

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: P946093

Luminaire Tested: **GALN-SB1D-835-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946093
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-SB1D-835-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9603 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

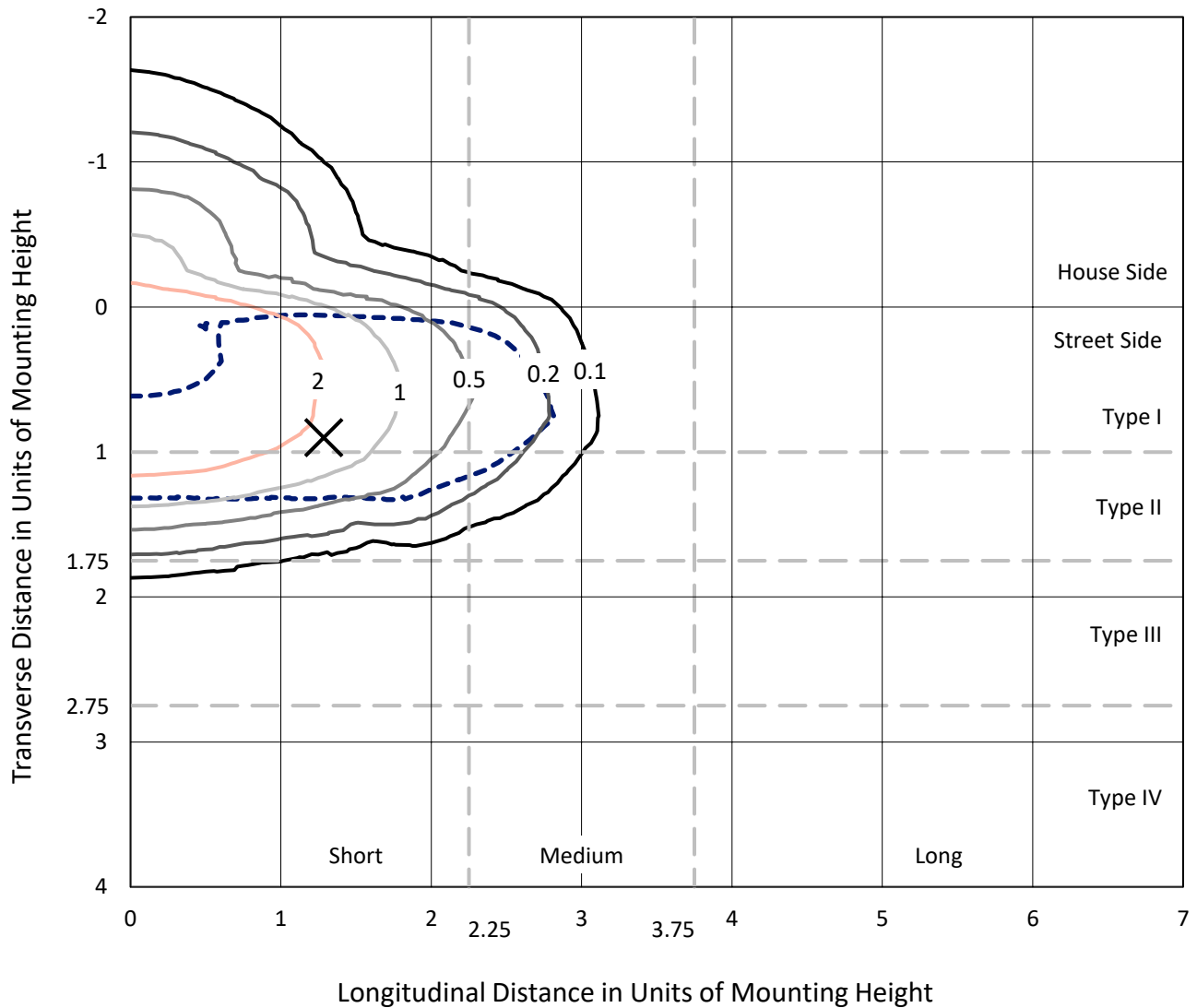
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

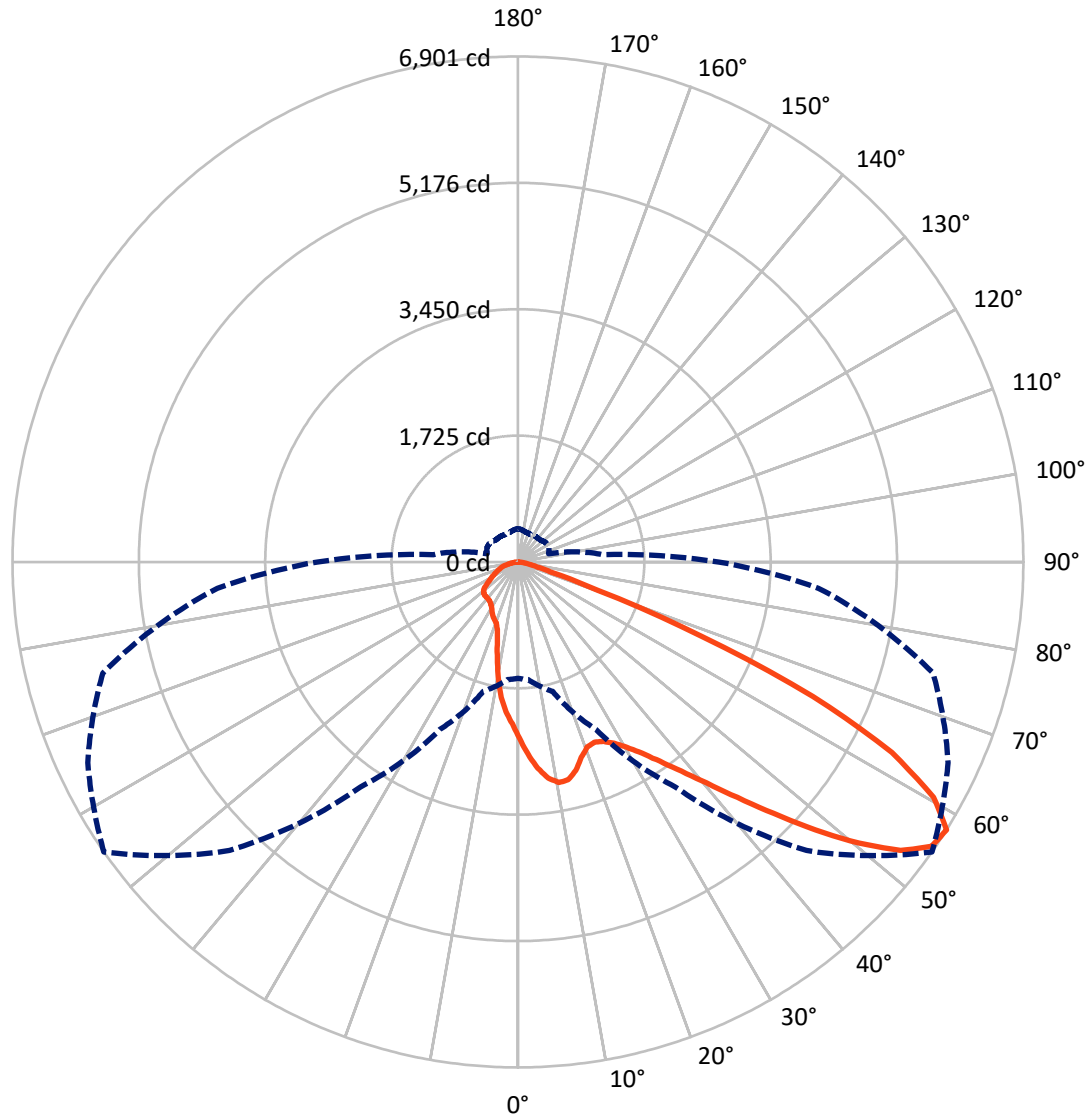
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	1737.6	0.0	1737.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7865.4	0.0	7865.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	9603.0	0.0	9603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	2.3
10°-20°	563.6	5.9
20°-30°	899.3	9.4
30°-40°	1423.8	14.8
40°-50°	2179.3	22.7
50°-60°	2334.2	24.3
60°-70°	1468.5	15.3
70°-80°	434.3	4.5
80°-90°	76.8	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°	9603.0	100.0
0°-180°	9603.0	100.0

Coefficient of Utilization



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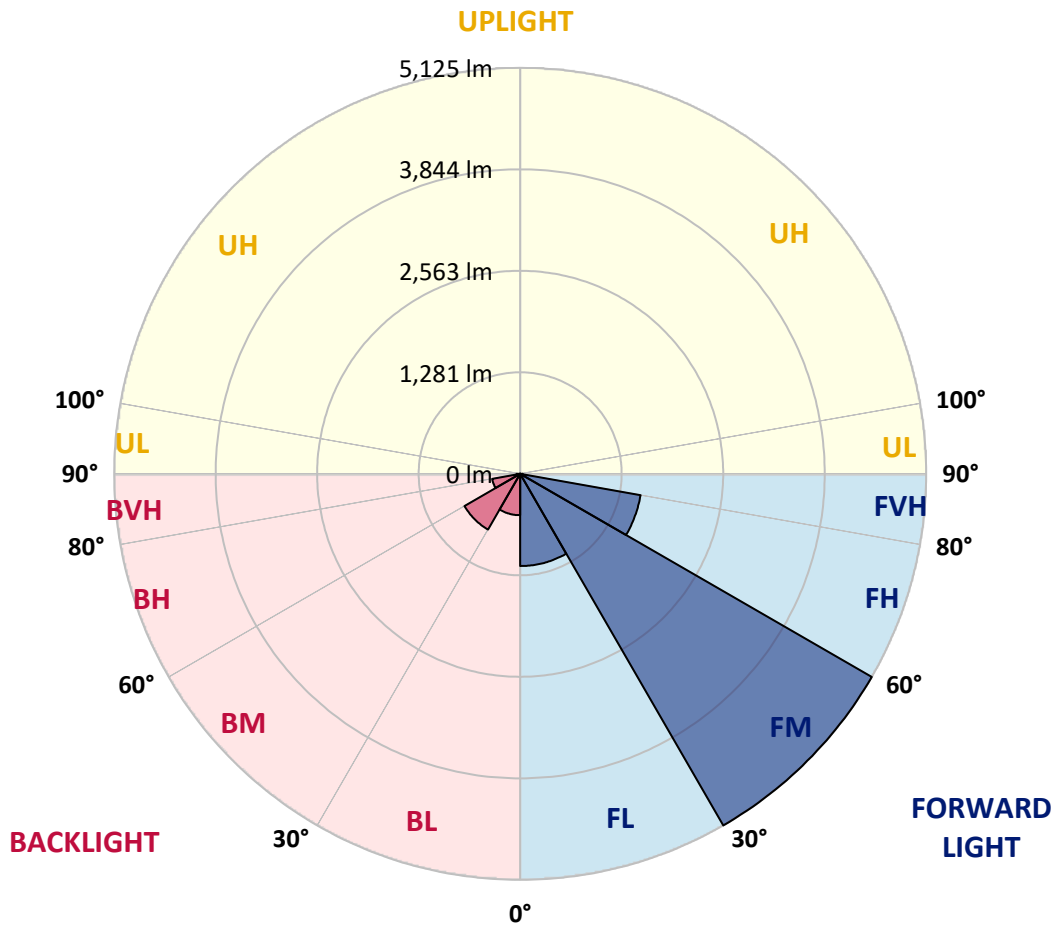
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.9	12.1			
FM (30°-60°)	5125.2	53.4			
FH (60°-80°)	1543.9	16.1			G1/1800
FVH (80°-90°)	32.4	0.3			G1/100
BL (0°-30°)	522.3	5.4	B2/1000		
BM (30°-60°)	812.1	8.5	B1/1000		
BH (60°-80°)	358.9	3.7	B1/500		G1/500
