

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: P948382

Luminaire Tested: **GALN-SB3B-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948382
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-SB3B-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11953 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

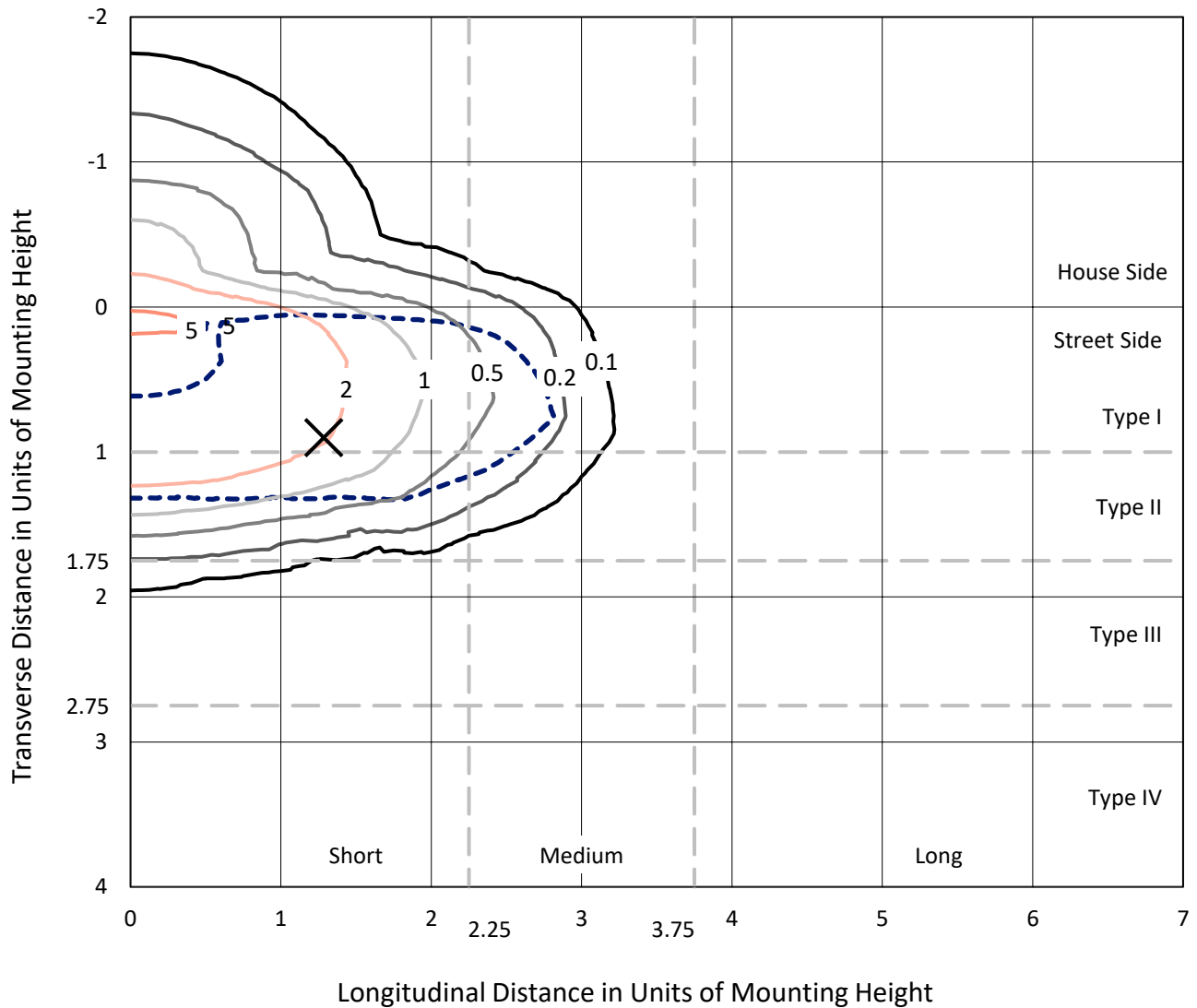
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

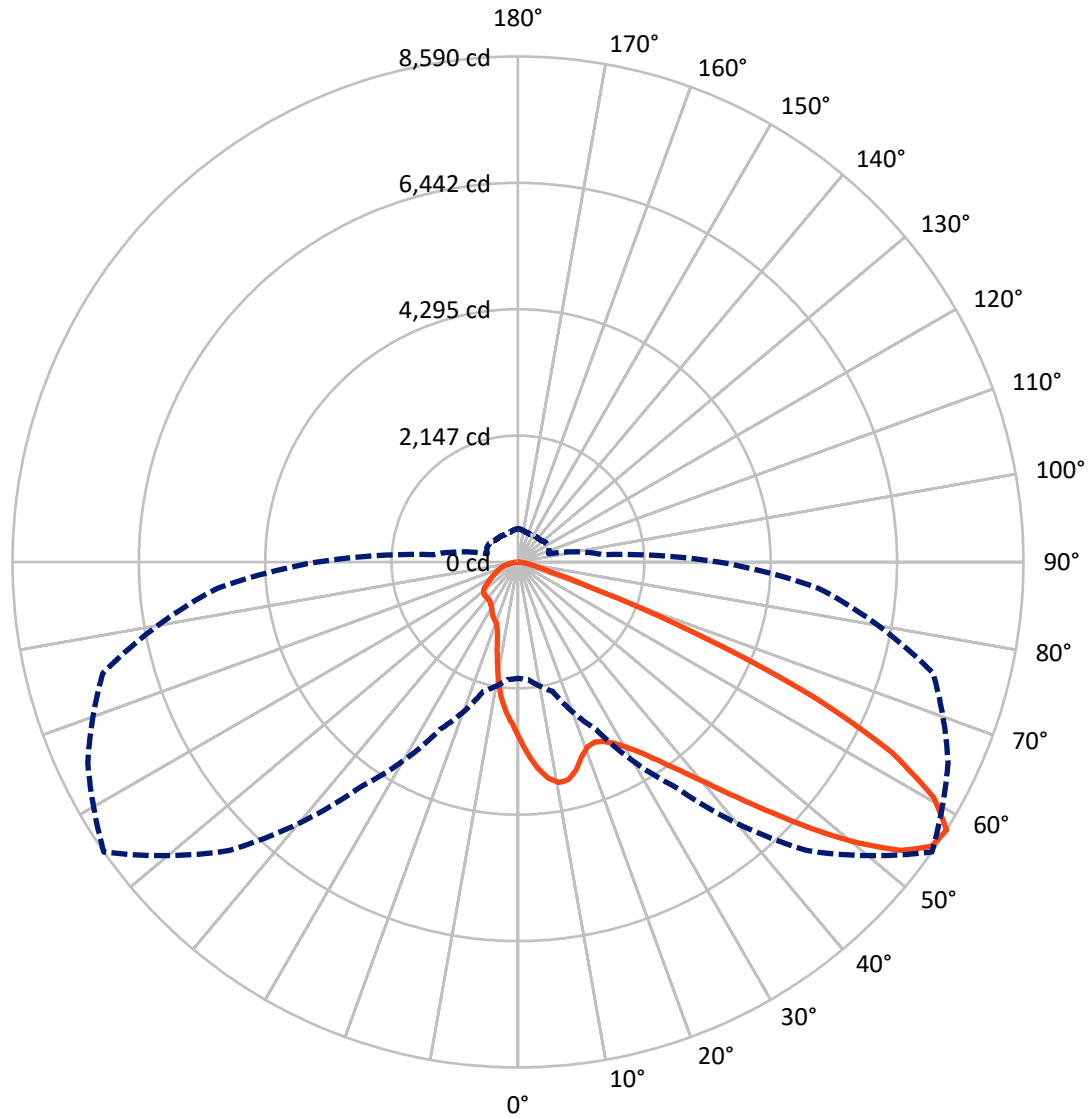
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2162.8	0.0	2162.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9790.2	0.0	9790.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	11953.0	0.0	11953.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.9	2.3
10°-20°	701.5	5.9
20°-30°	1119.4	9.4
30°-40°	1772.2	14.8
40°-50°	2712.6	22.7
50°-60°	2905.4	24.3
60°-70°	1827.8	15.3
70°-80°	540.5	4.5
80°-90°	95.6	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°	11953.0	100.0
0°-180°	11953.0	100.0



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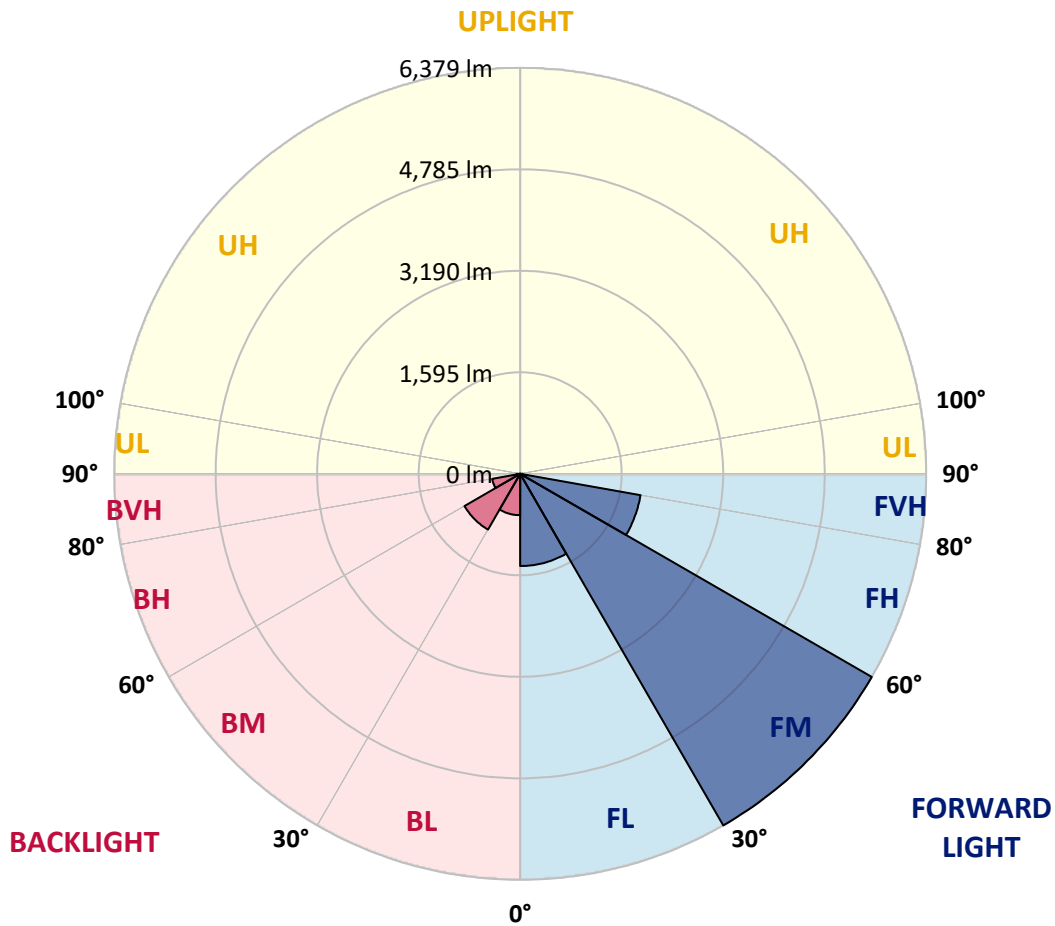
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1448.7	12.1			
FM (30°-60°)	6379.4	53.4			
FH (60°-80°)	1921.7	16.1			G2/5000
FVH (80°-90°)	40.4	0.3			G1/100
BL (0°-30°)	650.1	5.4	B2/1000		
BM (30°-60°)	1010.9	8.5	B2/2500		
BH (60°-80°)	446.7	3.7	B1/500		G1/500
