

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: P948298

Luminaire Tested: **GALN-SB3B-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948298
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-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10459 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

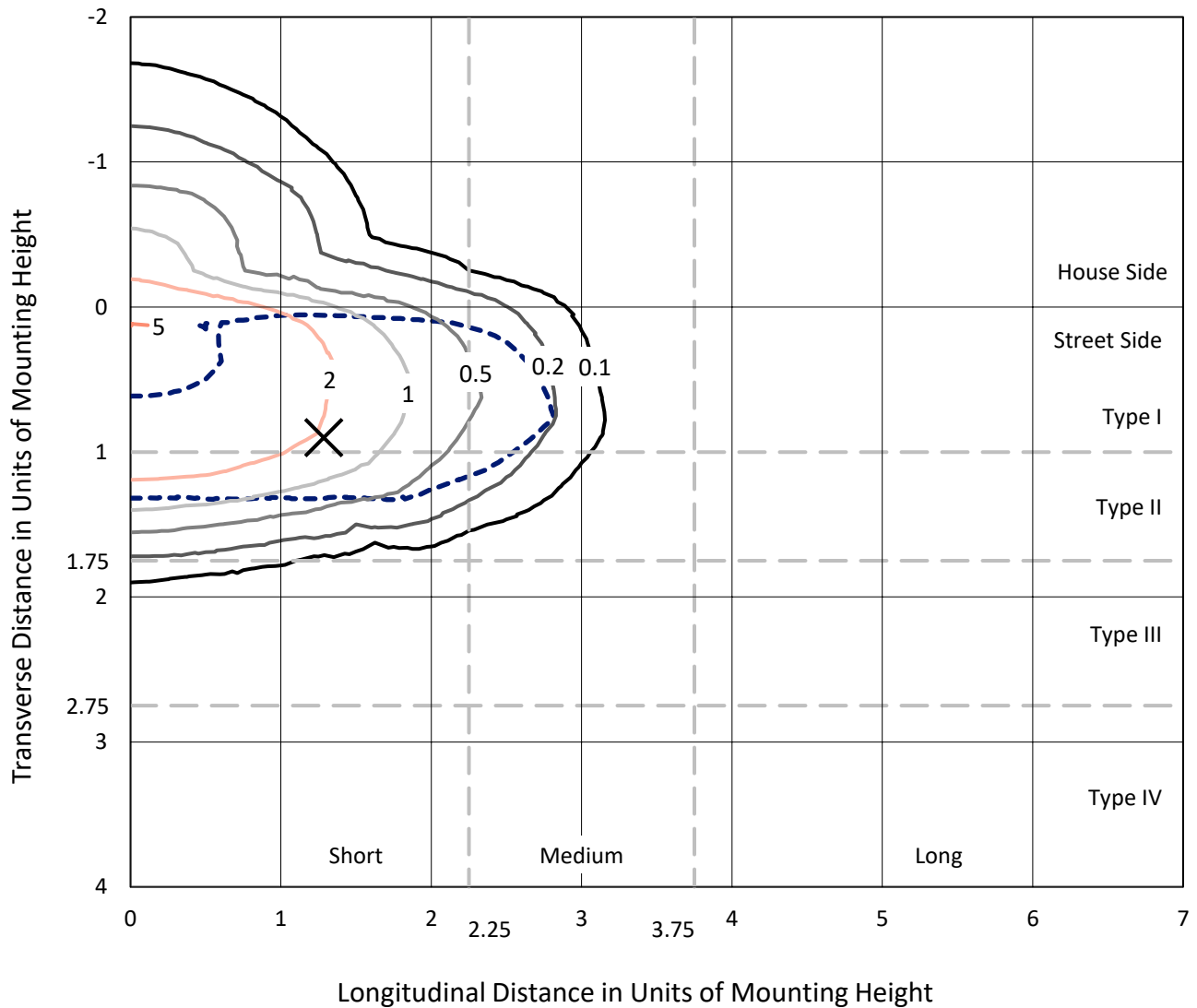
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

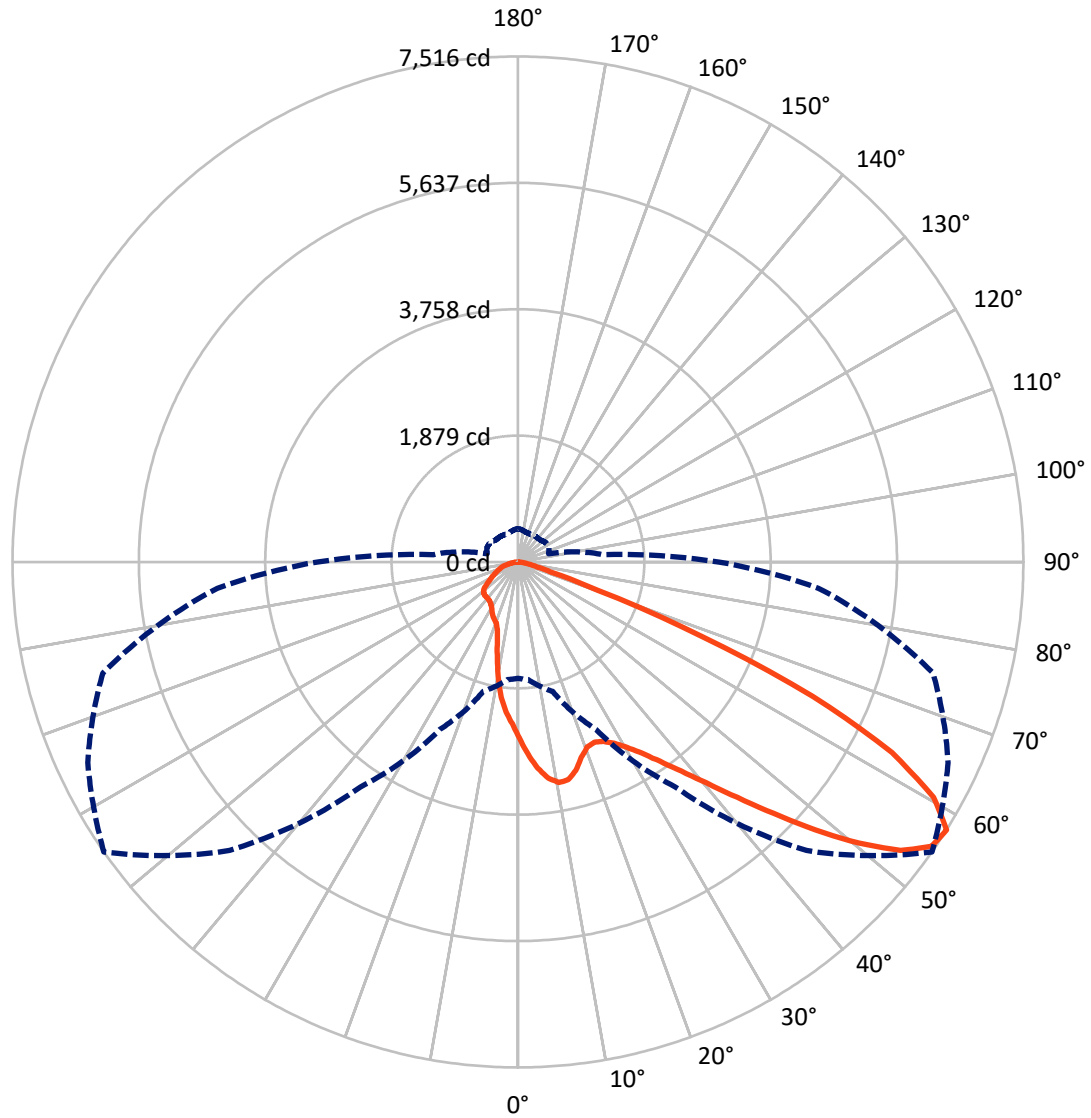
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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
House Side	Lumens	1892.5	0.0	1892.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8566.5	0.0	8566.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	10459.0	0.0	10459.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	2.3
10°-20°	613.8	5.9
20°-30°	979.5	9.4
30°-40°	1550.7	14.8
40°-50°	2373.6	22.7
50°-60°	2542.3	24.3
60°-70°	1599.4	15.3
70°-80°	473.0	4.5
80°-90°	83.6	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°	10459.0	100.0
0°-180°	10459.0	100.0

Coefficient of Utilization



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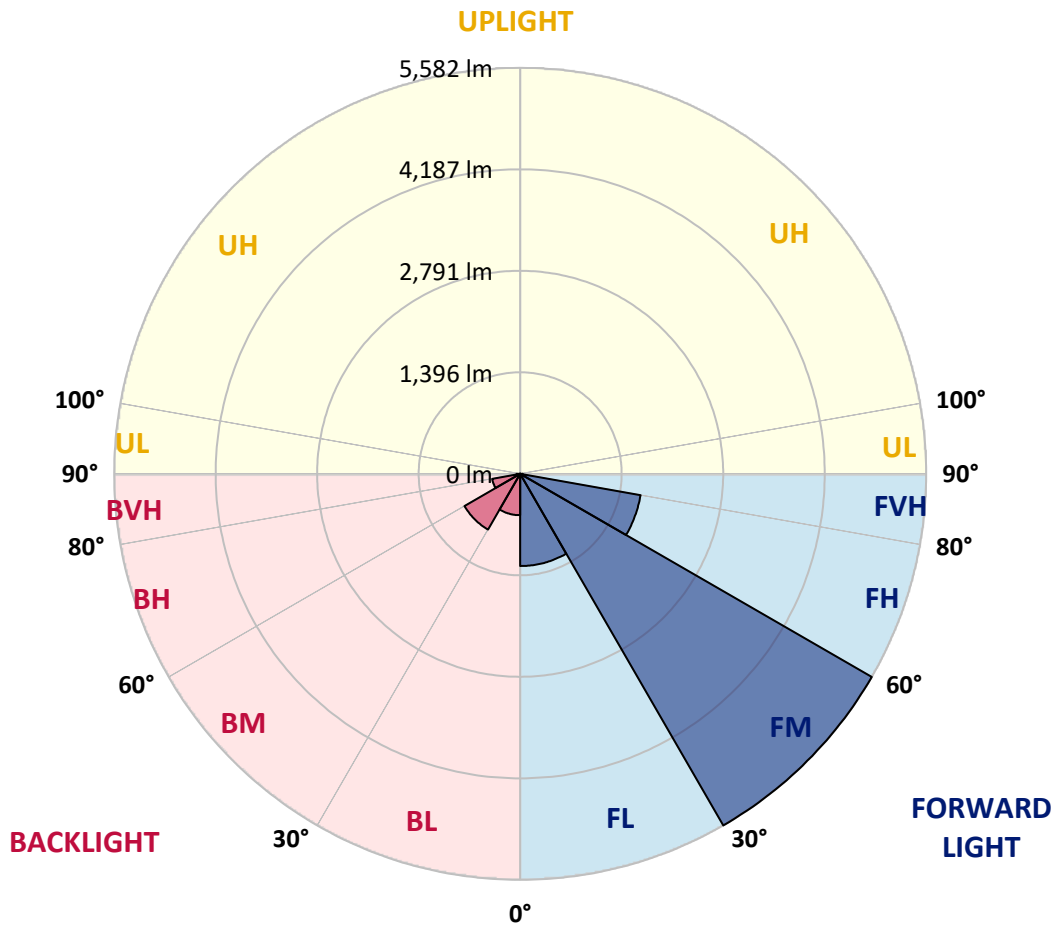
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1267.6	12.1			
FM (30°-60°)	5582.0	53.4			
FH (60°-80°)	1681.5	16.1			G1/1800
FVH (80°-90°)	35.3	0.3			G1/100
BL (0°-30°)	568.8	5.4	B2/1000		
BM (30°-60°)	884.5	8.5	B1/1000		