BVH (80°-90°)	44.3	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°	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2
2.5°	2760.7	2758.7	2769.6	2732.4	2707.0	2672.8	2627.6	2570.0	2508.0	2442.4
5°	3009.4	2992.0	3003.4	2975.6	2947.8	2896.2	2829.2	2735.3	2620.7	2490.1
7.5°	2970.1	2958.2	2987.5	3012.3	3033.2	3026.7	2977.6	2879.3	2731.4	2541.7
10°	2653.9	2640.5	2681.7	2767.6	2893.7	3003.4	3063.0	3001.9	2844.5	2598.3
12.5°	2374.9	2368.5	2395.8	2465.3	2605.3	2815.8	3052.1	3109.1	2962.2	2665.3
15°	2255.8	2247.8	2265.2	2300.5	2389.8	2585.9	2952.8	3182.6	3077.9	2742.8
17.5°	2229.5	2220.5	2228.0	2246.3	2303.9	2453.4	2802.8	3218.9	3198.5	2829.2
20°	2278.1	2270.7	2271.7	2270.7	2310.9	2429.5	2698.6	3205.0	3303.7	2908.6
22.5°	2395.8	2383.4	2383.9	2357.5	2379.4	2471.2	2671.3	3167.7	3397.6	2978.1
25°	2587.4	2565.1	2569.5	2502.5	2496.6	2564.6	2714.0	3138.9	3490.9	3033.7
27.5°	2849.5	2824.2	2810.8	2711.0	2663.4	2697.1	2800.9	3148.9	3579.3	3081.8
30°	3177.2	3146.4	3119.1	2977.6	2891.2	2878.8	2935.9	3214.4	3683.5	3132.5
32.5°	3578.8	3543.0	3493.4	3305.7	3184.1	3119.1	3110.6	3331.1	3805.6	3197.0
35°	4056.8	4010.2	3939.7	3696.9	3543.0	3410.0	3341.0	3499.3	3972.9	3294.3
37.5°	4549.3	4496.7	4432.1	4143.2	3954.1	3758.0	3622.0	3727.7	4195.8	3426.4
40°	5003.5	4944.5	4884.4	4627.2	4424.2	4187.9	3966.0	4016.6	4468.4	3584.2
