

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: P946072

Luminaire Tested: **GALN-SB1D-830-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946072  
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-830-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

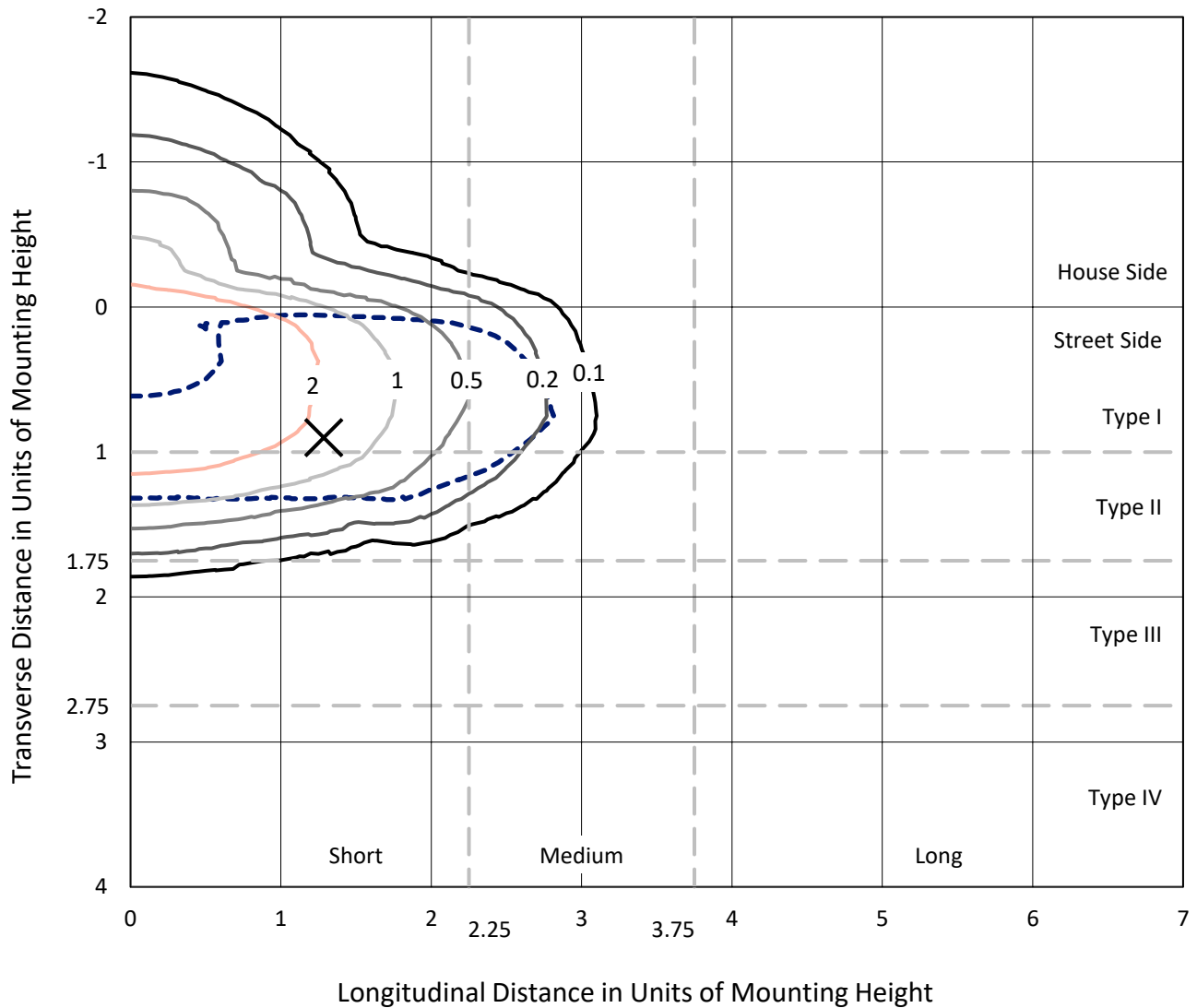
Lumens per Lamp: N/A  
Luminaire Lumens: 9302 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

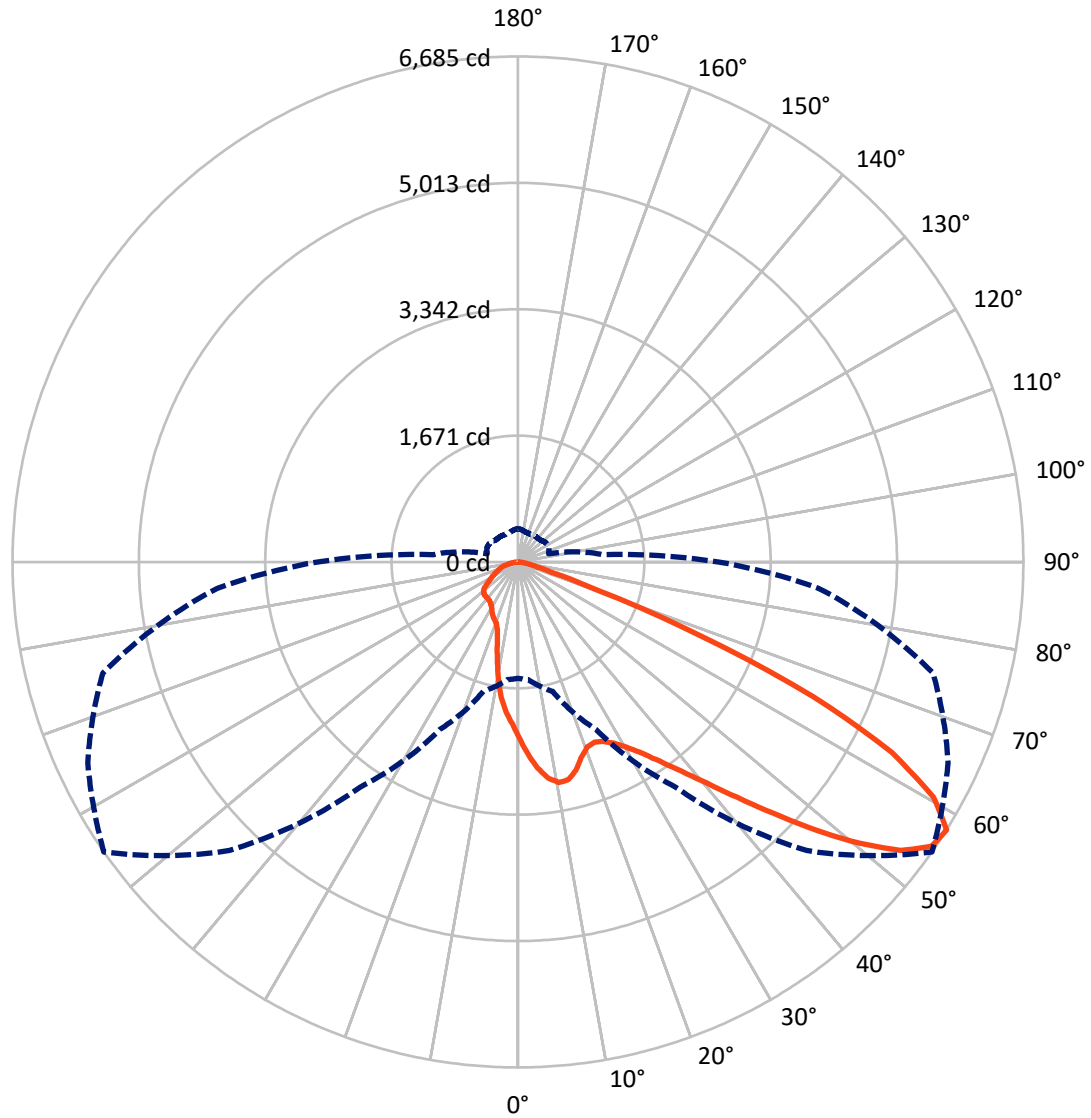
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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
<b>House Side</b>	Lumens	1683.2	0.0	1683.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	7618.9	0.0	7618.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	9302.0	0.0	9302.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.3	2.3
10°-20°	545.9	5.9
20°-30°	871.1	9.4
30°-40°	1379.2	14.8
40°-50°	2111.0	22.7
50°-60°	2261.1	24.3
60°-70°	1422.4	15.3
70°-80°	420.6	4.5
80°-90°	74.4	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°	9302.0	100.0
0°-180°	9302.0	100.0

**Coefficient of Utilization**



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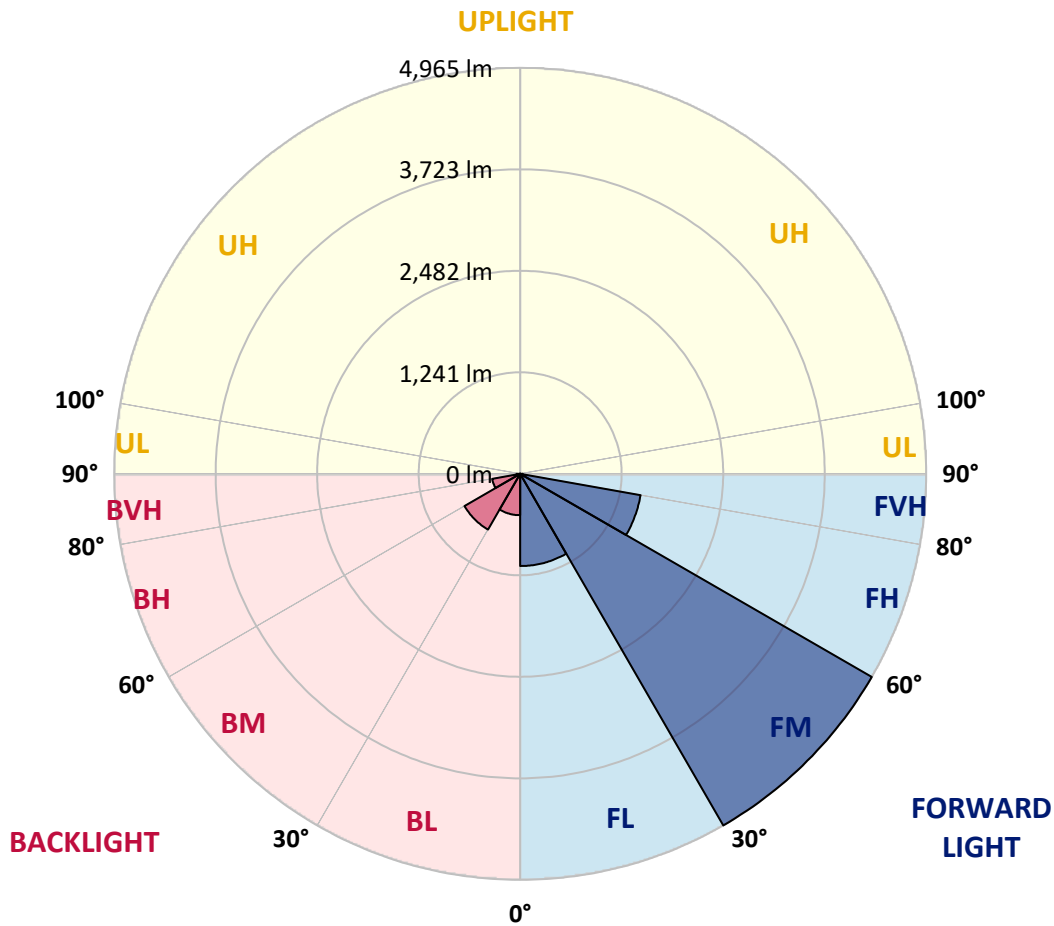
