

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: P956089

Luminaire Tested: **GALN-SB8D-835-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956089  
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-835-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

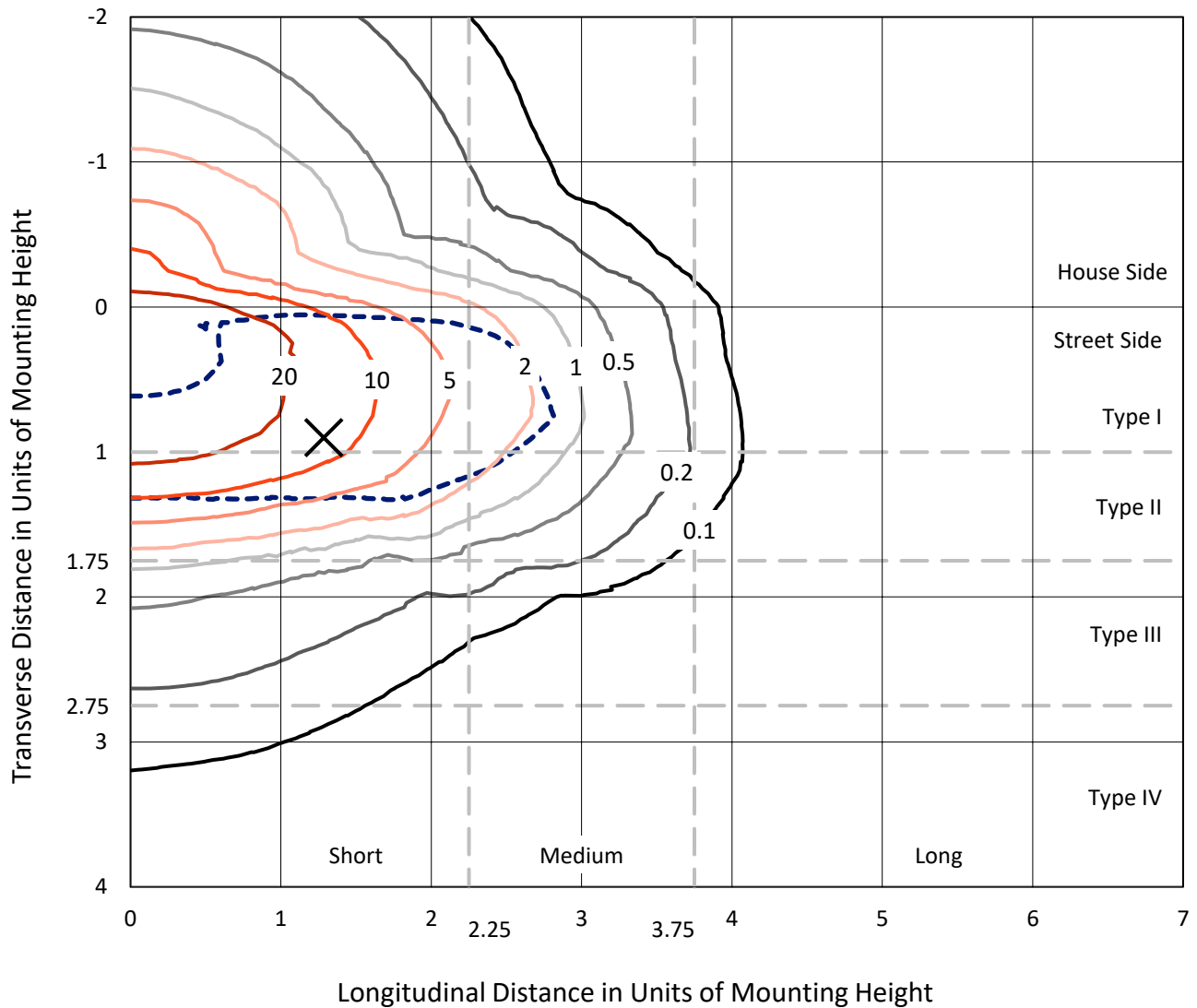
Lumens per Lamp: N/A  
Luminaire Lumens: 77622 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

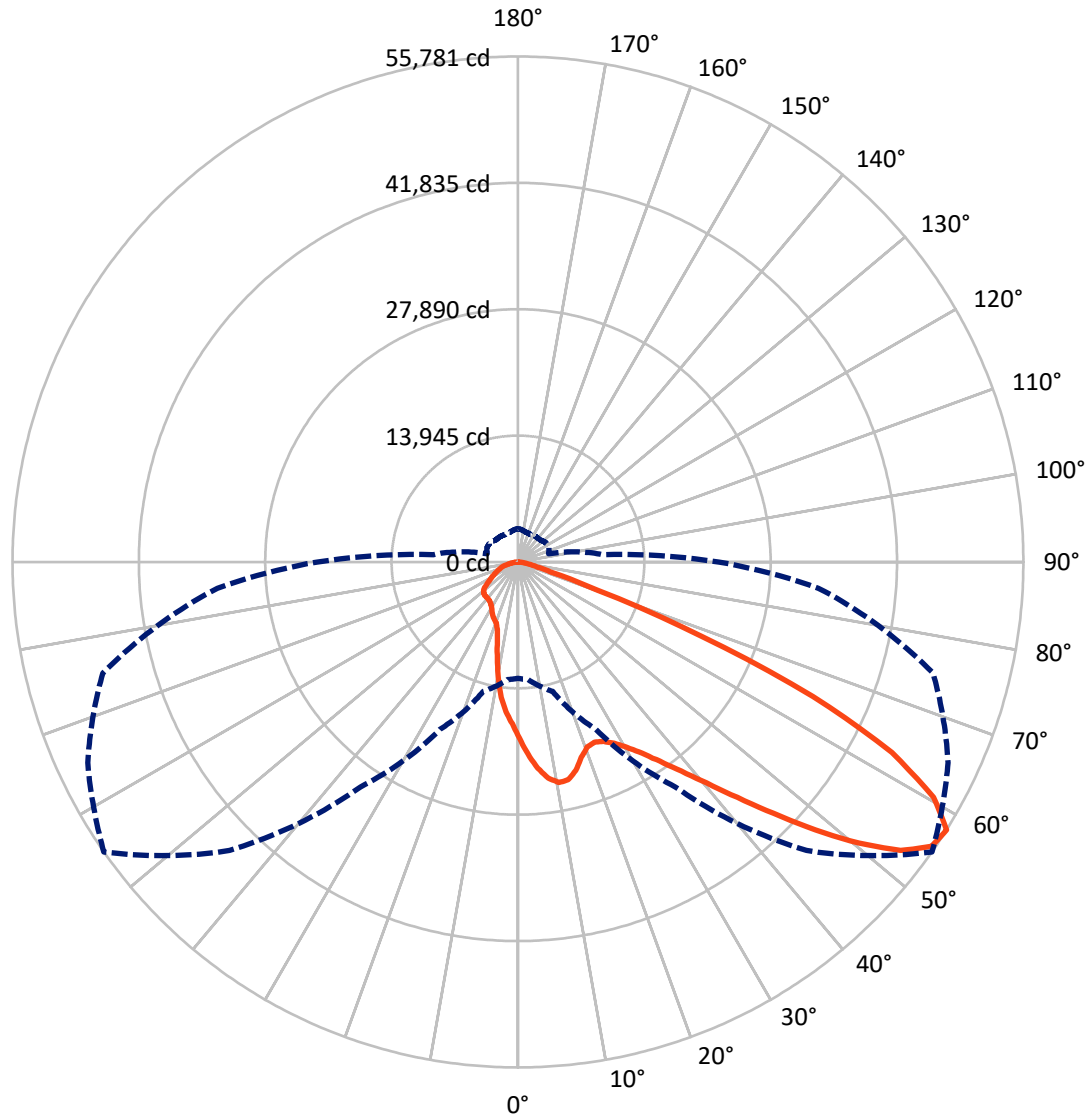
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 37.6 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	14045.3	0.0	14045.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	63576.7	0.0	63576.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	77622.0	0.0	77622.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1804.8	2.3
10°-20°	4555.4	5.9
20°-30°	7269.1	9.4
30°-40°	11508.8	14.8
40°-50°	17615.4	22.7
50°-60°	18867.8	24.3
60°-70°	11869.8	15.3
70°-80°	3510.1	4.5
80°-90°	620.6	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°	77622.0	100.0
0°-180°	77622.0	100.0

**Coefficient of Utilization**



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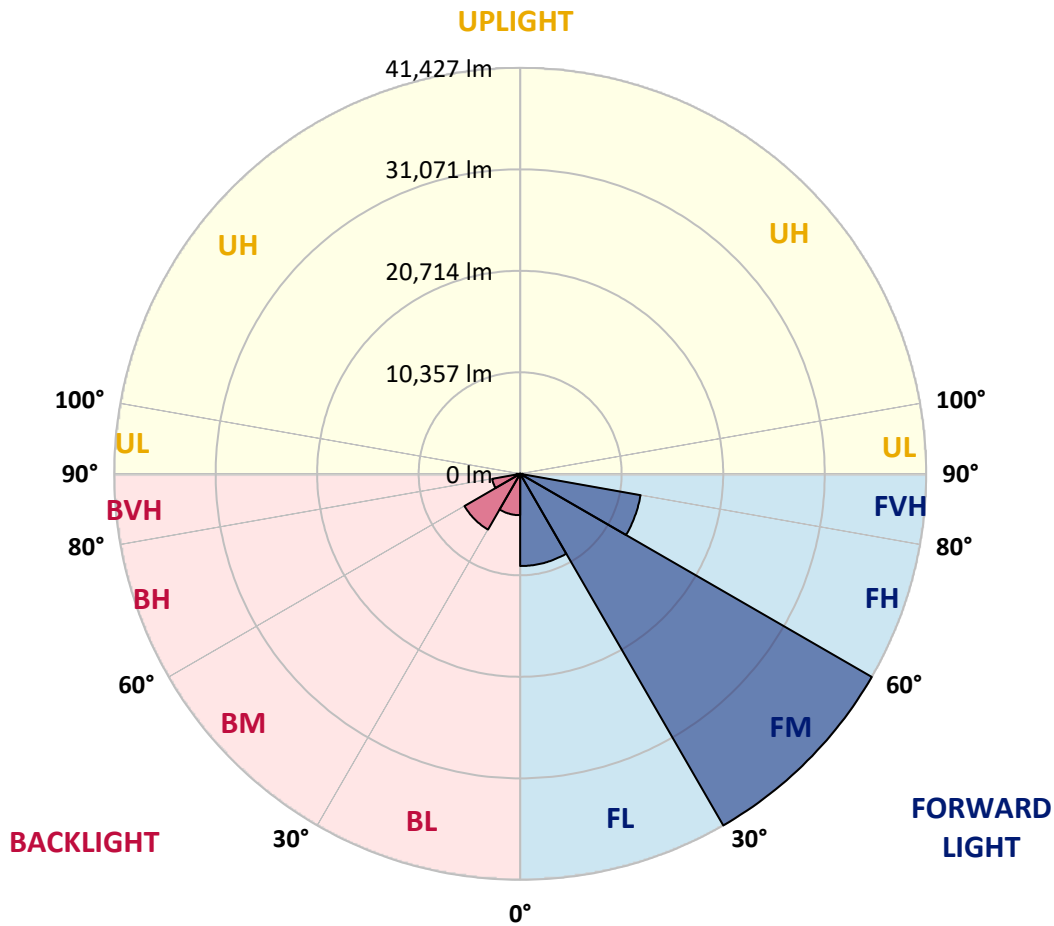
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9407.8	12.1			
FM (30°-60°)	41427.4	53.4			
FH (60°-80°)	12479.3	16.1			G5
FVH (80°-90°)	262.2	0.3			G3/500
BL (0°-30°)	4221.6	5.4	B4/5000		
BM (30°-60°)	6564.7	8.5	B4/8500		
BH (60°-80°)	2900.7	3.7	B4/5000		G4/5000
BVH (80°-90°)	358.4	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19449.6	19449.6	19449.6	19449.6	19449.6	19449.6	19449.6	19449.6	19449.6	19449.6
