

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: P956215

Luminaire Tested: **GALN-SB8D-940-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-940-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

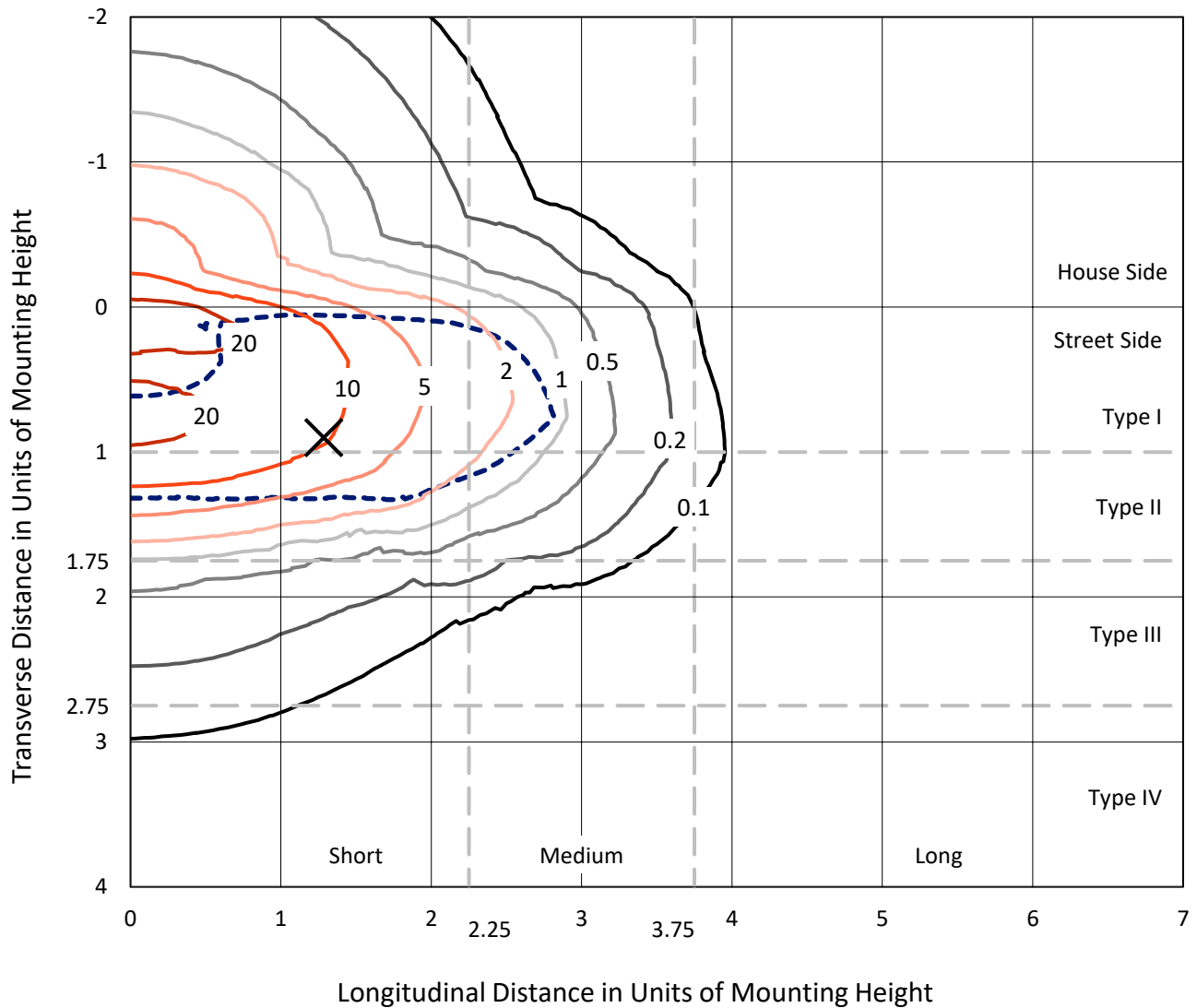
Lumens per Lamp: N/A  
Luminaire Lumens: 60642 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

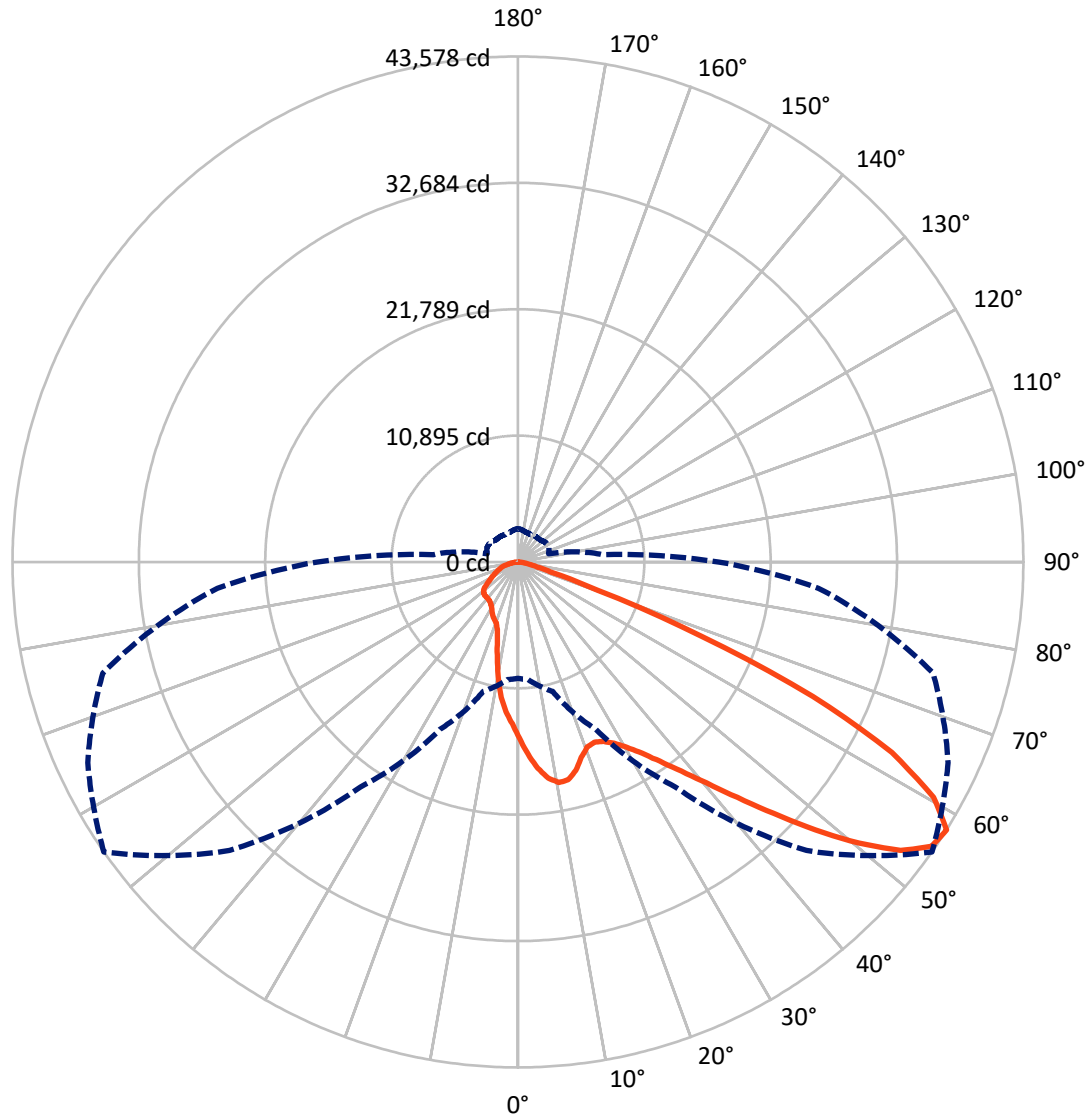
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10972.9	0.0	10972.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	49669.1	0.0	49669.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	60642.0	0.0	60642.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1410.0	2.3
10°-20°	3558.9	5.9
20°-30°	5679.0	9.4
30°-40°	8991.3	14.8
40°-50°	13762.0	22.7
50°-60°	14740.4	24.3
60°-70°	9273.3	15.3
70°-80°	2742.3	4.5
80°-90°	484.9	0.8
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°	60642.0	100.0
0°-180°	60642.0	100.0



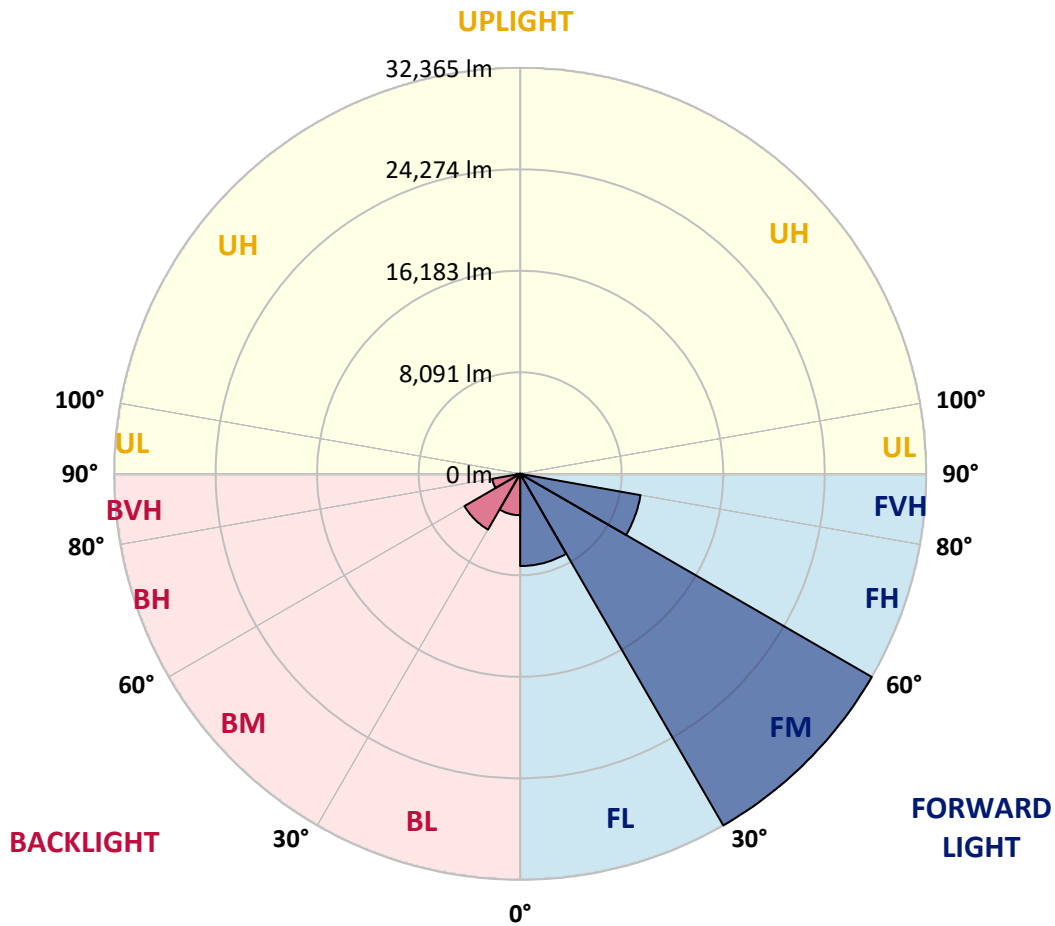
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7349.8	12.1			
FM (30°-60°)	32365.1	53.4			
FH (60°-80°)	9749.4	16.1			G4/12000
FVH (80°-90°)	204.9	0.3			G2/225
BL (0°-30°)	3298.1	5.4	B4/5000		
BM (30°-60°)	5128.6	8.5	B4/8500		
BH (60°-80°)	2266.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	280.0	0.5			G3/500
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15194.9	15194.9	15194.9	15194.9	15194.9	15194.9	15194.9	15194.9	15194.9	15194.9
2.5°	17433.2	17420.7	17489.7	17254.6	17094.7	16878.4	16593.1	16229.4	15837.6	15423.8