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.4	12.1			
FM (30°-60°)	4964.5	53.4			
FH (60°-80°)	1495.5	16.1			G1/1800
FVH (80°-90°)	31.4	0.3			G1/100
BL (0°-30°)	505.9	5.4	B2/1000		
BM (30°-60°)	786.7	8.5	B1/1000		
BH (60°-80°)	347.6	3.7	B1/500		G1/500
BVH (80°-90°)	43.0	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°	2330.8	2330.8	2330.8	2330.8	2330.8	2330.8	2330.8	2330.8	2330.8	2330.8
2.5°	2674.1	2672.2	2682.8	2646.7	2622.2	2589.0	2545.2	2489.5	2429.4	2365.9
5°	2915.0	2898.2	2909.3	2882.3	2855.4	2805.4	2740.5	2649.6	2538.5	2412.0
7.5°	2877.0	2865.5	2893.9	2917.9	2938.1	2931.9	2884.3	2789.0	2645.7	2462.1
10°	2570.7	2557.8	2597.7	2680.9	2803.0	2909.3	2967.0	2907.8	2755.4	2516.9
12.5°	2300.5	2294.2	2320.7	2388.0	2523.6	2727.5	2956.4	3011.7	2869.4	2581.8
15°	2185.1	2177.4	2194.2	2228.4	2314.9	2504.9	2860.2	3082.9	2981.4	2656.8
17.5°	2159.6	2150.9	2158.1	2175.9	2231.7	2376.5	2715.0	3118.0	3098.2	2740.5
20°	2206.7	2199.5	2200.5	2199.5	2238.5	2353.4	2614.0	3104.5	3200.2	2817.4
22.5°	2320.7	2308.7	2309.1	2283.7	2304.8	2393.8	2587.6	3068.4	3291.1	2884.7
