5103.6	4981.8	4860.0	4692.8	4526.0	4428.9	4331.8	4305.4	4553.0
4959.7	25°	4915.2	4870.4	4750.5	4630.6	4480.5	4330.5	4218.5	4106.6	4035.2	4289.0
4664.4	27.5°	4614.4	4564.6	4468.5	4372.4	4249.2	4125.9	4017.8	3909.7	3822.8	4053.9
4353.7	30°	4313.1	4272.6	4192.7	4113.0	4010.7	3908.3	3822.3	3736.6	3668.4	3862.4
4093.1	32.5°	4047.9	4002.9	3926.3	3849.9	3768.0	3686.4	3635.6	3584.8	3554.5	3710.9
3853.7	35°	3799.7	3745.6	3669.8	3594.1	3532.0	3469.6	3455.5	3441.6	3454.2	3584.5
3634.6	37.5°	3567.9	3501.1	3425.4	3349.9	3305.3	3260.6	3276.0	3291.4	3337.4	3451.3
3421.3	40°	3344.3	3267.5	3194.5	3121.6	3089.3	3057.1	3092.0	3127.0	3197.4	3300.7
3216.7	42.5°	3133.7	3050.7	2981.4	2912.3	2885.9	2859.6	2906.0	2952.3	3041.1	3136.3
3036.3	45°	2950.2	2864.1	2798.5	2732.8	2710.4	2688.4	2733.4	2778.6	2864.5	2961.0
2887.6	47.5°	2802.7	2717.8	2653.7	2589.4	2568.8	2547.9	2585.7	2623.6	2697.5	2822.0
2758.3	50°	2682.3	2606.2	2545.8	2485.2	2452.6	2420.1	2453.5	2487.1	2573.0	2736.7
2669.5	52.5°	2598.5	2527.6	2472.2	2416.7	2368.0	2319.2	2352.2	2385.4	2505.5	2693.6
2608.7	55°	2546.8	2484.6	2424.8	2364.9	2295.8	2226.5	2278.8	2331.3	2512.2	2687.3
2558.5	57.5°	2497.0	2435.6	2365.3	2295.1	2220.5	2146.0	2222.5	2298.9	2519.0	2673.4
2487.1	60°	2424.6	2362.2	2281.5	2200.9	2135.6	2070.2	2169.4	2268.4	2497.7	2599.6
2389.6	62.5°	2323.0	2256.4	2162.3	2068.3	2026.8	1985.3	2109.0	2232.9	2445.6	2458.2
2255.5	65°	2191.8	2128.1	2027.1	1926.4	1910.6	1894.5	2026.4	2158.0	2320.1	2318.6
2102.0	67.5°	2041.8	1981.4	1888.2	1795.1	1800.1	1805.2	1914.8	2024.4	2115.5	2119.8
1932.2	70°	1880.1	1827.9	1746.1	1664.3	1681.6	1699.0	1777.0	1855.0	1884.9	1884.9
1731.4	72.5°	1684.3	1637.2	1573.0	1508.5	1533.8	1559.2	1612.7	1666.2	1665.8	1646.9
1501.7	75°	1459.1	1416.4	1368.5	1320.7	1345.2	1369.5	1410.8	1451.9	1459.3	1372.0
1273.0	77.5°	1236.3	1199.6	1160.8	1121.9	1146.6	1171.3	1204.3	1237.3	1241.1	1097.3
1022.1	80°	991.2	960.3	928.1	895.6	916.5	937.1	964.9	992.5	993.1	821.3
646.6	82.5°	657.4	668.2	671.0	673.7	688.3	703.0	716.5	730.0	721.9	575.2
331.0	85°	361.0	390.9	405.0	418.9	435.3	451.7	466.2	480.6	470.0	361.0
147.7	87.5°	170.6	193.4	194.0	194.6	197.7	200.7	206.5	212.3	198.8	153.5
0.0	90°	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):**

325°		330°	335°	340°	345°	350°	355°	360°
