

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: P941372

Luminaire Tested: **GALN-SB4D-850-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941372  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-850-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

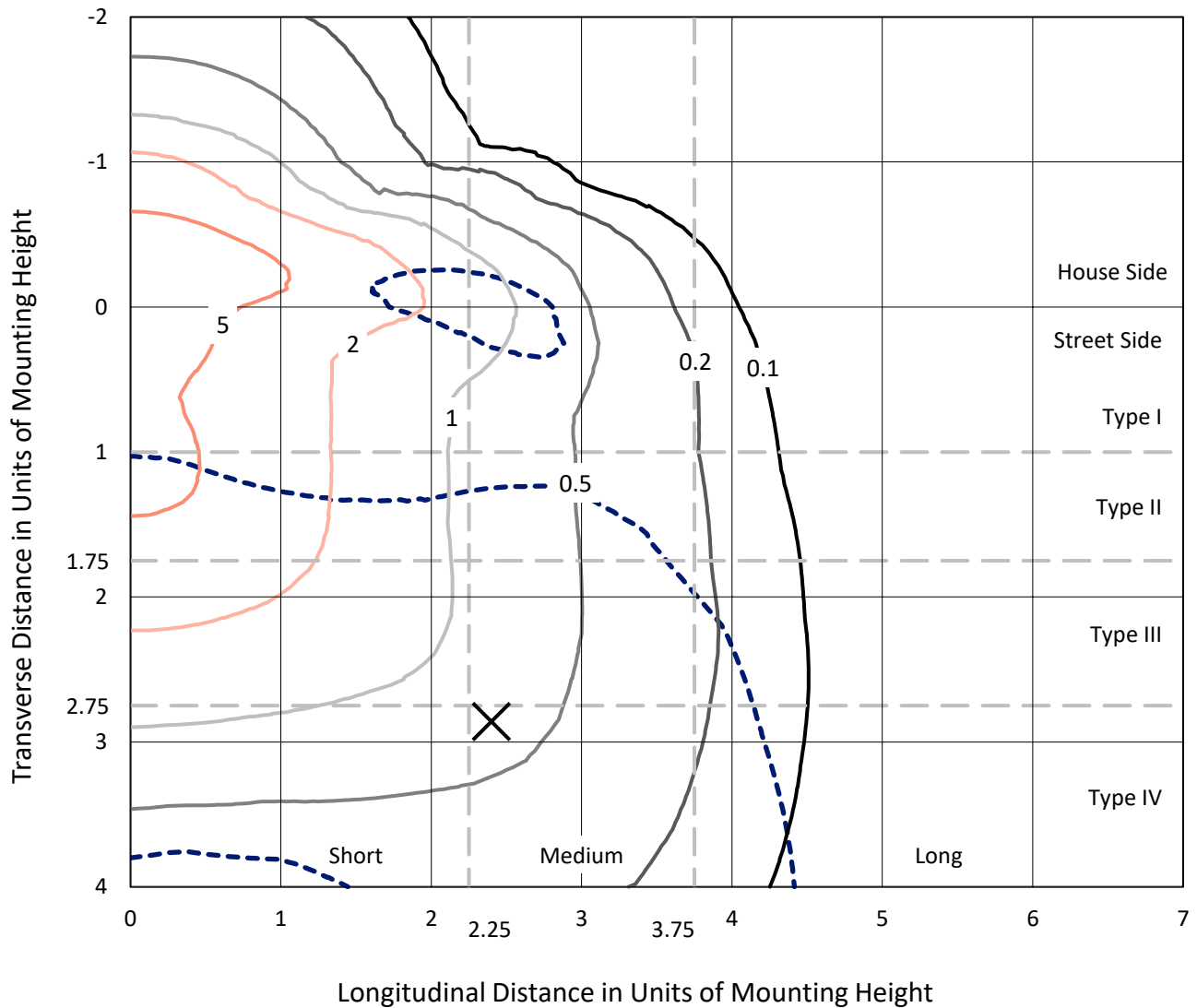
Lumens per Lamp: N/A  
Luminaire Lumens: 38669 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

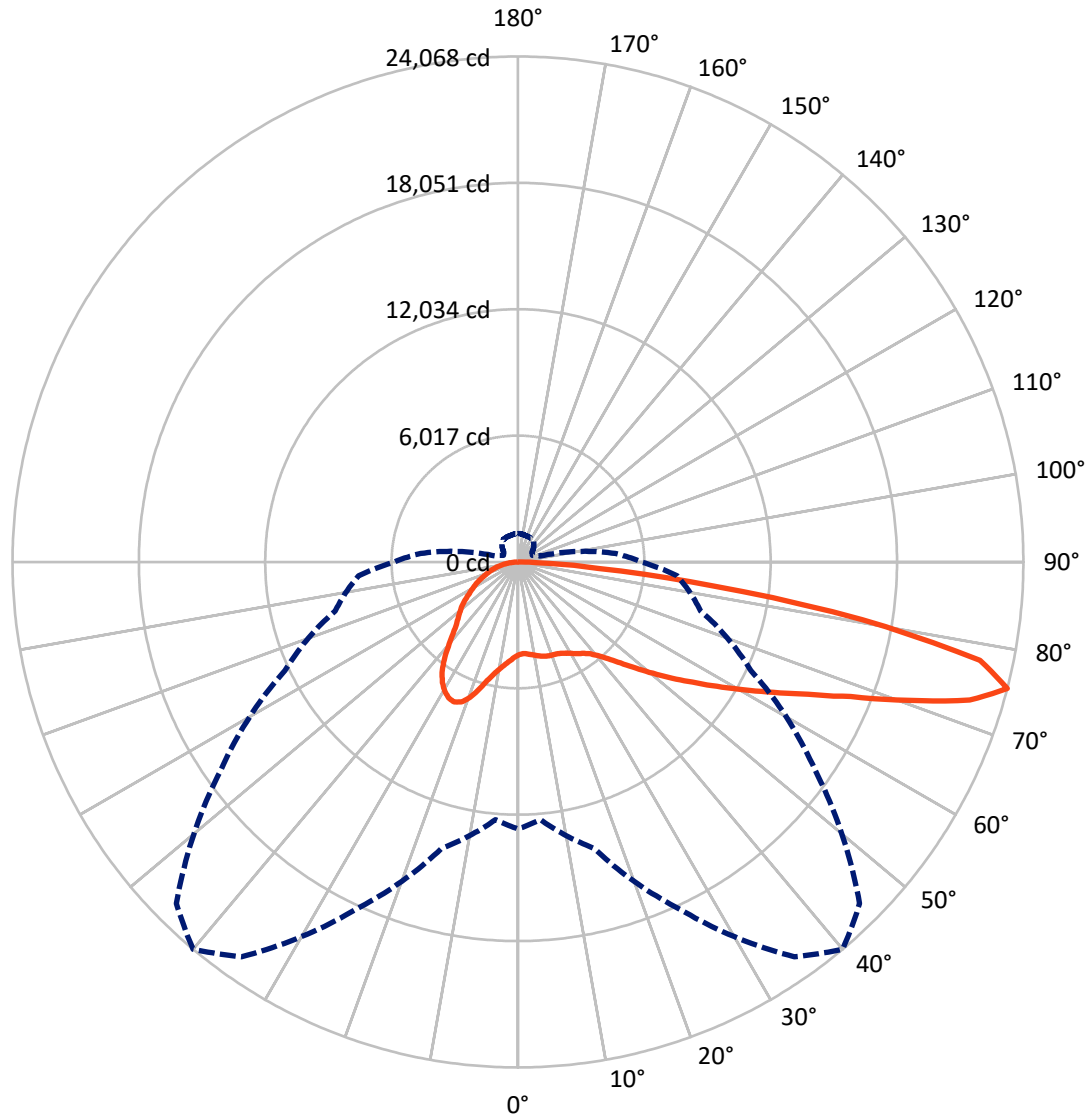
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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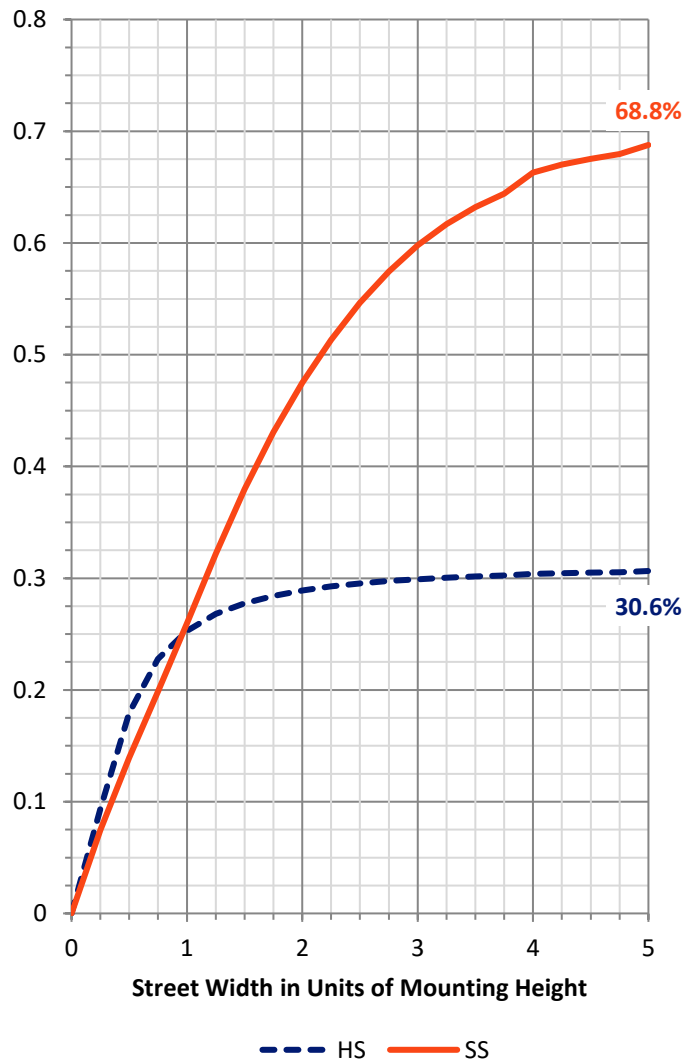
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11981.0	0.0	11981.0
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	26688.1	0.0	26688.1
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	38669.0	0.0	38669.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.4	1.1
10°-20°	1481.9	3.8
20°-30°	2705.9	7.0
30°-40°	3837.7	9.9
40°-50°	5182.0	13.4
50°-60°	6971.2	18.0
60°-70°	8848.1	22.9
70°-80°	8030.2	20.8
80°-90°	1170.5	3.0
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°	38669.0	100.0
0°-180°	38669.0	100.0



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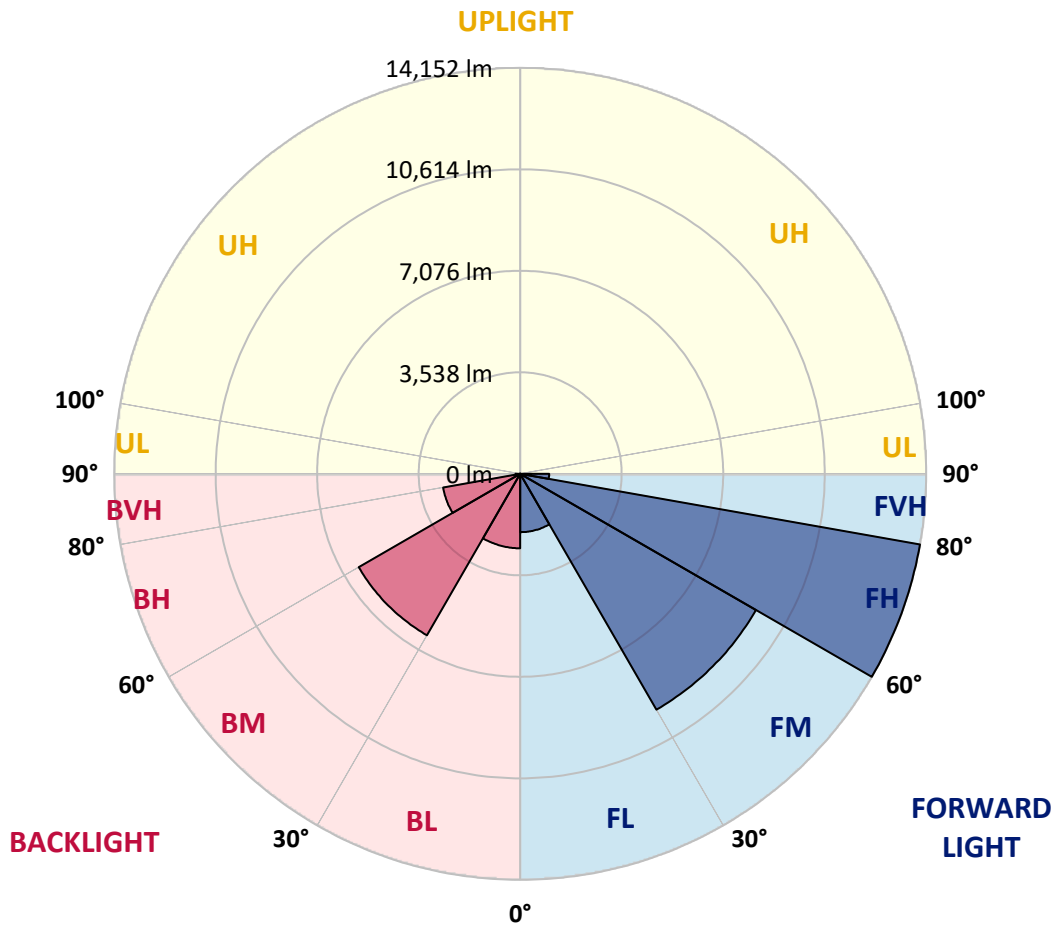
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2034.0	5.3			
