

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: P956068

Luminaire Tested: **GALN-SB8D-830-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956068  
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-830-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

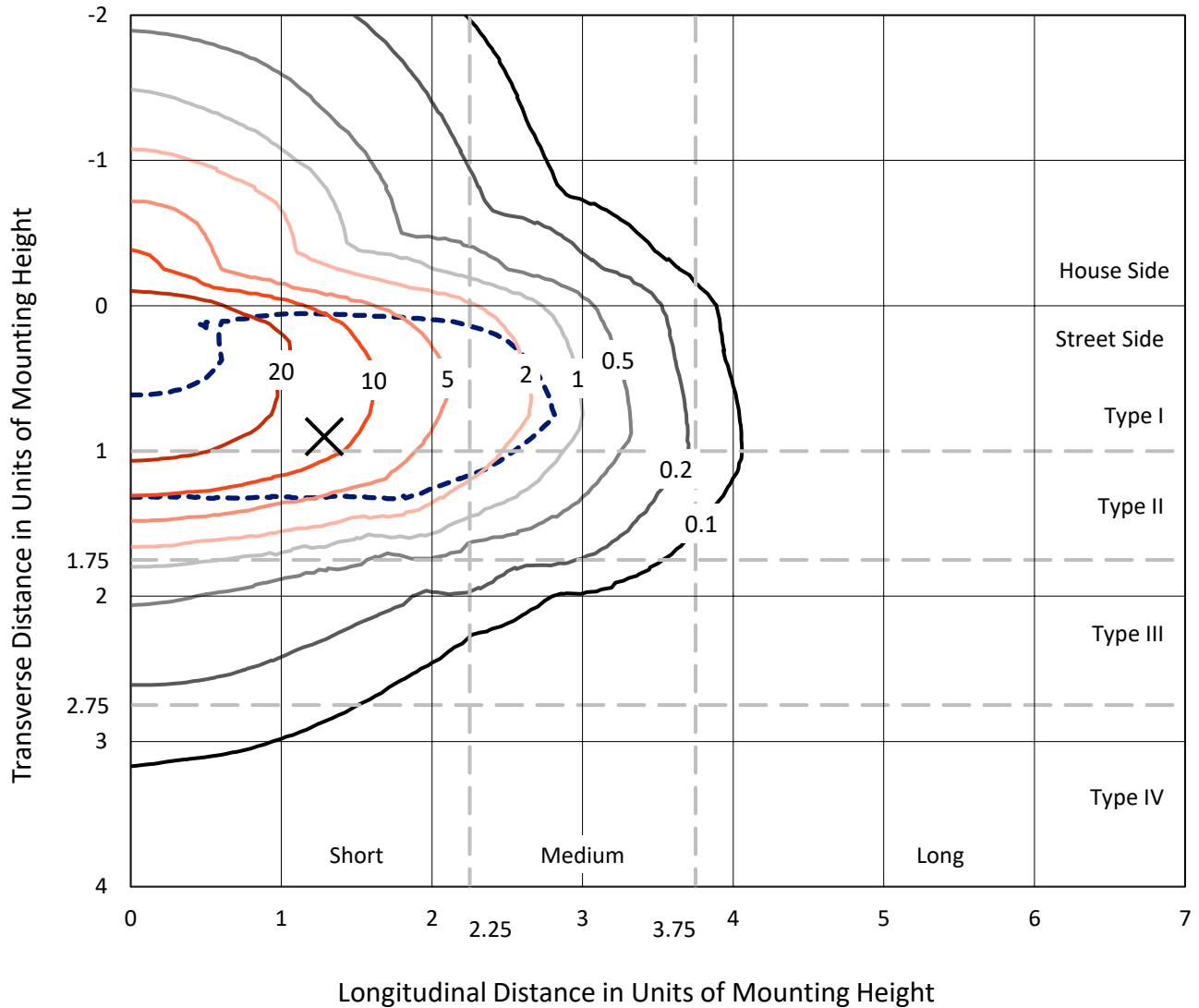
Lumens per Lamp: N/A  
Luminaire Lumens: 75196 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

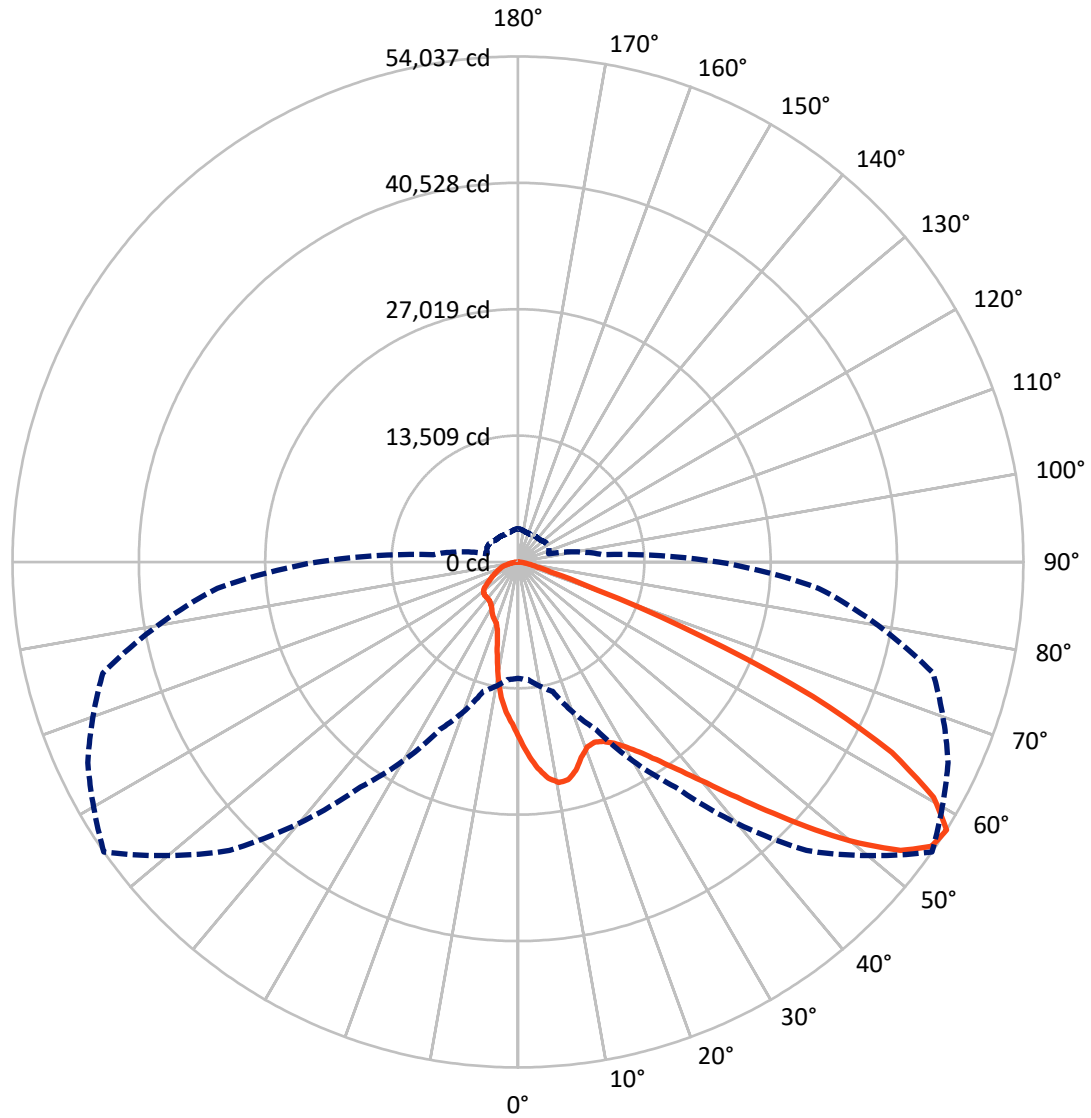
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 36.4 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	13606.3	0.0	13606.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	61589.7	0.0	61589.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	75196.0	0.0	75196.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1748.4	2.3
10°-20°	4413.0	5.9
20°-30°	7041.9	9.4
30°-40°	11149.1	14.8
40°-50°	17064.9	22.7
50°-60°	18278.1	24.3
60°-70°	11498.8	15.3
70°-80°	3400.4	4.5
80°-90°	601.2	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°	75196.0	100.0
0°-180°	75196.0	100.0



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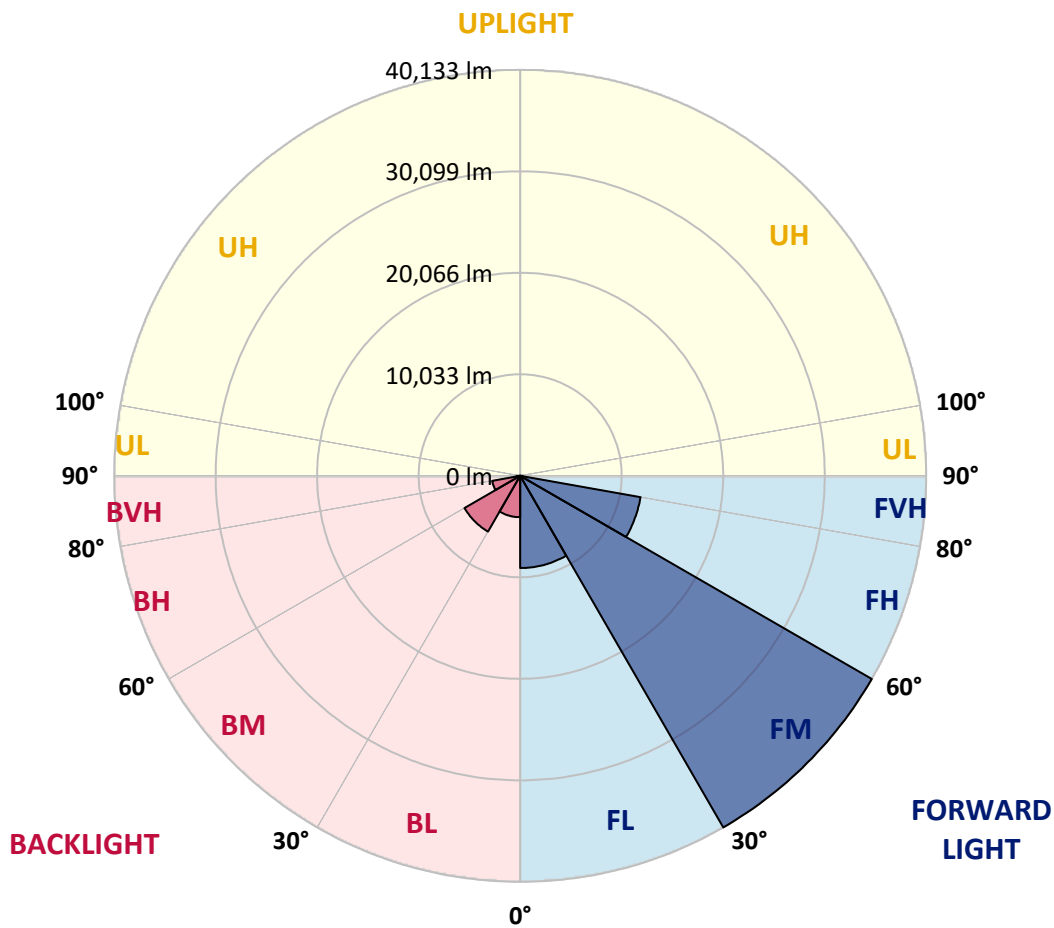
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9113.8	12.1			
FM (30°-60°)	40132.6	53.4			
FH (60°-80°)	12089.2	16.1			G5
FVH (80°-90°)	254.0	0.3			G3/500
BL (0°-30°)	4089.6	5.4	B4/5000		
BM (30°-60°)	6359.5	8.5	B4/8500		
BH (60°-80°)	2810.0	3.7	B4/5000		G4/5000
BVH (80°-90°)	347.2	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°	18841.7	18841.7	18841.7	18841.7	18841.7	18841.7	18841.7	18841.7	18841.7	18841.7
