

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: P954724

Luminaire Tested: **GALN-SB7D-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954724
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-SB7D-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44801 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

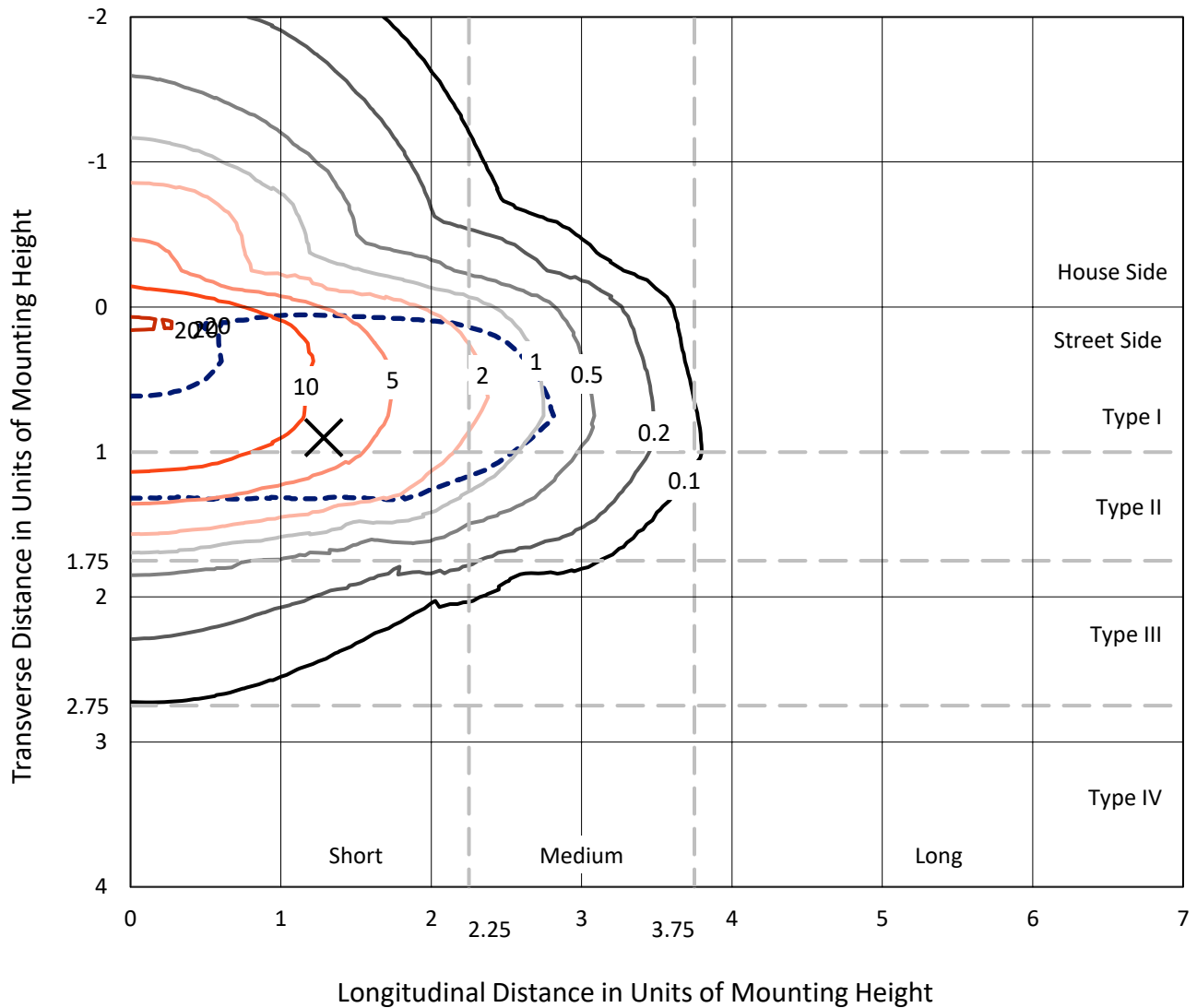
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

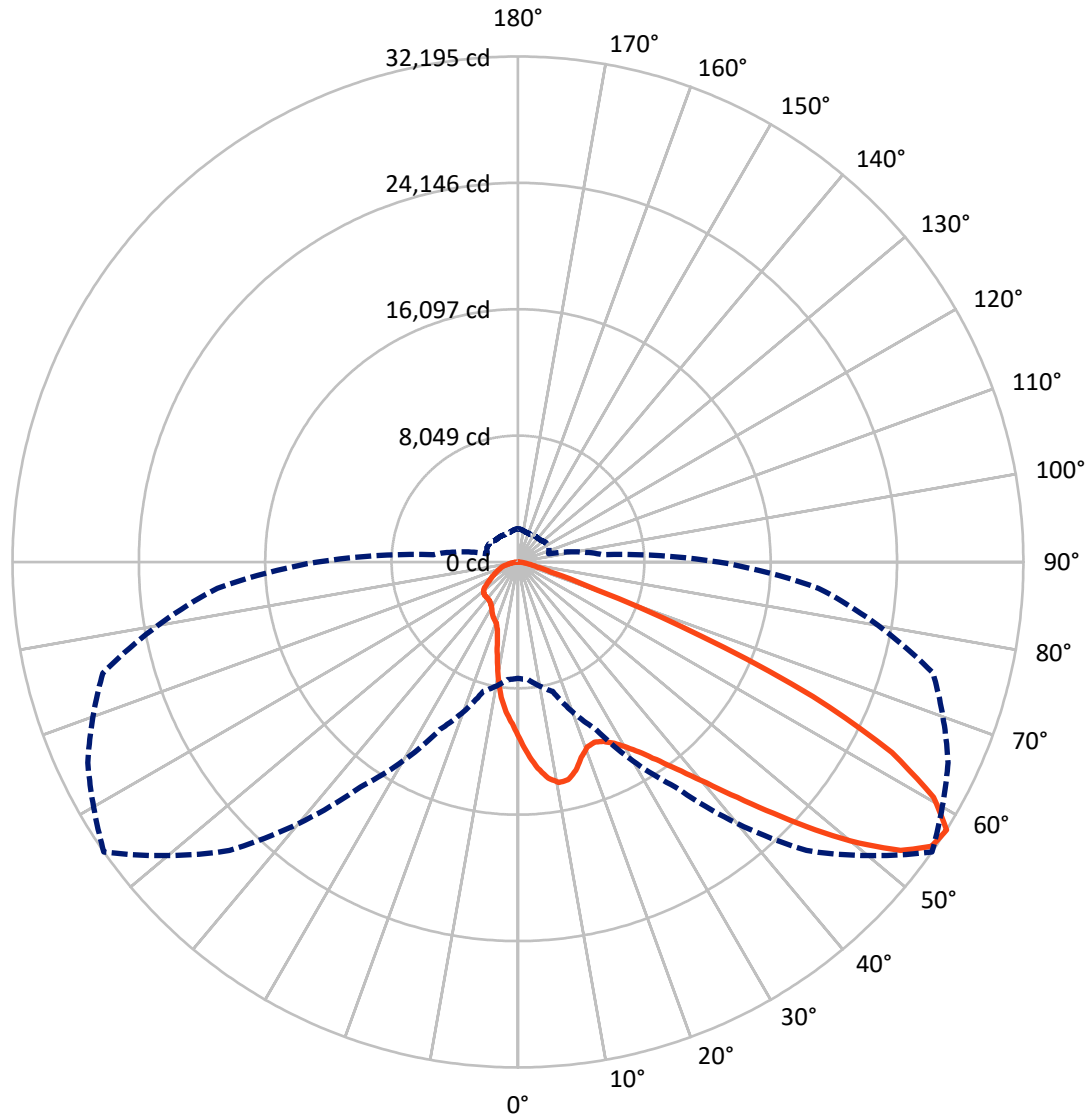
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 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	8106.5	0.0	8106.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	36694.5	0.0	36694.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	44801.0	0.0	44801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1041.7	2.3
10°-20°	2629.2	5.9
20°-30°	4195.5	9.4
30°-40°	6642.5	14.8
40°-50°	10167.1	22.7
50°-60°	10889.9	24.3
60°-70°	6850.9	15.3
70°-80°	2025.9	4.5
80°-90°	358.2	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°	44801.0	100.0
0°-180°	44801.0	100.0

Coefficient of Utilization



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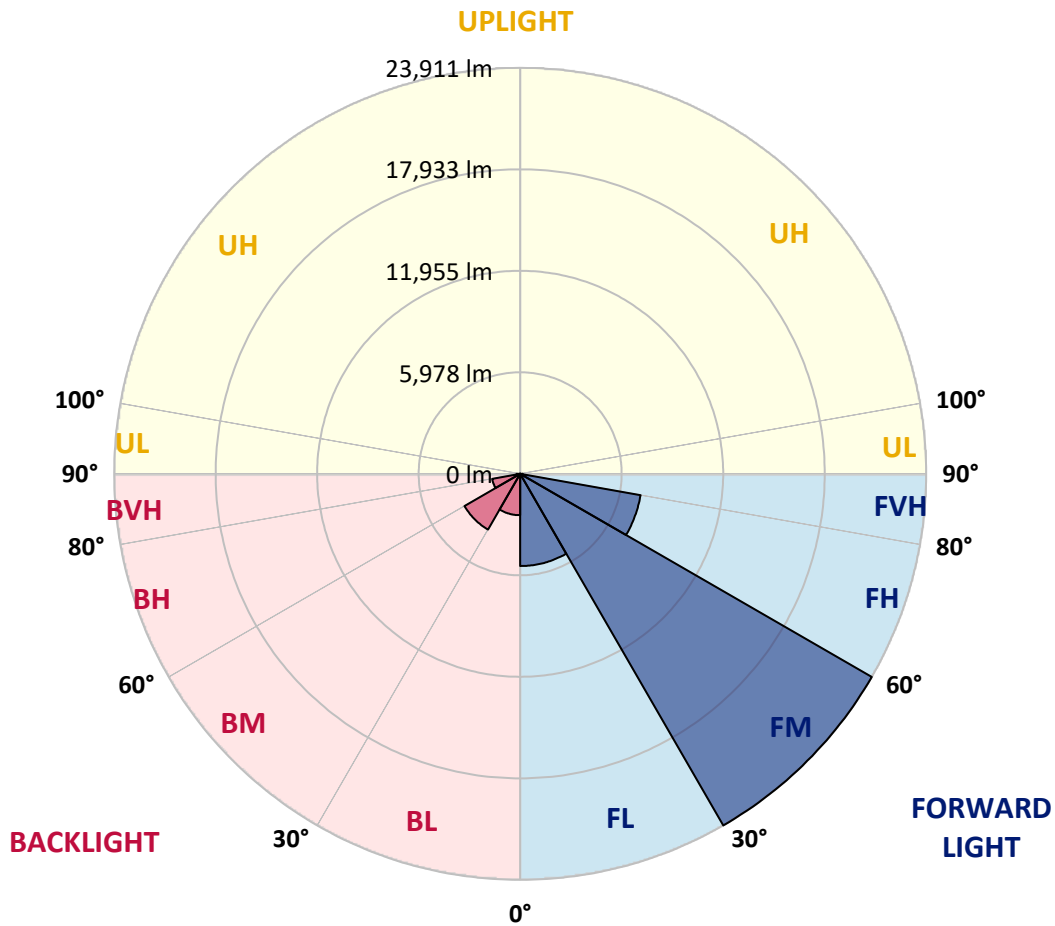
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5429.9	12.1			
FM (30°-60°)	23910.6	53.4			
FH (60°-80°)	7202.6	16.1			G3/7500
FVH (80°-90°)	151.3	0.3			G2/225
BL (0°-30°)	2436.5	5.4	B3/2500		
BM (30°-60°)	3788.9	8.5	B3/5000		
BH (60°-80°)	1674.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	206.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11225.7	11225.7	11225.7	11225.7	11225.7	11225.7	11225.7	11225.7	11225.7	11225.7
