

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: P952771

Luminaire Tested: **GALN-SB6C-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952771
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-SB6C-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48865 lumens
Efficiency: N/A
Efficacy: 162.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

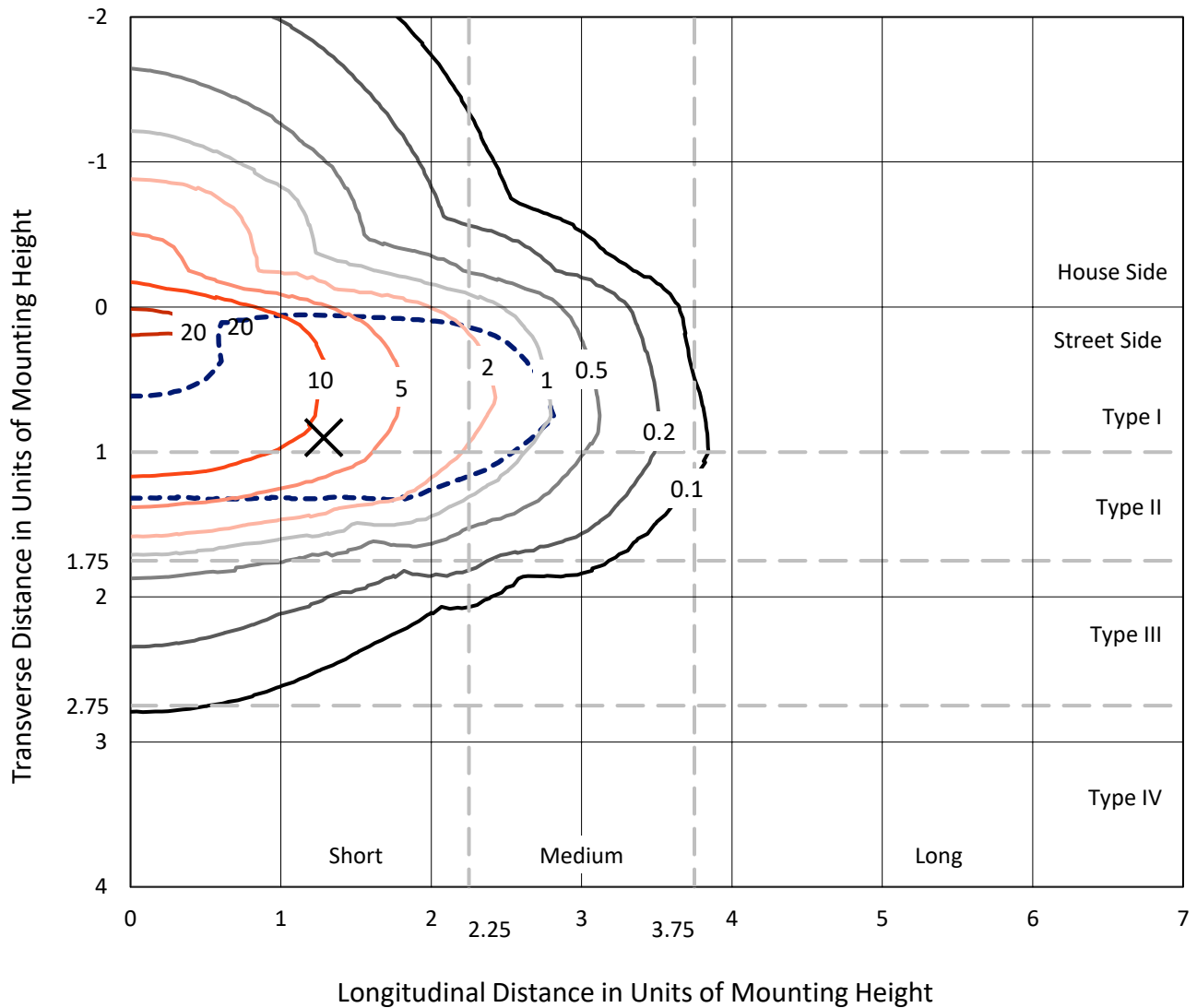
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

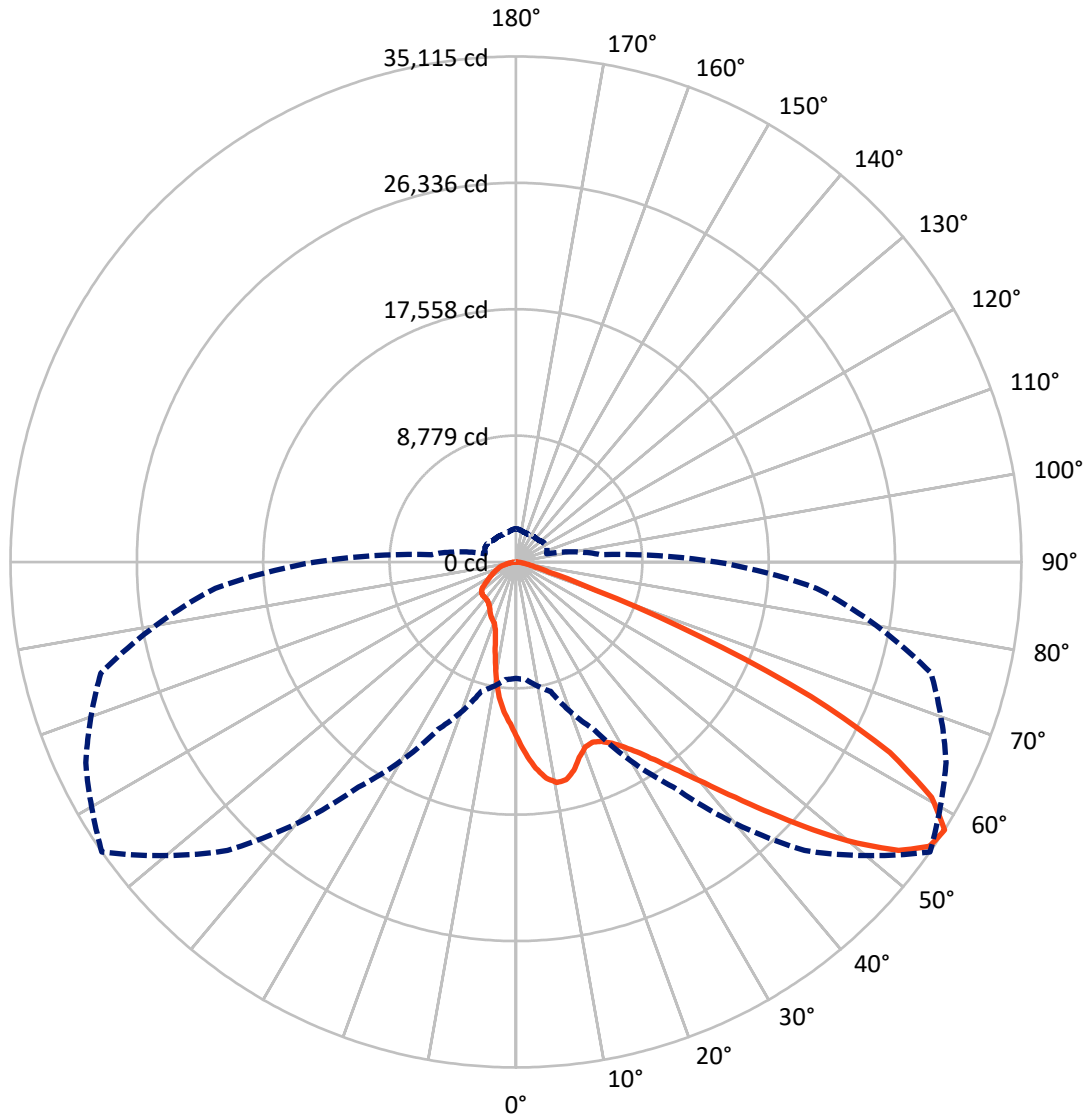
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 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	8841.9	0.0	8841.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	40023.1	0.0	40023.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	48865.0	0.0	48865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1136.2	2.3
10°-20°	2867.7	5.9
20°-30°	4576.1	9.4
30°-40°	7245.1	14.8
40°-50°	11089.4	22.7
50°-60°	11877.8	24.3
60°-70°	7472.3	15.3
70°-80°	2209.7	4.5
80°-90°	390.7	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°	48865.0	100.0
0°-180°	48865.0	100.0

Coefficient of Utilization



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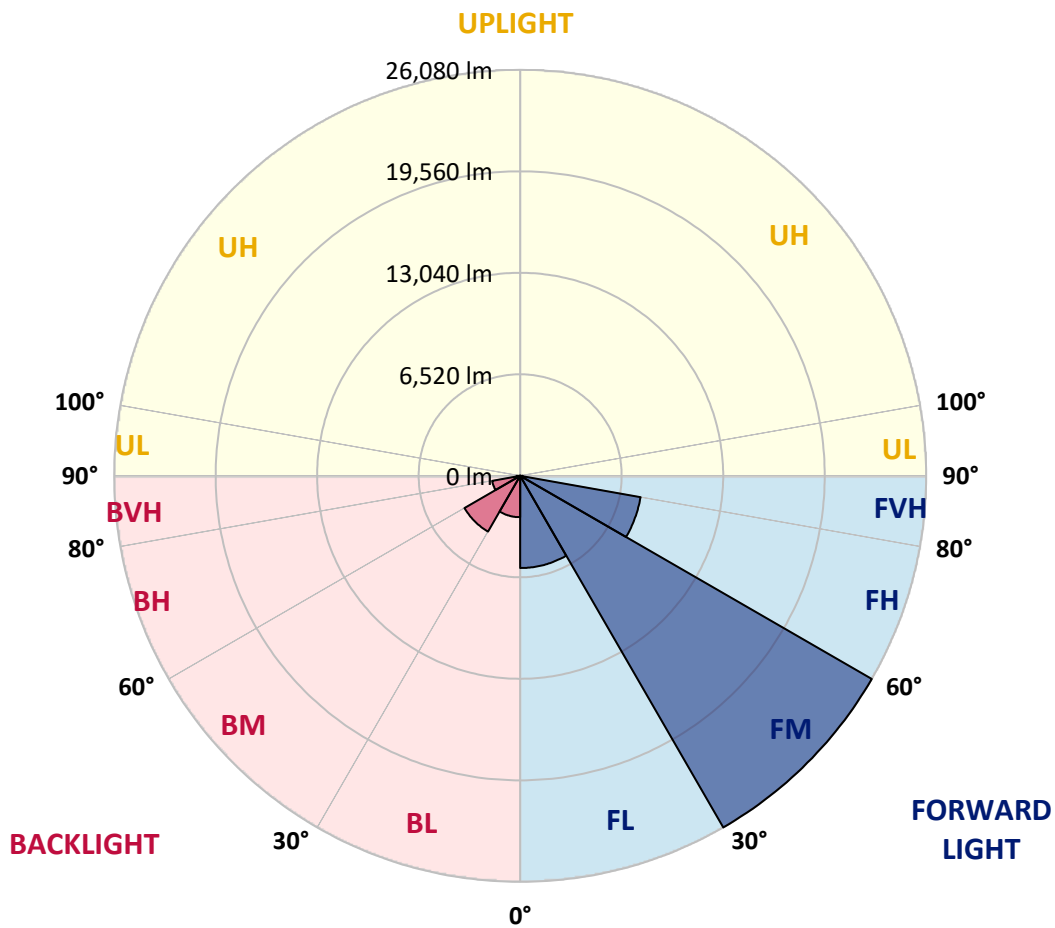
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5922.4	12.1			
FM (30°-60°)	26079.6	53.4			
FH (60°-80°)	7856.0	16.1			G4/12000
FVH (80°-90°)	165.1	0.3			G2/225
BL (0°-30°)	2657.6	5.4	B4/5000		
BM (30°-60°)	4132.6	8.5	B3/5000		