2.5°	21617.2	21601.7	21687.2	21395.6	21197.4	20929.1	20575.4	20124.5	19638.6	19125.4
5°	23564.7	23428.7	23518.1	23300.4	23082.7	22678.4	22153.6	21418.9	20521.0	19498.6
7.5°	23257.6	23164.3	23393.7	23588.1	23751.3	23700.8	23315.9	22546.3	21387.8	19902.9
10°	20781.4	20676.5	20999.1	21671.6	22659.0	23518.1	23984.6	23506.4	22274.2	20346.1
12.5°	18596.8	18546.2	18760.0	19304.3	20400.5	22048.7	23899.0	24346.1	23195.4	20870.8
15°	17663.8	17601.6	17737.7	18013.7	18713.4	20248.9	23121.6	24921.4	24101.2	21477.3
17.5°	17457.8	17387.8	17446.1	17590.0	18040.9	19211.0	21947.6	25205.2	25045.8	22153.6
20°	17838.8	17780.4	17788.2	17780.4	18095.3	19024.4	21131.3	25096.3	25869.9	22775.6
22.5°	18760.0	18662.9	18666.7	18460.7	18631.8	19350.9	20917.5	24804.8	26604.6	23319.8
25°	20260.5	20085.6	20120.6	19595.8	19549.2	20081.7	21251.8	24579.3	27335.4	23755.2
27.5°	22313.0	22114.8	22009.8	21228.5	20855.3	21119.6	21932.1	24657.1	28027.3	24132.3
30°	24878.6	24637.6	24423.8	23315.9	22639.6	22542.4	22989.4	25170.2	28843.7	24528.8
32.5°	28023.4	27743.6	27354.8	25885.4	24933.1	24423.8	24357.7	26083.7	29799.9	25034.1
35°	31766.9	31401.5	30849.5	28948.6	27743.6	26701.8	26161.4	27401.5	31110.0	25796.0
37.5°	35623.1	35211.0	34705.7	32443.3	30962.2	29426.8	28361.6	29189.6	32855.3	26830.1
40°	39180.0	38717.4	38247.0	36233.4	34643.5	32793.1	31055.5	31452.0	34989.5	28066.2
42.5°	41279.1	40937.0	40758.2	39669.8	38441.4	36563.8	34406.4	34134.3	37387.9	29489.0