42.5°	5271.6	5227.9	5205.1	5066.1	4909.2	4669.4	4393.9	4359.2	4774.7	3765.9
45°	5259.7	5241.8	5312.3	5369.9	5332.7	5199.6	4895.3	4737.9	5082.0	3923.3
47.5°	4978.7	4990.6	5148.0	5471.7	5614.1	5683.6	5466.2	5109.8	5349.0	4040.9
50°	4214.2	4224.1	4588.5	5286.5	5686.6	6078.3	6032.6	5472.7	5556.1	4112.9
52.5°	3609.1	3615.5	3771.9	4737.4	5447.3	6276.9	6543.0	5814.7	5707.5	4132.8
55°	2718.5	2740.8	2916.0	3716.8	4824.8	6119.5	6853.7	6167.2	5803.3	4134.8
57.5°	1588.1	1612.4	1828.9	2522.9	3750.0	5570.9	6900.9	6479.9	5868.3	4118.9
60°	777.9	788.3	882.7	1326.0	2312.4	4514.0	6521.6	6631.3	5904.5	4110.4
62.5°	524.2	522.7	526.7	654.3	1139.3	2900.1	5731.3	6366.2	5885.2	4078.2
65°	450.8	445.3	430.4	459.2	590.3	1326.5	4428.2	5574.9	5737.7	3997.3
67.5°	389.7	390.2	390.7	381.8	421.5	612.1	2706.0	4391.4	5208.6	3614.0
70°	322.7	327.1	329.1	329.1	343.5	401.6	1155.2	3009.9	4108.5	2833.6
72.5°	293.9	284.5	285.4	280.5	280.5	305.8	465.2	1706.2	2588.4	1594.0
75°	239.8	245.7	246.7	243.3	231.8	233.3	276.0	715.9	1107.5	661.2
77.5°	207.0	207.0	209.0	206.5	197.6	174.7	184.2	277.5	376.8	271.1
80°	166.3	165.8	174.2	179.2	165.3	129.1	117.7	153.4	167.3	119.1
82.5°	80.9	85.9	119.6	136.5	125.6	93.3	72.0	95.3	89.4	52.6
85°	47.2	44.7	53.6	76.0	72.0	51.6	34.8	49.6	46.7	26.8
87.5°	14.9	13.9	10.9	25.8	20.9	14.4	9.4	14.4	12.9	6.0
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°