5°	19003.8	18894.1	18966.2	18790.7	18615.1	18289.1	17865.9	17273.4	16549.2	15724.7
7.5°	18756.2	18680.9	18865.9	19022.6	19154.3	19113.6	18803.2	18182.5	17248.3	16050.7
10°	16759.2	16674.6	16934.8	17477.1	18273.4	18966.2	19342.4	18956.8	17963.0	16408.1
12.5°	14997.4	14956.7	15129.1	15568.0	16452.0	17781.2	19273.4	19634.0	18706.0	16831.3
15°	14245.0	14194.9	14304.6	14527.2	15091.5	16329.8	18646.5	20097.9	19436.5	17320.4
17.5°	14078.9	14022.5	14069.5	14185.5	14549.1	15492.7	17699.7	20326.8	20198.2	17865.9
20°	14386.1	14339.1	14345.4	14339.1	14593.0	15342.3	17041.4	20239.0	20862.8	18367.4
22.5°	15129.1	15050.7	15053.8	14887.7	15025.6	15605.6	16869.0	20003.9	21455.3	18806.3
25°	16339.2	16198.1	16226.3	15803.1	15765.5	16195.0	17138.6	19822.0	22044.7	19157.4
27.5°	17994.4	17834.5	17749.9	17119.8	16818.8	17032.0	17687.2	19884.7	22602.7	19461.5
30°	20063.4	19869.1	19696.6	18803.2	18257.7	18179.4	18539.9	20298.6	23261.0	19781.3
32.5°	22599.6	22373.9	22060.4	20875.4	20107.3	19696.6	19643.4	21035.3	24032.2	20188.8
35°	25618.5	25323.8	24878.7	23345.7	22373.9	21533.7	21098.0	22098.0	25088.7	20803.3
37.5°	28728.3	28396.0	27988.5	26164.0	24969.6	23731.3	22872.3	23540.1	26496.3	21637.2
40°	31596.8	31223.7	30844.4	29220.5	27938.3	26446.1	25044.8	25364.6	28217.3	22634.1
42.5°	33289.6	33013.8	32869.5	31991.8	31001.1	29487.0	27747.1	27527.7	30151.6	23781.4
45°	33214.4	33101.5	33546.7	33910.3	33675.2	32835.1	30913.4	29919.6	32092.1	24775.2