45°	41185.8	41045.9	41597.9	42048.8	41757.2	40715.4	38332.5	37100.3	39794.2	30721.2
47.5°	38985.6	39078.9	40311.2	42845.7	43961.3	44505.5	42802.9	40011.8	41885.5	31642.5
50°	32999.2	33076.9	35930.2	41395.7	44528.9	47595.9	47238.3	42853.4	43506.5	32206.2
52.5°	28260.6	28311.1	29535.6	37096.4	42655.2	49150.8	51234.4	45531.8	44692.1	32361.7
55°	21286.8	21461.7	22833.9	29104.1	37780.5	47918.6	53667.9	48291.8	45442.4	32377.2
57.5°	12435.4	12625.9	14320.8	19755.2	29364.6	43623.1	54037.2	50740.7	45951.6	32252.8
60°	6091.4	6173.0	6911.6	10382.9	18107.0	35347.1	51067.3	51926.4	46235.4	32186.7
62.5°	4105.0	4093.3	4124.4	5123.4	8921.3	22709.5	44878.7	49850.6	46083.8	31934.1
65°	3529.7	3486.9	3370.3	3595.7	4622.0	10386.8	34674.6	43654.2	44929.3	31300.4
67.5°	3051.5	3055.4	3059.3	2989.3	3300.3	4793.0	21189.6	34386.9	40785.4	28299.4
70°	2526.7	2561.7	2577.3	2577.3	2690.0	3144.8	9045.7	23568.6	32171.2	22188.6
72.5°	2301.3	2227.4	2235.2	2196.3	2196.3	2394.6	3642.4	13360.6	20268.3	12482.1
75°	1877.6	1924.2	1932.0	1904.8	1815.4	1827.0	2161.3	5605.5	8672.5	5177.9
77.5°	1621.0	1621.0	1636.5	1617.1	1547.1	1368.3	1442.2	2173.0	2950.5	2122.5
80°	1302.2	1298.4	1364.4	1403.3	1294.5	1010.7	921.3	1201.2	1310.0	932.9
82.5°	633.6	672.5	936.8	1069.0	983.5	730.8	563.7	746.4	699.7	412.1
85°	369.3	349.9	419.8	594.8	563.7	404.3	272.1	388.7	365.4	209.9
87.5°	116.6	108.8	85.5	202.1	163.3	112.7	73.9	112.7	101.1	46.6
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°
18841.7	0°	18841.7	18841.7	18841.7	18841.7	18841.7	18841.7	18841.7	18841.7	18841.7	18841.7
