

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: P957181

Luminaire Tested: **GALN-SB9C-840-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957181  
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-SB9C-840-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

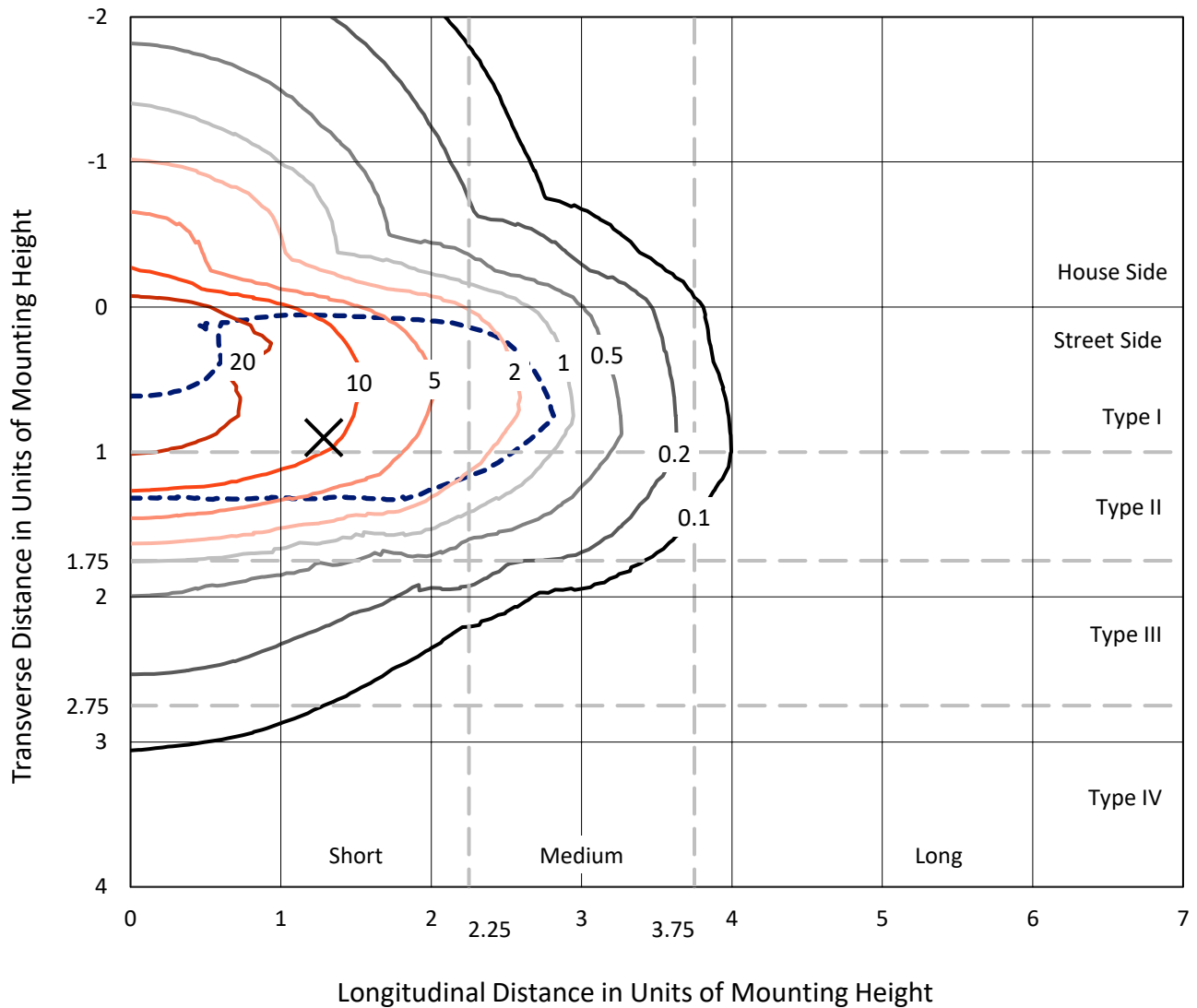
Lumens per Lamp: N/A  
Luminaire Lumens: 66359 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

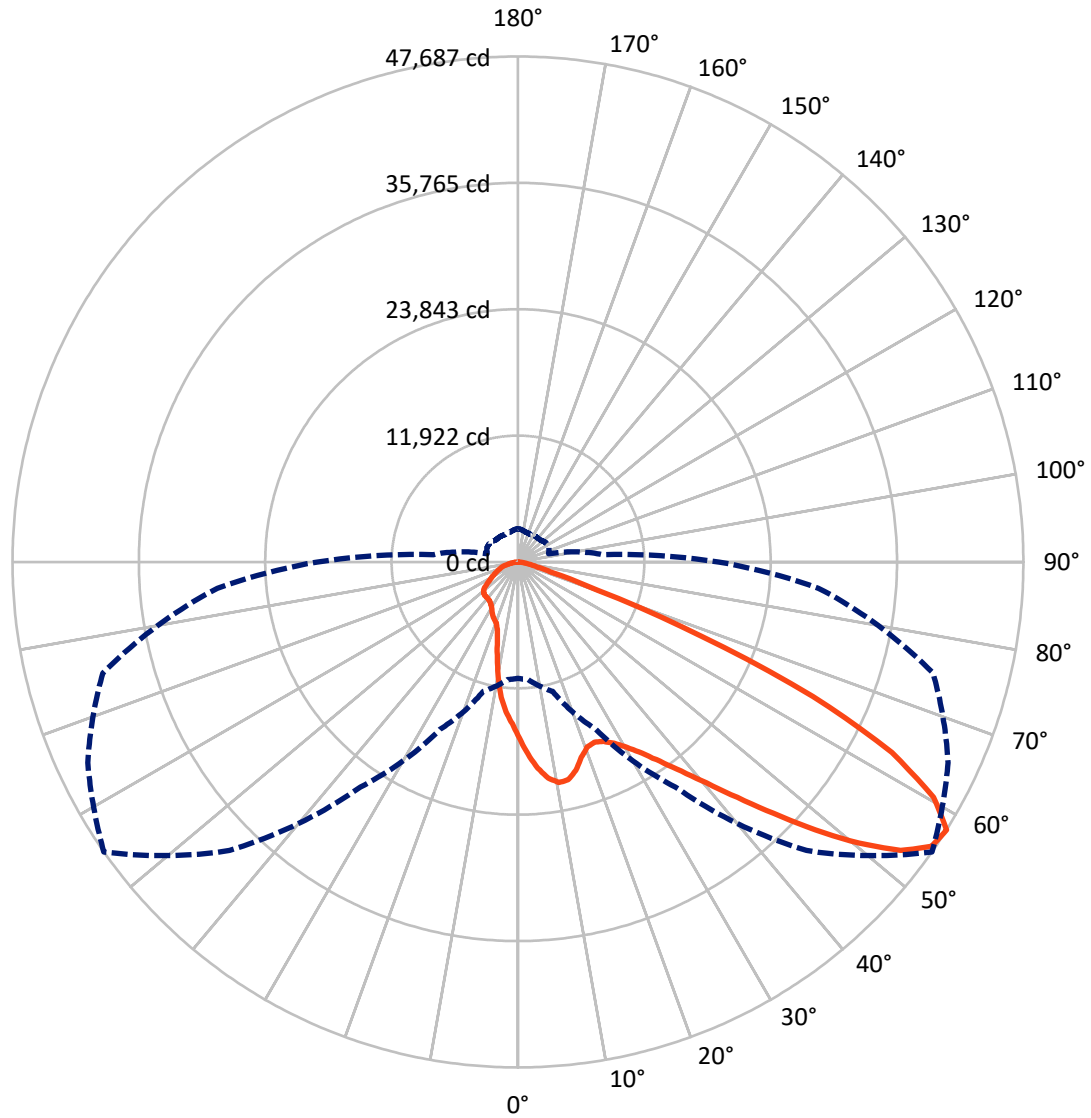
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.1 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	12007.3	0.0	12007.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	54351.7	0.0	54351.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	66359.0	0.0	66359.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1542.9	2.3
10°-20°	3894.4	5.9
20°-30°	6214.4	9.4
30°-40°	9838.9	14.8
40°-50°	15059.4	22.7
50°-60°	16130.1	24.3
60°-70°	10147.5	15.3
70°-80°	3000.8	4.5
80°-90°	530.6	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°	66359.0	100.0
0°-180°	66359.0	100.0

**Coefficient of Utilization**



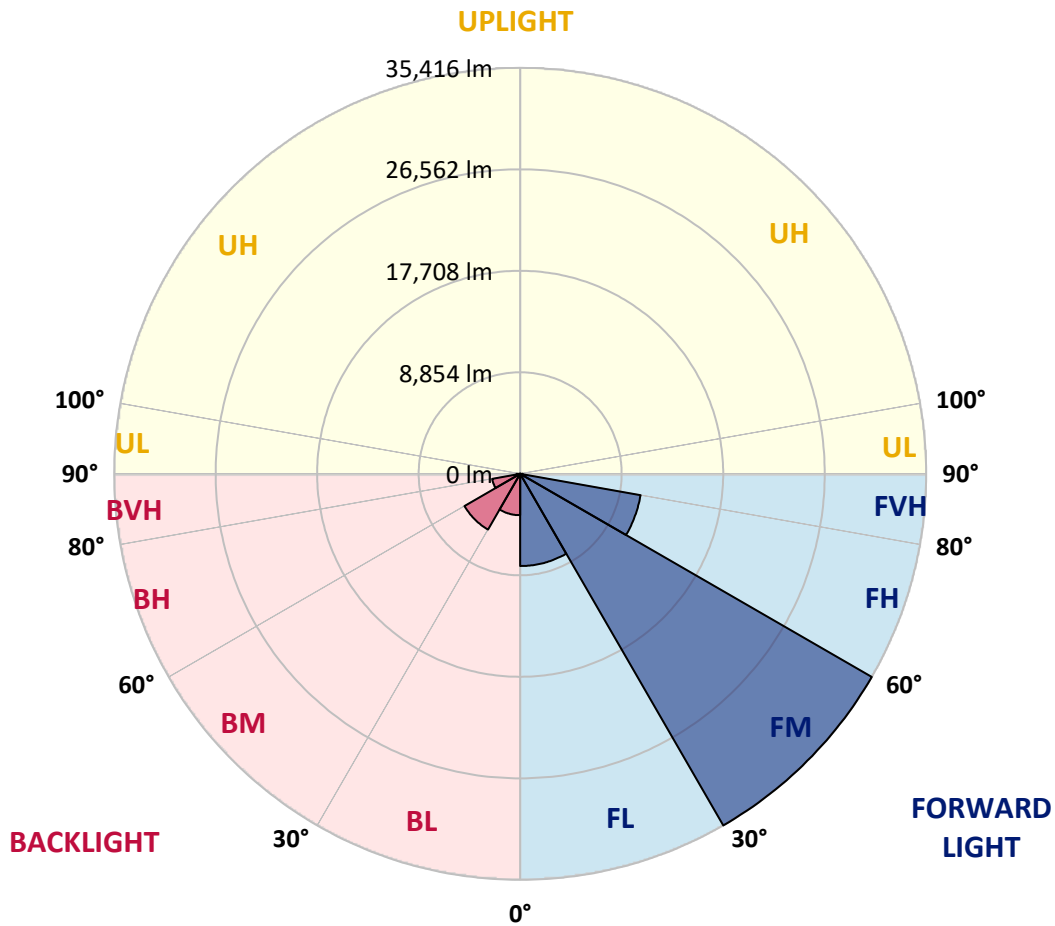
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8042.7	12.1			
FM (30°-60°)	35416.3	53.4			
FH (60°-80°)	10668.5	16.1			G4/12000
FVH (80°-90°)	224.2	0.3			G2/225
BL (0°-30°)	3609.0	5.4	B4/5000		
BM (30°-60°)	5612.1	8.5	B4/8500		
BH (60°-80°)	2479.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	306.4	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-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16627.4	16627.4	16627.4	16627.4	16627.4	16627.4	16627.4	16627.4	16627.4	16627.4
