

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: P957475

Luminaire Tested: **GALN-SB9D-827-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957475  
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-SB9D-827-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

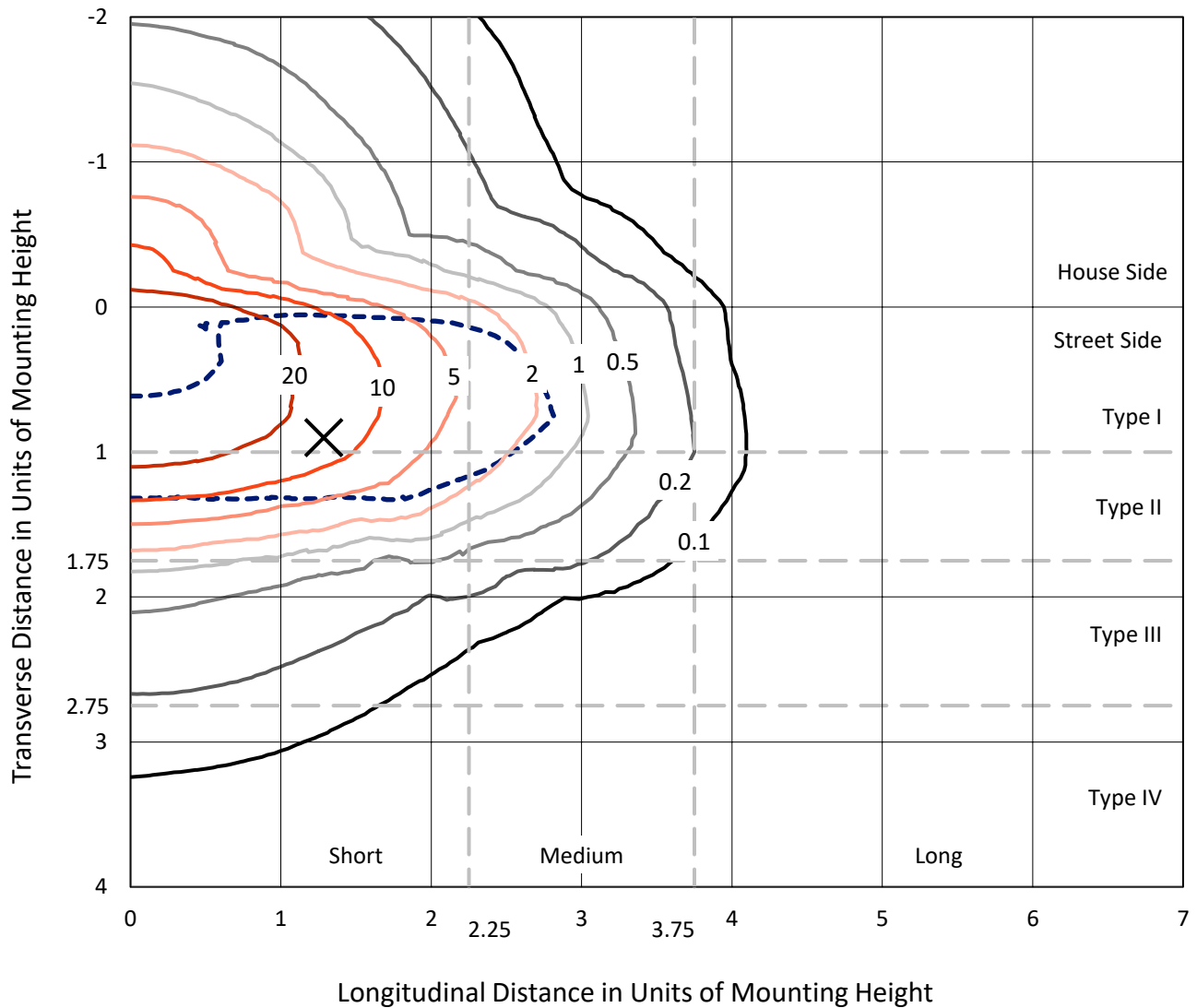
Lumens per Lamp: N/A  
Luminaire Lumens: 81970 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

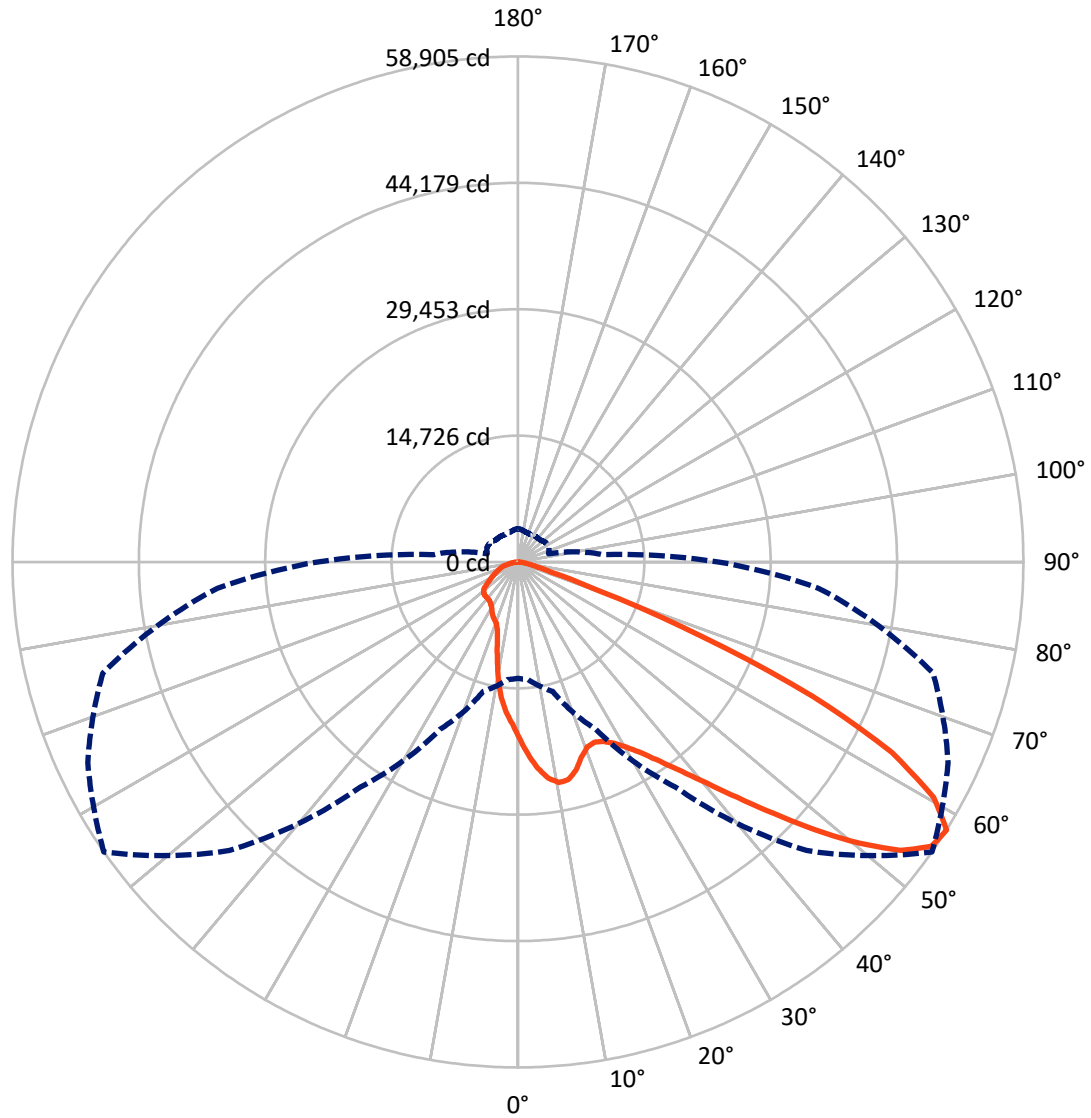
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 39.7 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	14832.1	0.0	14832.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	67137.9	0.0	67137.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	81970.0	0.0	81970.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1905.9	2.3
10°-20°	4810.6	5.9
20°-30°	7676.3	9.4
30°-40°	12153.5	14.8
40°-50°	18602.2	22.7
50°-60°	19924.7	24.3
60°-70°	12534.7	15.3
70°-80°	3706.8	4.5
80°-90°	655.4	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°	81970.0	100.0
0°-180°	81970.0	100.0

**Coefficient of Utilization**

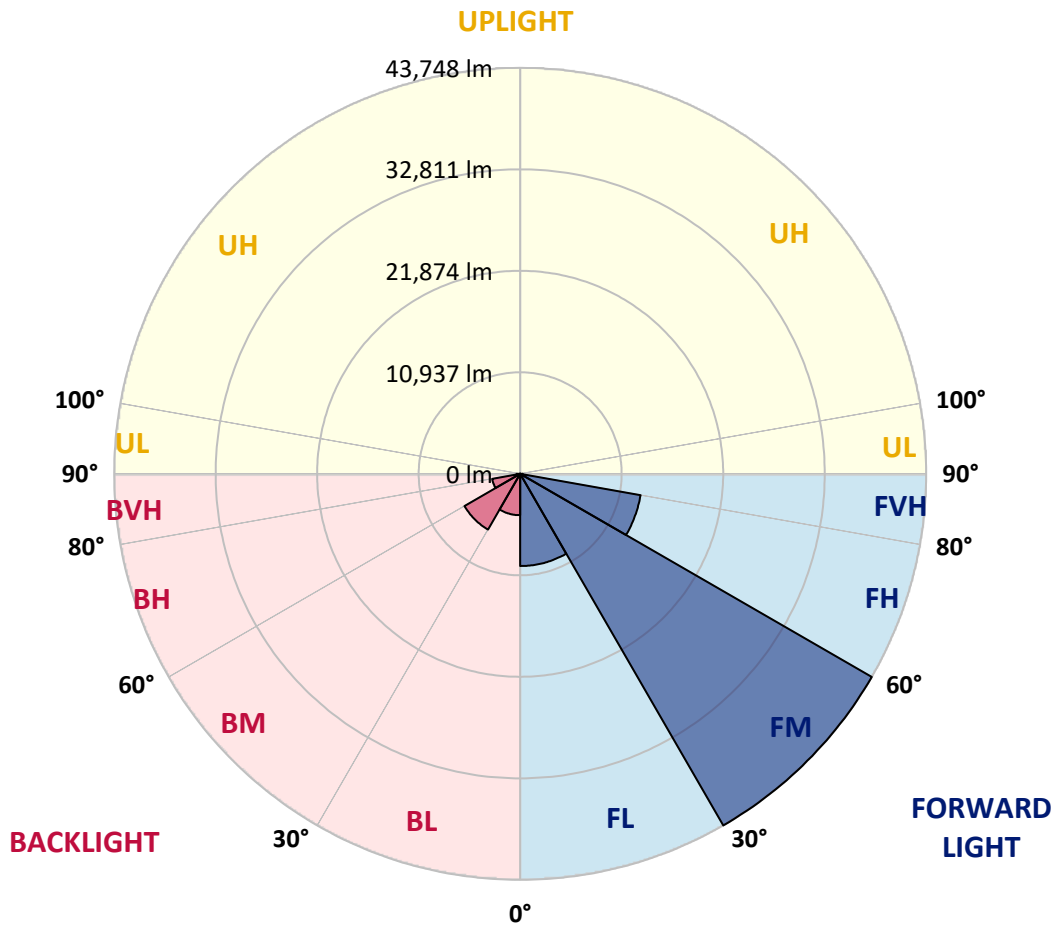


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9934.8	12.1			
FM (30°-60°)	43748.0	53.4			
FH (60°-80°)	13178.3	16.1			G5
FVH (80°-90°)	276.9	0.3			G3/500
BL (0°-30°)	4458.0	5.4	B4/5000		
BM (30°-60°)	6932.4	8.5	B4/8500		
BH (60°-80°)	3063.2	3.7	B4/5000		G4/5000
BVH (80°-90°)	378.5	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-G5**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20539.0	20539.0	20539.0	20539.0	20539.0	20539.0	20539.0	20539.0	20539.0	20539.0