2.5°	22314.6	22298.6	22386.8	22085.9	21881.2	21604.4	21239.2	20773.7	20272.2	19742.5
5°	24325.0	24184.5	24276.8	24052.1	23827.4	23410.1	22868.4	22110.0	21183.0	20127.7
7.5°	24008.0	23911.7	24148.4	24349.1	24517.6	24465.4	24068.2	23273.7	22077.9	20545.0
10°	21451.9	21343.5	21676.6	22370.8	23390.0	24276.8	24758.4	24264.8	22992.8	21002.5
12.5°	19196.8	19144.6	19365.3	19927.1	21058.6	22760.0	24670.1	25131.5	23943.8	21544.2
15°	18233.7	18169.5	18309.9	18594.8	19317.1	20902.2	23867.5	25725.4	24878.7	22170.2
17.5°	18021.0	17948.8	18009.0	18157.5	18622.9	19830.8	22655.7	26018.3	25853.8	22868.4
20°	18414.3	18354.1	18362.1	18354.1	18679.1	19638.2	21813.0	25906.0	26704.5	23510.4
22.5°	19365.3	19265.0	19269.0	19056.3	19232.9	19975.2	21592.3	25605.0	27462.9	24072.2
25°	20914.2	20733.6	20769.7	20228.0	20179.9	20729.6	21937.4	25372.3	28217.3	24521.6
27.5°	23032.9	22828.2	22719.9	21913.4	21528.1	21801.0	22639.6	25452.6	28931.6	24910.8
30°	25681.3	25432.5	25211.8	24068.2	23370.0	23269.6	23731.1	25982.2	29774.2	25320.1
32.5°	28927.5	28638.6	28237.4	26720.6	25737.5	25211.8	25143.6	26925.2	30761.4	25841.8
35°	32791.8	32414.6	31844.8	29882.6	28638.6	27563.2	27005.5	28285.5	32113.6	26628.3
37.5°	36772.4	36347.0	35825.4	33490.0	31961.2	30376.1	29276.7	30131.4	33915.3	27695.7
40°	40444.0	39966.5	39480.9	37402.4	35761.2	33851.1	32057.5	32466.8	36118.3	28971.7
42.5°	42610.9	42257.7	42073.2	40949.6	39681.6	37743.4	35516.4	35235.5	38594.1	30440.3
