

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: P955249

Luminaire Tested: **GALN-SB8B-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955249
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-SB8B-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46309 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

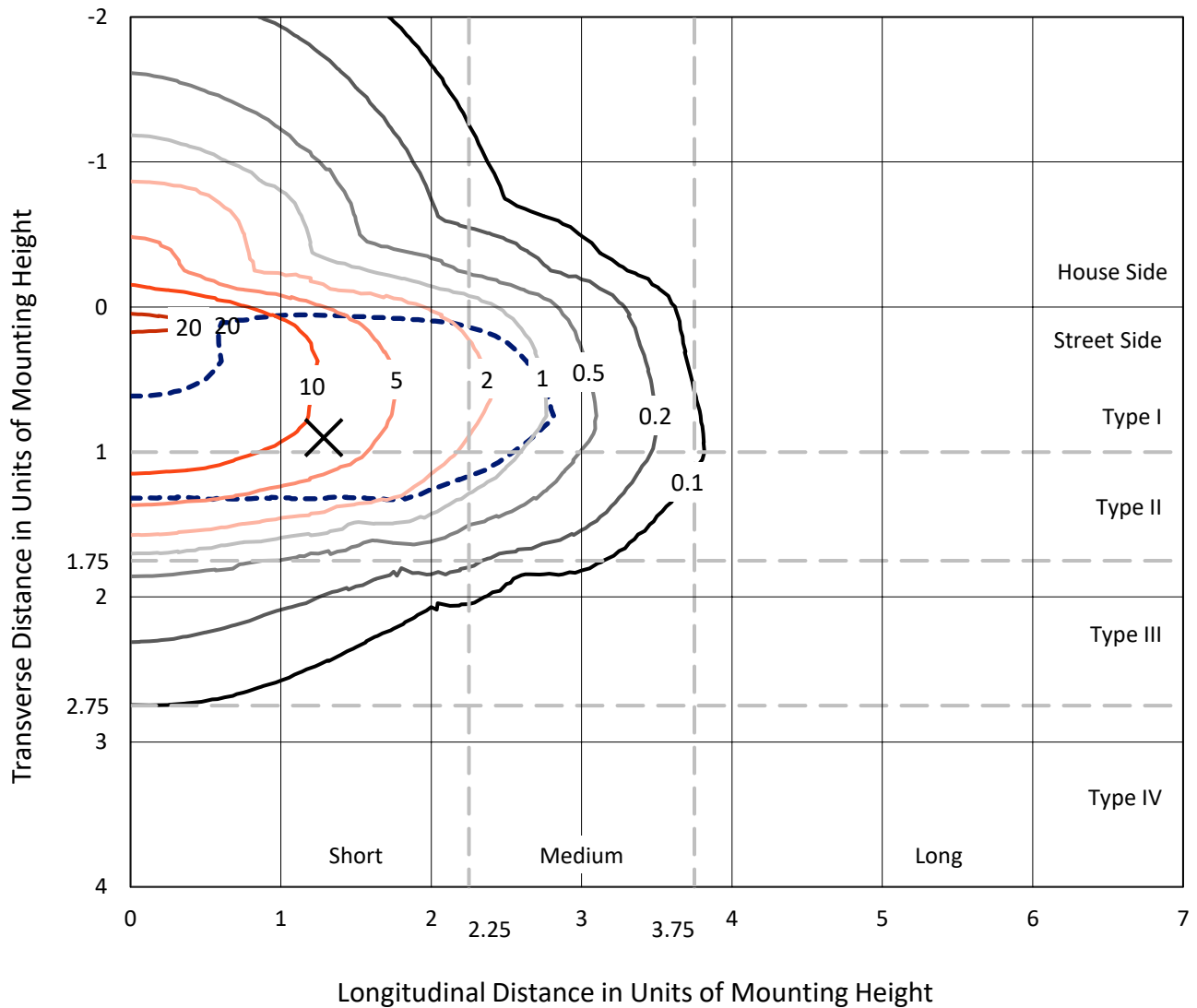
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

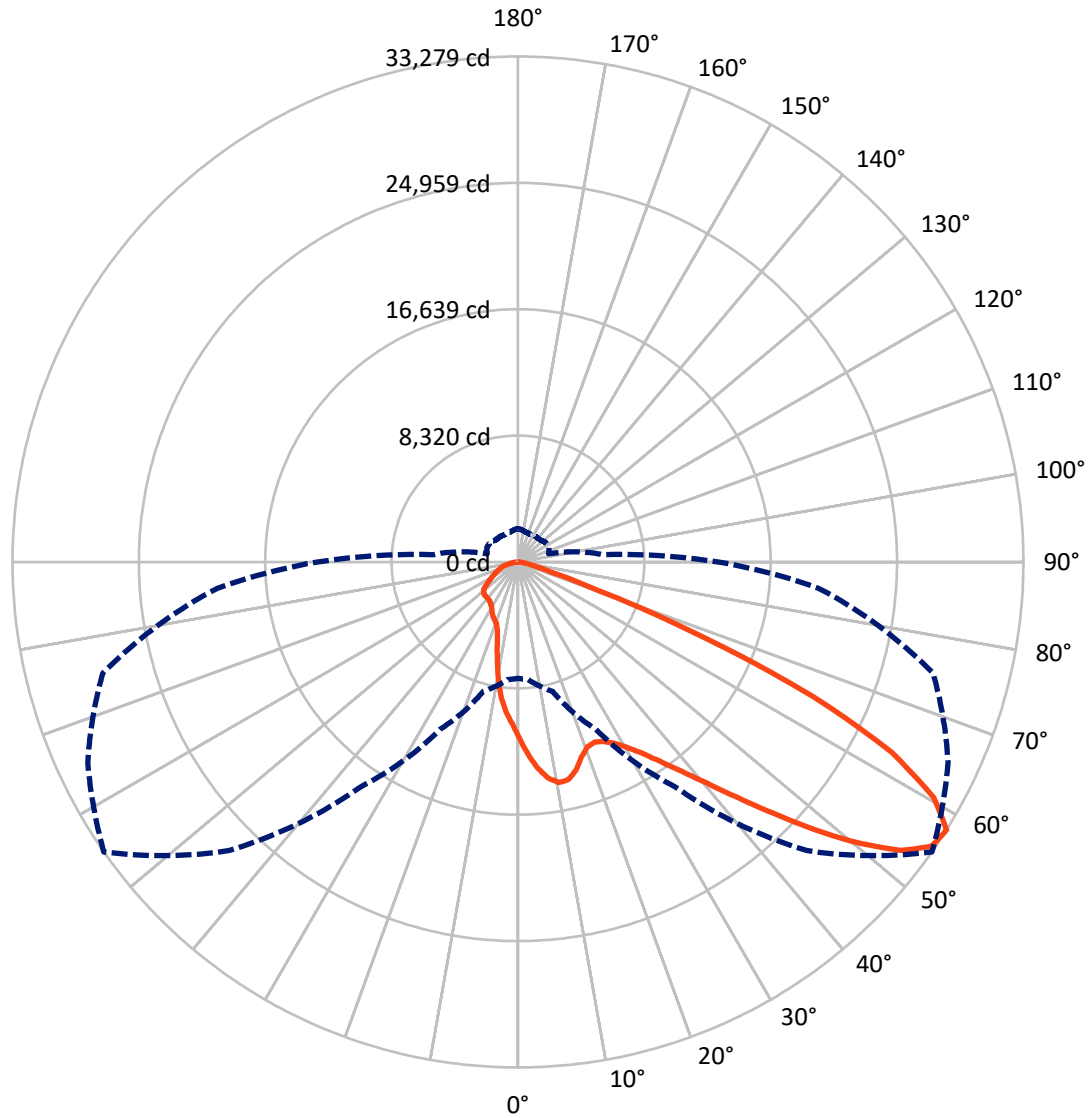
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 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
House Side	Lumens	8379.4	0.0	8379.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	37929.6	0.0	37929.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	46309.0	0.0	46309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1076.7	2.3
10°-20°	2717.7	5.9
20°-30°	4336.7	9.4
30°-40°	6866.1	14.8
40°-50°	10509.3	22.7
50°-60°	11256.5	24.3
60°-70°	7081.5	15.3
70°-80°	2094.1	4.5
80°-90°	370.3	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°	46309.0	100.0
0°-180°	46309.0	100.0

Coefficient of Utilization



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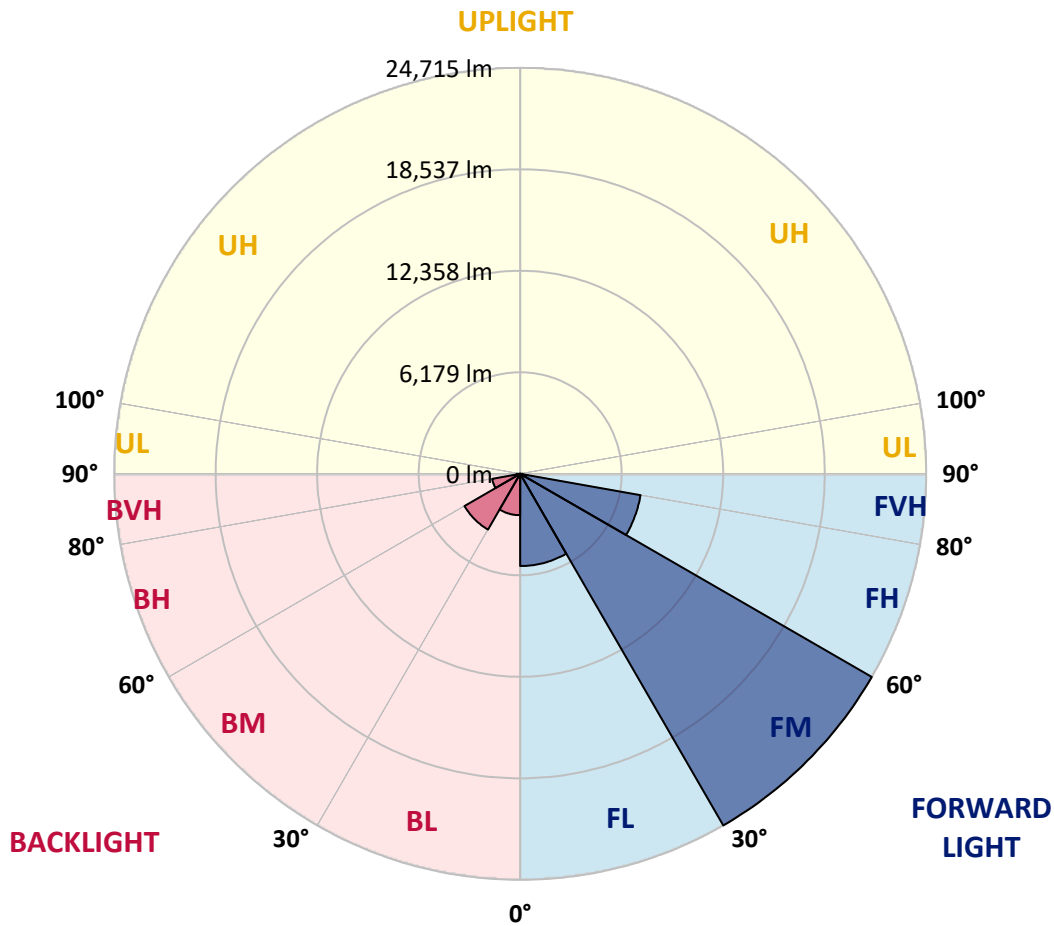
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5612.6	12.1			
FM (30°-60°)	24715.4	53.4			
FH (60°-80°)	7445.1	16.1			G3/7500
FVH (80°-90°)	156.4	0.3			G2/225
BL (0°-30°)	2518.6	5.4	B4/5000		
BM (30°-60°)	3916.5	8.5	B3/5000		