BH (60°-80°)	390.8	3.7	B1/500		G1/500
BVH (80°-90°)	48.3	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2620.7	2620.7	2620.7	2620.7	2620.7	2620.7	2620.7	2620.7	2620.7	2620.7
2.5°	3006.7	3004.6	3016.5	2975.9	2948.3	2911.0	2861.8	2799.1	2731.5	2660.2
5°	3277.6	3258.7	3271.1	3240.8	3210.6	3154.3	3081.3	2979.2	2854.3	2712.1
7.5°	3234.9	3221.9	3253.8	3280.9	3303.6	3296.5	3243.0	3136.0	2974.8	2768.3
10°	2890.5	2875.9	2920.8	3014.3	3151.6	3271.1	3336.0	3269.5	3098.1	2829.9
12.5°	2586.6	2579.6	2609.3	2685.0	2837.5	3066.7	3324.1	3386.3	3226.2	2902.9
15°	2456.9	2448.2	2467.1	2505.5	2602.8	2816.4	3216.0	3466.3	3352.2	2987.3
17.5°	2428.2	2418.5	2426.6	2446.6	2509.3	2672.1	3052.7	3505.8	3483.6	3081.3
20°	2481.2	2473.1	2474.2	2473.1	2516.9	2646.1	2939.1	3490.6	3598.2	3167.9
22.5°	2609.3	2595.8	2596.4	2567.7	2591.5	2691.5	2909.4	3450.1	3700.4	3243.6
25°	2818.0	2793.7	2798.6	2725.6	2719.1	2793.2	2955.9	3418.7	3802.1	3304.1
27.5°	3103.5	3075.9	3061.3	2952.7	2900.8	2937.5	3050.5	3429.5	3898.3	3356.6
30°	3460.4	3426.8	3397.1	3243.0	3148.9	3135.4	3197.6	3500.9	4011.9	3411.7
32.5°	3897.8	3858.8	3804.8	3600.4	3467.9	3397.1	3387.9	3628.0	4144.9	3482.0
35°	4418.5	4367.6	4290.9	4026.5	3858.8	3713.9	3638.8	3811.3	4327.1	3588.0
37.5°	4954.8	4897.5	4827.2	4512.5	4306.5	4093.0	3944.8	4060.0	4569.8	3731.8
40°	5449.5	5385.2	5319.8	5039.7	4818.6	4561.2	4319.5	4374.7	4866.7	3903.7
