

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: P946786

Luminaire Tested: **GALN-SB2B-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946786
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-SB2B-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10291 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

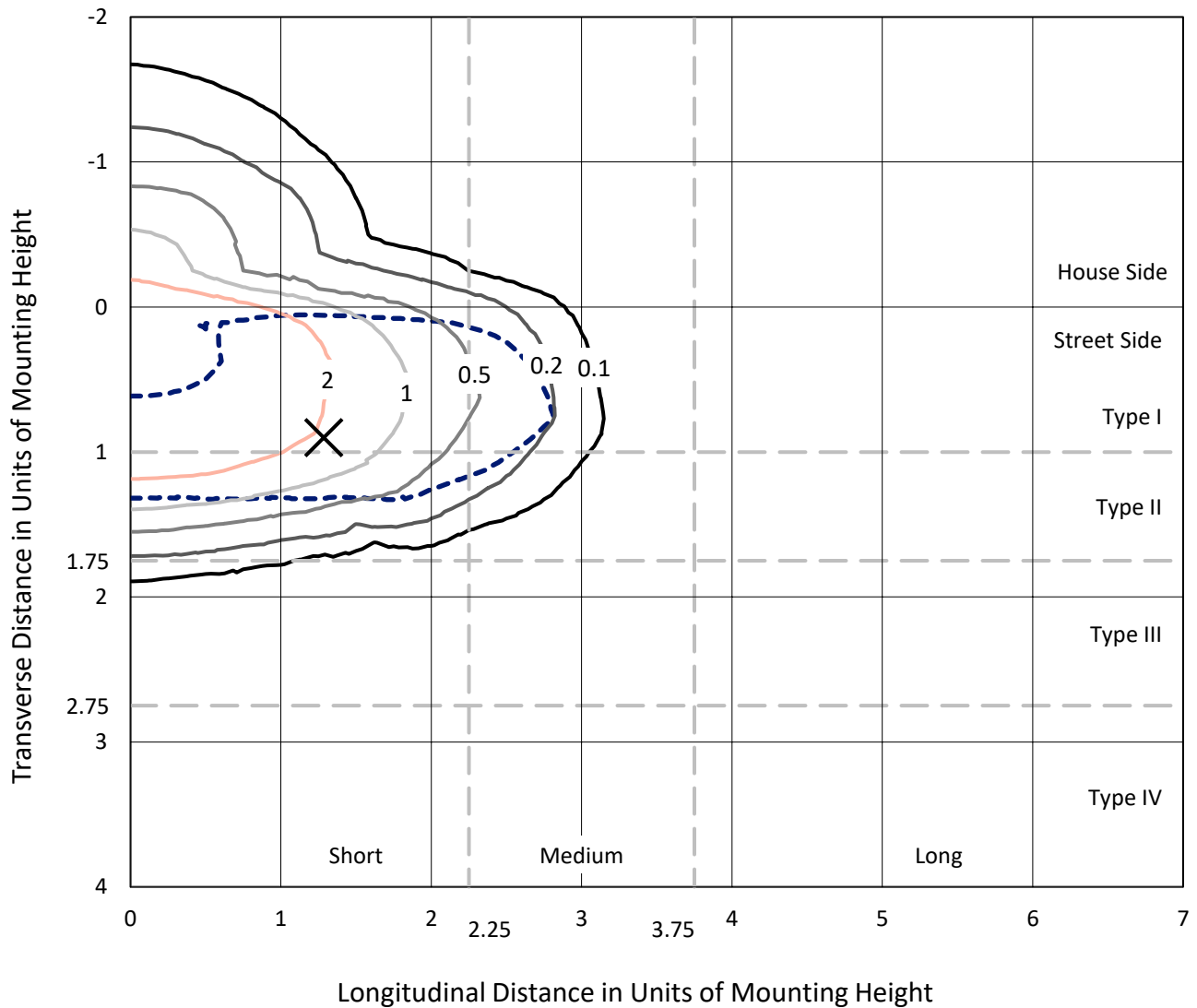
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

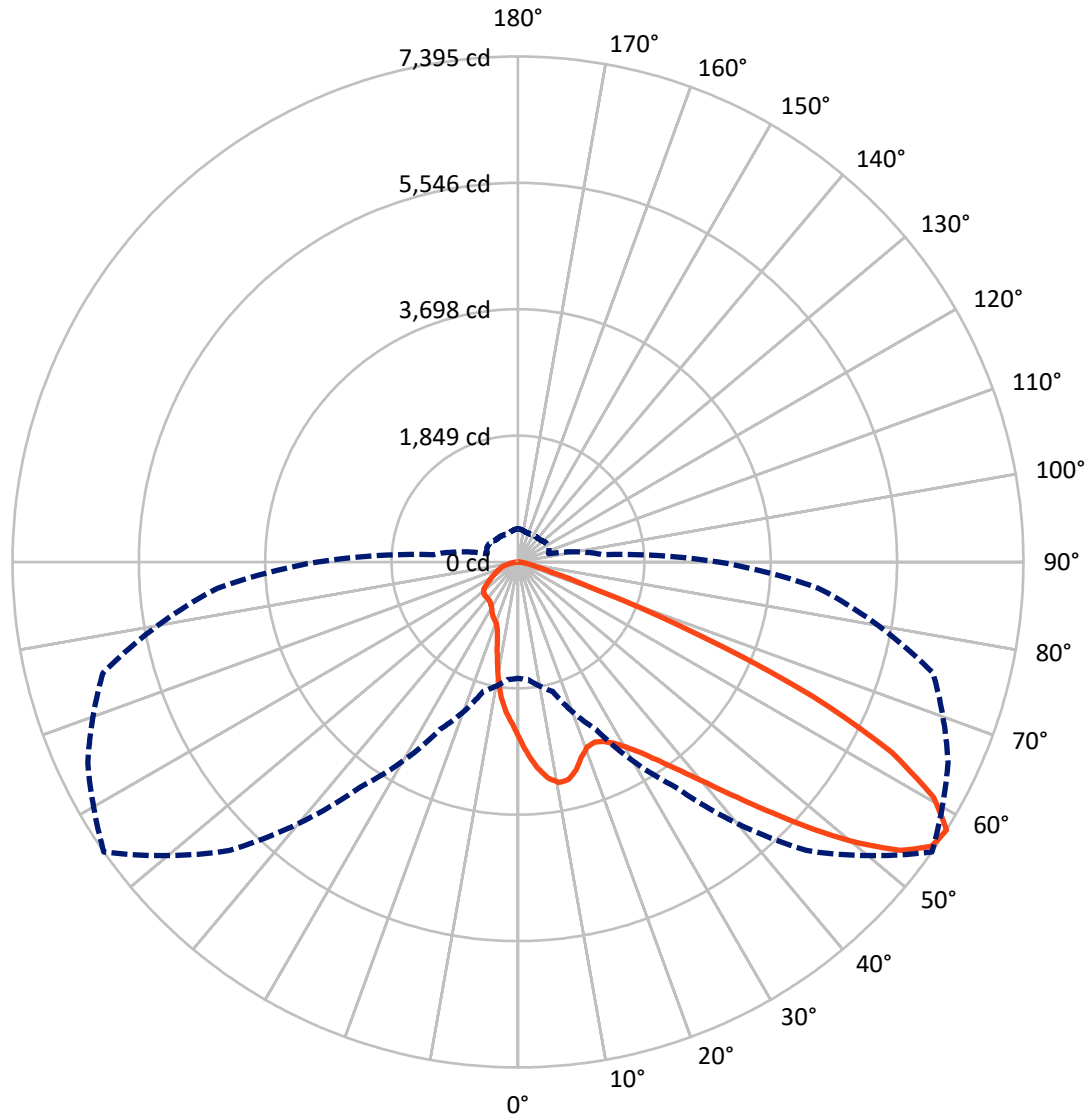
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	1862.1	0.0	1862.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8428.9	0.0	8428.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	10291.0	0.0	10291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	2.3
10°-20°	603.9	5.9
20°-30°	963.7	9.4
30°-40°	1525.8	14.8
40°-50°	2335.4	22.7
50°-60°	2501.5	24.3
60°-70°	1573.7	15.3
70°-80°	465.4	4.5
80°-90°	82.3	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°	10291.0	100.0
0°-180°	10291.0	100.0

Coefficient of Utilization



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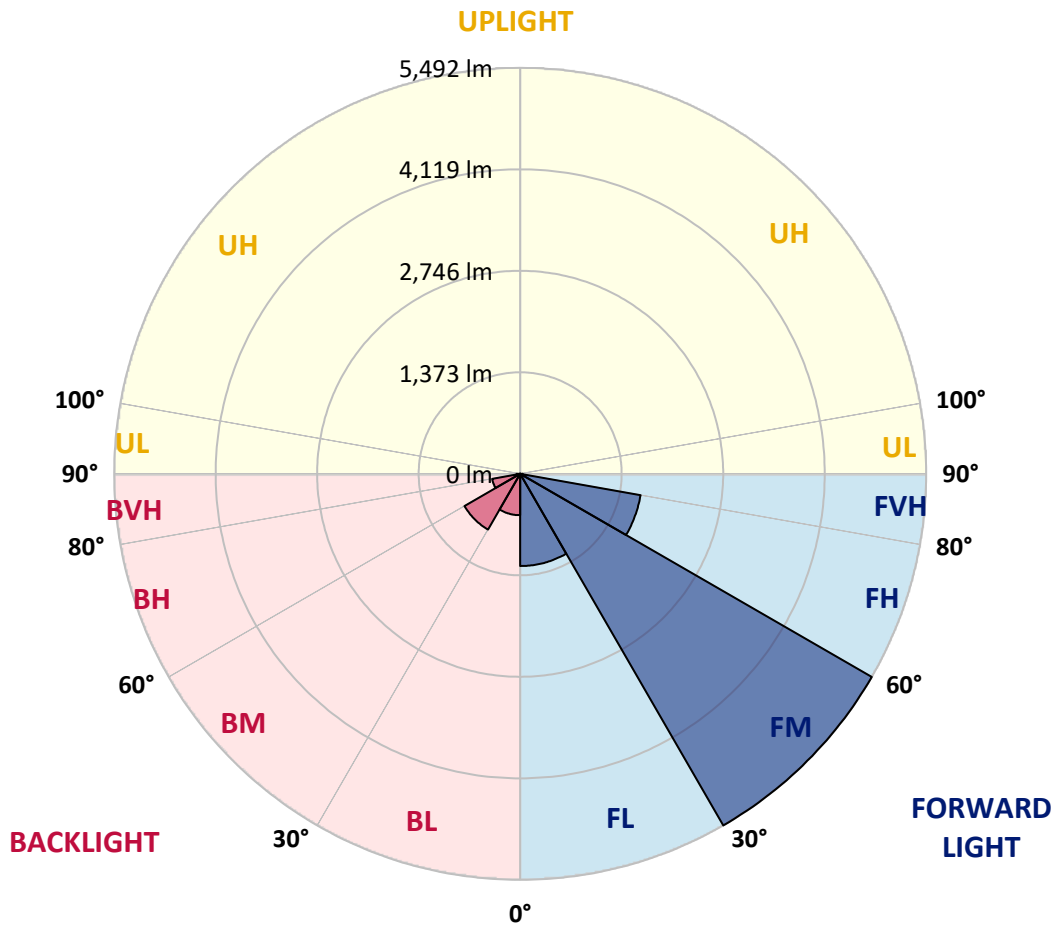
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.3	12.1			
FM (30°-60°)	5492.4	53.4			
FH (60°-80°)	1654.5	16.1			G1/1800
FVH (80°-90°)	34.8	0.3			G1/100
BL (0°-30°)	559.7	5.4	B2/1000		
BM (30°-60°)	870.3	8.5	B1/1000		
BH (60°-80°)	384.6	3.7	B1/500		G1/500