2.5°	12879.3	12870.0	12921.0	12747.3	12629.2	12469.4	12258.6	11990.0	11700.5	11394.7
5°	14039.6	13958.6	14011.8	13882.1	13752.4	13511.6	13198.9	12761.2	12226.2	11617.1
7.5°	13856.7	13801.1	13937.7	14053.5	14150.8	14120.7	13891.4	13432.8	12742.7	11857.9
10°	12381.4	12318.8	12511.1	12911.7	13500.0	14011.8	14289.8	14004.9	13270.7	12122.0
12.5°	11079.8	11049.7	11177.0	11501.3	12154.4	13136.4	14238.8	14505.1	13819.6	12434.6
15°	10523.9	10486.9	10567.9	10732.4	11149.2	12064.1	13775.6	14847.9	14359.2	12795.9
17.5°	10401.2	10359.5	10394.2	10479.9	10748.6	11445.7	13076.2	15017.0	14922.0	13198.9
20°	10628.1	10593.4	10598.0	10593.4	10781.0	11334.5	12589.8	14952.1	15413.0	13569.5
22.5°	11177.0	11119.1	11121.5	10998.7	11100.6	11529.1	12462.4	14778.4	15850.7	13893.7
25°	12071.0	11966.8	11987.6	11675.0	11647.2	11964.5	12661.6	14644.1	16286.1	14153.1
27.5°	13293.9	13175.8	13113.2	12647.7	12425.4	12582.9	13066.9	14690.4	16698.4	14377.8
30°	14822.4	14678.8	14551.5	13891.4	13488.4	13430.5	13696.9	14996.1	17184.8	14614.0
32.5°	16696.1	16529.3	16297.7	15422.3	14854.9	14551.5	14512.1	15540.4	17754.5	14915.1
35°	18926.4	18708.7	18379.8	17247.3	16529.3	15908.6	15586.7	16325.5	18535.0	15369.0
37.5°	21223.9	20978.4	20677.3	19329.4	18447.0	17532.2	16897.6	17390.9	19574.9	15985.1
40°	23343.0	23067.4	22787.2	21587.5	20640.2	19537.8	18502.6	18738.8	20846.4	16721.6
42.5°	24593.7	24389.8	24283.3	23634.8	22903.0	21784.3	20499.0	20336.8	22275.3	17569.2