42.5°	5741.5	5693.9	5669.1	5517.7	5346.8	5085.7	4785.6	4747.7	5200.3	4101.6
45°	5728.5	5709.1	5785.8	5848.6	5808.0	5663.1	5331.7	5160.3	5535.0	4273.0
47.5°	5422.5	5435.5	5606.9	5959.4	6114.6	6190.3	5953.5	5565.2	5825.8	4401.2
50°	4589.8	4600.7	4997.5	5757.7	6193.5	6620.1	6570.4	5960.5	6051.3	4479.6
52.5°	3930.8	3937.8	4108.1	5159.7	5932.9	6836.4	7126.2	6333.0	6216.2	4501.2
55°	2960.8	2985.1	3176.0	4048.1	5254.9	6665.0	7464.7	6716.9	6320.6	4503.3
57.5°	1729.6	1756.1	1991.9	2747.7	4084.3	6067.5	7516.0	7057.5	6391.4	4486.0
60°	847.2	858.6	961.3	1444.2	2518.5	4916.4	7102.9	7222.4	6430.9	4476.8
62.5°	571.0	569.3	573.7	712.6	1240.9	3158.7	6242.2	6933.7	6409.8	4441.7
65°	490.9	485.0	468.8	500.1	642.9	1444.7	4822.9	6071.9	6249.2	4353.6
67.5°	424.4	425.0	425.5	415.8	459.0	666.7	2947.3	4782.9	5672.8	3936.2
70°	351.4	356.3	358.5	358.5	374.2	437.4	1258.2	3278.2	4474.7	3086.2
72.5°	320.1	309.8	310.9	305.5	305.5	333.1	506.6	1858.3	2819.1	1736.1
75°	261.1	267.6	268.7	264.9	252.5	254.1	300.6	779.7	1206.3	720.2
77.5°	225.5	225.5	227.6	224.9	215.2	190.3	200.6	302.2	410.4	295.2
80°	181.1	180.6	189.8	195.2	180.0	140.6	128.1	167.1	182.2	129.8
82.5°	88.1	93.5	130.3	148.7	136.8	101.6	78.4	103.8	97.3	57.3
85°	51.4	48.7	58.4	82.7	78.4	56.2	37.8	54.1	50.8	29.2
87.5°	16.2	15.1	11.9	28.1	22.7	15.7	10.3	15.7	14.1	6.5
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°