BVH (80°-90°)	55.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2995.0	2995.0	2995.0	2995.0	2995.0	2995.0	2995.0	2995.0	2995.0	2995.0
2.5°	3436.2	3433.8	3447.3	3401.0	3369.5	3326.9	3270.6	3198.9	3121.7	3040.1
5°	3745.8	3724.2	3738.4	3703.8	3669.2	3604.9	3521.5	3404.7	3262.0	3099.5
7.5°	3697.0	3682.2	3718.6	3749.5	3775.5	3767.4	3706.3	3583.9	3399.8	3163.7
10°	3303.4	3286.7	3338.0	3444.9	3601.8	3738.4	3812.5	3736.5	3540.7	3234.2
12.5°	2956.1	2948.1	2982.1	3068.6	3242.8	3504.8	3798.9	3870.0	3687.1	3317.6
15°	2807.8	2797.9	2819.5	2863.4	2974.6	3218.7	3675.4	3961.5	3831.1	3414.0
17.5°	2775.1	2763.9	2773.2	2796.1	2867.7	3053.7	3488.7	4006.6	3981.2	3521.5
20°	2835.6	2826.3	2827.6	2826.3	2876.4	3024.1	3359.0	3989.3	4112.2	3620.4
22.5°	2982.1	2966.6	2967.2	2934.5	2961.7	3076.0	3325.0	3942.9	4229.0	3706.9
25°	3220.6	3192.8	3198.3	3114.9	3107.5	3192.1	3378.1	3907.1	4345.2	3776.1
27.5°	3546.8	3515.3	3498.6	3374.4	3315.1	3357.1	3486.3	3919.4	4455.2	3836.0
30°	3954.7	3916.3	3882.4	3706.3	3598.7	3583.3	3654.3	4001.0	4584.9	3899.0
32.5°	4454.5	4410.1	4348.3	4114.7	3963.3	3882.4	3871.9	4146.2	4736.9	3979.4
35°	5049.6	4991.5	4903.8	4601.6	4410.1	4244.5	4158.6	4355.7	4945.2	4100.5
37.5°	5662.6	5597.1	5516.7	5157.1	4921.7	4677.6	4508.3	4639.9	5222.6	4264.8
40°	6228.0	6154.4	6079.7	5759.6	5506.9	5212.7	4936.5	4999.5	5561.9	4461.3
42.5°	6561.6	6507.3	6478.8	6305.8	6110.6	5812.1	5469.2	5425.9	5943.1	4687.5