45°	24538.1	24454.7	24783.6	25052.2	24878.5	24257.8	22838.1	22104.0	23708.9	18303.4
47.5°	23227.2	23282.8	24017.0	25527.0	26191.7	26515.9	25501.5	23838.6	24955.0	18852.3
50°	19660.6	19706.9	21406.8	24663.1	26529.8	28357.2	28144.1	25531.6	25920.7	19188.1
52.5°	16837.4	16867.5	17597.0	22101.6	25413.5	29283.6	30524.9	27127.4	26627.1	19280.7
55°	12682.4	12786.7	13604.2	17339.9	22509.3	28549.4	31974.8	28771.7	27074.1	19290.0
57.5°	7408.9	7522.4	8532.2	11769.9	17495.1	25990.2	32194.8	30230.8	27377.5	19215.9
60°	3629.2	3677.8	4117.9	6186.0	10788.0	21059.4	30425.4	30937.2	27546.6	19176.5
62.5°	2445.7	2438.8	2457.3	3052.5	5315.2	13530.1	26738.3	29700.4	27456.2	19026.0
65°	2102.9	2077.5	2008.0	2142.3	2753.7	6188.4	20658.8	26008.7	26768.4	18648.5
67.5°	1818.1	1820.4	1822.7	1781.0	1966.3	2855.6	12624.5	20487.4	24299.5	16860.5
70°	1505.4	1526.2	1535.5	1535.5	1602.7	1873.6	5389.3	14041.9	19167.3	13219.8
72.5°	1371.1	1327.1	1331.7	1308.5	1308.5	1426.7	2170.1	7960.1	12075.7	7436.7
75°	1118.6	1146.4	1151.1	1134.8	1081.6	1088.5	1287.7	3339.7	5167.0	3084.9
77.5°	965.8	965.8	975.0	963.5	921.8	815.2	859.2	1294.6	1757.8	1264.5
80°	775.9	773.5	812.9	836.1	771.2	602.2	548.9	715.6	780.5	555.8
82.5°	377.5	400.7	558.2	636.9	585.9	435.4	335.8	444.7	416.9	245.5
85°	220.0	208.4	250.1	354.3	335.8	240.9	162.1	231.6	217.7	125.1
87.5°	69.5	64.8	51.0	120.4	97.3	67.2	44.0	67.2	60.2	27.8
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°
