

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: P941335

Luminaire Tested: **GALN-SB4D-827-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941335  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-827-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35139 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

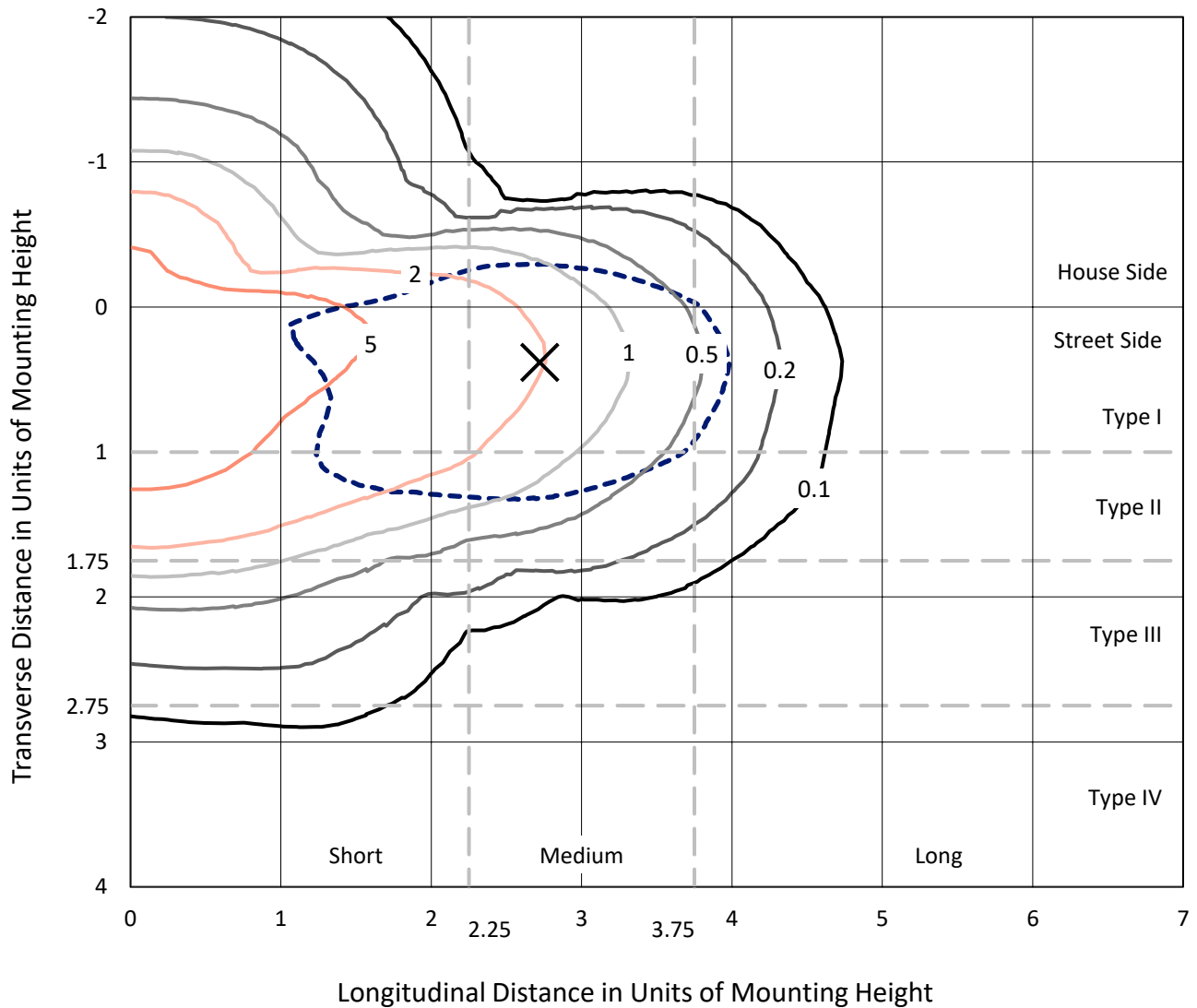
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

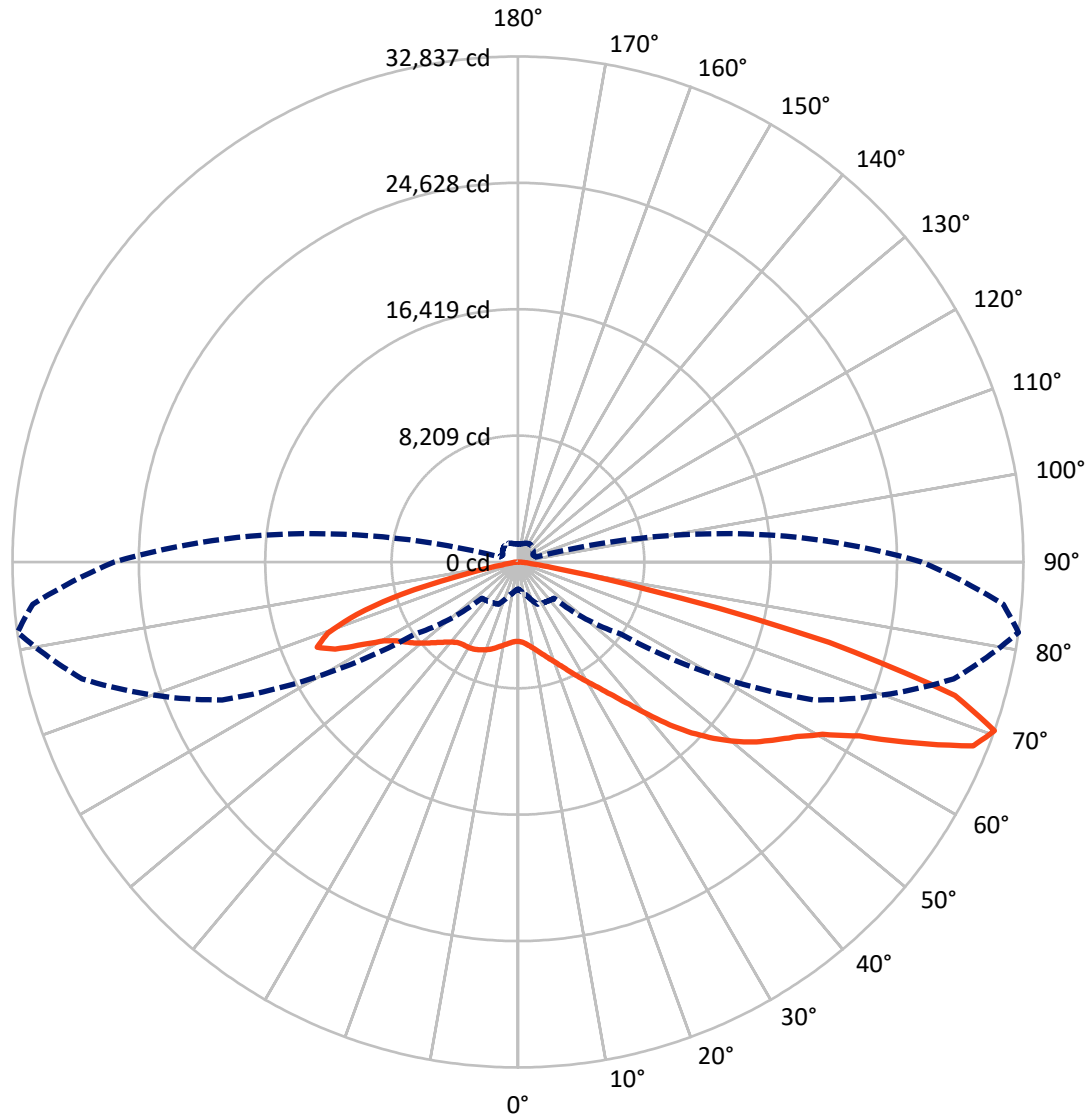
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8662.6	0.0	8662.6
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	26476.4	0.0	26476.4
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	35139.0	0.0	35139.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.4	1.4
10°-20°	1397.5	4.0
20°-30°	2337.9	6.7
30°-40°	3652.4	10.4
40°-50°	5816.9	16.6
50°-60°	8094.9	23.0
60°-70°	8467.7	24.1
70°-80°	4425.7	12.6
80°-90°	459.6	1.3
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°	35139.0	100.0
0°-180°	35139.0	100.0

**Coefficient of Utilization**



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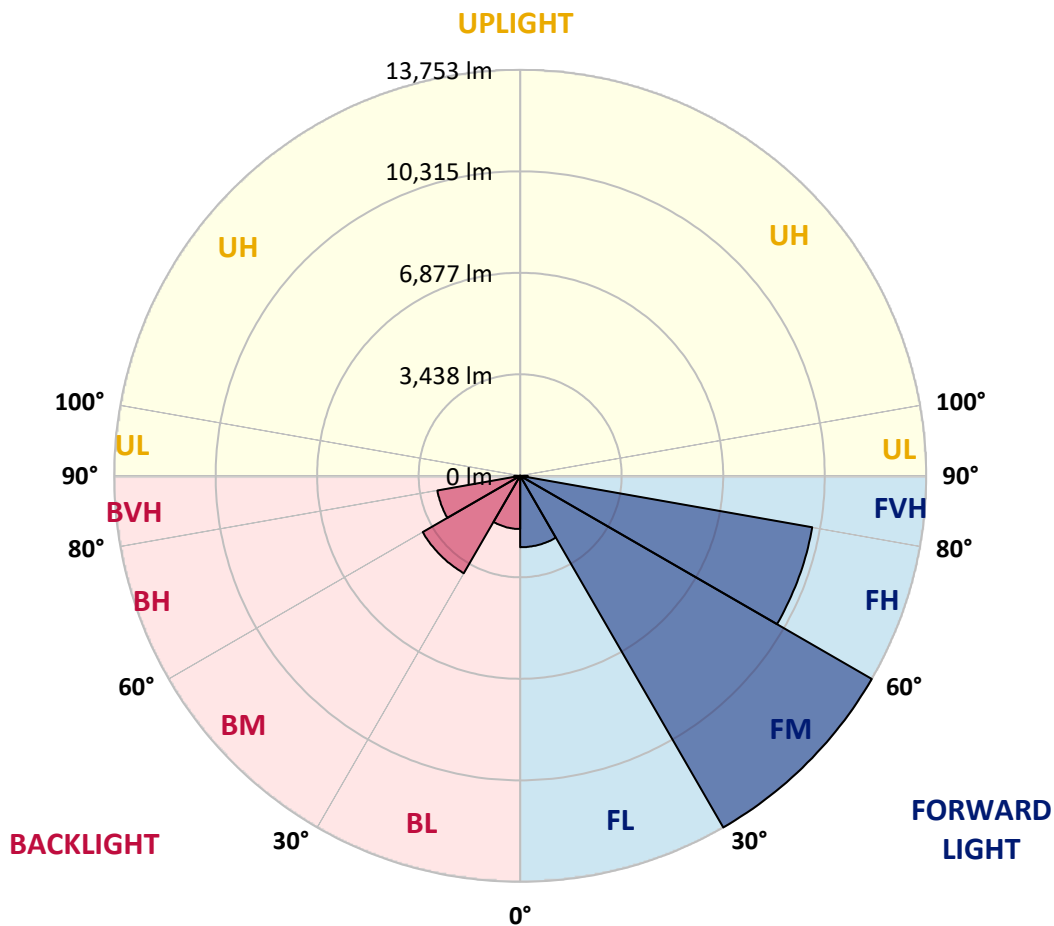
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2419.7	6.9			
FM (30°-60°)	13753.1	39.1			
FH (60°-80°)	10046.4	28.6			G4/12000
FVH (80°-90°)	257.3	0.7			G3/500
BL (0°-30°)	1802.1	5.1	B3/2500		
BM (30°-60°)	3811.2	10.8	B3/5000		
BH (60°-80°)	2847.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	202.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5151.8	5151.8	5151.8	5151.8	5151.8	5151.8	5151.8	5151.8	5151.8	5151.8