2.5°	23564.6	23547.6	23640.8	23323.0	23106.9	22814.5	22428.9	21937.4	21407.7	20848.4
5°	25687.5	25539.2	25636.7	25399.4	25162.1	24721.4	24149.3	23348.5	22369.6	21255.2
7.5°	25352.8	25251.1	25501.1	25713.0	25890.9	25835.9	25416.4	24577.3	23314.6	21695.9
10°	22653.5	22539.1	22890.8	23623.9	24700.2	25636.7	26145.2	25624.0	24280.7	22178.9
12.5°	20272.1	20217.0	20450.0	21043.3	22238.2	24034.9	26052.0	26539.3	25285.0	22751.0
15°	19255.1	19187.3	19335.6	19636.4	20399.2	22073.0	25204.5	27166.4	26272.3	23412.0
17.5°	19030.5	18954.2	19017.8	19174.6	19666.1	20941.6	23924.8	27475.8	27302.0	24149.3
20°	19445.8	19382.2	19390.7	19382.2	19725.4	20738.2	23034.9	27357.1	28200.4	24827.3
22.5°	20450.0	20344.1	20348.3	20123.7	20310.2	21094.1	22801.8	27039.3	29001.3	25420.6
25°	22085.7	21895.0	21933.1	21361.1	21310.2	21890.8	23166.3	26793.5	29797.9	25895.2
27.5°	24323.1	24107.0	23992.6	23140.8	22734.0	23022.2	23907.8	26878.3	30552.2	26306.2
30°	27119.8	26857.1	26624.0	25416.4	24679.0	24573.1	25060.4	27437.6	31442.0	26738.4
32.5°	30547.9	30242.8	29819.1	28217.3	27179.1	26624.0	26552.0	28433.4	32484.5	27289.3
35°	34628.6	34230.3	33628.6	31556.4	30242.8	29107.2	28518.2	29869.9	33912.5	28119.9
37.5°	38832.2	38383.0	37832.1	35365.9	33751.5	32077.7	30916.6	31819.2	35815.1	29247.0
40°	42709.5	42205.2	41692.5	39497.5	37764.3	35747.3	33853.2	34285.4	38141.5	30594.5
42.5°	44997.7	44624.8	44429.9	43243.4	41904.3	39857.7	37505.9	37209.2	40756.0	32145.5