45°	6546.8	6524.6	6612.3	6684.0	6637.6	6472.0	6093.3	5897.4	6325.6	4883.4
47.5°	6197.1	6211.9	6407.8	6810.7	6988.0	7074.5	6803.9	6360.2	6658.0	5029.8
50°	5245.5	5257.8	5711.4	6580.2	7078.2	7565.8	7508.9	6811.9	6915.7	5119.4
52.5°	4492.2	4500.3	4694.9	5896.8	6780.4	7812.9	8144.1	7237.6	7104.2	5144.1
55°	3383.7	3411.5	3629.6	4626.3	6005.5	7617.0	8530.9	7676.4	7223.4	5146.6
57.5°	1976.7	2007.0	2276.4	3140.2	4667.7	6934.2	8589.6	8065.6	7304.4	5126.8
60°	968.3	981.2	1098.7	1650.5	2878.2	5618.7	8117.5	8254.1	7349.5	5116.3
62.5°	652.5	650.7	655.6	814.4	1418.1	3609.9	7133.8	7924.1	7325.4	5076.2
65°	561.1	554.3	535.7	571.6	734.7	1651.1	5511.8	6939.2	7141.9	4975.5
67.5°	485.1	485.7	486.3	475.2	524.6	761.9	3368.3	5466.1	6483.2	4498.4
70°	401.6	407.2	409.7	409.7	427.6	499.9	1437.9	3746.4	5113.9	3527.1
72.5°	365.8	354.1	355.3	349.1	349.1	380.6	579.0	2123.8	3221.8	1984.1
75°	298.5	305.9	307.1	302.8	288.6	290.4	343.6	891.0	1378.6	823.1
77.5°	257.7	257.7	260.1	257.1	245.9	217.5	229.2	345.4	469.0	337.4
80°	207.0	206.4	216.9	223.1	205.8	160.7	146.4	190.9	208.2	148.3
82.5°	100.7	106.9	148.9	169.9	156.3	116.2	89.6	118.6	111.2	65.5
85°	58.7	55.6	66.7	94.5	89.6	64.3	43.3	61.8	58.1	33.4
87.5°	18.5	17.3	13.6	32.1	26.0	17.9	11.7	17.9	16.1	7.4
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°
2995.0	0°	2995.0	2995.0	2995.0	2995.0	2995.0	2995.0	2995.0	2995.0	2995.0	2995.0