2.5°	5274.9	5304.7	5295.4	5286.1	5286.1	5273.0	5271.1	5252.5	5237.6	5213.3
5°	5342.0	5373.7	5370.0	5377.4	5401.7	5407.3	5412.9	5401.7	5371.8	5342.0
7.5°	5282.3	5317.8	5329.0	5373.7	5448.3	5515.4	5565.8	5586.3	5558.3	5515.4
10°	5081.0	5120.1	5159.3	5265.6	5397.9	5556.4	5690.7	5770.9	5765.3	5724.2
12.5°	4672.6	4713.6	4797.5	5004.5	5246.9	5526.6	5776.4	5944.3	6002.1	5972.2
15°	4346.3	4381.7	4445.1	4657.7	4972.8	5397.9	5808.1	6134.4	6281.7	6265.0
17.5°	4337.0	4351.9	4391.1	4491.8	4734.2	5196.6	5774.6	6320.9	6602.5	6600.6
20°	4501.1	4506.7	4529.0	4549.6	4687.5	5043.7	5688.8	6475.7	6962.3	6962.3
22.5°	4728.6	4724.8	4747.2	4728.6	4795.7	5030.6	5634.7	6611.8	7363.2	7393.0
25°	5069.8	5051.1	5045.5	5002.7	5015.7	5151.8	5694.4	6766.5	7838.7	7900.2
27.5°	5524.7	5494.9	5474.4	5375.6	5342.0	5401.7	5877.1	6953.0	8368.2	8474.5
30°	6117.7	6063.6	6033.8	5862.2	5741.0	5750.3	6153.1	7201.0	8922.0	9093.5
32.5°	6926.9	6843.0	6762.8	6481.3	6259.4	6186.7	6509.2	7544.1	9522.4	9796.5
35°	7833.1	7765.9	7680.2	7245.7	6904.5	6736.7	6990.3	8023.3	10225.3	10659.8
37.5°	8705.7	8647.9	8688.9	8103.4	7663.4	7419.1	7620.5	8666.5	11092.3	11733.8
40°	9608.1	9563.4	9569.0	9009.6	8496.9	8222.8	8385.0	9473.9	12086.2	13011.0
42.5°	10588.9	10555.4	10443.5	9947.5	9371.3	9115.9	9265.1	10406.2	13152.7	14465.4
45°	11687.1	11666.6	11562.2	10993.5	10333.5	10046.3	10247.7	11435.4	14224.8	15834.0
47.5°	12636.2	12653.0	12639.9	12160.7	11476.5	11055.1	11295.6	12509.4	15222.4	17120.5