25°	2506.3	2484.7	2489.0	2424.1	2418.3	2484.2	2628.9	3040.5	3381.5	2938.6
27.5°	2760.2	2735.7	2722.7	2626.0	2579.9	2612.6	2713.1	3050.2	3467.1	2985.2
30°	3077.6	3047.8	3021.3	2884.3	2800.6	2788.6	2843.9	3113.6	3568.1	3034.3
32.5°	3466.6	3432.0	3383.9	3202.1	3084.3	3021.3	3013.1	3226.6	3686.4	3096.8
35°	3929.7	3884.5	3816.2	3581.0	3432.0	3303.1	3236.3	3389.7	3848.4	3191.1
37.5°	4406.7	4355.7	4293.2	4013.3	3830.1	3640.2	3508.4	3610.9	4064.3	3319.0
40°	4846.7	4789.5	4731.3	4482.2	4285.5	4056.6	3841.7	3890.7	4328.3	3471.9
42.5°	5106.4	5064.0	5041.9	4907.3	4755.3	4523.1	4256.2	4222.5	4625.0	3647.9
45°	5094.8	5077.5	5145.8	5201.6	5165.5	5036.6	4741.9	4589.4	4922.7	3800.3
47.5°	4822.7	4834.2	4986.6	5300.2	5438.2	5505.5	5294.9	4949.6	5181.4	3914.3
50°	4082.1	4091.7	4444.7	5120.8	5508.4	5887.8	5843.5	5301.1	5381.9	3984.0
52.5°	3495.9	3502.2	3653.7	4588.9	5276.6	6080.1	6337.9	5632.4	5528.6	4003.2
55°	2633.2	2654.9	2824.6	3600.3	4673.6	5927.7	6638.9	5973.9	5621.4	4005.2
57.5°	1538.3	1561.9	1771.5	2443.8	3632.5	5396.3	6684.6	6276.8	5684.4	3989.8
60°	753.5	763.6	855.0	1284.4	2239.9	4372.6	6317.2	6423.5	5719.5	3981.6