2.5°	19076.8	19063.0	19138.5	18881.2	18706.3	18469.6	18157.4	17759.5	17330.7	16877.8
5°	20795.4	20675.3	20754.2	20562.1	20370.0	20013.3	19550.2	18901.8	18109.4	17207.2
7.5°	20524.4	20442.1	20644.5	20816.0	20960.1	20915.5	20575.9	19896.6	18874.4	17563.9
10°	18339.2	18246.6	18531.3	19124.8	19996.1	20754.2	21165.9	20744.0	19656.5	17955.0
12.5°	16411.3	16366.7	16555.4	17035.6	18003.0	19457.5	21090.4	21484.9	20469.5	18418.1
15°	15588.0	15533.1	15653.2	15896.7	16514.2	17869.2	20404.3	21992.6	21268.8	18953.3
17.5°	15406.2	15344.4	15395.9	15522.8	15920.7	16953.3	19368.3	22243.1	22102.4	19550.2
20°	15742.4	15690.9	15697.8	15690.9	15968.8	16788.6	18647.9	22147.0	22829.7	20099.0
22.5°	16555.4	16469.6	16473.0	16291.2	16442.2	17076.8	18459.3	21889.7	23478.0	20579.3
25°	17879.5	17725.2	17756.0	17292.9	17251.8	17721.7	18754.3	21690.8	24123.0	20963.5
27.5°	19690.8	19515.9	19423.2	18733.7	18404.4	18637.7	19354.6	21759.4	24733.6	21296.3
30°	21954.9	21742.2	21553.5	20575.9	19979.0	19893.2	20287.7	22212.2	25454.0	21646.2
32.5°	24730.1	24483.2	24140.1	22843.4	22002.9	21553.5	21495.2	23018.3	26297.9	22092.1
35°	28033.7	27711.2	27224.1	25546.6	24483.2	23563.8	23087.0	24181.3	27453.9	22764.5
37.5°	31436.7	31073.1	30627.1	28630.6	27323.6	25968.5	25028.6	25759.3	28994.2	23677.0
40°	34575.5	34167.3	33752.2	31975.3	30572.2	28939.3	27405.9	27755.8	30877.5	24767.9
42.5°	36428.0	36126.1	35968.3	35007.8	33923.8	32266.9	30362.9	30122.8	32994.1	26023.4