47.5°	31440.0	31515.3	32509.0	34553.0	35452.7	35891.6	34518.5	32267.6	33778.7	25518.2
50°	26612.3	26675.0	28976.0	33383.7	35910.4	38383.9	38095.4	34559.3	35085.9	25972.7
52.5°	22790.8	22831.6	23819.1	29916.5	34399.4	39637.8	41318.1	36719.2	36042.1	26098.1
55°	17166.8	17307.8	18414.5	23471.1	30468.2	38644.1	43280.6	38945.0	36647.1	26110.7
57.5°	10028.6	10182.2	11549.0	15931.6	23681.1	35180.0	43578.4	40920.0	37057.8	26010.4
60°	4912.4	4978.2	5573.9	8373.3	14602.4	28505.8	41183.3	41876.1	37286.6	25957.1
62.5°	3310.5	3301.1	3326.1	4131.8	7194.6	18314.2	36192.6	40202.1	37164.4	25753.3
65°	2846.5	2812.0	2718.0	2899.8	3727.4	8376.5	27963.4	35205.1	36233.3	25242.3
67.5°	2460.9	2464.0	2467.2	2410.7	2661.5	3865.3	17088.4	27731.4	32891.5	22822.2
70°	2037.7	2065.9	2078.4	2078.4	2169.4	2536.1	7294.9	19007.0	25944.5	17894.1
72.5°	1855.9	1796.3	1802.6	1771.2	1771.2	1931.1	2937.4	10774.7	16345.4	10066.2
75°	1514.2	1551.8	1558.1	1536.1	1464.0	1473.4	1743.0	4520.5	6994.0	4175.7
77.5°	1307.3	1307.3	1319.8	1304.1	1247.7	1103.5	1163.1	1752.4	2379.4	1711.7
80°	1050.2	1047.1	1100.4	1131.7	1043.9	815.1	743.0	968.7	1056.5	752.4
82.5°	511.0	542.3	755.5	862.1	793.1	589.4	454.6	601.9	564.3	332.3
85°	297.8	282.1	338.6	479.6	454.6	326.0	219.4	313.5	294.7	169.3
87.5°	94.0	87.8	69.0	163.0	131.7	90.9	59.6	90.9	81.5	37.6
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
15194.9	0°	15194.9	15194.9	15194.9	15194.9	15194.9	15194.9	15194.9	15194.9	15194.9	15194.9