18903.9	2.5°	18627.9	18169.2	17714.4	17298.4	17045.8	16882.5	16719.2	16536.5	16466.5	16361.6
18954.4	5°	18441.3	17555.0	16765.9	16085.6	15467.5	14981.6	14491.8	14095.3	13916.5	14037.0
19113.8	7.5°	18332.4	17049.6	15832.9	14585.1	13383.9	12423.8	11588.0	11001.0	10736.7	10802.8
19269.3	10°	18235.3	16478.2	14624.0	12653.1	10927.2	9737.7	8882.4	8435.4	8268.3	8303.2
19479.2	12.5°	18145.9	15836.8	13166.2	10573.4	8738.6	7953.4	7708.5	7712.4	7743.5	7766.8
19813.5	15°	18130.3	15063.2	11537.5	8754.2	7556.9	7506.3	7770.7	7937.8	8027.2	8054.5
20093.4	17.5°	18107.0	14138.1	9877.6	7514.1	7269.2	7611.3	7856.2	7965.0	8035.0	8038.9
20365.5	20°	18013.7	12964.1	8346.0	6923.3	7207.0	7502.5	7654.1	7739.6	7797.9	7817.3
20571.5	22.5°	17726.0	11658.0	7152.6	6658.9	6958.2	7195.4	7374.2	7471.4	7506.3	7529.7
20610.4	25°	17209.0	10196.4	6328.5	6406.2	6612.3	6911.6	7055.4	7074.9	7063.2	7098.2
20513.2	27.5°	16532.6	8629.8	5815.4	6064.2	6328.5	6585.1	6662.8	6651.1	6627.8	6666.7
20346.1	30°	15716.3	7222.6	5488.8	5679.3	6040.8	6274.1	6344.1	6316.8	6270.2	6313.0
20260.5	32.5°	14853.3	6071.9	5220.6	5411.1	5803.7	6033.1	6103.0	6075.8	6040.8	6075.8
20357.7	35°	14048.7	5267.3	4971.8	5232.3	5617.1	5842.6	5932.0	5935.9	5935.9	5978.6
20614.3	37.5°	13310.1	4796.9	4765.8	5119.6	5488.8	5691.0	5819.3	5827.0	5659.9	5671.6
21049.7	40°	12625.9	4598.7	4672.5	5045.7	5364.5	5558.8	5566.6	5131.2	4824.1	4816.3
21547.2	42.5°	12066.1	4559.8	4699.7	5037.9	5275.0	5282.8	4734.7	4396.5	4311.0	4314.9
22005.9	45°	11541.4	4548.1	4761.9	5037.9	5142.9	4563.7	4194.4	4105.0	4112.7	4143.8
