

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: P957496

Luminaire Tested: **GALN-SB9D-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957496
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-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 84702 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

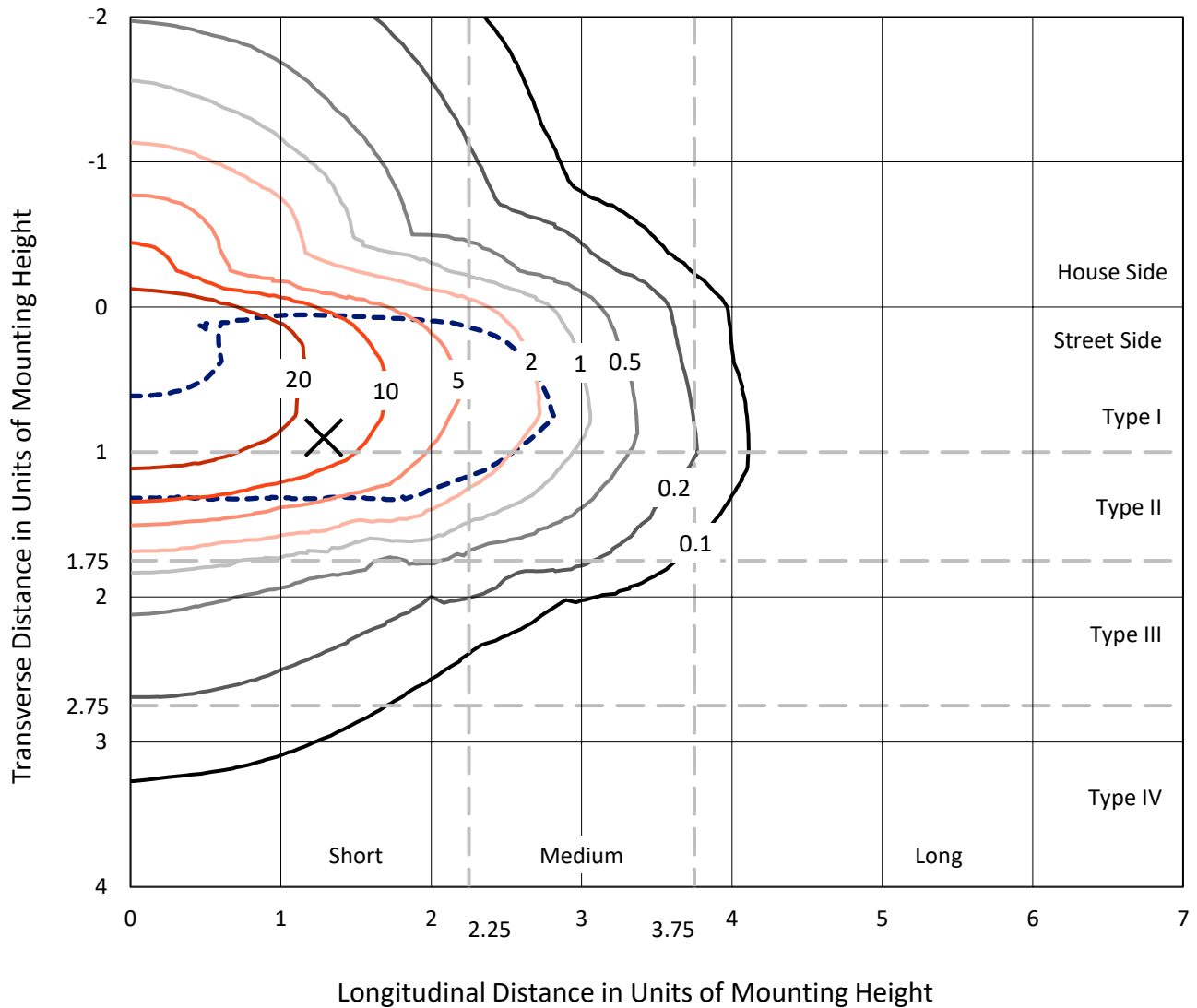
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

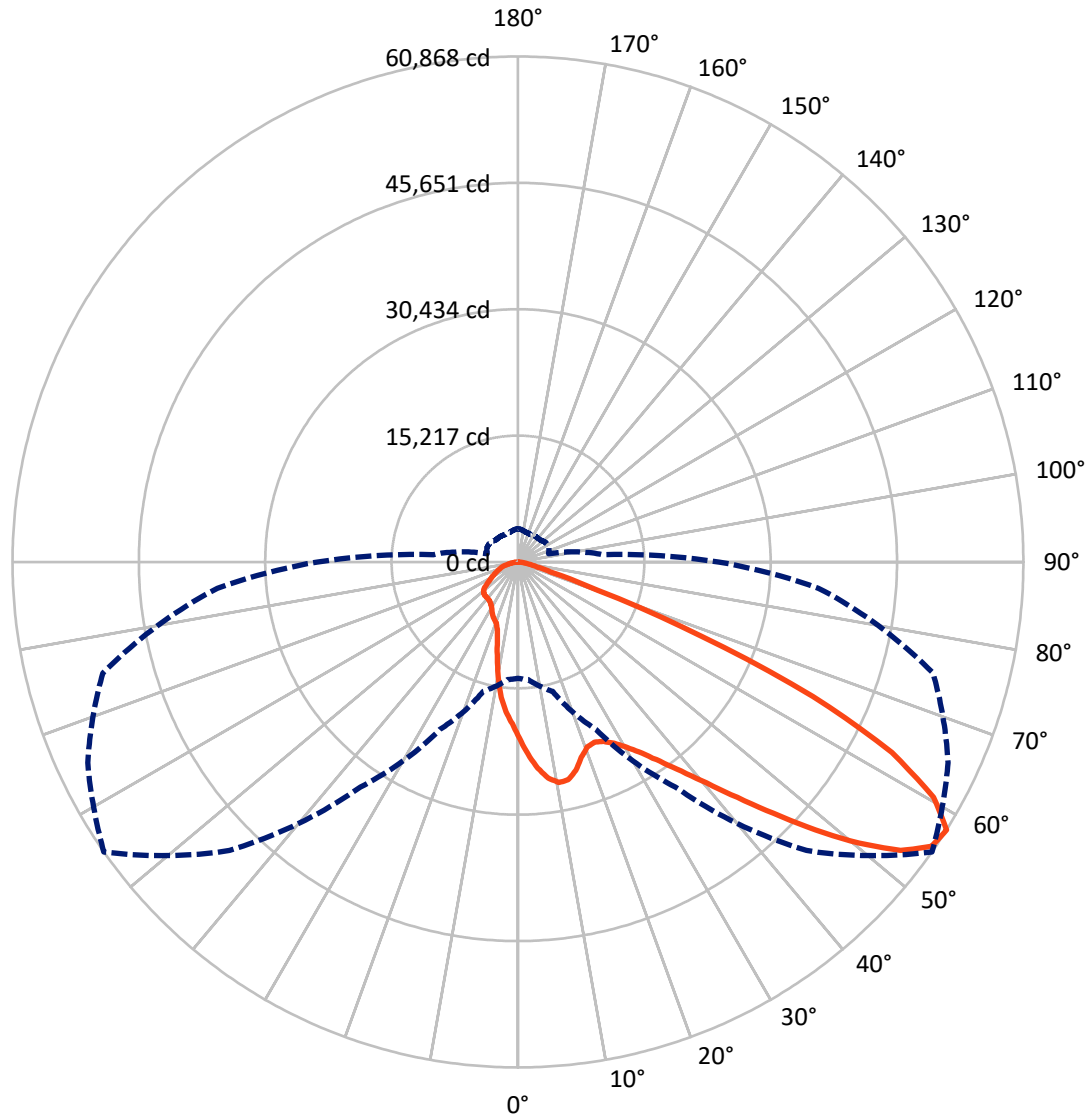
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 41 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
House Side	Lumens	15326.4	0.0	15326.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	69375.6	0.0	69375.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	84702.0	0.0	84702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1969.4	2.3
10°-20°	4970.9	5.9
20°-30°	7932.2	9.4
30°-40°	12558.6	14.8
40°-50°	19222.2	22.7
50°-60°	20588.8	24.3
60°-70°	12952.5	15.3
70°-80°	3830.3	4.5
80°-90°	677.2	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°	84702.0	100.0
0°-180°	84702.0	100.0

Coefficient of Utilization

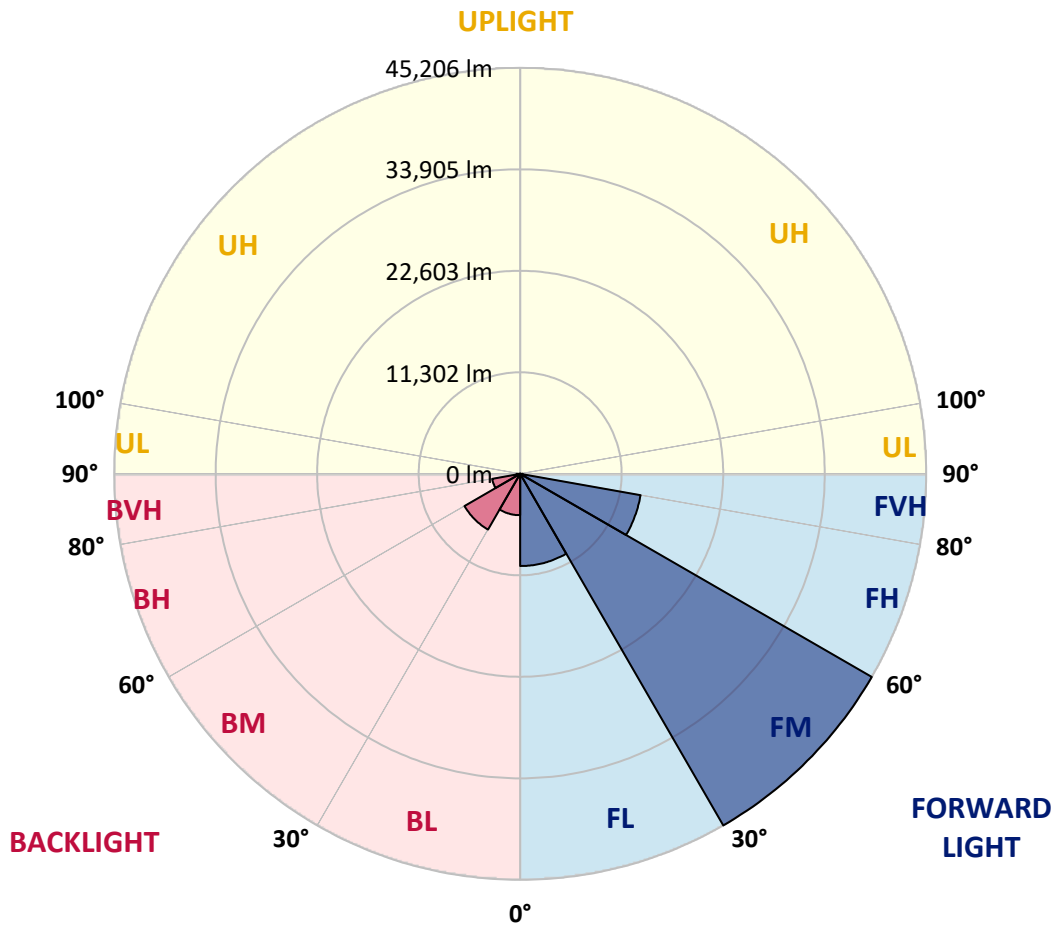


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10265.9	12.1			
FM (30°-60°)	45206.1	53.4			
FH (60°-80°)	13617.5	16.1			G5
FVH (80°-90°)	286.1	0.3			G3/500
BL (0°-30°)	4606.6	5.4	B4/5000		
BM (30°-60°)	7163.4	8.5	B4/8500		
BH (60°-80°)	3165.3	3.7	B4/5000		G4/5000
BVH (80°-90°)	391.1	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°	21223.6	21223.6	21223.6	21223.6	21223.6	21223.6	21223.6	21223.6	21223.6	21223.6
