

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: P951826

Luminaire Tested: **GALN-SB5D-840-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951826
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-SB5D-840-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50006 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

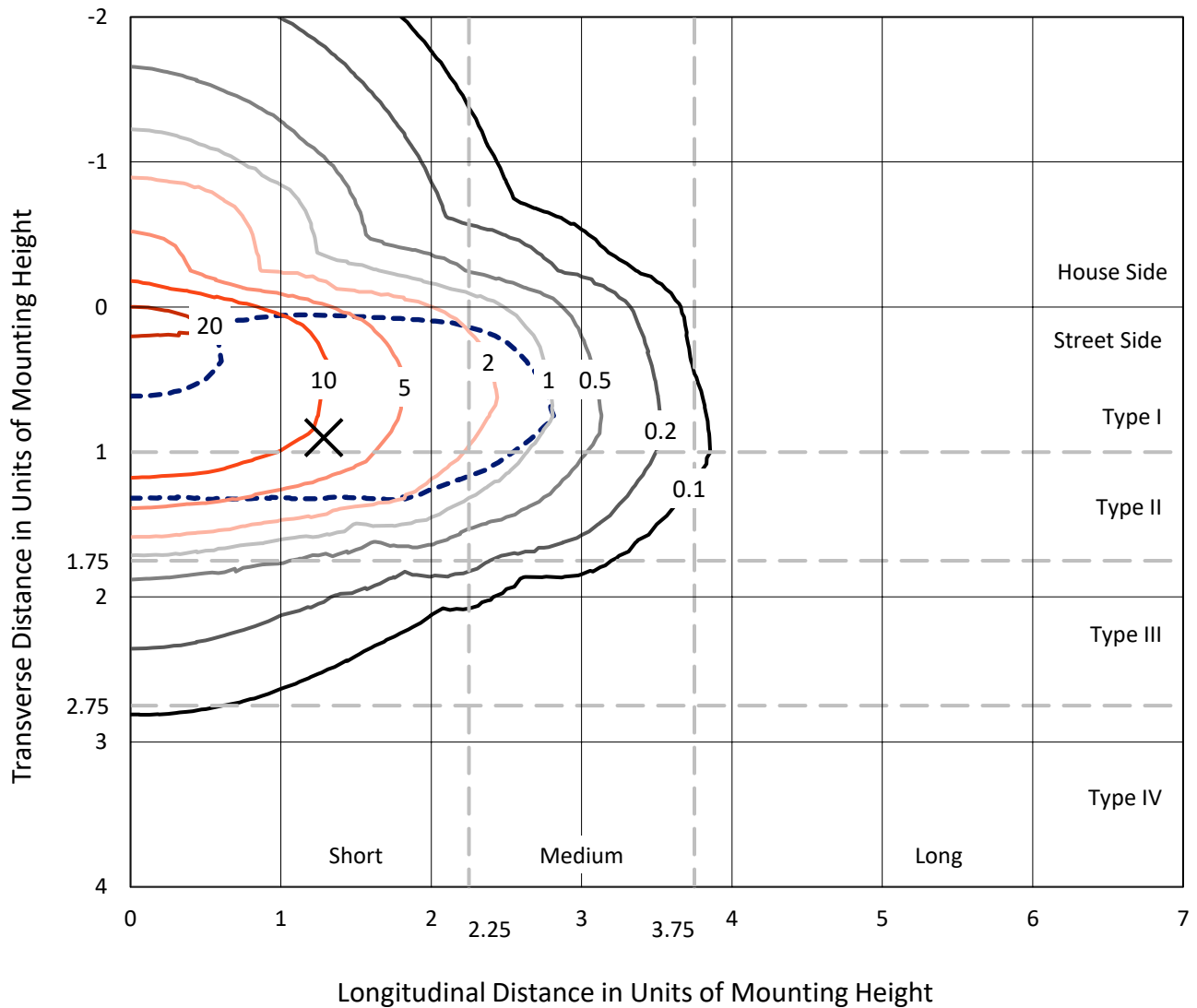
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

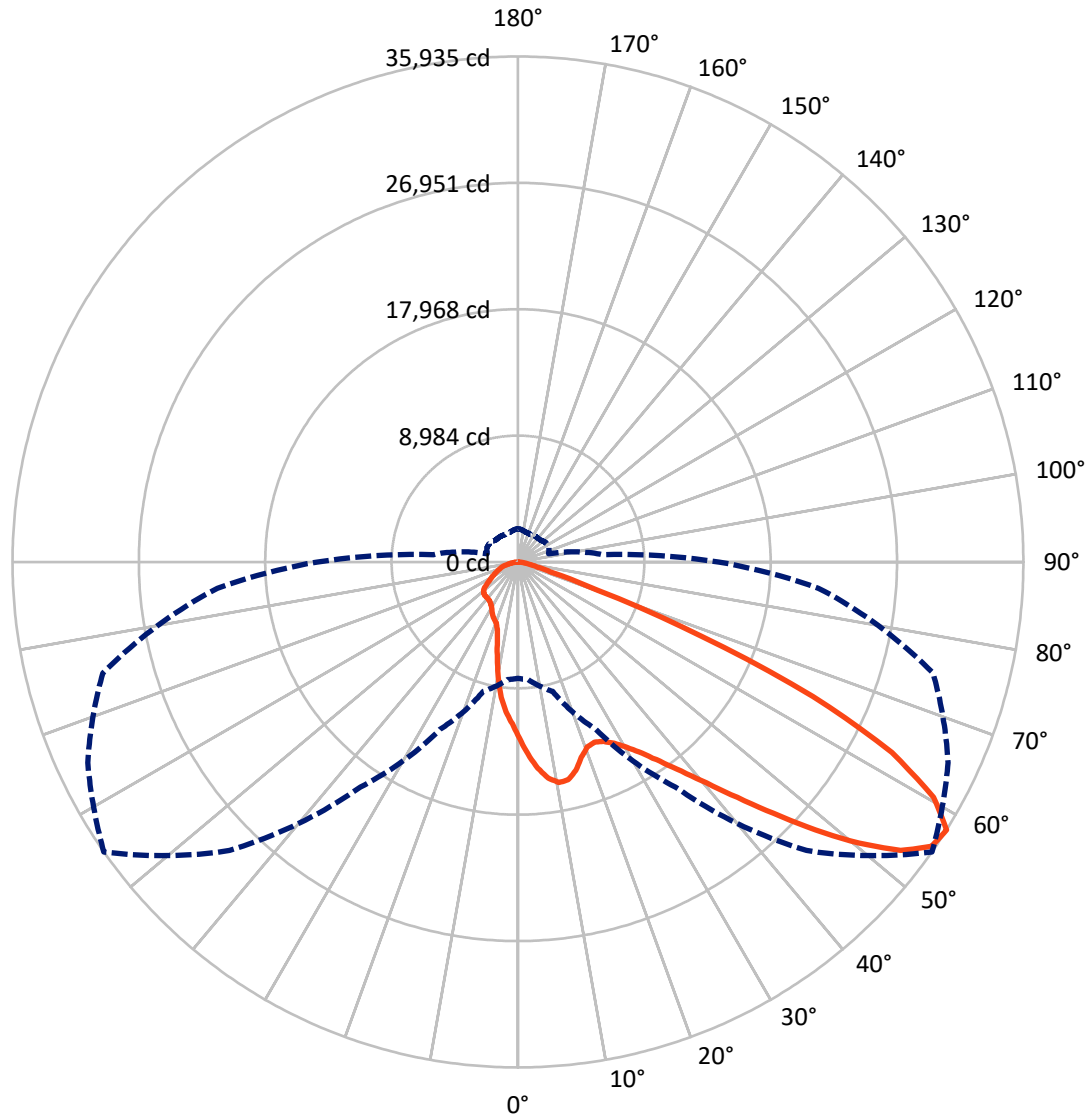
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 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	9048.3	0.0	9048.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	40957.7	0.0	40957.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	50006.0	0.0	50006.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1162.7	2.3
10°-20°	2934.7	5.9
20°-30°	4683.0	9.4
30°-40°	7414.3	14.8
40°-50°	11348.3	22.7
50°-60°	12155.1	24.3
60°-70°	7646.8	15.3
70°-80°	2261.3	4.5
80°-90°	399.8	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°	50006.0	100.0
0°-180°	50006.0	100.0



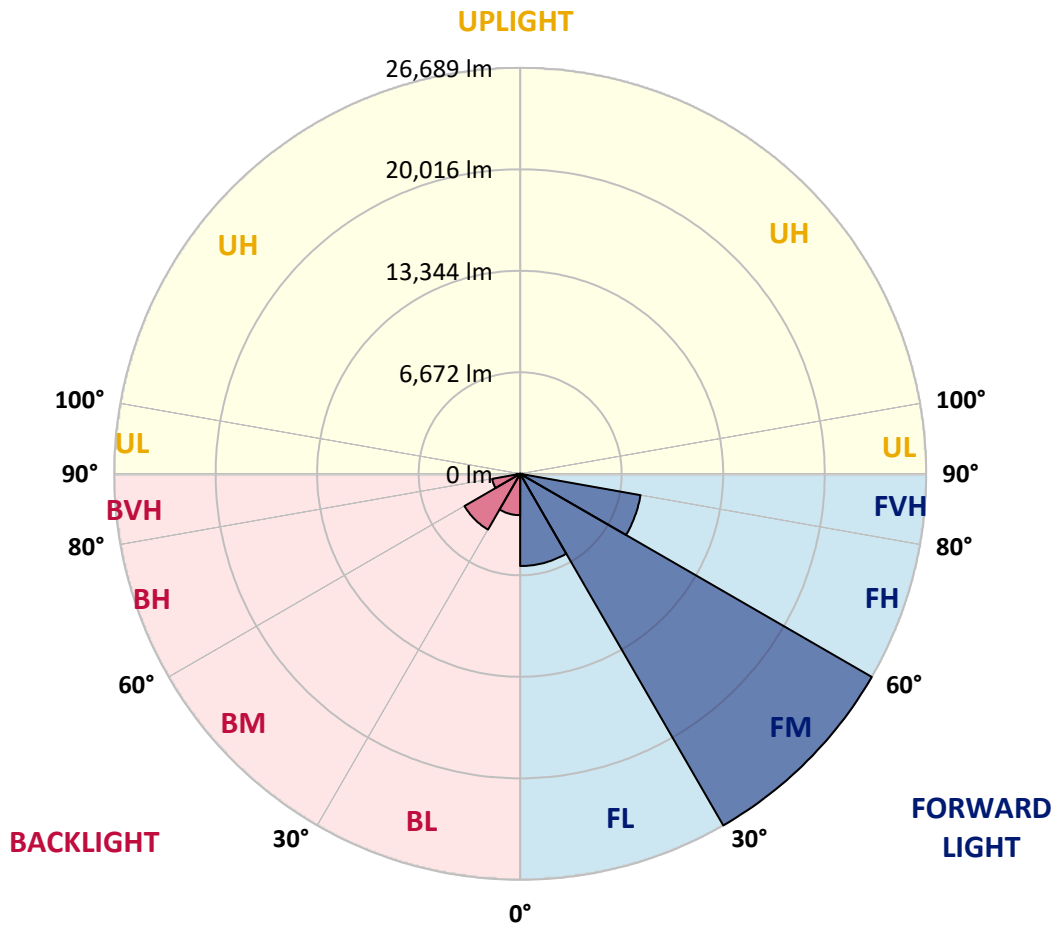
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6060.7	12.1			
FM (30°-60°)	26688.6	53.4			
FH (60°-80°)	8039.4	16.1			G4/12000
FVH (80°-90°)	168.9	0.3			G2/225
BL (0°-30°)	2719.6	5.4	B4/5000		
BM (30°-60°)	4229.1	8.5	B3/5000		
BH (60°-80°)	1868.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	230.9	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°	12529.9	12529.9	12529.9	12529.9	12529.9	12529.9	12529.9	12529.9	12529.9	12529.9