45°	42514.5	42370.1	42939.9	43405.4	43104.4	42029.0	39569.2	38297.2	41078.0	31712.4
47.5°	40243.4	40339.7	41611.7	44228.0	45379.6	45941.4	44183.8	41302.7	43236.8	32663.4
50°	34063.8	34144.1	37089.4	42731.2	45965.5	49131.5	48762.3	44236.0	44910.1	33245.2
52.5°	29172.3	29224.5	30488.5	38293.2	44031.3	50736.6	52887.4	47000.7	46134.0	33405.7
55°	21973.5	22154.1	23570.6	30043.1	38999.4	49464.5	55399.3	49849.8	46908.5	33421.8
57.5°	12836.6	13033.2	14782.8	20392.5	30311.9	45030.5	55780.5	52377.8	47434.1	33293.4
60°	6287.9	6372.2	7134.6	10717.9	18691.2	36487.5	52714.8	53601.6	47727.0	33225.2
62.5°	4237.4	4225.4	4257.5	5288.7	9209.1	23442.2	46326.6	51458.9	47570.6	32964.3
65°	3643.5	3599.4	3479.0	3711.7	4771.1	10721.9	35793.3	45062.6	46378.8	32310.3
67.5°	3150.0	3154.0	3158.0	3085.8	3406.8	4947.7	21873.2	35496.3	42101.2	29212.5
70°	2608.3	2644.4	2660.4	2660.4	2776.8	3246.3	9337.6	24329.0	33209.1	22904.5
72.5°	2375.5	2299.3	2307.3	2267.2	2267.2	2471.8	3759.9	13791.6	20922.2	12884.8
75°	1938.1	1986.3	1994.3	1966.2	1873.9	1886.0	2231.1	5786.3	8952.3	5344.9
77.5°	1673.3	1673.3	1689.3	1669.3	1597.1	1412.5	1488.7	2243.1	3045.6	2190.9
80°	1344.3	1340.2	1408.5	1448.6	1336.2	1043.3	951.0	1239.9	1352.3	963.0
82.5°	654.1	694.2	967.1	1103.5	1015.2	754.4	581.8	770.4	722.3	425.3
85°	381.2	361.1	433.4	613.9	581.8	417.3	280.9	401.3	377.2	216.7
87.5°	120.4	112.4	88.3	208.7	168.5	116.4	76.2	116.4	104.3	48.2
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°
19449.6	0°	19449.6	19449.6	19449.6	19449.6	19449.6	19449.6	19449.6	19449.6	19449.6	19449.6
