

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: P954073

Luminaire Tested: **GALN-SB7B-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954073
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-SB7B-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29513 lumens
Efficiency: N/A
Efficacy: 115.0 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

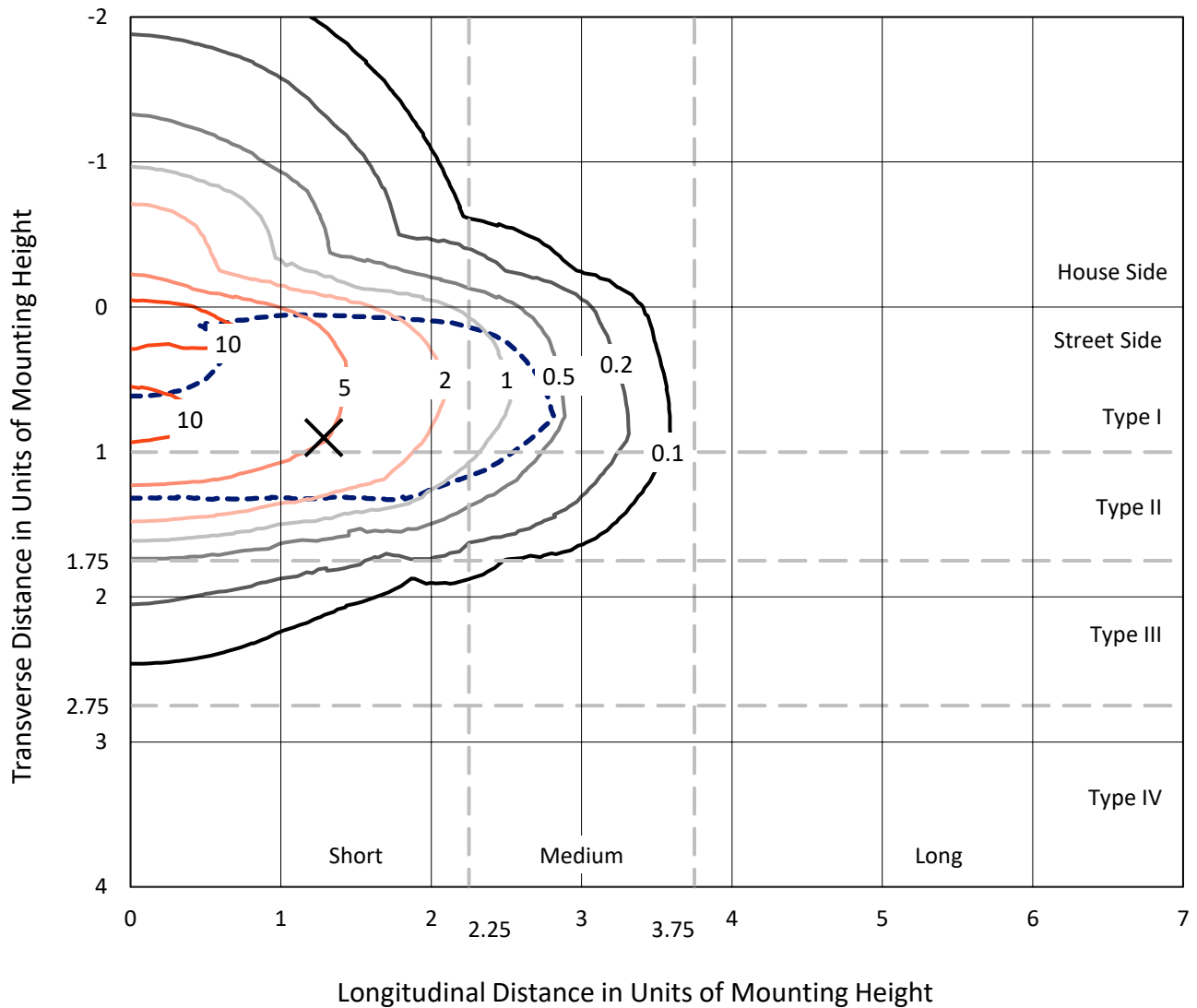
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

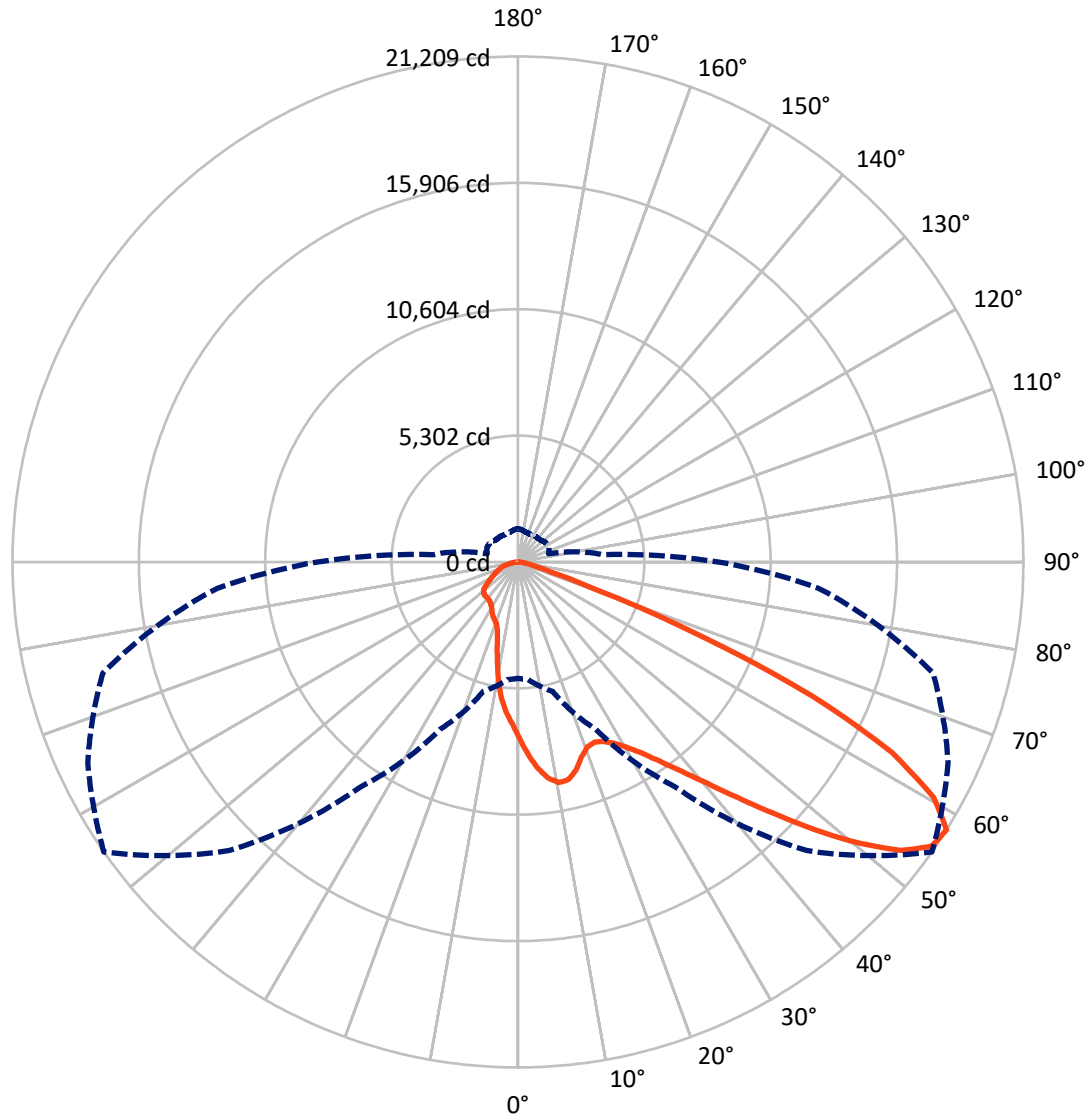
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	5340.2	0.0	5340.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24172.8	0.0	24172.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	29513.0	0.0	29513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.2	2.3
10°-20°	1732.0	5.9
20°-30°	2763.8	9.4
30°-40°	4375.8	14.8
40°-50°	6697.6	22.7
50°-60°	7173.8	24.3
60°-70°	4513.1	15.3
70°-80°	1334.6	4.5
80°-90°	236.0	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°	29513.0	100.0
0°-180°	29513.0	100.0

Coefficient of Utilization



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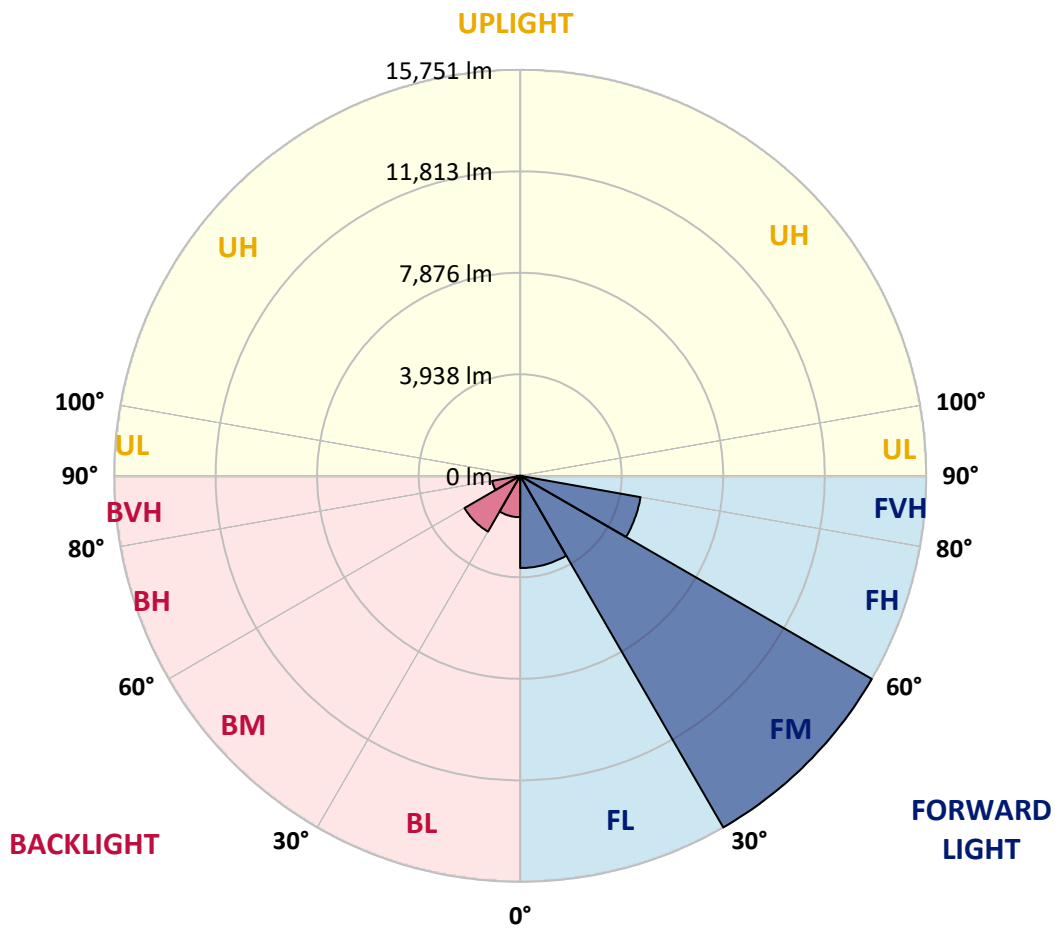
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3577.0	12.1			
FM (30°-60°)	15751.3	53.4			
FH (60°-80°)	4744.8	16.1			G2/5000
FVH (80°-90°)	99.7	0.3			G1/100
BL (0°-30°)	1605.1	5.4	B3/2500		
BM (30°-60°)	2496.0	8.5	B2/2500		