2406.2	0°	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2
2414.1	2.5°	2378.9	2320.3	2262.2	2209.1	2176.8	2156.0	2135.1	2111.8	2102.9	2089.5
2420.6	5°	2355.1	2241.9	2141.1	2054.2	1975.3	1913.2	1850.7	1800.1	1777.2	1792.6
2441.0	7.5°	2341.2	2177.3	2022.0	1862.6	1709.2	1586.6	1479.9	1404.9	1371.1	1379.6
2460.8	10°	2328.8	2104.4	1867.6	1615.9	1395.5	1243.6	1134.3	1077.3	1055.9	1060.4
2487.6	12.5°	2317.3	2022.5	1681.4	1350.3	1116.0	1015.7	984.4	984.9	988.9	991.9
2530.3	15°	2315.4	1923.7	1473.4	1118.0	965.1	958.6	992.4	1013.7	1025.1	1028.6
2566.1	17.5°	2312.4	1805.5	1261.4	959.6	928.3	972.0	1003.3	1017.2	1026.1	1026.6
2600.8	20°	2300.5	1655.6	1065.8	884.1	920.4	958.1	977.5	988.4	995.8	998.3
2627.1	22.5°	2263.7	1488.8	913.4	850.4	888.6	918.9	941.7	954.1	958.6	961.6
2632.1	25°	2197.7	1302.1	808.2	818.1	844.4	882.7	901.0	903.5	902.0	906.5
2619.7	27.5°	2111.3	1102.1	742.7	774.4	808.2	841.0	850.9	849.4	846.4	851.4
2598.3	30°	2007.1	922.4	701.0	725.3	771.5	801.2	810.2	806.7	800.7	806.2
2587.4	32.5°	1896.9	775.4	666.7	691.0	741.2	770.5	779.4	775.9	771.5	775.9
2599.8	35°	1794.1	672.7	634.9	668.2	717.3	746.1	757.6	758.0	758.0	763.5
2632.6	37.5°	1699.8	612.6	608.6	653.8	701.0	726.8	743.2	744.1	722.8	724.3
2688.2	40°	1612.4	587.3	596.7	644.4	685.1	709.9	710.9	655.3	616.1	615.1
2751.7	42.5°	1540.9	582.3	600.2	643.4	673.7	674.6	604.7	561.5	550.5	551.0