19513.8	2.5°	19228.9	18755.4	18285.9	17856.5	17595.7	17427.2	17258.6	17070.0	16997.8	16889.5
19565.9	5°	19036.2	18121.4	17306.8	16604.5	15966.5	15464.9	14959.3	14550.0	14365.5	14489.9
19730.4	7.5°	18923.9	17599.7	16343.7	15055.6	13815.7	12824.6	11961.9	11355.9	11083.1	11151.3
19891.0	10°	18823.6	17009.8	15095.8	13061.3	11279.7	10051.8	9169.0	8707.6	8535.0	8571.1
20107.6	12.5°	18731.3	16347.7	13591.0	10914.5	9020.5	8210.0	7957.2	7961.2	7993.3	8017.4
20452.7	15°	18715.2	15549.2	11909.7	9036.6	7800.7	7748.5	8021.4	8193.9	8286.2	8314.3
20741.6	17.5°	18691.2	14594.2	10196.3	7756.5	7503.7	7856.9	8109.7	8222.0	8294.2	8298.3
21022.5	20°	18594.8	13382.4	8615.3	7146.6	7439.5	7744.5	7901.0	7989.3	8049.5	8069.5
21235.2	22.5°	18297.9	12034.1	7383.4	6873.8	7182.7	7427.5	7612.1	7712.4	7748.5	7772.6
21275.3	25°	17764.2	10525.3	6532.7	6612.9	6825.6	7134.6	7283.0	7303.1	7291.1	7327.2
21175.0	27.5°	17066.0	8908.2	6003.0	6259.8	6532.7	6797.5	6877.8	6865.7	6841.7	6881.8
21002.5	30°	16223.3	7455.6	5665.9	5862.6	6235.7	6476.5	6548.7	6520.6	6472.5	6516.6
20914.2	32.5°	15332.5	6267.8	5389.1	5585.7	5991.0	6227.7	6299.9	6271.8	6235.7	6271.8
21014.5	35°	14501.9	5437.2	5132.2	5401.1	5798.4	6031.1	6123.4	6127.4	6127.4	6171.5
21279.3	37.5°	13739.5	4951.7	4919.6	5284.7	5665.9	5874.6	6007.0	6015.0	5842.5	5854.5
21728.8	40°	13033.2	4747.0	4823.3	5208.5	5537.5	5738.2	5746.2	5296.8	4979.8	4971.7
22242.4	42.5°	12455.4	4706.9	4851.4	5200.5	5445.2	5453.3	4887.5	4538.4	4450.1	4454.1