45°	44896.0	44743.5	45345.2	45836.7	45518.9	44383.3	41785.7	40442.4	43379.0	33488.7
47.5°	42497.6	42599.3	43942.6	46705.4	47921.6	48514.8	46658.8	43616.3	45658.7	34493.0
50°	35971.9	36056.6	39166.9	45124.8	48540.2	51883.6	51493.7	46713.9	47425.8	35107.4
52.5°	30806.4	30861.5	32196.3	40438.2	46497.8	53578.6	55849.9	49633.5	48718.2	35276.9
55°	23204.4	23395.1	24890.9	31725.9	41184.0	52235.3	58502.5	52642.1	49536.0	35293.9
57.5°	13555.7	13763.3	15610.8	21534.8	32009.9	47552.9	58905.1	55311.7	50091.1	35158.3
60°	6640.1	6729.1	7534.2	11318.3	19738.1	38531.3	55667.7	56604.1	50400.5	35086.3
62.5°	4474.8	4462.1	4496.0	5585.0	9725.0	24755.3	48921.6	54341.3	50235.2	34810.8
65°	3847.6	3801.0	3673.9	3919.7	5038.4	11322.5	37798.2	47586.8	48976.7	34120.1
67.5°	3326.4	3330.7	3334.9	3258.6	3597.6	5224.8	23098.5	37484.7	44459.5	30848.8
70°	2754.4	2792.5	2809.4	2809.4	2932.3	3428.1	9860.6	25691.8	35069.3	24187.5
72.5°	2508.6	2428.1	2436.5	2394.2	2394.2	2610.3	3970.5	14564.2	22094.2	13606.5
75°	2046.7	2097.5	2106.0	2076.4	1978.9	1991.6	2356.0	6110.4	9453.8	5644.3
77.5°	1767.0	1767.0	1784.0	1762.8	1686.5	1491.6	1572.1	2368.7	3216.2	2313.7
80°	1419.6	1415.3	1487.4	1529.7	1411.1	1101.7	1004.3	1309.4	1428.0	1017.0
82.5°	690.7	733.1	1021.2	1165.3	1072.1	796.6	614.4	813.6	762.7	449.2
85°	402.6	381.4	457.6	648.3	614.4	440.7	296.6	423.7	398.3	228.8
87.5°	127.1	118.6	93.2	220.3	178.0	122.9	80.5	122.9	110.2	50.8
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
20539.0	0°	20539.0	20539.0	20539.0	20539.0	20539.0	20539.0	20539.0	20539.0	20539.0	20539.0