3004.9	2.5°	2961.0	2888.1	2815.8	2749.7	2709.6	2683.6	2657.7	2628.6	2617.5	2600.8
3013.0	5°	2931.4	2790.5	2665.1	2556.9	2458.7	2381.4	2303.6	2240.6	2212.1	2231.3
3038.3	7.5°	2914.1	2710.2	2516.8	2318.4	2127.5	1974.9	1842.0	1748.7	1706.7	1717.2
3063.0	10°	2898.6	2619.3	2324.6	2011.3	1737.0	1547.9	1411.9	1340.9	1314.3	1319.9
3096.4	12.5°	2884.4	2517.4	2092.9	1680.7	1389.1	1264.3	1225.3	1225.9	1230.9	1234.6
3149.5	15°	2882.0	2394.4	1834.0	1391.5	1201.2	1193.2	1235.2	1261.8	1276.0	1280.3
3194.0	17.5°	2878.2	2247.4	1570.1	1194.4	1155.5	1209.9	1248.8	1266.1	1277.2	1277.8
3237.3	20°	2863.4	2060.7	1326.7	1100.5	1145.6	1192.6	1216.7	1230.3	1239.5	1242.6
3270.0	22.5°	2817.7	1853.1	1137.0	1058.5	1106.1	1143.8	1172.2	1187.6	1193.2	1196.9
3276.2	25°	2735.5	1620.8	1006.0	1018.3	1051.1	1098.7	1121.5	1124.6	1122.8	1128.3
3260.7	27.5°	2628.0	1371.8	924.4	963.9	1006.0	1046.7	1059.1	1057.3	1053.5	1059.7
3234.2	30°	2498.2	1148.1	872.5	902.8	960.2	997.3	1008.4	1004.1	996.7	1003.5
3220.6	32.5°	2361.1	965.2	829.9	860.1	922.5	959.0	970.1	965.8	960.2	965.8
3236.0	35°	2233.1	837.3	790.3	831.7	892.9	928.7	942.9	943.6	943.6	950.4
3276.8	37.5°	2115.7	762.5	757.6	813.8	872.5	904.6	925.0	926.3	899.7	901.5
3346.0	40°	2007.0	731.0	742.7	802.1	852.7	883.6	884.9	815.6	766.8	765.6
3425.1	42.5°	1918.0	724.8	747.1	800.8	838.5	839.7	752.6	698.9	685.3	685.9