50°	13093.0	13180.7	13309.3	13160.2	12735.0	12306.2	12352.8	13546.1	16173.3	18326.9
52.5°	12854.4	13020.3	13370.9	13609.5	13773.6	13684.1	13559.2	14575.4	17068.3	19415.8
55°	11965.0	12198.0	12779.8	13355.9	14193.1	14843.9	15008.0	15716.5	17940.9	20374.2
57.5°	10344.7	10723.2	11245.2	12410.6	13820.2	15405.1	16697.3	17299.5	18865.8	21397.8
60°	7566.4	8073.6	8722.5	10456.5	12515.0	15104.9	18134.8	19730.9	20180.3	22723.6
62.5°	4842.3	5155.5	5752.2	7385.6	9751.7	13566.6	18574.9	22770.2	22408.4	24897.7
65°	3315.2	3516.6	4062.9	4980.3	6304.1	10098.5	17396.5	25048.7	25947.4	28343.4
67.5°	2409.0	2561.9	3028.1	3831.7	4107.7	5976.0	13499.5	24944.3	29387.5	31893.5
70°	1756.4	1864.6	2256.1	3028.1	3160.5	3324.5	8178.0	21203.9	29313.0	32837.0
72.5°	1301.5	1376.1	1639.0	2349.4	2558.2	2244.9	4048.0	15410.7	25188.5	29700.8
75°	941.6	997.5	1191.5	1797.4	2047.3	1709.8	2019.3	9005.9	17569.9	20892.5
77.5°	719.7	762.6	889.4	1316.4	1639.0	1282.8	1253.0	4143.1	8330.9	8371.9
80°	578.0	606.0	675.0	926.7	1256.7	960.3	816.7	1672.5	2632.8	2228.2
82.5°	425.1	471.7	570.6	650.7	898.7	661.9	497.8	844.7	1001.3	861.4
85°	242.4	274.1	344.9	466.1	574.3	404.6	285.3	374.8	466.1	382.2
87.5°	85.8	111.9	121.2	182.7	249.9	167.8	110.0	108.1	152.9	113.7
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°
5151.8	0°	5151.8	5151.8	5151.8	5151.8	5151.8	5151.8	5151.8	5151.8	5151.8	5151.8
5207.8	2.5°	5189.1	5179.8	5142.5	5092.2	5039.9	4989.6	4972.8	4937.4	4913.2	4900.1
5329.0	5°	5293.5	5263.7	5176.1	5064.2	4946.7	4819.9	4730.4	4648.4	4588.7	4532.8