62.5°	507.8	506.4	510.2	633.8	1103.6	2809.2	5551.6	6166.7	5700.7	3950.4
65°	436.6	431.3	416.9	444.8	571.8	1284.9	4289.4	5400.2	5557.9	3872.0
67.5°	377.5	378.0	378.4	369.8	408.3	592.9	2621.2	4253.8	5045.3	3500.7
70°	312.6	316.9	318.8	318.8	332.8	389.0	1119.0	2915.5	3979.7	2744.8
72.5°	284.7	275.5	276.5	271.7	271.7	296.2	450.6	1652.8	2507.3	1544.1
75°	232.3	238.0	239.0	235.6	224.6	226.0	267.4	693.4	1072.8	640.5
77.5°	200.5	200.5	202.4	200.0	191.4	169.3	178.4	268.8	365.0	262.6
80°	161.1	160.6	168.8	173.6	160.1	125.0	114.0	148.6	162.1	115.4
82.5°	78.4	83.2	115.9	132.2	121.7	90.4	69.7	92.3	86.6	51.0
85°	45.7	43.3	51.9	73.6	69.7	50.0	33.7	48.1	45.2	26.0
87.5°	14.4	13.5	10.6	25.0	20.2	13.9	9.1	13.9	12.5	5.8
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°
2330.8	0°	2330.8	2330.8	2330.8	2330.8	2330.8	2330.8	2330.8	2330.8	2330.8	2330.8
2338.5	2.5°	2304.3	2247.6	2191.3	2139.9	2108.6	2088.4	2068.2	2045.6	2037.0	2024.0
2344.7	5°	2281.2	2171.6	2074.0	1989.8	1913.4	1853.3	1792.7	1743.6	1721.5	1736.4
2364.4	7.5°	2267.8	2109.1	1958.6	1804.2	1655.6	1536.9	1433.5	1360.9	1328.2	1336.3