45°	36345.7	36222.2	36709.3	37107.2	36849.9	35930.6	33827.7	32740.3	35117.6	27110.9
47.5°	34404.0	34486.4	35573.8	37810.5	38795.0	39275.3	37772.7	35309.7	36963.1	27923.9
50°	29121.1	29189.7	31707.7	36530.9	39295.9	42002.5	41686.9	37817.3	38393.6	28421.3
52.5°	24939.4	24984.0	26064.6	32736.8	37642.4	43374.7	45213.4	40180.9	39439.9	28558.5
55°	18785.2	18939.5	20150.5	25683.8	33340.6	42287.2	47360.9	42616.5	40102.0	28572.3
57.5°	10974.0	11142.1	12637.8	17433.6	25913.7	38496.6	47686.7	44777.7	40551.4	28462.5
60°	5375.5	5447.6	6099.3	9162.7	15979.1	31193.1	45065.9	45824.0	40801.8	28404.2
62.5°	3622.6	3612.3	3639.7	4521.3	7872.9	20040.7	39604.6	43992.1	40668.0	28181.2
65°	3114.9	3077.1	2974.2	3173.2	4078.8	9166.2	30599.7	38524.0	39649.2	27622.0
67.5°	2692.9	2696.3	2699.8	2638.0	2912.5	4229.8	18699.4	30345.8	35992.3	24973.7
70°	2229.8	2260.7	2274.4	2274.4	2373.9	2775.2	7982.7	20798.8	28390.4	19581.0
72.5°	2030.8	1965.7	1972.5	1938.2	1938.2	2113.2	3214.3	11790.5	17886.4	11015.2
75°	1656.9	1698.1	1704.9	1680.9	1602.0	1612.3	1907.3	4946.7	7653.3	4569.4
77.5°	1430.5	1430.5	1444.2	1427.1	1365.3	1207.5	1272.7	1917.6	2603.7	1873.0
80°	1149.2	1145.8	1204.1	1238.4	1142.3	891.9	813.0	1060.0	1156.1	823.3
82.5°	559.2	593.5	826.7	943.4	867.9	644.9	497.4	658.6	617.5	363.6
85°	325.9	308.7	370.5	524.9	497.4	356.8	240.1	343.0	322.5	185.2
87.5°	102.9	96.1	75.5	178.4	144.1	99.5	65.2	99.5	89.2	41.2
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°
16627.4	0°	16627.4	16627.4	16627.4	16627.4	16627.4	16627.4	16627.4	16627.4	16627.4	16627.4