BH (60°-80°)	1826.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	225.6	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12244.0	12244.0	12244.0	12244.0	12244.0	12244.0	12244.0	12244.0	12244.0	12244.0
2.5°	14047.6	14037.5	14093.1	13903.6	13774.8	13600.5	13370.6	13077.6	12761.8	12428.4
5°	15313.2	15224.8	15282.9	15141.4	15000.0	14737.2	14396.2	13918.8	13335.3	12670.9
7.5°	15113.6	15053.0	15202.0	15328.3	15434.4	15401.6	15151.5	14651.4	13898.6	12933.6
10°	13504.5	13436.3	13646.0	14083.0	14724.6	15282.9	15586.0	15275.3	14474.5	13221.6
12.5°	12084.8	12052.0	12190.9	12544.6	13256.9	14328.0	15530.4	15820.9	15073.2	13562.6
15°	11478.6	11438.2	11526.6	11705.9	12160.6	13158.4	15025.2	16194.8	15661.8	13956.7
17.5°	11344.7	11299.2	11337.1	11430.6	11723.6	12484.0	14262.3	16379.2	16275.6	14396.2
20°	11592.3	11554.4	11559.4	11554.4	11759.0	12362.7	13731.9	16308.5	16811.2	14800.4
22.5°	12190.9	12127.8	12130.3	11996.4	12107.6	12574.9	13592.9	16119.0	17288.6	15154.0
25°	13166.0	13052.3	13075.1	12734.0	12703.7	13049.8	13810.2	15972.5	17763.5	15437.0
27.5°	14499.8	14371.0	14302.8	13795.0	13552.5	13724.3	14252.2	16023.0	18213.1	15682.0
30°	16167.0	16010.4	15871.5	15151.5	14712.0	14648.8	14939.3	16356.5	18743.6	15939.7
32.5°	18210.6	18028.7	17776.1	16821.3	16202.4	15871.5	15828.5	16950.1	19365.0	16268.1
35°	20643.2	20405.8	20047.1	18811.8	18028.7	17351.7	17000.6	17806.4	20216.3	16763.2
37.5°	23149.1	22881.4	22553.0	21082.8	20120.3	19122.5	18430.4	18968.4	21350.6	17435.1
40°	25460.5	25159.9	24854.2	23545.7	22512.6	21310.1	20181.0	20438.6	22737.4	18238.4
