

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: P955963

Luminaire Tested: **GALN-SB8D-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955963
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-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 83686 lumens
Efficiency: N/A
Efficacy: 143.1 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

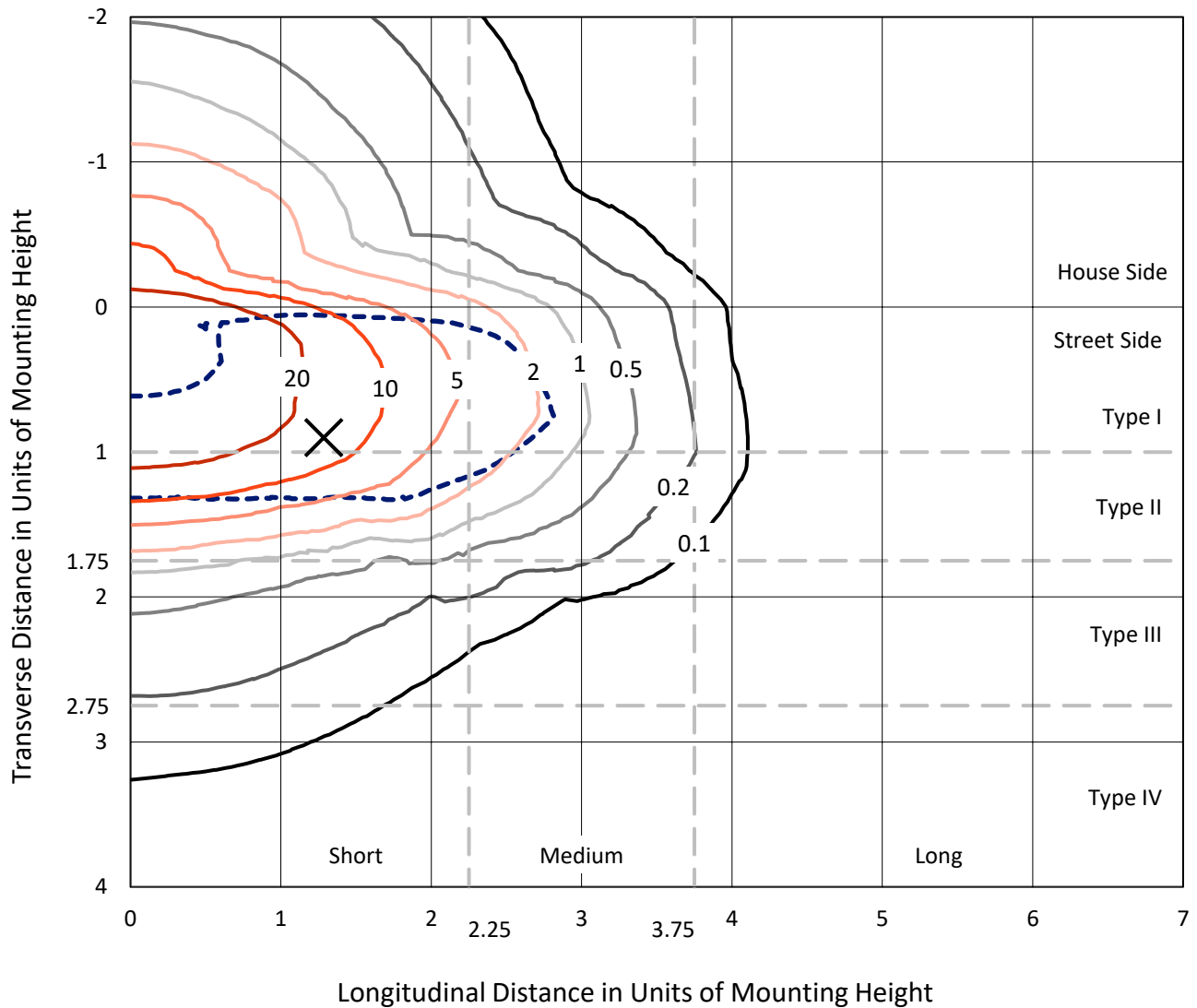
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955963
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Iso-Footcandle Lines of Horizontal Illumination

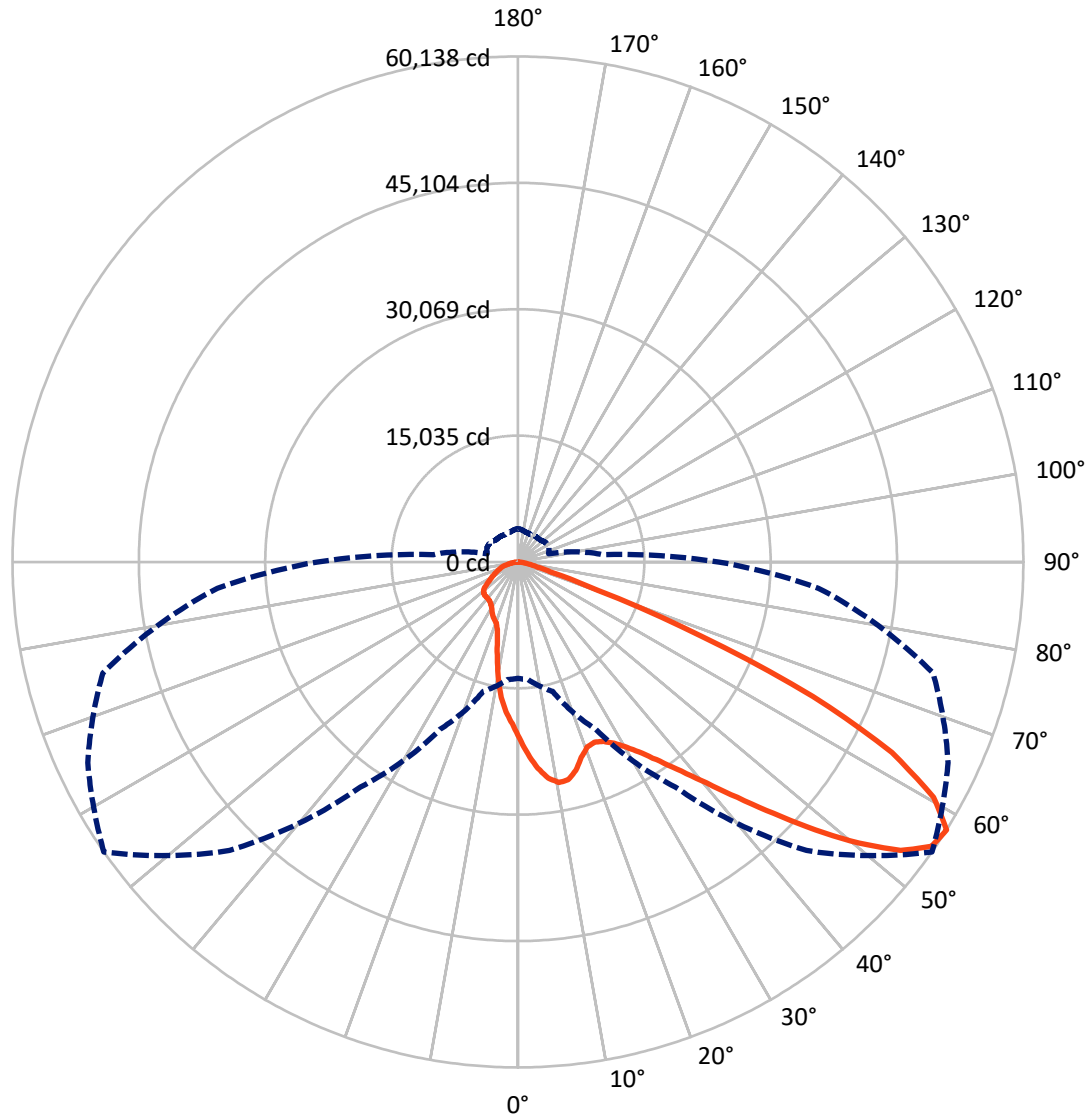
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 40.5 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SB8D-735-U-AFL

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
House Side	Lumens	15142.6	0.0	15142.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	68543.4	0.0	68543.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	83686.0	0.0	83686.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1945.8	2.3
10°-20°	4911.3	5.9
20°-30°	7837.0	9.4
30°-40°	12407.9	14.8
40°-50°	18991.6	22.7
50°-60°	20341.8	24.3
60°-70°	12797.1	15.3
70°-80°	3784.4	4.5
80°-90°	669.1	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°	83686.0	100.0
0°-180°	83686.0	100.0



REPORT NUMBER: P955963

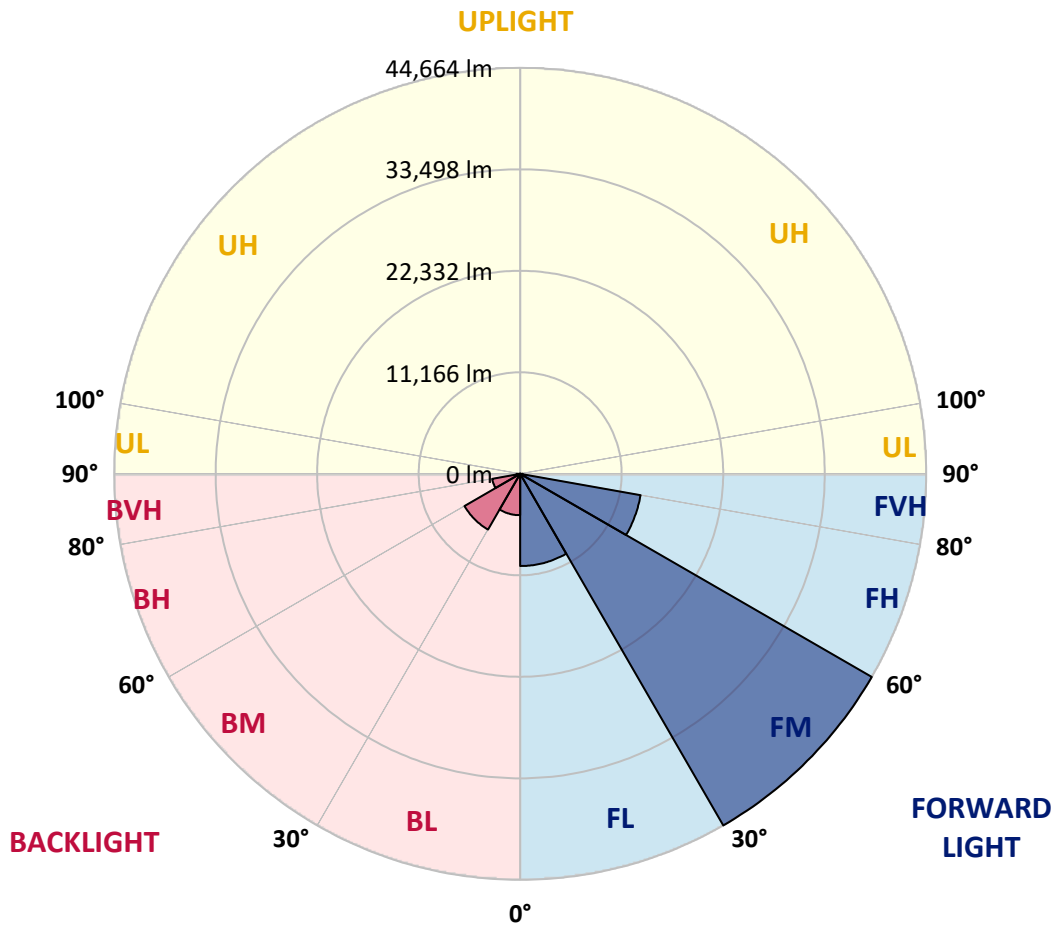
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10142.7	12.1			
FM (30°-60°)	44663.8	53.4			
FH (60°-80°)	13454.2	16.1			G5
FVH (80°-90°)	282.7	0.3			G3/500
BL (0°-30°)	4551.3	5.4	B4/5000		
BM (30°-60°)	7077.5	8.5	B4/8500		
BH (60°-80°)	3127.3	3.7	B4/5000		G4/5000