BH (60°-80°)	1730.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	213.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11603.5	11603.5	11603.5	11603.5	11603.5	11603.5	11603.5	11603.5	11603.5	11603.5
2.5°	13312.8	13303.2	13355.9	13176.4	13054.3	12889.1	12671.2	12393.5	12094.3	11778.3
5°	14512.2	14428.4	14483.5	14349.4	14215.3	13966.4	13643.2	13190.7	12637.7	12008.1
7.5°	14323.1	14265.6	14406.9	14526.6	14627.1	14596.0	14359.0	13885.0	13171.6	12257.1
10°	12798.1	12733.5	12932.2	13346.3	13954.4	14483.5	14770.7	14476.3	13717.4	12530.0
12.5°	11452.7	11421.6	11553.3	11888.4	12563.5	13578.6	14718.1	14993.4	14284.8	12853.2
15°	10878.2	10839.9	10923.6	11093.6	11524.5	12470.1	14239.3	15347.7	14842.6	13226.6
17.5°	10751.3	10708.2	10744.1	10832.7	11110.4	11831.0	13516.3	15522.4	15424.3	13643.2
20°	10985.9	10950.0	10954.8	10950.0	11143.9	11716.0	13013.6	15455.4	15931.8	14026.2
22.5°	11553.3	11493.4	11495.8	11368.9	11474.3	11917.1	12881.9	15275.9	16384.3	14361.4
25°	12477.3	12369.6	12391.1	12068.0	12039.2	12367.2	13087.8	15137.0	16834.3	14629.5
27.5°	13741.3	13619.2	13554.6	13073.4	12843.6	13006.4	13506.7	15184.9	17260.5	14861.7
30°	15321.4	15172.9	15041.3	14359.0	13942.4	13882.6	14157.9	15500.9	17763.2	15105.9
32.5°	17258.1	17085.7	16846.3	15941.4	15354.9	15041.3	15000.6	16063.5	18352.1	15417.1
35°	19563.5	19338.4	18998.5	17827.8	17085.7	16444.1	16111.4	16875.0	19158.9	15886.3
37.5°	21938.3	21684.5	21373.3	19980.0	19067.9	18122.3	17466.3	17976.3	20233.8	16523.1
40°	24128.7	23843.9	23554.2	22314.1	21335.0	20195.5	19125.4	19369.5	21548.0	17284.4