42.5°	26824.6	26602.3	26486.1	25778.8	24980.6	23760.5	22358.5	22181.6	24296.0	19163.0
45°	26764.0	26673.0	27031.7	27324.8	27135.3	26458.3	24909.8	24109.1	25859.6	19963.7
47.5°	25334.2	25394.8	26195.6	27842.6	28567.6	28921.3	27814.8	26001.1	27218.7	20562.4
50°	21444.0	21494.5	23348.7	26900.4	28936.4	30929.5	30697.1	27847.7	28272.1	20928.7
52.5°	18364.7	18397.6	19193.3	24106.5	27718.8	31939.9	33293.9	29588.2	29042.5	21029.7
55°	13832.9	13946.6	14838.3	18912.9	24551.1	31139.2	34875.3	31381.7	29530.1	21039.8
57.5°	8081.0	8204.8	9306.1	12837.6	19082.1	28347.8	35115.2	32973.1	29861.0	20959.0
60°	3958.4	4011.4	4491.4	6747.2	11766.6	22969.8	33185.3	33743.6	30045.4	20916.1
62.5°	2667.6	2660.0	2680.2	3329.4	5797.4	14757.4	29163.8	32394.6	29946.9	20751.9
65°	2293.7	2265.9	2190.1	2336.6	3003.5	6749.7	22532.8	28368.0	29196.6	20340.1
67.5°	1983.0	1985.5	1988.0	1942.6	2144.7	3114.7	13769.7	22345.8	26503.8	18390.0
70°	1642.0	1664.7	1674.8	1674.8	1748.1	2043.6	5878.2	15315.7	20906.0	14419.0
72.5°	1495.4	1447.5	1452.5	1427.2	1427.2	1556.1	2367.0	8682.2	13171.1	8111.3
75°	1220.1	1250.4	1255.5	1237.8	1179.7	1187.3	1404.5	3642.6	5635.7	3364.8
77.5°	1053.4	1053.4	1063.5	1050.9	1005.4	889.2	937.2	1412.1	1917.3	1379.2
80°	846.2	843.7	886.7	911.9	841.2	656.8	598.7	780.6	851.3	606.3
82.5°	411.8	437.0	608.8	694.7	639.1	474.9	366.3	485.0	454.7	267.8
85°	240.0	227.3	272.8	386.5	366.3	262.7	176.8	252.6	237.5	136.4
87.5°	75.8	70.7	55.6	131.4	106.1	73.3	48.0	73.3	65.7	30.3
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°