2.5°	14375.6	14365.3	14422.2	14228.3	14096.4	13918.1	13682.8	13383.0	13059.8	12718.6
5°	15670.8	15580.3	15639.7	15495.0	15350.2	15081.4	14732.4	14243.8	13646.6	12966.8
7.5°	15466.5	15404.5	15557.0	15686.3	15794.8	15761.2	15505.3	14993.5	14223.1	13235.6
10°	13819.8	13750.0	13964.6	14411.8	15068.4	15639.7	15949.9	15632.0	14812.5	13530.3
12.5°	12367.0	12333.4	12475.6	12837.5	13566.5	14662.6	15893.1	16190.4	15425.2	13879.3
15°	11746.6	11705.2	11795.7	11979.3	12444.6	13465.7	15376.1	16572.9	16027.5	14282.6
17.5°	11609.6	11563.1	11601.8	11697.5	11997.4	12775.5	14595.4	16761.7	16655.7	14732.4
20°	11862.9	11824.2	11829.3	11824.2	12033.5	12651.4	14052.5	16689.3	17203.7	15146.0
22.5°	12475.6	12411.0	12413.6	12276.5	12390.3	12868.5	13910.3	16495.4	17692.3	15507.9
25°	13473.4	13357.1	13380.4	13031.4	13000.4	13354.5	14132.6	16345.5	18178.3	15797.4
27.5°	14838.4	14706.5	14636.7	14117.1	13869.0	14044.7	14585.0	16397.2	18638.4	16048.2
30°	16544.5	16384.2	16242.1	15505.3	15055.5	14990.9	15288.2	16738.4	19181.3	16311.9
32.5°	18635.8	18449.7	18191.2	17214.0	16580.7	16242.1	16198.1	17345.9	19817.2	16647.9
35°	21125.3	20882.3	20515.2	19251.1	18449.7	17756.9	17397.6	18222.2	20688.4	17154.6
37.5°	23689.7	23415.7	23079.6	21575.1	20590.2	19569.1	18860.7	19411.4	21849.1	17842.2
40°	26055.0	25747.4	25434.6	24095.5	23038.2	21807.7	20652.2	20915.9	23268.3	18664.3
42.5°	27451.0	27223.5	27104.6	26380.7	25563.9	24315.3	22880.5	22699.6	24863.3	19610.4