BH (60°-80°)	1102.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	136.3	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°	7395.0	7395.0	7395.0	7395.0	7395.0	7395.0	7395.0	7395.0	7395.0	7395.0
2.5°	8484.3	8478.2	8511.8	8397.4	8319.6	8214.3	8075.5	7898.5	7707.8	7506.4
5°	9248.7	9195.3	9230.4	9145.0	9059.5	8900.9	8694.9	8406.5	8054.1	7652.8
7.5°	9128.2	9091.6	9181.6	9257.9	9321.9	9302.1	9151.1	8849.0	8394.3	7811.5
10°	8156.3	8115.1	8241.8	8505.7	8893.2	9230.4	9413.5	9225.8	8742.2	7985.4
12.5°	7298.9	7279.0	7363.0	7576.6	8006.8	8653.7	9379.9	9555.4	9103.8	8191.4
15°	6932.7	6908.3	6961.7	7070.0	7344.7	7947.3	9074.8	9781.2	9459.3	8429.4
17.5°	6851.9	6824.4	6847.3	6903.7	7080.7	7539.9	8614.0	9892.5	9830.0	8694.9
20°	7001.4	6978.5	6981.5	6978.5	7102.1	7466.7	8293.6	9849.8	10153.4	8939.0
22.5°	7363.0	7324.8	7326.3	7245.5	7312.6	7594.9	8209.7	9735.4	10441.8	9152.6
25°	7951.9	7883.2	7897.0	7691.0	7672.7	7881.7	8340.9	9646.9	10728.6	9323.5
27.5°	8757.4	8679.6	8638.4	8331.8	8185.3	8289.1	8607.9	9677.4	11000.2	9471.5
30°	9764.4	9669.8	9585.9	9151.1	8885.6	8847.5	9022.9	9878.8	11320.6	9627.1
32.5°	10998.7	10888.8	10736.3	10159.5	9785.7	9585.9	9559.9	10237.4	11695.9	9825.4
35°	12467.9	12324.5	12107.8	11361.8	10888.8	10479.9	10267.9	10754.6	12210.1	10124.5
37.5°	13981.4	13819.7	13621.3	12733.4	12152.1	11549.4	11131.4	11456.4	12895.1	10530.3
40°	15377.4	15195.8	15011.2	14220.9	13596.9	12870.7	12188.7	12344.3	13732.7	11015.5
42.5°	16201.3	16067.0	15996.8	15569.6	15087.5	14350.6	13503.8	13397.0	14674.0	11573.9