BVH (80°-90°)	386.4	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



REPORT NUMBER: P955963
 CATALOG NUMBER: GALN-SB8D-735-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20969.0	20969.0	20969.0	20969.0	20969.0	20969.0	20969.0	20969.0	20969.0	20969.0
2.5°	24057.9	24040.6	24135.8	23811.3	23590.7	23292.2	22898.5	22396.6	21855.9	21284.8
5°	26225.3	26073.9	26173.4	25931.1	25688.9	25238.9	24654.9	23837.3	22837.9	21700.1
7.5°	25883.5	25779.7	26035.0	26251.3	26433.0	26376.7	25948.4	25091.8	23802.6	22150.0
10°	23127.8	23011.0	23370.0	24118.5	25217.3	26173.4	26692.5	26160.4	24789.0	22643.2
12.5°	20696.4	20640.2	20878.1	21483.8	22703.8	24538.1	26597.4	27094.9	25814.3	23227.3
15°	19658.2	19588.9	19740.4	20047.5	20826.2	22535.1	25732.1	27735.1	26822.3	23902.1
17.5°	19428.9	19351.0	19415.9	19576.0	20077.8	21380.0	24425.6	28051.0	27873.6	24654.9
20°	19852.8	19787.9	19796.6	19787.9	20138.4	21172.3	23517.1	27929.8	28790.7	25347.1
22.5°	20878.1	20770.0	20774.3	20545.0	20735.4	21535.7	23279.2	27605.4	29608.4	25952.8
25°	22548.1	22353.4	22392.3	21808.3	21756.4	22349.0	23651.2	27354.4	30421.7	26437.3
27.5°	24832.3	24611.6	24494.8	23625.3	23210.0	23504.1	24408.3	27441.0	31191.8	26856.9
30°	27687.6	27419.3	27181.4	25948.4	25195.7	25087.5	25585.0	28012.0	32100.3	27298.2
32.5°	31187.4	30875.9	30443.3	28808.0	27748.1	27181.4	27107.8	29028.7	33164.5	27860.6
35°	35353.5	34946.9	34332.6	32217.1	30875.9	29716.5	29115.2	30495.2	34622.4	28708.5
37.5°	39645.1	39186.5	38624.1	36106.3	34458.0	32749.2	31563.8	32485.3	36564.9	29859.3
40°	43603.6	43088.8	42565.3	40324.3	38554.9	36495.7	34561.9	35003.1	38939.9	31235.0