2.5°	24350.0	24332.5	24428.8	24100.4	23877.1	23574.9	23176.5	22668.5	22121.2	21543.2
5°	26543.7	26390.4	26491.2	26245.9	26000.7	25545.4	24954.2	24126.7	23115.2	21963.6
7.5°	26197.8	26092.7	26351.0	26570.0	26753.9	26697.0	26263.5	25396.5	24091.6	22419.0
10°	23408.5	23290.3	23653.8	24411.3	25523.5	26491.2	27016.6	26478.0	25090.0	22918.1
12.5°	20947.7	20890.8	21131.6	21744.6	22979.4	24836.0	26920.3	27423.8	26127.7	23509.3
15°	19896.8	19826.8	19980.0	20290.9	21079.1	22808.7	26044.5	28071.9	27148.0	24192.3
17.5°	19664.8	19585.9	19651.6	19813.6	20321.6	21639.5	24722.2	28391.5	28212.0	24954.2
20°	20093.9	20028.2	20036.9	20028.2	20382.9	21429.4	23802.6	28268.9	29140.3	25654.8
22.5°	21131.6	21022.2	21026.5	20794.5	20987.1	21797.2	23561.8	27940.5	29967.8	26267.8
25°	22821.8	22624.8	22664.2	22073.0	22020.5	22620.4	23938.4	27686.5	30791.0	26758.3
27.5°	25133.8	24910.4	24792.2	23912.1	23491.7	23789.5	24704.6	27774.1	31570.4	27183.0
30°	28023.7	27752.2	27511.4	26263.5	25501.6	25392.1	25895.6	28352.1	32490.0	27629.6
32.5°	31566.1	31250.8	30812.9	29157.8	28085.0	27511.4	27437.0	29381.1	33567.1	28198.8
35°	35782.8	35371.2	34749.4	32608.2	31250.8	30077.3	29468.7	30865.5	35042.8	29057.1
37.5°	40126.4	39662.3	39093.1	36544.7	34876.4	33146.8	31947.0	32879.7	37008.8	30221.8
40°	44132.9	43611.9	43082.1	40813.9	39023.0	36938.7	34981.5	35428.1	39412.7	31614.2
42.5°	46497.4	46112.1	45910.7	44684.7	43301.0	41186.1	38755.9	38449.4	42114.4	33216.8