FM (30°-60°)	9492.4	24.5			
FH (60°-80°)	14152.3	36.6			G5
FVH (80°-90°)	1009.4	2.6			G5
BL (0°-30°)	2595.2	6.7	B4/5000		
BM (30°-60°)	6498.6	16.8	B4/8500		
BH (60°-80°)	2726.0	7.0	B4/5000		G4/5000
BVH (80°-90°)	161.2	0.4			G2/225
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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9
2.5°	4354.2	4378.8	4372.6	4364.4	4364.4	4366.5	4364.4	4378.8	4393.1	4407.5
5°	4399.3	4423.9	4411.6	4401.3	4393.1	4391.1	4384.9	4382.9	4391.1	4409.5
7.5°	4487.5	4512.1	4493.6	4475.2	4458.8	4450.6	4442.4	4430.1	4423.9	4434.2
10°	4585.9	4610.5	4588.0	4555.2	4528.5	4518.2	4510.0	4497.7	4489.5	4495.7
12.5°	4684.4	4709.0	4678.2	4633.1	4598.2	4592.1	4581.8	4577.7	4575.7	4573.6
15°	4776.7	4797.2	4758.2	4704.9	4668.0	4657.7	4647.5	4653.6	4663.9	4676.2
17.5°	4848.4	4869.0	4811.5	4741.8	4706.9	4702.8	4696.7	4717.2	4745.9	4776.7
20°	4914.1	4934.6	4860.8	4766.4	4725.4	4725.4	4727.4	4770.5	4811.5	4856.7
22.5°	5006.4	5022.8	4932.5	4803.3	4743.9	4748.0	4764.4	4807.4	4858.7	4920.2
25°	5143.8	5156.1	5045.3	4873.1	4805.4	4817.7	4832.0	4852.6	4901.8	4973.6
27.5°	5365.3	5375.5	5229.9	4996.1	4893.6	4914.1	4934.6	4920.2	4942.8	5004.3
30°	5677.0	5683.2	5498.6	5188.9	5043.3	5053.5	5057.6	4998.2	4955.1	5004.3
32.5°	6046.2	6044.2	5824.7	5422.7	5213.5	5203.3	5168.4	5051.5	4951.0	4994.1