22212.0	47.5°	10954.4	4501.5	4773.6	4968.0	4761.9	4058.3	3949.5	3910.6	3895.1	3902.8
22165.3	50°	10313.0	4334.3	4625.9	4828.0	4108.9	3840.6	3704.6	3692.9	3712.4	3724.0
21904.9	52.5°	9636.6	4062.2	4373.2	4575.3	3809.5	3650.2	3498.6	3525.8	3611.3	3638.5
21632.7	55°	9193.4	3743.5	4038.9	4070.0	3599.6	3471.3	3343.1	3405.3	3564.6	3615.2
21469.5	57.5°	9076.8	3405.3	3657.9	3623.0	3331.4	3315.9	3238.1	3292.5	3494.7	3568.5
21461.7	60°	9041.8	3102.1	3284.8	3257.5	3071.0	3144.8	3125.4	3152.6	3222.6	3245.9
21384.0	62.5°	8769.7	2861.0	2950.5	2911.6	2837.7	2966.0	3012.6	2954.3	3008.8	3036.0
20851.4	65°	8077.8	2666.7	2623.9	2596.7	2627.8	2744.4	2837.7	2721.1	2771.6	2849.4
18798.9	67.5°	6934.9	2402.3	2285.7	2316.8	2414.0	2476.2	2596.7	2464.5	2507.3	2639.5
15141.0	70°	5609.4	2068.0	1963.1	2052.5	2145.8	2274.1	2293.5	2204.1	2305.2	2452.9
9240.1	72.5°	3968.9	1729.8	1656.0	1838.7	1869.8	2036.9	1994.2	1951.4	2091.4	2141.9
4567.6	75°	2752.2	1395.5	1352.8	1492.7	1605.4	1749.3	1718.2	1768.7	2064.1	2087.5
2281.8	77.5°	1741.5	1084.6	1057.3	1146.7	1302.2	1461.6	1512.2	2087.5	3525.8	3665.7
1185.6	80°	1010.7	808.6	777.5	847.4	983.5	1131.2	1457.7	2561.7	2324.6	2297.4
532.6	82.5°	563.7	555.9	517.0	536.4	657.0	816.3	2060.3	1803.7	1465.5	1512.2
213.8	85°	264.3	326.5	279.9	268.2	369.3	956.3	1376.1	1030.1	684.2	668.6
46.6	87.5°	70.0	62.2	62.2	70.0	155.5	824.1	548.1	439.3	260.4	252.7
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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