15245.1	2.5°	15022.5	14652.6	14285.8	13950.4	13746.6	13614.9	13483.3	13335.9	13279.5	13194.8
15285.8	5°	14872.0	14157.3	13520.9	12972.3	12473.8	12081.9	11687.0	11367.2	11223.0	11320.2
15414.4	7.5°	14784.2	13749.7	12768.5	11762.2	10793.5	10019.2	9345.2	8871.8	8658.6	8711.9
15539.8	10°	14705.9	13288.9	11793.5	10204.1	8812.2	7853.0	7163.3	6802.8	6668.0	6696.2
15709.0	12.5°	14633.8	12771.6	10617.9	8527.0	7047.3	6414.0	6216.5	6219.7	6244.7	6263.6
15978.6	15°	14621.2	12147.8	9304.4	7059.8	6094.3	6053.5	6266.7	6401.5	6473.6	6495.5
16204.4	17.5°	14602.4	11401.7	7965.8	6059.8	5862.3	6138.2	6335.7	6423.4	6479.9	6483.0
16423.8	20°	14527.2	10454.9	6730.7	5583.3	5812.1	6050.4	6172.6	6241.6	6288.6	6304.3
16590.0	22.5°	14295.2	9401.6	5768.2	5370.1	5611.5	5802.7	5946.9	6025.3	6053.5	6072.3
16621.3	25°	13878.3	8222.9	5103.6	5166.3	5332.5	5573.9	5689.9	5705.5	5696.1	5724.3
16542.9	27.5°	13332.8	6959.5	4689.8	4890.5	5103.6	5310.5	5373.2	5363.8	5345.0	5376.4
16408.1	30°	12674.4	5824.7	4426.5	4580.1	4871.7	5059.7	5116.2	5094.2	5056.6	5091.1
16339.2	32.5°	11978.5	4896.7	4210.2	4363.8	4680.4	4865.4	4921.8	4899.9	4871.7	4899.9
16417.5	35°	11329.6	4247.8	4009.6	4219.6	4529.9	4711.8	4783.9	4787.0	4787.0	4821.5
16624.4	37.5°	10733.9	3868.5	3843.4	4128.7	4426.5	4589.5	4693.0	4699.2	4564.4	4573.8
16975.5	40°	10182.2	3708.6	3768.2	4069.1	4326.2	4482.9	4489.2	4138.1	3890.4	3884.2
17376.8	42.5°	9730.8	3677.3	3790.1	4062.8	4254.1	4260.3	3818.3	3545.6	3476.6	3479.8
17746.7	45°	9307.6	3667.8	3840.3	4062.8	4147.5	3680.4	3382.6	3310.5	3316.7	3341.8