35°	6618.4	6595.9	6312.8	5750.9	5406.3	5342.7	5260.7	5111.0	4971.5	4983.8
37.5°	7566.0	7496.2	7104.5	6288.2	5693.4	5531.4	5410.4	5207.4	5016.6	4979.7
40°	8634.5	8546.3	8115.6	7024.5	6124.1	5863.7	5668.8	5344.8	5090.5	4998.2
42.5°	9902.0	9776.9	9313.4	7892.1	6669.7	6292.3	5999.0	5519.1	5199.2	5057.6
45°	11458.7	11292.5	10636.2	8870.4	7356.8	6854.3	6462.5	5783.7	5365.3	5172.5
47.5°	13031.7	13072.8	12139.6	9990.2	8181.2	7547.5	7043.0	6181.6	5607.3	5357.1
50°	14703.3	14732.0	13634.7	11231.0	9116.5	8331.0	7695.2	6626.6	5943.7	5619.6
52.5°	16007.7	16011.8	14992.5	12529.3	10090.7	9192.4	8398.6	7135.3	6333.3	5968.3
55°	16824.0	16813.7	15944.1	13757.8	11210.5	10096.8	9178.0	7713.6	6809.2	6378.5
57.5°	17416.7	17385.9	16600.4	14814.0	12404.2	11165.4	10059.9	8369.9	7371.1	6866.6
60°	17642.3	17623.8	17045.5	15726.7	13659.3	12346.7	11077.2	9104.2	8009.0	7442.9
62.5°	17728.4	17763.3	17482.3	16610.7	15002.7	13655.2	12195.0	9982.0	8726.8	8095.1
65°	18032.0	18095.5	18038.1	17767.4	16520.4	15187.3	13677.8	11025.9	9510.3	8794.5
67.5°	18632.9	18696.5	18721.1	19151.8	18374.5	17096.7	15527.8	12326.2	10427.0	9520.5
70°	18618.5	18600.1	19034.9	20253.1	20696.2	19740.4	18021.7	13926.0	11520.2	10123.5
72.5°	16947.0	16799.3	17826.9	20240.8	22628.1	22501.0	21067.4	15989.2	12463.6	10197.3