42.5°	45939.7	45559.0	45360.0	44148.7	42781.6	40692.1	38291.0	37988.2	41609.2	32818.4
45°	45835.9	45680.1	46294.5	46796.3	46471.8	45312.4	42660.5	41289.1	44287.1	34189.8
47.5°	43387.3	43491.1	44862.5	47683.2	48924.8	49530.4	47635.6	44529.4	46614.6	35215.1
50°	36724.9	36811.5	39986.9	46069.5	49556.4	52969.7	52571.7	47691.8	48418.6	35842.4
52.5°	31451.3	31507.6	32870.3	41284.7	47471.2	54700.2	57019.1	50672.5	49738.1	36015.4
55°	23690.2	23884.8	25412.0	32390.1	42046.1	53328.8	59727.2	53744.1	50573.0	36032.8
57.5°	13839.5	14051.4	15937.6	21985.6	32680.0	48548.4	60138.2	56469.6	51139.8	35894.3
60°	6779.1	6870.0	7691.9	11555.2	20151.3	39338.0	56833.0	57789.1	51455.6	35820.8
62.5°	4568.4	4555.5	4590.1	5701.9	9928.6	25273.5	49945.7	55478.9	51286.9	35539.6
65°	3928.2	3880.6	3750.8	4001.7	5143.8	11559.6	38589.5	48583.0	50002.0	34834.4
67.5°	3396.1	3400.4	3404.7	3326.8	3672.9	5334.2	23582.0	38269.4	45390.3	31494.6
70°	2812.0	2851.0	2868.3	2868.3	2993.7	3499.9	10067.0	26229.6	35803.5	24693.8
72.5°	2561.1	2478.9	2487.6	2444.3	2444.3	2664.9	4053.6	14869.1	22556.7	13891.4
75°	2089.5	2141.5	2150.1	2119.8	2020.3	2033.3	2405.4	6238.4	9651.7	5762.5
77.5°	1804.0	1804.0	1821.3	1799.7	1721.8	1522.8	1605.0	2418.3	3283.6	2362.1
80°	1449.3	1444.9	1518.5	1561.8	1440.6	1124.8	1025.3	1336.8	1457.9	1038.3
82.5°	705.2	748.4	1042.6	1189.7	1094.5	813.3	627.3	830.6	778.7	458.6
85°	411.0	389.4	467.2	661.9	627.3	449.9	302.8	432.6	406.7	233.6
87.5°	129.8	121.1	95.2	225.0	181.7	125.5	82.2	125.5	112.5	51.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955963