12244.0	0°	12244.0	12244.0	12244.0	12244.0	12244.0	12244.0	12244.0	12244.0	12244.0	12244.0
12284.4	2.5°	12105.0	11807.0	11511.4	11241.1	11076.9	10970.8	10864.7	10746.0	10700.5	10632.3
12317.2	5°	11983.8	11407.8	10895.0	10453.0	10051.3	9735.6	9417.3	9159.6	9043.4	9121.7
12420.8	7.5°	11913.1	11079.5	10288.8	9477.9	8697.3	8073.4	7530.3	7148.8	6977.1	7020.0
12521.9	10°	11849.9	10708.1	9503.2	8222.4	7100.9	6327.9	5772.1	5481.6	5373.0	5395.7
12658.3	12.5°	11791.8	10291.3	8555.9	6871.0	5678.7	5168.4	5009.2	5011.8	5032.0	5047.1
12875.5	15°	11781.7	9788.6	7497.5	5688.8	4910.7	4877.9	5049.7	5158.3	5216.4	5234.1
13057.4	17.5°	11766.6	9187.4	6418.8	4882.9	4723.8	4946.1	5105.2	5176.0	5221.4	5224.0
13234.2	20°	11705.9	8424.5	5423.5	4499.0	4683.4	4875.4	4973.9	5029.5	5067.3	5080.0
13368.1	22.5°	11519.0	7575.8	4648.0	4327.2	4521.7	4675.8	4792.0	4855.2	4877.9	4893.0
13393.4	25°	11183.0	6625.9	4112.5	4163.0	4296.9	4491.4	4584.9	4597.5	4589.9	4612.6
13330.2	27.5°	10743.5	5607.9	3779.0	3940.7	4112.5	4279.2	4329.7	4322.1	4307.0	4332.3
13221.6	30°	10213.0	4693.5	3566.8	3690.6	3925.6	4077.1	4122.6	4104.9	4074.6	4102.4
13166.0	32.5°	9652.2	3945.8	3392.5	3516.3	3771.5	3920.5	3966.0	3948.3	3925.6	3948.3
13229.2	35°	9129.3	3422.9	3230.9	3400.1	3650.2	3796.7	3854.8	3857.3	3857.3	3885.1
13395.9	37.5°	8649.3	3117.2	3097.0	3326.9	3566.8	3698.2	3781.6	3786.6	3678.0	3685.6
13678.8	40°	8204.8	2988.4	3036.4	3278.9	3486.0	3612.3	3617.4	3334.4	3134.9	3129.8
14002.1	42.5°	7841.0	2963.1	3054.0	3273.8	3427.9	3433.0	3076.8	2857.0	2801.4	2804.0