75°	12713.8	12320.1	14135.2	18241.2	22950.1	24067.9	23003.5	17269.0	12240.1	9009.8
77.5°	5437.1	5041.2	7180.4	13503.5	20540.3	22498.9	21227.3	15066.3	9770.7	5958.0
80°	1423.4	1421.3	2169.9	6122.1	13969.0	16614.8	14576.1	9729.7	5582.7	2128.9
82.5°	588.6	574.3	797.8	2381.2	6825.6	9323.6	7609.0	4339.8	2016.1	576.3
85°	219.5	217.4	387.6	822.4	2407.8	3845.5	2783.1	1109.6	502.5	281.0
87.5°	61.5	59.5	84.1	285.1	586.6	890.1	475.8	182.5	141.5	110.8
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4421.9	0°	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9	4421.9
4430.1	2.5°	4436.2	4446.5	4464.9	4479.3	4497.7	4518.2	4547.0	4565.4	4583.9	4596.2
4440.3	5°	4454.7	4477.2	4524.4	4571.6	4626.9	4678.2	4737.7	4780.8	4815.6	4825.9
4477.2	7.5°	4495.7	4532.6	4612.6	4692.6	4780.8	4864.9	4951.0	5024.8	5084.3	5106.9
4542.9	10°	4567.5	4616.7	4729.5	4842.3	4959.2	5088.4	5199.2	5305.8	5389.9	5424.8
4620.8	12.5°	4657.7	4719.2	4866.9	5022.8	5184.8	5363.2	5506.8	5638.1	5742.7	5789.8
4729.5	15°	4774.6	4854.6	5043.3	5252.5	5490.4	5738.6	5921.1	6066.7	6183.6	6241.0
4842.3	17.5°	4901.8	5008.4	5246.3	5562.2	5902.6	6228.7	6442.0	6548.7	6669.7	6725.1
4946.9	20°	5024.8	5156.1	5496.6	5956.0	6409.2	6755.8	6928.1	6956.8	6965.0	6971.2