11225.7	0°	11225.7	11225.7	11225.7	11225.7	11225.7	11225.7	11225.7	11225.7	11225.7	11225.7
11262.7	2.5°	11098.3	10825.0	10554.0	10306.2	10155.7	10058.4	9961.1	9852.3	9810.6	9748.1
11292.8	5°	10987.1	10459.1	9988.9	9583.6	9215.4	8925.9	8634.1	8397.8	8291.3	8363.1
11387.8	7.5°	10922.3	10158.0	9433.1	8689.7	7974.0	7402.0	6904.0	6554.3	6396.8	6436.2
11480.4	10°	10864.4	9817.5	8712.8	7538.6	6510.3	5801.6	5292.1	5025.7	4926.1	4947.0
11605.5	12.5°	10811.1	9435.4	7844.3	6299.5	5206.4	4738.5	4592.6	4595.0	4613.5	4627.4
11804.7	15°	10801.8	8974.5	6873.9	5215.6	4502.3	4472.2	4629.7	4729.3	4782.6	4798.8
11971.4	17.5°	10788.0	8423.3	5885.0	4476.8	4330.9	4534.7	4680.6	4745.5	4787.2	4789.5
12133.6	20°	10732.4	7723.9	4972.5	4124.8	4293.9	4469.9	4560.2	4611.2	4645.9	4657.5
12256.3	22.5°	10561.0	6945.7	4261.4	3967.3	4145.6	4286.9	4393.5	4451.4	4472.2	4486.1
12279.5	25°	10253.0	6074.9	3770.5	3816.8	3939.5	4117.9	4203.5	4215.1	4208.2	4229.0
12221.6	27.5°	9850.0	5141.5	3464.7	3613.0	3770.5	3923.3	3969.6	3962.7	3948.8	3971.9
12122.0	30°	9363.6	4303.1	3270.2	3383.7	3599.1	3738.0	3779.7	3763.5	3735.7	3761.2
12071.0	32.5°	8849.5	3617.6	3110.4	3223.9	3457.8	3594.4	3636.1	3619.9	3599.1	3619.9
12128.9	35°	8370.0	3138.2	2962.2	3117.3	3346.6	3481.0	3534.2	3536.5	3536.5	3562.0
12281.8	37.5°	7930.0	2858.0	2839.4	3050.2	3270.2	3390.6	3467.1	3471.7	3372.1	3379.1
12541.2	40°	7522.4	2739.8	2783.8	3006.2	3196.1	3311.9	3316.5	3057.1	2874.2	2869.5
12837.6	42.5°	7188.9	2716.7	2800.1	3001.5	3142.8	3147.5	2820.9	2619.4	2568.4	2570.8