45°	27388.9	27295.9	27662.9	27962.8	27768.9	27076.1	25491.5	24672.0	26463.5	20429.9
47.5°	25925.8	25987.8	26807.3	28492.7	29234.7	29596.6	28464.3	26608.2	27854.2	21042.5
50°	21944.7	21996.4	23893.9	27528.5	29612.1	31651.7	31413.9	28497.9	28932.2	21417.4
52.5°	18793.5	18827.1	19641.4	24669.4	28366.1	32685.7	34071.3	30279.0	29720.7	21520.8
55°	14155.9	14272.2	15184.8	19354.5	25124.4	31866.3	35689.6	32114.4	30219.6	21531.1
57.5°	8269.7	8396.3	9523.4	13137.4	19527.7	29009.8	35935.2	33743.0	30558.2	21448.4
60°	4050.8	4105.1	4596.3	6904.7	12041.3	23506.1	33960.2	34531.5	30746.9	21404.5
62.5°	2729.8	2722.1	2742.8	3407.1	5932.8	15102.0	29844.7	33151.1	30646.1	21236.4
65°	2347.3	2318.8	2241.3	2391.2	3073.7	6907.3	23058.9	29030.4	29878.3	20815.1
67.5°	2029.3	2031.9	2034.5	1987.9	2194.7	3187.4	14091.3	22867.6	27122.7	18819.4
70°	1680.3	1703.6	1713.9	1713.9	1788.9	2091.3	6015.5	15673.3	21394.1	14755.6
72.5°	1530.4	1481.3	1486.4	1460.6	1460.6	1592.4	2422.2	8884.9	13478.6	8300.7
75°	1248.6	1279.6	1284.8	1266.7	1207.2	1215.0	1437.3	3727.7	5767.3	3443.3
77.5°	1078.0	1078.0	1088.3	1075.4	1028.9	909.9	959.1	1445.1	1962.1	1411.5
80°	866.0	863.4	907.4	933.2	860.8	672.1	612.7	798.8	871.2	620.4
82.5°	421.4	447.2	623.0	710.9	654.0	486.0	374.8	496.3	465.3	274.0
85°	245.6	232.7	279.2	395.5	374.8	268.8	181.0	258.5	243.0	139.6
87.5°	77.6	72.4	56.9	134.4	108.6	75.0	49.1	75.0	67.2	31.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
12529.9	0°	12529.9	12529.9	12529.9	12529.9	12529.9	12529.9	12529.9	12529.9	12529.9	12529.9