22715.9	45°	11913.7	4694.9	4915.6	5200.5	5308.8	4710.9	4329.7	4237.4	4245.4	4277.5
22928.6	47.5°	11307.8	4646.7	4927.6	5128.2	4915.6	4189.3	4076.9	4036.8	4020.7	4028.8
22880.4	50°	10645.7	4474.2	4775.1	4983.8	4241.4	3964.5	3824.1	3812.1	3832.1	3844.2
22611.6	52.5°	9947.5	4193.3	4514.3	4722.9	3932.4	3767.9	3611.4	3639.5	3727.8	3755.9
22330.7	55°	9490.0	3864.2	4169.2	4201.3	3715.8	3583.3	3450.9	3515.1	3679.6	3731.8
22162.1	57.5°	9369.7	3515.1	3776.0	3739.8	3438.9	3422.8	3342.6	3398.8	3607.4	3683.7
22154.1	60°	9333.5	3202.1	3390.7	3362.6	3170.0	3246.3	3226.2	3254.3	3326.5	3350.6
22073.9	62.5°	9052.6	2953.3	3045.6	3005.5	2929.3	3061.7	3109.8	3049.7	3105.8	3133.9
21524.1	65°	8338.4	2752.7	2708.6	2680.5	2712.6	2833.0	2929.3	2808.9	2861.1	2941.3
19405.4	67.5°	7158.7	2479.8	2359.5	2391.6	2491.9	2556.1	2680.5	2544.1	2588.2	2724.6
15629.5	70°	5790.3	2134.8	2026.4	2118.7	2215.0	2347.4	2367.5	2275.2	2379.5	2532.0
9538.2	72.5°	4097.0	1785.7	1709.4	1898.0	1930.1	2102.7	2058.5	2014.4	2158.8	2211.0
4714.9	75°	2841.0	1440.6	1396.4	1540.9	1657.2	1805.7	1773.6	1825.8	2130.7	2154.8
2355.5	77.5°	1797.7	1119.5	1091.5	1183.7	1344.3	1508.8	1560.9	2154.8	3639.5	3784.0
1223.9	80°	1043.3	834.6	802.5	874.8	1015.2	1167.7	1504.8	2644.4	2399.6	2371.5
549.7	82.5°	581.8	573.8	533.7	553.8	678.1	842.7	2126.7	1861.9	1512.8	1560.9
220.7	85°	272.9	337.1	288.9	276.9	381.2	987.1	1420.5	1063.4	706.2	690.2
48.2	87.5°	72.2	64.2	64.2	72.2	160.5	850.7	565.8	453.4	268.9	260.8
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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