14300.2	45°	7500.0	2955.5	3094.5	3273.8	3342.0	2965.6	2725.7	2667.6	2672.6	2692.8
14434.1	47.5°	7118.5	2925.2	3102.0	3228.3	3094.5	2637.2	2566.5	2541.3	2531.1	2536.2
14403.8	50°	6701.7	2816.6	3006.1	3137.4	2670.1	2495.8	2407.4	2399.8	2412.4	2420.0
14234.5	52.5°	6262.2	2639.8	2841.9	2973.2	2475.6	2372.0	2273.5	2291.2	2346.7	2364.4
14057.7	55°	5974.2	2432.6	2624.6	2644.8	2339.2	2255.8	2172.4	2212.9	2316.4	2349.3
13951.6	57.5°	5898.4	2212.9	2377.1	2354.3	2164.9	2154.8	2104.2	2139.6	2271.0	2319.0
13946.6	60°	5875.7	2015.8	2134.6	2116.9	1995.6	2043.6	2031.0	2048.7	2094.1	2109.3
13896.0	62.5°	5698.9	1859.2	1917.3	1892.0	1844.0	1927.4	1957.7	1919.8	1955.2	1972.9
13550.0	65°	5249.2	1732.9	1705.1	1687.4	1707.6	1783.4	1844.0	1768.3	1801.1	1851.6
12216.2	67.5°	4506.6	1561.1	1485.3	1505.6	1568.7	1609.1	1687.4	1601.5	1629.3	1715.2
9839.1	70°	3645.2	1343.9	1275.7	1333.8	1394.4	1477.8	1490.4	1432.3	1498.0	1594.0
6004.5	72.5°	2579.1	1124.1	1076.1	1194.8	1215.1	1323.7	1295.9	1268.1	1359.0	1391.9
2968.2	75°	1788.5	906.9	879.1	970.0	1043.3	1136.7	1116.5	1149.4	1341.4	1356.5
1482.8	77.5°	1131.7	704.8	687.1	745.2	846.2	949.8	982.7	1356.5	2291.2	2382.1
770.5	80°	656.8	525.4	505.2	550.7	639.1	735.1	947.3	1664.7	1510.6	1492.9
346.1	82.5°	366.3	361.2	336.0	348.6	426.9	530.5	1338.8	1172.1	952.3	982.7
138.9	85°	171.8	212.2	181.9	174.3	240.0	621.4	894.2	669.4	444.6	434.5
30.3	87.5°	45.5	40.4	40.4	45.5	101.0	535.5	356.2	285.4	169.2	164.2
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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