BVH (80°-90°)	47.5	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°	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6
2.5°	2958.4	2956.3	2968.0	2928.1	2901.0	2864.3	2815.9	2754.1	2687.6	2617.4
5°	3225.0	3206.3	3218.6	3188.8	3159.0	3103.7	3031.9	2931.3	2808.4	2668.5
7.5°	3182.9	3170.2	3201.6	3228.2	3250.5	3243.6	3190.9	3085.6	2927.0	2723.8
10°	2844.1	2829.7	2873.8	2965.9	3101.0	3218.6	3282.4	3217.0	3048.3	2784.5
12.5°	2545.1	2538.2	2567.4	2641.9	2791.9	3017.5	3270.7	3331.9	3174.4	2856.3
15°	2417.4	2408.9	2427.5	2465.3	2561.0	2771.2	3164.3	3410.6	3298.4	2939.3
17.5°	2389.2	2379.6	2387.6	2407.3	2469.0	2629.1	3003.7	3449.5	3427.7	3031.9
20°	2441.3	2433.4	2434.4	2433.4	2476.4	2603.6	2891.9	3434.6	3540.4	3117.0
22.5°	2567.4	2554.1	2554.7	2526.5	2549.9	2648.3	2862.7	3394.7	3641.0	3191.5
25°	2772.8	2748.8	2753.6	2681.8	2675.4	2748.3	2908.4	3363.8	3741.0	3251.0
27.5°	3053.7	3026.5	3012.2	2905.2	2854.2	2890.3	3001.5	3374.5	3835.7	3302.6
30°	3404.8	3371.8	3342.5	3190.9	3098.4	3085.1	3146.2	3444.7	3947.4	3356.9
32.5°	3835.2	3796.9	3743.7	3542.6	3412.2	3342.5	3333.5	3569.7	4078.3	3426.1
35°	4347.5	4297.5	4221.9	3961.8	3796.9	3654.3	3580.3	3750.0	4257.6	3530.3
37.5°	4875.2	4818.8	4749.7	4440.0	4237.4	4027.2	3881.5	3994.8	4496.4	3671.8
40°	5362.0	5298.7	5234.3	4958.7	4741.2	4487.9	4250.1	4304.4	4788.5	3841.0