45°	46392.4	46234.7	46856.5	47364.4	47036.0	45862.5	43178.4	41790.3	44824.8	34604.9
47.5°	43914.0	44019.1	45407.1	48262.1	49518.7	50131.8	48213.9	45070.0	47180.5	35642.6
50°	37170.8	37258.4	40472.3	46628.8	50158.0	53612.8	53210.0	48270.8	49006.4	36277.6
52.5°	31833.2	31890.1	33269.4	41786.0	48047.5	55364.3	57711.3	51287.7	50341.9	36452.7
55°	23977.8	24174.8	25720.5	32783.3	42556.6	53976.3	60452.4	54396.6	51187.0	36470.2
57.5°	14007.5	14222.0	16131.1	22252.6	33076.7	49137.8	60868.3	57155.2	51760.6	36330.1
60°	6861.4	6953.4	7785.3	11695.5	20396.0	39815.5	57523.0	58490.7	52080.3	36255.7
62.5°	4623.9	4610.8	4645.8	5771.1	10049.1	25580.4	50552.1	56152.5	51909.5	35971.0
65°	3975.9	3927.7	3796.3	4050.3	5206.3	11699.9	39058.0	49172.8	50609.0	35257.3
67.5°	3437.3	3441.7	3446.0	3367.2	3717.5	5398.9	23868.3	38734.0	45941.3	31877.0
70°	2846.2	2885.6	2903.1	2903.1	3030.1	3542.4	10189.2	26548.1	36238.1	24993.6
72.5°	2592.2	2509.0	2517.8	2474.0	2474.0	2697.3	4102.8	15049.6	22830.6	14060.0
75°	2114.9	2167.5	2176.2	2145.6	2044.9	2058.0	2434.6	6314.1	9768.9	5832.4
77.5°	1825.9	1825.9	1843.4	1821.5	1742.7	1541.3	1624.5	2447.7	3323.4	2390.8
80°	1466.9	1462.5	1536.9	1580.7	1458.1	1138.5	1037.8	1353.0	1475.6	1050.9
82.5°	713.7	757.5	1055.3	1204.1	1107.8	823.2	634.9	840.7	788.2	464.1
85°	416.0	394.1	472.9	669.9	634.9	455.4	306.5	437.9	411.6	236.4
87.5°	131.4	122.6	96.3	227.7	183.9	127.0	83.2	127.0	113.8	52.5
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°
21223.6	0°	21223.6	21223.6	21223.6	21223.6	21223.6	21223.6	21223.6	21223.6	21223.6	21223.6