5494.9	7.5°	5442.7	5390.5	5239.5	5043.7	4834.8	4624.1	4467.5	4348.2	4268.0	4215.8
5688.8	10°	5616.1	5535.9	5304.7	5012.0	4689.4	4387.3	4202.7	4100.2	4049.9	4021.9
5910.7	12.5°	5815.6	5701.9	5371.8	4939.3	4467.5	4122.6	3995.8	3965.9	3967.8	3969.7
6190.4	15°	6061.7	5903.2	5425.9	4780.8	4178.5	3919.3	3897.0	3945.4	3995.8	4020.0
6507.4	17.5°	6339.6	6115.8	5435.2	4519.7	3895.1	3788.8	3859.7	3964.1	4040.5	4074.1
6861.6	20°	6637.9	6332.1	5368.1	4150.5	3662.0	3682.5	3809.3	3943.6	4027.5	4070.4
7266.2	22.5°	6979.1	6563.3	5207.8	3762.7	3471.8	3566.9	3716.1	3846.6	3934.3	3977.1
7741.7	25°	7368.8	6822.5	4956.0	3436.4	3307.8	3436.4	3585.6	3693.7	3764.6	3803.7
8273.1	27.5°	7801.4	7092.8	4620.4	3177.2	3164.2	3302.2	3425.2	3509.1	3546.4	3576.3
8838.1	30°	8235.8	7339.0	4213.9	2981.5	3039.3	3169.8	3257.4	3294.7	3305.9	3311.5
9468.3	32.5°	8705.7	7551.5	3786.9	2819.2	2919.9	3041.1	3093.3	3110.1	3057.9	3022.5
10232.8	35°	9274.4	7779.0	3369.3	2690.6	2802.5	2906.9	2923.7	2908.7	2847.2	2774.5
11191.2	37.5°	9977.3	8062.4	3035.5	2599.2	2692.4	2761.4	2740.9	2737.2	2742.8	2657.0
12343.5	40°	10838.8	8431.6	2791.3	2528.4	2602.9	2617.9	2560.1	2591.8	2619.7	2489.2
13607.7	42.5°	11795.3	8877.2	2636.5	2479.9	2528.4	2492.9	2403.4	2438.9	2435.1	2263.6
14877.4	45°	12770.5	9362.0	2582.4	2444.5	2459.4	2388.5	2289.7	2299.0	2220.7	2065.9
16095.0	47.5°	13740.0	9882.2	2616.0	2414.6	2373.6	2293.4	2217.0	2176.0	2060.4	1944.8
17262.2	50°	14691.0	10428.6	2739.1	2355.0	2256.1	2209.5	2153.6	2080.9	1957.8	1859.0
18366.0	52.5°	15572.9	10978.6	2877.0	2256.1	2108.8	2136.8	2101.4	2017.5	1896.3	1795.6