42.5°	25421.5	25210.8	25100.7	24430.4	23673.9	22517.6	21189.0	21021.4	23025.1	18160.6
45°	25364.0	25277.8	25617.8	25895.5	25715.9	25074.4	23606.9	22848.0	24507.0	18919.5
47.5°	24009.0	24066.5	24825.4	26386.2	27073.3	27408.5	26359.9	24641.0	25794.9	19486.8
50°	20322.3	20370.2	22127.4	25493.3	27422.8	29311.7	29091.4	26391.0	26793.2	19834.0
52.5°	17404.1	17435.2	18189.3	22845.6	26268.9	30269.3	31552.4	28040.5	27523.4	19929.7
55°	13109.3	13217.1	14062.1	17923.6	23266.9	29510.4	33051.0	29740.2	27985.4	19939.3
57.5°	7658.3	7775.6	8819.4	12166.1	18084.0	26865.0	33278.5	31248.4	28299.0	19862.7
60°	3751.3	3801.6	4256.5	6394.3	11151.1	21768.3	31449.5	31978.5	28473.8	19822.0
62.5°	2528.0	2520.8	2540.0	3155.2	5494.1	13985.5	27638.3	30700.2	28380.4	19666.4
65°	2173.7	2147.4	2075.6	2214.4	2846.4	6396.7	21354.1	26884.2	27669.4	19276.2
67.5°	1879.3	1881.7	1884.0	1841.0	2032.5	2951.8	13049.5	21177.0	25117.4	17428.0
70°	1556.1	1577.6	1587.2	1587.2	1656.6	1936.7	5570.7	14514.6	19812.4	13664.7
72.5°	1417.2	1371.7	1376.5	1352.6	1352.6	1474.7	2243.1	8228.0	12482.1	7687.0
75°	1156.3	1185.0	1189.8	1173.0	1118.0	1125.2	1331.0	3452.1	5340.9	3188.8
77.5°	998.3	998.3	1007.9	995.9	952.8	842.7	888.2	1338.2	1817.0	1307.1
80°	802.0	799.6	840.3	864.2	797.2	622.4	567.4	739.7	806.8	574.6
82.5°	390.2	414.2	576.9	658.3	605.7	450.1	347.1	459.6	430.9	253.8
85°	227.4	215.5	258.5	366.3	347.1	249.0	167.6	239.4	225.0	129.3
87.5°	71.8	67.0	52.7	124.5	100.5	69.4	45.5	69.4	62.2	28.7
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°