21293.6	2.5°	20982.7	20466.1	19953.7	19485.2	19200.6	19016.7	18832.8	18627.0	18548.2	18430.0
21350.6	5°	20772.6	19774.2	18885.3	18119.1	17422.9	16875.5	16323.8	15877.2	15675.8	15811.5
21530.1	7.5°	20650.0	19205.0	17834.5	16428.9	15075.9	13994.3	13052.9	12391.7	12094.0	12168.4
21705.2	10°	20540.5	18561.3	16472.7	14252.7	12308.5	10968.7	10005.3	9501.8	9313.5	9352.9
21941.7	12.5°	20439.8	17838.8	14830.7	11910.1	9843.3	8958.8	8683.0	8687.3	8722.4	8748.6
22318.2	15°	20422.3	16967.5	12996.0	9860.8	8512.2	8455.3	8753.0	8941.3	9042.0	9072.7
22633.5	17.5°	20396.0	15925.3	11126.3	8464.0	8188.2	8573.5	8849.4	8972.0	9050.8	9055.2
22940.0	20°	20290.9	14603.0	9401.1	7798.5	8118.1	8450.9	8621.7	8718.0	8783.7	8805.6
23172.1	22.5°	19966.9	13131.7	8056.8	7500.7	7837.9	8105.0	8306.4	8415.9	8455.3	8481.5
23215.9	25°	19384.5	11485.3	7128.5	7216.1	7448.2	7785.3	7947.3	7969.2	7956.1	7995.5
23106.4	27.5°	18622.6	9720.7	6550.5	6830.8	7128.5	7417.5	7505.1	7492.0	7465.7	7509.5
22918.1	30°	17703.1	8135.6	6182.7	6397.3	6804.5	7067.2	7146.0	7115.4	7062.8	7111.0
22821.8	32.5°	16731.0	6839.5	5880.6	6095.2	6537.4	6795.7	6874.6	6843.9	6804.5	6843.9
22931.3	35°	15824.6	5933.1	5600.4	5893.7	6327.2	6581.2	6681.9	6686.3	6686.3	6734.4
23220.3	37.5°	14992.7	5403.3	5368.3	5766.8	6182.7	6410.4	6554.9	6563.7	6375.4	6388.5
23710.7	40°	14222.0	5180.0	5263.2	5683.6	6042.6	6261.5	6270.3	5779.9	5434.0	5425.2
24271.1	42.5°	13591.5	5136.2	5293.9	5674.8	5941.9	5950.7	5333.3	4952.3	4856.0	4860.4
24787.8	45°	13000.4	5123.1	5363.9	5674.8	5793.0	5140.6	4724.6	4623.9	4632.7	4667.7