45°	16164.6	16109.7	16326.4	16503.3	16388.9	15980.0	15044.8	14561.1	15618.4	12057.5
47.5°	15301.1	15337.7	15821.4	16816.1	17254.0	17467.6	16799.3	15703.9	16439.3	12419.1
50°	12951.5	12982.1	14101.9	16247.0	17476.7	18680.5	18540.1	16819.2	17075.5	12640.3
52.5°	11091.7	11111.6	11592.2	14559.6	16741.4	19290.8	20108.5	17870.4	17540.8	12701.3
55°	8354.7	8423.3	8961.9	11422.8	14828.1	18807.1	21063.6	18953.6	17835.3	12707.4
57.5°	4880.7	4955.4	5620.6	7753.5	11525.0	17121.2	21208.6	19914.8	18035.1	12658.6
60°	2390.7	2422.8	2712.7	4075.1	7106.6	13873.1	20042.9	20380.1	18146.5	12632.7
62.5°	1611.1	1606.5	1618.8	2010.9	3501.4	8913.1	17614.0	19565.4	18087.0	12533.5
65°	1385.3	1368.5	1322.8	1411.3	1814.0	4076.6	13609.1	17133.5	17633.9	12284.8
67.5°	1197.7	1199.2	1200.7	1173.3	1295.3	1881.2	8316.5	13496.2	16007.5	11107.0
70°	991.7	1005.4	1011.5	1011.5	1055.8	1234.3	3550.3	9250.2	12626.6	8708.6
72.5°	903.2	874.2	877.3	862.0	862.0	939.8	1429.6	5243.8	7954.9	4899.0
75°	736.9	755.2	758.3	747.6	712.5	717.1	848.3	2200.0	3403.8	2032.2
77.5°	636.2	636.2	642.3	634.7	607.2	537.0	566.0	852.9	1158.0	833.0
80°	511.1	509.6	535.5	550.8	508.1	396.7	361.6	471.4	514.2	366.2
82.5°	248.7	263.9	367.7	419.6	386.0	286.8	221.2	292.9	274.6	161.7
85°	144.9	137.3	164.8	233.4	221.2	158.7	106.8	152.6	143.4	82.4
87.5°	45.8	42.7	33.6	79.3	64.1	44.2	29.0	44.2	39.7	18.3
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°
7395.0	0°	7395.0	7395.0	7395.0	7395.0	7395.0	7395.0	7395.0	7395.0	7395.0	7395.0