20606.8	2.5°	20306.0	19805.9	19310.2	18856.7	18581.3	18403.3	18225.4	18026.2	17949.9	17835.5
20661.9	5°	20102.6	19136.4	18276.2	17534.7	16860.9	16331.2	15797.3	15365.1	15170.1	15301.5
20835.6	7.5°	19983.9	18585.5	17259.2	15899.0	14589.6	13543.0	12631.9	11992.0	11703.9	11775.9
21005.1	10°	19878.0	17962.6	15941.4	13793.0	11911.5	10614.9	9682.6	9195.3	9013.1	9051.2
21234.0	12.5°	19780.5	17263.5	14352.3	11525.9	9525.8	8669.9	8402.9	8407.1	8441.0	8466.5
21598.4	15°	19763.6	16420.2	12576.8	9542.8	8237.6	8182.6	8470.7	8652.9	8750.4	8780.0
21903.5	17.5°	19738.1	15411.7	10767.4	8191.0	7924.1	8297.0	8563.9	8682.6	8758.9	8763.1
22200.1	20°	19636.4	14132.0	9097.8	7546.9	7856.3	8178.3	8343.6	8436.8	8500.4	8521.6
22424.7	22.5°	19322.9	12708.2	7796.9	7258.8	7585.1	7843.6	8038.5	8144.4	8182.6	8208.0
22467.1	25°	18759.3	11114.9	6898.6	6983.4	7207.9	7534.2	7691.0	7712.2	7699.5	7737.6
22361.1	27.5°	18022.0	9407.2	6339.3	6610.5	6898.6	7178.3	7263.0	7250.3	7224.9	7267.3
22178.9	30°	17132.1	7873.2	5983.3	6190.9	6585.0	6839.3	6915.6	6885.9	6835.0	6881.7
22085.7	32.5°	16191.4	6618.9	5690.9	5898.6	6326.5	6576.6	6652.8	6623.2	6585.0	6623.2
22191.6	35°	15314.2	5741.8	5419.7	5703.6	6123.1	6368.9	6466.4	6470.6	6470.6	6517.2
22471.3	37.5°	14509.1	5229.0	5195.1	5580.7	5983.3	6203.7	6343.5	6352.0	6169.8	6182.5
22945.9	40°	13763.3	5012.9	5093.4	5500.2	5847.7	6059.6	6068.1	5593.5	5258.7	5250.2
23488.3	42.5°	13153.1	4970.6	5123.1	5491.8	5750.2	5758.7	5161.2	4792.6	4699.4	4703.6