 CATALOG NUMBER: GALN-SB8D-735-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
20969.0	0°	20969.0	20969.0	20969.0	20969.0	20969.0	20969.0	20969.0	20969.0	20969.0	20969.0
21038.2	2.5°	20731.1	20220.6	19714.4	19251.5	18970.3	18788.6	18606.9	18403.6	18325.7	18208.9
21094.5	5°	20523.4	19537.0	18658.8	17901.7	17213.9	16673.1	16128.0	15686.7	15487.7	15621.8
21271.8	7.5°	20402.3	18974.6	17620.5	16231.8	14895.0	13826.5	12896.3	12243.1	11948.9	12022.5
21444.9	10°	20294.1	18338.7	16275.1	14081.7	12160.9	10837.1	9885.3	9387.8	9201.8	9240.7
21678.5	12.5°	20194.6	17624.9	14652.8	11767.2	9725.3	8851.4	8578.8	8583.1	8617.8	8643.7
22050.5	15°	20177.3	16763.9	12840.1	9742.6	8410.1	8353.9	8648.0	8834.1	8933.6	8963.8
22362.0	17.5°	20151.3	15734.3	10992.8	8362.5	8090.0	8470.7	8743.2	8864.3	8942.2	8946.5
22664.9	20°	20047.5	14427.8	9288.3	7704.9	8020.7	8349.5	8518.2	8613.4	8678.3	8699.9
22894.1	22.5°	19727.4	12974.2	7960.2	7410.7	7743.9	8007.8	8206.8	8314.9	8353.9	8379.8
22937.4	25°	19152.0	11347.6	7043.0	7129.5	7358.8	7691.9	7852.0	7873.6	7860.7	7899.6
22829.3	27.5°	18399.2	9604.1	6472.0	6748.8	7043.0	7328.5	7415.1	7402.1	7376.1	7419.4
22643.2	30°	17490.7	8038.0	6108.6	6320.5	6722.9	6982.5	7060.3	7030.0	6978.1	7025.7
22548.1	32.5°	16530.3	6757.5	5810.1	6022.0	6459.0	6714.2	6792.1	6761.8	6722.9	6761.8
22656.2	35°	15634.8	5862.0	5533.2	5823.0	6251.3	6502.2	6601.8	6606.1	6606.1	6653.7
22941.7	37.5°	14812.8	5338.5	5303.9	5697.6	6108.6	6333.5	6476.3	6484.9	6298.9	6311.9
23426.3	40°	14051.4	5117.9	5200.1	5615.4	5970.1	6186.4	6195.1	5710.6	5368.8	5360.1
23980.0	42.5°	13428.5	5074.6	5230.4	5606.7	5870.6	5879.3	5269.3	4892.9	4797.7	4802.1