11603.5	0°	11603.5	11603.5	11603.5	11603.5	11603.5	11603.5	11603.5	11603.5	11603.5	11603.5
11641.8	2.5°	11471.9	11189.4	10909.3	10653.1	10497.5	10397.0	10296.4	10183.9	10140.8	10076.2
11673.0	5°	11357.0	10811.1	10325.2	9906.2	9525.6	9226.3	8924.7	8680.5	8570.4	8644.6
11771.1	7.5°	11289.9	10499.9	9750.6	8982.1	8242.4	7651.1	7136.4	6774.9	6612.1	6652.8
11866.9	10°	11230.1	10148.0	9006.1	7792.3	6729.4	5996.9	5470.2	5194.9	5092.0	5113.5
11996.1	12.5°	11175.0	9753.0	8108.3	6511.6	5381.6	4898.0	4747.2	4749.6	4768.8	4783.1
12202.0	15°	11165.4	9276.6	7105.3	5391.2	4653.9	4622.7	4785.5	4888.5	4943.5	4960.3
12374.4	17.5°	11151.1	8706.8	6083.1	4627.5	4476.7	4687.4	4838.2	4905.2	4948.3	4950.7
12542.0	20°	11093.6	7983.9	5139.8	4263.6	4438.4	4620.3	4713.7	4766.4	4802.3	4814.3
12668.8	22.5°	10916.5	7179.5	4404.9	4100.9	4285.2	4431.2	4541.3	4601.2	4622.7	4637.1
12692.8	25°	10598.1	6279.4	3897.4	3945.2	4072.1	4256.5	4345.0	4357.0	4349.8	4371.4
12632.9	27.5°	10181.5	5314.6	3581.4	3734.6	3897.4	4055.4	4103.3	4096.1	4081.7	4105.6
12530.0	30°	9678.8	4448.0	3380.3	3497.6	3720.2	3863.9	3906.9	3890.2	3861.5	3887.8
12477.3	32.5°	9147.3	3739.4	3215.1	3332.4	3574.2	3715.4	3758.5	3741.8	3720.2	3741.8
12537.2	35°	8651.8	3243.8	3061.9	3222.3	3459.3	3598.1	3653.2	3655.6	3655.6	3681.9
12695.2	37.5°	8196.9	2954.1	2935.0	3152.8	3380.3	3504.8	3583.8	3588.5	3485.6	3492.8
12963.3	40°	7775.6	2832.1	2877.5	3107.4	3303.7	3423.4	3428.2	3160.0	2970.9	2966.1
13269.7	42.5°	7430.9	2808.1	2894.3	3102.6	3248.6	3253.4	2915.8	2707.6	2654.9	2657.3