3498.0	45°	1834.6	723.0	756.9	800.8	817.5	725.4	666.7	652.5	653.8	658.7
3530.8	47.5°	1741.3	715.5	758.8	789.7	756.9	645.1	627.8	621.6	619.2	620.4
3523.4	50°	1639.3	689.0	735.3	767.5	653.1	610.5	588.9	587.0	590.1	592.0
3482.0	52.5°	1531.8	645.7	695.2	727.3	605.6	580.2	556.1	560.4	574.0	578.4
3438.7	55°	1461.4	595.1	642.0	647.0	572.2	551.8	531.4	541.3	566.6	574.7
3412.7	57.5°	1442.8	541.3	581.5	575.9	529.6	527.1	514.7	523.4	555.5	567.2
3411.5	60°	1437.3	493.1	522.1	517.8	488.2	499.9	496.8	501.1	512.3	516.0
3399.2	62.5°	1394.0	454.8	469.0	462.8	451.1	471.5	478.9	469.6	478.3	482.6
3314.5	65°	1284.0	423.9	417.1	412.8	417.7	436.2	451.1	432.5	440.6	452.9
2988.2	67.5°	1102.4	381.9	363.3	368.3	383.7	393.6	412.8	391.8	398.6	419.6
2406.8	70°	891.7	328.7	312.0	326.3	341.1	361.5	364.6	350.4	366.4	389.9
1468.8	72.5°	630.9	275.0	263.2	292.3	297.2	323.8	317.0	310.2	332.4	340.5
726.1	75°	437.5	221.8	215.0	237.3	255.2	278.1	273.1	281.2	328.1	331.8
362.7	77.5°	276.8	172.4	168.1	182.3	207.0	232.3	240.4	331.8	560.4	582.7
188.5	80°	160.7	128.5	123.6	134.7	156.3	179.8	231.7	407.2	369.5	365.2
84.7	82.5°	89.6	88.4	82.2	85.3	104.4	129.8	327.5	286.7	233.0	240.4
34.0	85°	42.0	51.9	44.5	42.6	58.7	152.0	218.7	163.7	108.8	106.3
7.4	87.5°	11.1	9.9	9.9	11.1	24.7	131.0	87.1	69.8	41.4	40.2
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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