2810.3	45°	1473.9	580.8	608.1	643.4	656.8	582.8	535.6	524.2	525.2	529.2
2836.6	47.5°	1398.9	574.9	609.6	634.4	608.1	518.3	504.4	499.4	497.4	498.4
2830.6	50°	1317.0	553.5	590.8	616.6	524.7	490.5	473.1	471.6	474.1	475.6
2797.4	52.5°	1230.7	518.8	558.5	584.3	486.5	466.1	446.8	450.3	461.2	464.7
2762.6	55°	1174.1	478.1	515.8	519.8	459.7	443.3	426.9	434.9	455.2	461.7
2741.8	57.5°	1159.2	434.9	467.1	462.7	425.4	423.5	413.5	420.5	446.3	455.7
2740.8	60°	1154.7	396.2	419.5	416.0	392.2	401.6	399.1	402.6	411.5	414.5
2730.9	62.5°	1119.9	365.4	376.8	371.8	362.4	378.8	384.7	377.3	384.2	387.7
2662.9	65°	1031.6	340.6	335.1	331.6	335.6	350.5	362.4	347.5	354.0	363.9
2400.7	67.5°	885.6	306.8	291.9	295.9	308.3	316.2	331.6	314.7	320.2	337.1
1933.6	70°	716.3	264.1	250.7	262.1	274.0	290.4	292.9	281.5	294.4	313.2
1180.0	72.5°	506.9	220.9	211.5	234.8	238.8	260.1	254.7	249.2	267.1	273.5
583.3	75°	351.5	178.2	172.8	190.6	205.0	223.4	219.4	225.9	263.6	266.6
291.4	77.5°	222.4	138.5	135.0	146.4	166.3	186.7	193.1	266.6	450.3	468.1
151.4	80°	129.1	103.3	99.3	108.2	125.6	144.5	186.2	327.1	296.9	293.4
68.0	82.5°	72.0	71.0	66.0	68.5	83.9	104.3	263.1	230.3	187.2	193.1
27.3	85°	33.8	41.7	35.7	34.3	47.2	122.1	175.7	131.6	87.4	85.4
6.0	87.5°	8.9	7.9	7.9	8.9	19.9	105.2	70.0	56.1	33.3	32.3
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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