24490.5	45°	12844.4	5061.6	5299.6	5606.7	5723.5	5078.9	4667.9	4568.4	4577.1	4611.7
24719.8	47.5°	12191.2	5009.7	5312.5	5528.9	5299.6	4516.5	4395.4	4352.1	4334.8	4343.5
24667.9	50°	11477.4	4823.7	5148.2	5373.1	4572.8	4274.3	4122.8	4109.9	4131.5	4144.5
24378.0	52.5°	10724.6	4520.9	4867.0	5091.9	4239.7	4062.3	3893.6	3923.8	4019.0	4049.3
24075.2	55°	10231.4	4166.1	4494.9	4529.5	4006.0	3863.3	3720.5	3789.7	3967.1	4023.3
23893.5	57.5°	10101.6	3789.7	4070.9	4032.0	3707.5	3690.2	3603.7	3664.3	3889.2	3971.4
23884.8	60°	10062.7	3452.3	3655.6	3625.3	3417.7	3499.9	3478.2	3508.5	3586.4	3612.4
23798.3	62.5°	9759.9	3184.1	3283.6	3240.3	3158.1	3300.9	3352.8	3287.9	3348.5	3378.7
23205.6	65°	8989.8	2967.8	2920.2	2889.9	2924.5	3054.3	3158.1	3028.3	3084.6	3171.1
20921.4	67.5°	7717.9	2673.6	2543.8	2578.4	2686.6	2755.8	2889.9	2742.8	2790.4	2937.5
16850.5	70°	6242.7	2301.5	2184.7	2284.2	2388.1	2530.8	2552.4	2452.9	2565.4	2729.8
10283.3	72.5°	4417.0	1925.2	1843.0	2046.3	2080.9	2266.9	2219.3	2171.7	2327.5	2383.7
5083.3	75°	3062.9	1553.1	1505.5	1661.3	1786.7	1946.8	1912.2	1968.4	2297.2	2323.2
2539.5	77.5°	1938.1	1207.0	1176.7	1276.2	1449.3	1626.6	1682.9	2323.2	3923.8	4079.6
1319.5	80°	1124.8	899.8	865.2	943.1	1094.5	1258.9	1622.3	2851.0	2587.1	2556.8
592.7	82.5°	627.3	618.6	575.4	597.0	731.1	908.5	2292.9	2007.3	1631.0	1682.9
237.9	85°	294.2	363.4	311.5	298.5	411.0	1064.2	1531.5	1146.4	761.4	744.1
51.9	87.5°	77.9	69.2	69.2	77.9	173.0	917.2	610.0	488.9	289.9	281.2
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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