5045.3	22.5°	5152.0	5328.4	5810.3	6452.3	6938.4	7178.3	7202.9	7079.9	6907.6	6827.6
5141.7	25°	5291.5	5525.3	6220.5	6999.9	7393.7	7422.4	7233.7	6934.3	6608.2	6458.4
5219.7	27.5°	5426.8	5752.9	6712.8	7522.9	7721.8	7469.6	7063.5	6638.9	6245.1	6087.2
5275.0	30°	5562.2	6013.4	7256.3	7980.3	7871.6	7352.7	6794.8	6321.0	5925.2	5759.1
5324.3	32.5°	5699.6	6316.9	7881.8	8310.5	7844.9	7104.5	6460.5	5964.2	5615.5	5441.2
5367.3	35°	5855.5	6690.2	8474.5	8490.9	7666.5	6739.4	6019.5	5537.6	5234.0	5094.6
5418.6	37.5°	6058.5	7164.0	8997.5	8536.1	7354.7	6204.1	5471.9	5033.0	4782.8	4719.2
5494.5	40°	6310.8	7734.1	9397.5	8464.3	6893.2	5554.0	4873.1	4522.3	4380.8	4395.2
5597.0	42.5°	6638.9	8372.0	9678.4	8279.7	6251.3	4883.3	4348.0	4192.1	4259.8	4317.3
5750.9	45°	7065.5	9034.4	9852.8	7965.9	5525.3	4315.2	4038.3	4075.2	4126.5	4132.7
5999.0	47.5°	7611.1	9705.1	9967.6	7492.1	4784.9	3915.3	3841.4	3849.6	3839.4	3796.3
6370.3	50°	8292.0	10357.3	10070.2	6864.5	4155.2	3665.1	3566.6	3537.9	3396.4	3256.9
6864.5	52.5°	9067.3	10956.2	10113.2	6085.2	3665.1	3455.9	3295.9	3115.4	2850.8	2807.8
7486.0	55°	9928.7	11509.9	10002.5	5127.4	3252.8	3187.2	2945.2	2727.8	2699.1	2662.1
8304.3	57.5°	10958.2	12106.8	9776.9	4058.8	2830.3	2873.4	2637.5	2662.1	2610.9	2553.4
9356.4	60°	12084.2	12724.1	9381.1	3084.6	2393.5	2481.7	2557.5	2555.5	2541.1	2494.0