25019.9	47.5°	12339.2	5070.5	5377.0	5596.0	5363.9	4571.4	4448.8	4405.0	4387.5	4396.2
24967.4	50°	11616.7	4882.3	5210.7	5438.3	4628.3	4326.2	4172.9	4159.8	4181.7	4194.8
24674.0	52.5°	10854.8	4575.7	4926.0	5153.7	4291.1	4111.6	3940.8	3971.5	4067.8	4098.5
24367.5	55°	10355.6	4216.7	4549.5	4584.5	4054.7	3910.2	3765.7	3835.7	4015.3	4072.2
24183.6	57.5°	10224.3	3835.7	4120.4	4081.0	3752.5	3735.0	3647.5	3708.8	3936.5	4019.6
24174.8	60°	10184.9	3494.2	3700.0	3669.4	3459.2	3542.4	3520.5	3551.1	3629.9	3656.2
24087.2	62.5°	9878.4	3222.7	3323.4	3279.6	3196.5	3341.0	3393.5	3327.8	3389.1	3419.8
23487.4	65°	9098.9	3003.8	2955.6	2925.0	2960.0	3091.4	3196.5	3065.1	3122.0	3209.6
21175.4	67.5°	7811.6	2706.0	2574.7	2609.7	2719.2	2789.2	2925.0	2776.1	2824.3	2973.1
17055.0	70°	6318.5	2329.5	2211.2	2312.0	2417.0	2561.5	2583.4	2482.7	2596.6	2763.0
10408.2	72.5°	4470.7	1948.5	1865.3	2071.1	2106.2	2294.4	2246.3	2198.1	2355.7	2412.7
5145.0	75°	3100.1	1572.0	1523.8	1681.4	1808.4	1970.4	1935.4	1992.3	2325.1	2351.4
2570.3	77.5°	1961.7	1221.7	1191.0	1291.7	1466.9	1646.4	1703.3	2351.4	3971.5	4129.1
1335.5	80°	1138.5	910.8	875.7	954.6	1107.8	1274.2	1642.0	2885.6	2618.5	2587.8
599.9	82.5°	634.9	626.2	582.4	604.3	740.0	919.5	2320.7	2031.7	1650.8	1703.3
240.8	85°	297.8	367.8	315.3	302.1	416.0	1077.2	1550.1	1160.4	770.7	753.1
52.5	87.5°	78.8	70.1	70.1	78.8	175.1	928.3	617.4	494.8	293.4	284.6
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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