7419.4	2.5°	7311.1	7131.1	6952.6	6789.3	6690.1	6626.1	6562.0	6490.3	6462.8	6421.6
7439.2	5°	7237.9	6890.0	6580.3	6313.3	6070.7	5880.0	5687.8	5532.1	5462.0	5509.3
7501.8	7.5°	7195.1	6691.7	6214.1	5724.4	5252.9	4876.1	4548.1	4317.7	4213.9	4239.9
7562.8	10°	7157.0	6467.4	5739.6	4966.1	4288.7	3821.8	3486.2	3310.7	3245.1	3258.9
7645.2	12.5°	7121.9	6215.6	5167.5	4149.9	3429.7	3121.6	3025.4	3027.0	3039.2	3048.3
7776.4	15°	7115.8	5912.0	4528.2	3435.8	2965.9	2946.1	3049.8	3115.5	3150.5	3161.2
7886.3	17.5°	7106.6	5548.9	3876.8	2949.2	2853.0	2987.3	3083.4	3126.1	3153.6	3155.1
7993.1	20°	7070.0	5088.2	3275.6	2717.2	2828.6	2944.6	3004.1	3037.6	3060.5	3068.2
8073.9	22.5°	6957.1	4575.5	2807.3	2613.5	2731.0	2824.0	2894.2	2932.4	2946.1	2955.3
8089.2	25°	6754.2	4001.9	2483.8	2514.3	2595.2	2712.7	2769.1	2776.7	2772.2	2785.9
8051.0	27.5°	6488.7	3387.0	2282.4	2380.1	2483.8	2584.5	2615.0	2610.4	2601.3	2616.6
7985.4	30°	6168.3	2834.7	2154.3	2229.0	2370.9	2462.5	2489.9	2479.2	2460.9	2477.7
7951.9	32.5°	5829.6	2383.1	2049.0	2123.8	2277.8	2367.9	2395.3	2384.6	2370.9	2384.6
7990.0	35°	5513.8	2067.3	1951.4	2053.6	2204.6	2293.1	2328.2	2329.7	2329.7	2346.5
8090.7	37.5°	5223.9	1882.7	1870.5	2009.3	2154.3	2233.6	2284.0	2287.0	2221.4	2226.0
8261.6	40°	4955.4	1804.9	1833.9	1980.3	2105.4	2181.7	2184.8	2013.9	1893.4	1890.3
8456.9	42.5°	4735.7	1789.6	1844.6	1977.3	2070.4	2073.4	1858.3	1725.6	1692.0	1693.5