16682.3	2.5°	16438.7	16033.9	15632.6	15265.5	15042.5	14898.5	14754.4	14593.2	14531.4	14438.8
16726.9	5°	16274.1	15491.9	14795.5	14195.2	13649.8	13221.0	12788.7	12438.8	12281.0	12387.4
16867.5	7.5°	16178.0	15046.0	13972.2	12871.1	11811.1	10963.7	10226.2	9708.2	9474.9	9533.2
17004.8	10°	16092.3	14541.7	12905.4	11166.1	9643.0	8593.3	7838.6	7444.1	7296.6	7327.5
17190.0	12.5°	16013.4	13975.7	11618.9	9330.8	7711.7	7018.7	6802.6	6806.0	6833.5	6854.0
17485.0	15°	15999.6	13293.0	10181.6	7725.4	6668.8	6624.2	6857.5	7005.0	7083.9	7107.9
17732.0	17.5°	15979.1	12476.6	8716.8	6631.1	6414.9	6716.8	6932.9	7029.0	7090.7	7094.2
17972.1	20°	15896.7	11440.6	7365.2	6109.6	6360.1	6620.8	6754.6	6830.0	6881.5	6898.6
18154.0	22.5°	15642.9	10287.9	6312.0	5876.4	6140.5	6349.8	6507.6	6593.3	6624.2	6644.8
18188.3	25°	15186.6	8998.1	5584.8	5653.4	5835.2	6099.3	6226.3	6243.4	6233.1	6264.0
18102.5	27.5°	14589.7	7615.6	5132.0	5351.5	5584.8	5811.2	5879.8	5869.5	5848.9	5883.2
17955.0	30°	13869.3	6373.8	4843.8	5011.9	5330.9	5536.8	5598.5	5574.5	5533.3	5571.1
17879.5	32.5°	13107.8	5358.4	4607.1	4775.2	5121.7	5324.1	5385.8	5361.8	5330.9	5361.8
17965.3	35°	12397.7	4648.3	4387.6	4617.4	4957.0	5156.0	5234.9	5238.3	5238.3	5276.0
18191.7	37.5°	11745.9	4233.2	4205.7	4517.9	4843.8	5022.2	5135.4	5142.3	4994.7	5005.0
18575.9	40°	11142.1	4058.2	4123.4	4452.7	4734.0	4905.5	4912.4	4528.2	4257.2	4250.3
19015.0	42.5°	10648.1	4023.9	4147.4	4445.9	4655.1	4662.0	4178.3	3879.8	3804.4	3807.8