2620.7	0°	2620.7	2620.7	2620.7	2620.7	2620.7	2620.7	2620.7	2620.7	2620.7	2620.7
2629.3	2.5°	2590.9	2527.1	2463.9	2406.0	2370.9	2348.2	2325.5	2300.1	2290.3	2275.7
2636.4	5°	2565.0	2441.7	2332.0	2237.3	2151.4	2083.8	2015.7	1960.5	1935.6	1952.4
2658.5	7.5°	2549.9	2371.4	2202.2	2028.6	1861.6	1728.0	1611.8	1530.1	1493.4	1502.6
2680.2	10°	2536.3	2292.0	2034.0	1759.9	1519.9	1354.4	1235.5	1173.3	1150.0	1154.9
2709.4	12.5°	2523.9	2202.7	1831.3	1470.7	1215.5	1106.2	1072.2	1072.7	1077.0	1080.3
2755.9	15°	2521.7	2095.1	1604.7	1217.6	1051.1	1044.1	1080.8	1104.1	1116.5	1120.3
2794.8	17.5°	2518.5	1966.5	1373.9	1045.1	1011.1	1058.7	1092.7	1107.9	1117.6	1118.1
2832.6	20°	2505.5	1803.2	1160.8	963.0	1002.4	1043.5	1064.6	1076.5	1084.6	1087.3
2861.3	22.5°	2465.5	1621.5	994.9	926.2	967.8	1000.8	1025.7	1039.2	1044.1	1047.3
2866.7	25°	2393.6	1418.2	880.2	891.0	919.7	961.3	981.3	984.0	982.4	987.3
2853.2	27.5°	2299.5	1200.3	808.9	843.5	880.2	915.9	926.7	925.1	921.9	927.3
2829.9	30°	2186.0	1004.6	763.4	789.9	840.2	872.7	882.4	878.6	872.1	878.1
2818.0	32.5°	2065.9	844.5	726.1	752.6	807.2	839.1	848.9	845.1	840.2	845.1
2831.6	35°	1954.0	732.6	691.5	727.8	781.3	812.6	825.1	825.6	825.6	831.6
2867.2	37.5°	1851.3	667.2	662.9	712.1	763.4	791.6	809.4	810.5	787.2	788.9
2927.8	40°	1756.1	639.6	649.9	701.8	746.1	773.2	774.3	713.7	671.0	669.9
2997.0	42.5°	1678.3	634.2	653.7	700.7	733.7	734.8	658.6	611.5	599.6	600.2