8636.9	45°	4529.8	1785.1	1869.0	1977.3	2018.5	1791.2	1646.2	1611.1	1614.2	1626.4
8717.8	47.5°	4299.4	1766.7	1873.5	1949.8	1869.0	1592.8	1550.1	1534.8	1528.7	1531.8
8699.5	50°	4047.6	1701.1	1815.6	1894.9	1612.7	1507.4	1454.0	1449.4	1457.0	1461.6
8597.2	52.5°	3782.2	1594.3	1716.4	1795.7	1495.2	1432.6	1373.1	1383.8	1417.4	1428.0
8490.4	55°	3608.2	1469.2	1585.2	1597.4	1412.8	1362.4	1312.1	1336.5	1399.1	1418.9
8426.4	57.5°	3562.5	1336.5	1435.7	1421.9	1307.5	1301.4	1270.9	1292.3	1371.6	1400.6
8423.3	60°	3548.7	1217.5	1289.2	1278.5	1205.3	1234.3	1226.7	1237.3	1264.8	1273.9
8392.8	62.5°	3441.9	1122.9	1158.0	1142.7	1113.8	1164.1	1182.4	1159.5	1180.9	1191.6
8183.8	65°	3170.4	1046.6	1029.8	1019.2	1031.4	1077.1	1113.8	1068.0	1087.8	1118.3
7378.2	67.5°	2721.8	942.9	897.1	909.3	947.5	971.9	1019.2	967.3	984.1	1035.9
5942.5	70°	2201.6	811.7	770.5	805.6	842.2	892.5	900.2	865.1	904.7	962.7
3626.6	72.5°	1557.7	678.9	649.9	721.6	733.9	799.5	782.7	765.9	820.8	840.7
1792.7	75°	1080.2	547.7	530.9	585.9	630.1	686.6	674.4	694.2	810.1	819.3
895.6	77.5°	683.5	425.7	415.0	450.1	511.1	573.7	593.5	819.3	1383.8	1438.7
465.3	80°	396.7	317.3	305.1	332.6	386.0	444.0	572.1	1005.4	912.4	901.7
209.0	82.5°	221.2	218.2	202.9	210.5	257.8	320.4	808.6	707.9	575.2	593.5
83.9	85°	103.7	128.2	109.8	105.3	144.9	375.3	540.1	404.3	268.5	262.4
18.3	87.5°	27.5	24.4	24.4	27.5	61.0	323.4	215.1	172.4	102.2	99.2
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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