12571.2	2.5°	12387.7	12082.7	11780.2	11503.6	11335.6	11227.0	11118.4	10996.9	10950.4	10880.6
12604.8	5°	12263.6	11674.2	11149.4	10697.1	10286.0	9962.9	9637.2	9373.5	9254.6	9334.7
12710.8	7.5°	12191.2	11338.2	10529.0	9699.2	8900.4	8261.9	7706.1	7315.8	7140.0	7183.9
12814.2	10°	12126.6	10958.2	9725.1	8414.4	7266.7	6475.6	5906.9	5609.6	5498.5	5521.7
12953.8	12.5°	12067.2	10531.6	8755.7	7031.4	5811.3	5289.1	5126.2	5128.8	5149.5	5165.0
13176.2	15°	12056.8	10017.2	7672.5	5821.6	5025.4	4991.8	5167.6	5278.7	5338.2	5356.3
13362.3	17.5°	12041.3	9401.9	6568.7	4997.0	4834.1	5061.6	5224.4	5296.8	5343.4	5345.9
13543.2	20°	11979.3	8621.2	5550.2	4604.0	4792.7	4989.2	5090.0	5146.9	5185.7	5198.6
13680.2	22.5°	11788.0	7752.7	4756.5	4428.2	4627.3	4785.0	4903.9	4968.5	4991.8	5007.3
13706.1	25°	11444.1	6780.7	4208.5	4260.2	4397.2	4596.3	4691.9	4704.8	4697.1	4720.4
13641.5	27.5°	10994.3	5738.9	3867.3	4032.7	4208.5	4379.1	4430.8	4423.1	4407.6	4433.4
13530.3	30°	10451.5	4803.1	3650.1	3776.8	4017.2	4172.3	4218.8	4200.8	4169.7	4198.2
13473.4	32.5°	9877.6	4037.9	3471.8	3598.4	3859.5	4012.0	4058.6	4040.5	4017.2	4040.5
13538.1	35°	9342.5	3502.8	3306.3	3479.5	3735.4	3885.4	3944.8	3947.4	3947.4	3975.9
13708.7	37.5°	8851.3	3190.0	3169.3	3404.5	3650.1	3784.6	3869.9	3875.0	3763.9	3771.6
13998.2	40°	8396.3	3058.1	3107.3	3355.4	3567.4	3696.7	3701.8	3412.3	3208.1	3202.9
14329.1	42.5°	8024.1	3032.3	3125.4	3350.3	3508.0	3513.1	3148.6	2923.7	2866.9	2869.4
14634.1	45°	7675.1	3024.5	3166.7	3350.3	3420.1	3034.9	2789.3	2729.8	2735.0	2755.7