3060.8	45°	1605.3	632.6	662.3	700.7	715.3	634.8	583.4	571.0	572.0	576.4
3089.5	47.5°	1523.6	626.1	664.0	691.0	662.3	564.5	549.3	543.9	541.8	542.8
3083.0	50°	1434.4	602.9	643.4	671.5	571.5	534.2	515.3	513.6	516.4	518.0
3046.7	52.5°	1340.4	565.0	608.3	636.4	529.9	507.7	486.6	490.4	502.3	506.1
3008.9	55°	1278.7	520.7	561.8	566.1	500.7	482.8	465.0	473.6	495.8	502.8
2986.2	57.5°	1262.5	473.6	508.8	503.9	463.4	461.2	450.4	458.0	486.1	496.3
2985.1	60°	1257.6	431.5	456.9	453.1	427.1	437.4	434.7	438.5	448.2	451.5
2974.3	62.5°	1219.8	397.9	410.4	405.0	394.7	412.5	419.0	410.9	418.5	422.3
2900.2	65°	1123.5	370.9	365.0	361.2	365.5	381.7	394.7	378.5	385.5	396.3
2614.7	67.5°	964.6	334.1	317.9	322.2	335.8	344.4	361.2	342.8	348.7	367.1
2106.0	70°	780.2	287.6	273.0	285.5	298.5	316.3	319.0	306.6	320.6	341.2
1285.2	72.5°	552.0	240.6	230.3	255.7	260.1	283.3	277.4	271.4	290.9	297.9
635.3	75°	382.8	194.1	188.2	207.6	223.3	243.3	239.0	246.0	287.1	290.3
317.4	77.5°	242.2	150.9	147.1	159.5	181.1	203.3	210.3	290.3	490.4	509.9
164.9	80°	140.6	112.5	108.1	117.9	136.8	157.3	202.8	356.3	323.3	319.5
74.1	82.5°	78.4	77.3	71.9	74.6	91.4	113.5	286.6	250.9	203.8	210.3
29.7	85°	36.8	45.4	38.9	37.3	51.4	133.0	191.4	143.3	95.2	93.0
6.5	87.5°	9.7	8.7	8.7	9.7	21.6	114.6	76.2	61.1	36.2	35.1
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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