23988.3	45°	12581.1	4957.8	5190.9	5491.8	5606.2	4974.8	4572.2	4474.8	4483.2	4517.1
24212.9	47.5°	11941.2	4907.0	5203.6	5415.5	5190.9	4423.9	4305.3	4262.9	4245.9	4254.4
24162.1	50°	11242.0	4724.8	5042.6	5262.9	4479.0	4186.6	4038.3	4025.6	4046.8	4059.5
23878.1	52.5°	10504.7	4428.2	4767.2	4987.5	4152.7	3979.0	3813.7	3843.4	3936.6	3966.3
23581.5	55°	10021.6	4080.7	4402.7	4436.6	3923.9	3784.1	3644.2	3712.0	3885.8	3940.8
23403.6	57.5°	9894.5	3712.0	3987.5	3949.3	3631.5	3614.6	3529.8	3589.1	3809.5	3890.0
23395.1	60°	9856.4	3381.5	3580.7	3551.0	3347.6	3428.1	3406.9	3436.6	3512.9	3538.3
23310.3	62.5°	9559.7	3118.8	3216.2	3173.9	3093.4	3233.2	3284.0	3220.5	3279.8	3309.5
22729.8	65°	8805.5	2906.9	2860.3	2830.6	2864.5	2991.7	3093.4	2966.2	3021.3	3106.1
20492.4	67.5°	7559.6	2618.8	2491.6	2525.5	2631.5	2699.3	2830.6	2686.6	2733.2	2877.2
16504.9	70°	6114.7	2254.3	2139.9	2237.4	2339.1	2478.9	2500.1	2402.6	2512.8	2673.8
10072.5	72.5°	4326.5	1885.7	1805.2	2004.3	2038.2	2220.4	2173.8	2127.2	2279.8	2334.8
4979.0	75°	3000.1	1521.3	1474.6	1627.2	1750.1	1906.9	1873.0	1928.0	2250.1	2275.5
2487.4	77.5°	1898.4	1182.3	1152.6	1250.1	1419.6	1593.3	1648.4	2275.5	3843.4	3995.9
1292.4	80°	1101.7	881.4	847.5	923.8	1072.1	1233.1	1589.1	2792.5	2534.0	2504.3
580.5	82.5°	614.4	606.0	563.6	584.8	716.1	889.9	2245.9	1966.2	1597.5	1648.4
233.1	85°	288.1	355.9	305.1	292.4	402.6	1042.4	1500.1	1122.9	745.8	728.8
50.8	87.5°	76.3	67.8	67.8	76.3	169.5	898.3	597.5	478.8	283.9	275.4
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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