42.5°	5649.3	5602.5	5578.0	5429.0	5260.9	5004.0	4708.7	4671.5	5116.7	4035.7
45°	5636.5	5617.4	5692.9	5754.6	5714.7	5572.1	5246.0	5077.4	5446.1	4204.4
47.5°	5335.4	5348.2	5516.8	5863.7	6016.4	6090.8	5857.8	5475.8	5732.3	4330.5
50°	4516.1	4526.8	4917.3	5665.2	6094.0	6513.8	6464.8	5864.7	5954.1	4407.6
52.5°	3867.6	3874.5	4042.1	5076.8	5837.6	6726.6	7011.7	6231.3	6116.4	4428.9
55°	2913.2	2937.2	3125.0	3983.1	5170.5	6557.9	7344.8	6609.0	6219.0	4431.0
57.5°	1701.9	1727.9	1959.9	2703.6	4018.7	5970.1	7395.3	6944.2	6288.7	4414.0
60°	833.6	844.8	945.9	1421.0	2478.0	4837.5	6988.8	7106.4	6327.6	4404.9
62.5°	561.8	560.2	564.4	701.2	1220.9	3107.9	6141.9	6822.3	6306.8	4370.4
65°	483.1	477.2	461.2	492.1	632.5	1421.5	4745.4	5974.3	6148.8	4283.6
67.5°	417.6	418.1	418.7	409.1	451.7	656.0	2899.9	4706.0	5581.7	3872.9
70°	345.8	350.6	352.7	352.7	368.1	430.4	1238.0	3225.5	4402.8	3036.6
72.5°	314.9	304.8	305.9	300.6	300.6	327.7	498.5	1828.5	2773.8	1708.2
75°	257.0	263.3	264.4	260.7	248.4	250.0	295.8	767.1	1186.9	708.6
77.5°	221.8	221.8	224.0	221.3	211.7	187.3	197.4	297.4	403.8	290.5
80°	178.2	177.7	186.7	192.1	177.2	138.3	126.1	164.4	179.3	127.7
82.5°	86.7	92.0	128.2	146.3	134.6	100.0	77.1	102.1	95.8	56.4
85°	50.5	47.9	57.5	81.4	77.1	55.3	37.2	53.2	50.0	28.7
87.5°	16.0	14.9	11.7	27.7	22.3	15.4	10.1	15.4	13.8	6.4
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°
2578.6	0°	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6