5030.2	0°	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2	5030.2
5107.0	2.5°	5149.5	5193.9	5238.3	5282.3	5326.5	5368.0	5409.5
5180.8	5°	5266.7	5358.5	5450.6	5541.9	5633.4	5725.1	5816.8
5252.0	7.5°	5371.9	5507.9	5644.0	5783.8	5923.5	6074.7	6226.0
5315.5	10°	5457.2	5622.6	5787.8	5972.4	6157.1	6348.4	6539.6
5342.7	12.5°	5503.1	5698.1	5893.0	6102.3	6311.5	6521.5	6731.7
5321.7	15°	5507.4	5731.8	5956.3	6183.3	6410.3	6629.4	6848.5
5230.0	17.5°	5453.3	5713.9	5974.5	6222.1	6469.8	6691.9	6914.1
5071.9	20°	5348.7	5664.5	5980.3	6252.4	6524.6	6755.6	6986.5
4886.4	22.5°	5219.8	5603.9	5988.0	6293.4	6598.5	6834.6	7070.5
4679.3	25°	5069.8	5544.0	6018.5	6367.5	6716.3	6947.3	7178.6
4489.9	27.5°	4926.0	5504.1	6082.2	6483.3	6884.2	7104.8	7325.3
4331.6	30°	4800.9	5485.4	6169.4	6633.3	7097.1	7310.0	7523.1
4195.2	32.5°	4679.3	5462.2	6244.7	6789.8	7334.9	7545.7	7756.7
4061.0	35°	4537.6	5418.6	6299.9	6968.2	7636.4	7838.5	8040.4
3903.1	37.5°	4355.0	5343.9	6332.7	7167.9	8003.2	8260.7	8518.1
3714.7	40°	4128.8	5241.0	6353.4	7421.6	8489.6	8864.8	9240.1
3506.9	42.5°	3877.5	5134.8	6392.6	7753.4	9114.2	9655.8	10197.5
3286.0	45°	3611.1	5036.2	6461.5	8190.0	9918.5	10649.1	11379.7
3111.4	47.5°	3400.7	4954.7	6508.8	8655.2	10801.6	11830.0	12858.3
2995.3	50°	3254.0	4865.9	6477.9	9086.8	11695.7	13246.1	14796.2
2918.9	52.5°	3144.4	4716.0	6287.8	9367.1	12446.2	14733.5	17020.8
2863.5	55°	3039.7	4467.3	5894.9	9305.3	12715.4	16052.3	19389.2
2797.9	57.5°	2922.4	4116.8	5311.1	8870.6	12430.4	16986.9	21543.4
2697.5	60°	2795.4	3661.7	4528.0	8061.6	11595.3	17220.4	22845.3
2523.0	62.5°	2588.1	3116.9	3645.8	6967.8	10289.7	16237.0	22184.2
2349.3	65°	2380.0	2626.9	2873.7	5851.7	8829.9	14845.5	20861.1
2102.8	67.5°	2085.6	2155.9	2226.0	4758.4	7290.9	13189.5	19088.1
1805.5	70°	1726.0	1706.1	1686.1	3746.6	5807.1	11382.6	16958.1
1534.3	72.5°	1421.6	1361.0	1300.6	2864.3	4428.0	9423.8	14419.8
1245.8	75°	1119.5	1064.7	1009.9	2078.9	3147.8	7178.4	11208.9
974.8	77.5°	852.2	814.8	777.5	1408.7	2039.9	5024.2	8008.6
717.7	80°	613.8	598.4	582.9	907.6	1232.5	3237.0	5241.6
498.8	82.5°	422.3	419.2	416.5	558.2	700.3	1873.5	3046.9
305.0	85°	249.0	250.5	251.9	298.4	345.1	842.7	1340.6
130.5	87.5°	107.7	109.1	110.4	123.7	137.0	276.0	415.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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