19419.8	45°	10185.0	4013.6	4202.3	4445.9	4538.5	4027.4	3701.5	3622.6	3629.4	3656.9
19601.6	47.5°	9667.0	3972.5	4212.6	4384.1	4202.3	3581.4	3485.3	3451.0	3437.3	3444.2
19560.4	50°	9101.0	3825.0	4082.2	4260.6	3626.0	3389.3	3269.2	3258.9	3276.1	3286.4
19330.6	52.5°	8504.1	3584.8	3859.3	4037.6	3361.8	3221.2	3087.4	3111.4	3186.9	3210.9
19090.5	55°	8113.0	3303.5	3564.2	3591.7	3176.6	3063.4	2950.2	3005.1	3145.7	3190.3
18946.4	57.5°	8010.1	3005.1	3228.1	3197.2	2939.9	2926.2	2857.6	2905.6	3084.0	3149.2
18939.5	60°	7979.2	2737.5	2898.7	2874.7	2710.1	2775.2	2758.1	2782.1	2843.8	2864.4
18870.9	62.5°	7739.1	2524.8	2603.7	2569.4	2504.2	2617.4	2658.6	2607.1	2655.2	2679.2
18401.0	65°	7128.5	2353.3	2315.6	2291.5	2319.0	2421.9	2504.2	2401.3	2445.9	2514.5
16589.7	67.5°	6119.9	2120.0	2017.1	2044.6	2130.3	2185.2	2291.5	2174.9	2212.6	2329.3
13361.6	70°	4950.1	1825.0	1732.4	1811.3	1893.6	2006.8	2024.0	1945.1	2034.3	2164.6
8154.2	72.5°	3502.5	1526.6	1461.4	1622.6	1650.0	1797.6	1759.8	1722.1	1845.6	1890.2
4030.8	75°	2428.8	1231.5	1193.8	1317.3	1416.8	1543.7	1516.3	1560.9	1821.6	1842.2
2013.7	77.5°	1536.8	957.1	933.1	1012.0	1149.2	1289.9	1334.4	1842.2	3111.4	3234.9
1046.3	80°	891.9	713.5	686.1	747.8	867.9	998.3	1286.4	2260.7	2051.4	2027.4
470.0	82.5°	497.4	490.6	456.3	473.4	579.7	720.4	1818.1	1591.7	1293.3	1334.4
188.7	85°	233.3	288.2	247.0	236.7	325.9	843.9	1214.4	909.1	603.8	590.0
41.2	87.5°	61.7	54.9	54.9	61.7	137.2	727.3	483.7	387.6	229.8	223.0
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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