14771.1	47.5°	7284.8	2993.5	3174.5	3303.7	3166.7	2698.8	2626.4	2600.6	2590.2	2595.4
14740.1	50°	6858.2	2882.4	3076.2	3210.7	2732.4	2554.1	2463.6	2455.8	2468.8	2476.5
14566.9	52.5°	6408.4	2701.4	2908.2	3042.6	2533.4	2427.4	2326.6	2344.7	2401.5	2419.6
14386.0	55°	6113.7	2489.4	2685.9	2706.6	2393.8	2308.5	2223.2	2264.5	2370.5	2404.1
14277.4	57.5°	6036.2	2264.5	2432.6	2409.3	2215.4	2205.1	2153.4	2189.6	2324.0	2373.1
14272.2	60°	6012.9	2062.9	2184.4	2166.3	2042.2	2091.3	2078.4	2096.5	2143.0	2158.5
14220.5	62.5°	5831.9	1902.6	1962.1	1936.2	1887.1	1972.4	2003.4	1964.7	2000.9	2018.9
13866.4	65°	5371.8	1773.4	1744.9	1726.8	1747.5	1825.1	1887.1	1809.6	1843.2	1894.9
12501.4	67.5°	4611.8	1597.6	1520.0	1540.7	1605.3	1646.7	1726.8	1638.9	1667.4	1755.3
10068.9	70°	3730.3	1375.3	1305.5	1364.9	1427.0	1512.3	1525.2	1465.7	1533.0	1631.2
6144.7	72.5°	2639.4	1150.4	1101.2	1222.7	1243.4	1354.6	1326.1	1297.7	1390.8	1424.4
3037.5	75°	1830.2	928.0	899.6	992.7	1067.6	1163.3	1142.6	1176.2	1372.7	1388.2
1517.4	77.5°	1158.1	721.2	703.1	762.6	866.0	972.0	1005.6	1388.2	2344.7	2437.7
788.4	80°	672.1	537.7	517.0	563.5	654.0	752.3	969.4	1703.6	1545.9	1527.8
354.2	82.5°	374.8	369.7	343.8	356.7	436.9	542.9	1370.1	1199.5	974.6	1005.6
142.2	85°	175.8	217.1	186.1	178.4	245.6	635.9	915.1	685.0	455.0	444.6
31.0	87.5°	46.5	41.4	41.4	46.5	103.4	548.0	364.5	292.1	173.2	168.0
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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