13552.2	45°	7107.7	2800.9	2932.6	3102.6	3167.2	2810.5	2583.1	2528.0	2532.8	2552.0
13679.1	47.5°	6746.2	2772.2	2939.8	3059.5	2932.6	2499.3	2432.3	2408.3	2398.7	2403.5
13650.4	50°	6351.2	2669.3	2848.8	2973.3	2530.4	2365.2	2281.4	2274.3	2286.2	2293.4
13490.0	52.5°	5934.6	2501.7	2693.2	2817.7	2346.1	2247.9	2154.6	2171.3	2224.0	2240.7
13322.4	55°	5661.7	2305.4	2487.3	2506.5	2216.8	2137.8	2058.8	2097.1	2195.3	2226.4
13221.9	57.5°	5589.9	2097.1	2252.7	2231.2	2051.6	2042.0	1994.2	2027.7	2152.2	2197.7
13217.1	60°	5568.4	1910.4	2022.9	2006.1	1891.2	1936.7	1924.7	1941.5	1984.6	1999.0
13169.2	62.5°	5400.8	1762.0	1817.0	1793.1	1747.6	1826.6	1855.3	1819.4	1852.9	1869.7
12841.2	65°	4974.7	1642.3	1615.9	1599.2	1618.3	1690.1	1747.6	1675.8	1706.9	1754.8
11577.2	67.5°	4270.8	1479.5	1407.6	1426.8	1486.7	1525.0	1599.2	1517.8	1544.1	1625.5
9324.5	70°	3454.5	1273.6	1209.0	1264.0	1321.5	1400.5	1412.4	1357.4	1419.6	1510.6
5690.4	72.5°	2444.2	1065.3	1019.8	1132.3	1151.5	1254.4	1228.1	1201.8	1288.0	1319.1
2812.9	75°	1694.9	859.4	833.1	919.3	988.7	1077.3	1058.1	1089.3	1271.2	1285.6
1405.3	77.5°	1072.5	667.9	651.2	706.2	802.0	900.1	931.3	1285.6	2171.3	2257.5
730.2	80°	622.4	497.9	478.8	521.9	605.7	696.6	897.7	1577.6	1431.6	1414.8
328.0	82.5°	347.1	342.3	318.4	330.4	404.6	502.7	1268.8	1110.8	902.5	931.3
131.7	85°	162.8	201.1	172.4	165.2	227.4	588.9	847.5	634.4	421.3	411.8
28.7	87.5°	43.1	38.3	38.3	43.1	95.8	507.5	337.5	270.5	160.4	155.6
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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