19410.2	55°	16408.2	11528.7	2931.1	2120.0	1970.9	2073.4	2052.9	1898.1	1752.7	1670.7
20502.9	57.5°	17318.2	12190.6	2871.4	1946.6	1859.0	2000.7	1922.4	1750.8	1666.9	1605.4
21925.5	60°	18578.6	13229.1	2742.8	1732.2	1752.7	1892.5	1758.3	1687.4	1596.1	1527.1
24058.6	62.5°	20672.5	15166.4	2535.8	1519.6	1627.8	1732.2	1680.0	1609.1	1515.9	1448.8
27705.7	65°	23767.7	17858.9	2146.1	1353.7	1487.9	1575.6	1596.1	1525.2	1428.3	1357.4
30901.6	67.5°	26378.1	19548.2	1624.0	1215.7	1344.4	1448.8	1506.6	1437.6	1335.0	1266.0
31649.3	70°	26234.6	18321.3	1239.9	1079.6	1217.6	1323.8	1398.4	1344.4	1234.3	1169.1
28748.0	72.5°	23301.6	15326.8	1003.1	941.6	1088.9	1193.3	1282.8	1241.8	1129.9	1066.5
21060.4	75°	17118.7	10879.8	801.8	801.8	928.6	1057.2	1156.0	1129.9	1027.4	982.6
8841.8	77.5°	7215.9	4564.5	628.4	665.7	771.9	908.0	1031.1	1040.4	950.9	1006.9
2338.2	80°	1918.6	1258.6	479.2	523.9	606.0	749.6	896.9	893.1	796.2	744.0
868.9	82.5°	730.9	496.0	341.2	369.2	438.2	574.3	710.4	732.8	635.8	550.0
341.2	85°	281.6	212.6	210.7	221.9	255.4	380.4	537.0	555.6	479.2	406.5
95.1	87.5°	72.7	63.4	78.3	74.6	117.5	203.2	307.7	318.8	292.7	169.7
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>
5151.8
4915.0
4555.2
4227.0
4029.3
3973.4
4018.2
4081.6
4081.6
3988.3
3814.9
3587.4
3324.5
3033.7
2778.2
2662.6
2492.9
2261.7
2071.5
1944.8
1851.5
1797.4
1663.2
1599.8
1523.4
1448.8
1361.1
1267.9
1174.7
1066.5
969.6
913.6
691.8
550.0
419.5
242.4
0.0

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