13110.9	45°	6876.2	2709.7	2837.1	3001.5	3064.1	2719.0	2499.0	2445.7	2450.3	2468.9
13233.7	47.5°	6526.5	2681.9	2844.1	2959.9	2837.1	2417.9	2353.1	2329.9	2320.6	2325.3
13205.9	50°	6144.4	2582.3	2756.0	2876.5	2448.0	2288.2	2207.2	2200.2	2211.8	2218.7
13050.7	52.5°	5741.4	2420.2	2605.5	2725.9	2269.7	2174.7	2084.4	2100.6	2151.6	2167.8
12888.6	55°	5477.4	2230.3	2406.3	2424.9	2144.6	2068.2	1991.8	2028.8	2123.8	2153.9
12791.3	57.5°	5407.9	2028.8	2179.4	2158.5	1984.8	1975.6	1929.2	1961.7	2082.1	2126.1
12786.7	60°	5387.0	1848.2	1957.0	1940.8	1829.6	1873.6	1862.1	1878.3	1920.0	1933.9
12740.3	62.5°	5224.9	1704.6	1757.8	1734.7	1690.7	1767.1	1794.9	1760.2	1792.6	1808.8
12423.1	65°	4812.7	1588.8	1563.3	1547.1	1565.6	1635.1	1690.7	1621.2	1651.3	1697.6
11200.2	67.5°	4131.8	1431.3	1361.8	1380.3	1438.2	1475.3	1547.1	1468.3	1493.8	1572.6
9020.8	70°	3342.0	1232.1	1169.6	1222.9	1278.4	1354.9	1366.4	1313.2	1373.4	1461.4
5505.1	72.5°	2364.6	1030.6	986.6	1095.5	1114.0	1213.6	1188.1	1162.6	1246.0	1276.1
2721.3	75°	1639.7	831.4	806.0	889.3	956.5	1042.2	1023.7	1053.8	1229.8	1243.7
1359.5	77.5°	1037.6	646.2	630.0	683.2	775.9	870.8	900.9	1243.7	2100.6	2184.0
706.4	80°	602.2	481.7	463.2	504.9	585.9	674.0	868.5	1526.2	1385.0	1368.8
317.3	82.5°	335.8	331.2	308.0	319.6	391.4	486.4	1227.5	1074.6	873.1	900.9
127.4	85°	157.5	194.5	166.8	159.8	220.0	569.7	819.9	613.7	407.6	398.4
27.8	87.5°	41.7	37.1	37.1	41.7	92.6	491.0	326.6	261.7	155.2	150.5
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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