10466.0	62.5°	13097.4	13130.2	8601.7	2362.7	2009.9	2178.1	2385.3	2383.2	2370.9	2344.2
11624.8	65°	13700.4	13068.7	7301.4	1860.2	1694.1	1927.9	2151.4	2167.9	2169.9	2167.9
12496.4	67.5°	13593.7	12348.8	5517.1	1480.8	1433.6	1673.6	1919.7	1942.3	1958.7	1962.8
12607.2	70°	12387.7	10767.5	3597.4	1181.3	1201.9	1450.0	1700.2	1722.8	1737.2	1753.6
10939.8	72.5°	9655.9	7916.7	2059.2	955.7	998.8	1257.2	1482.8	1509.5	1517.7	1548.5
7613.1	75°	5884.2	4655.7	1111.6	752.7	820.4	1074.7	1267.5	1298.3	1312.6	1349.5
3738.9	77.5°	2797.5	2016.1	633.7	586.6	660.4	877.8	1070.6	1105.5	1066.5	1087.0
1031.6	80°	945.5	748.6	399.9	447.1	504.5	685.0	857.3	892.2	810.1	806.0
342.5	82.5°	330.2	303.5	254.3	297.4	326.1	490.2	648.1	693.2	603.0	600.9
153.8	85°	129.2	123.1	141.5	162.0	194.8	301.5	426.6	449.2	371.2	299.4
45.1	87.5°	26.7	28.7	34.9	36.9	59.5	104.6	153.8	188.7	149.7	127.2
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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<u>180°</u>
4421.9
4588.0
4830.0
5108.9
5426.8
5789.8
6236.9
6723.0
6987.6
6850.2
6481.0
6105.7
5777.5
5463.7
5125.3
4764.4
4444.4
4370.6
4173.7
3829.1
3275.4
2822.1
2668.3
2543.2
2477.5
2334.0
2167.9
1966.9
1761.8
1560.8
1353.6
1070.6
797.8
572.2
295.3
116.9
0.0

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