17912.9	47.5°	8834.2	3630.2	3849.7	4006.4	3840.3	3272.8	3185.1	3153.7	3141.2	3147.5
17875.3	50°	8316.9	3495.4	3730.5	3893.6	3313.6	3097.3	2987.6	2978.2	2993.8	3003.2
17665.2	52.5°	7771.4	3276.0	3526.8	3689.8	3072.2	2943.7	2821.4	2843.4	2912.3	2934.3
17445.8	55°	7414.1	3018.9	3257.2	3282.3	2902.9	2799.5	2696.0	2746.2	2874.7	2915.5
17314.1	57.5°	7320.0	2746.2	2950.0	2921.7	2686.6	2674.1	2611.4	2655.3	2818.3	2877.8
17307.8	60°	7291.8	2501.7	2649.0	2627.1	2476.6	2536.1	2520.5	2542.4	2598.8	2617.7
17245.1	62.5°	7072.4	2307.3	2379.4	2348.0	2288.5	2391.9	2429.6	2382.5	2426.4	2448.4
16815.7	65°	6514.3	2150.5	2116.1	2094.1	2119.2	2213.2	2288.5	2194.4	2235.2	2297.9
15160.4	67.5°	5592.7	1937.4	1843.3	1868.4	1946.8	1996.9	2094.1	1987.5	2022.0	2128.6
12210.5	70°	4523.7	1667.8	1583.1	1655.2	1730.5	1833.9	1849.6	1777.5	1859.0	1978.1
7451.7	72.5°	3200.7	1395.0	1335.5	1482.8	1507.9	1642.7	1608.2	1573.7	1686.6	1727.3
3683.5	75°	2219.5	1125.4	1090.9	1203.8	1294.7	1410.7	1385.6	1426.4	1664.6	1683.4
1840.2	77.5°	1404.4	874.6	852.7	924.8	1050.2	1178.7	1219.5	1683.4	2843.4	2956.2
956.1	80°	815.1	652.1	627.0	683.4	793.1	912.3	1175.6	2065.9	1874.7	1852.7
429.5	82.5°	454.6	448.3	416.9	432.6	529.8	658.3	1661.5	1454.6	1181.9	1219.5
172.4	85°	213.2	263.3	225.7	216.3	297.8	771.2	1109.8	830.8	551.7	539.2
37.6	87.5°	56.4	50.2	50.2	56.4	125.4	664.6	442.0	354.2	210.0	203.8
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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