2587.1	2.5°	2549.3	2486.6	2424.3	2367.4	2332.8	2310.5	2288.1	2263.1	2253.5	2239.2
2594.0	5°	2523.8	2402.5	2294.5	2201.4	2116.8	2050.3	1983.3	1929.0	1904.6	1921.0
2615.8	7.5°	2508.9	2333.3	2166.8	1996.1	1831.7	1700.3	1585.9	1505.6	1469.4	1478.4
2637.1	10°	2495.6	2255.1	2001.4	1731.7	1495.4	1332.7	1215.6	1154.4	1131.6	1136.3
2665.8	12.5°	2483.4	2167.4	1801.9	1447.0	1195.9	1088.5	1055.0	1055.5	1059.7	1062.9
2711.6	15°	2481.2	2061.5	1579.0	1198.1	1034.2	1027.3	1063.5	1086.3	1098.6	1102.3
2749.9	17.5°	2478.0	1934.9	1351.8	1028.4	994.8	1041.7	1075.2	1090.1	1099.6	1100.2
2787.1	20°	2465.3	1774.2	1142.2	947.5	986.3	1026.8	1047.5	1059.2	1067.2	1069.8
2815.3	22.5°	2425.9	1595.5	978.9	911.3	952.3	984.7	1009.2	1022.5	1027.3	1030.5
2820.6	25°	2355.2	1395.4	866.1	876.7	904.9	945.9	965.6	968.2	966.6	971.4
2807.3	27.5°	2262.6	1181.0	795.9	829.9	866.1	901.2	911.8	910.2	907.1	912.4
2784.5	30°	2150.9	988.5	751.2	777.2	826.7	858.6	868.2	864.5	858.1	864.0
2772.8	32.5°	2032.8	831.0	714.5	740.5	794.3	825.7	835.2	831.5	826.7	831.5
2786.1	35°	1922.6	720.9	680.4	716.1	768.7	799.6	811.8	812.4	812.4	818.2
2821.2	37.5°	1821.6	656.5	652.2	700.6	751.2	778.8	796.4	797.5	774.6	776.2
2880.8	40°	1727.9	629.4	639.5	690.5	734.2	760.8	761.8	702.2	660.2	659.1
2948.9	42.5°	1651.3	624.0	643.2	689.5	721.9	723.0	648.0	601.7	590.0	590.5
3011.6	45°	1579.5	622.4	651.7	689.5	703.8	624.6	574.0	561.8	562.9	567.1
3039.8	47.5°	1499.2	616.1	653.3	679.9	651.7	555.4	540.5	535.2	533.1	534.1
3033.4	50°	1411.4	593.2	633.1	660.7	562.3	525.6	507.0	505.4	508.1	509.7
2997.8	52.5°	1318.8	555.9	598.5	626.2	521.4	499.5	478.8	482.5	494.2	497.9
2960.6	55°	1258.2	512.3	552.7	557.0	492.6	475.1	457.5	466.0	487.8	494.8
2938.2	57.5°	1242.2	466.0	500.6	495.8	455.9	453.8	443.2	450.6	478.3	488.4
2937.2	60°	1237.4	424.5	449.5	445.8	420.3	430.4	427.7	431.4	441.0	444.2
2926.5	62.5°	1200.2	391.5	403.8	398.5	388.4	405.9	412.3	404.3	411.8	415.5
2853.6	65°	1105.5	365.0	359.1	355.4	359.6	375.6	388.4	372.4	379.3	390.0
2572.7	67.5°	949.1	328.8	312.8	317.1	330.4	338.9	355.4	337.3	343.1	361.2
2072.1	70°	767.7	283.0	268.7	280.9	293.7	311.2	313.9	301.6	315.5	335.7
1264.6	72.5°	543.2	236.7	226.6	251.6	255.9	278.8	272.9	267.1	286.2	293.1
625.1	75°	376.7	191.0	185.1	204.3	219.7	239.4	235.1	242.1	282.5	285.7
312.3	77.5°	238.3	148.4	144.7	156.9	178.2	200.0	206.9	285.7	482.5	501.7
162.3	80°	138.3	110.7	106.4	116.0	134.6	154.8	199.5	350.6	318.1	314.4
72.9	82.5°	77.1	76.1	70.8	73.4	89.9	111.7	282.0	246.8	200.6	206.9
29.3	85°	36.2	44.7	38.3	36.7	50.5	130.9	188.3	141.0	93.6	91.5
6.4	87.5°	9.6	8.5	8.5	9.6	21.3	112.8	75.0	60.1	35.6	34.6
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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