2383.7	10°	2255.8	2038.4	1809.0	1565.2	1351.7	1204.6	1098.8	1043.5	1022.8	1027.1
2409.6	12.5°	2244.7	1959.1	1628.7	1308.0	1081.0	983.9	953.6	954.0	957.9	960.8
2451.0	15°	2242.8	1863.4	1427.2	1082.9	934.8	928.6	961.3	981.9	993.0	996.4
2485.6	17.5°	2239.9	1748.9	1221.9	929.5	899.2	941.5	971.8	985.3	994.0	994.4
2519.3	20°	2228.4	1603.7	1032.4	856.4	891.5	928.1	946.8	957.4	964.6	967.0
2544.8	22.5°	2192.8	1442.1	884.8	823.7	860.8	890.1	912.2	924.2	928.6	931.4
2549.6	25°	2128.8	1261.3	782.9	792.5	818.0	855.0	872.8	875.2	873.7	878.1
2537.6	27.5°	2045.1	1067.5	719.4	750.2	782.9	814.6	824.2	822.8	819.9	824.7
2516.9	30°	1944.2	893.5	679.0	702.6	747.3	776.1	784.8	781.4	775.6	780.9
2506.3	32.5°	1837.4	751.1	645.8	669.4	717.9	746.3	755.0	751.6	747.3	751.6
2518.3	35°	1737.9	651.6	615.0	647.3	694.9	722.7	733.8	734.3	734.3	739.6
2550.1	37.5°	1646.5	593.4	589.5	633.3	679.0	704.0	719.9	720.8	700.1	701.6
2603.9	40°	1561.9	568.9	578.0	624.2	663.6	687.6	688.6	634.7	596.8	595.8
2665.5	42.5°	1492.6	564.1	581.4	623.2	652.5	653.5	585.7	543.9	533.3	533.8
2722.2	45°	1427.7	562.6	589.1	623.2	636.2	564.5	518.9	507.8	508.8	512.6
2747.7	47.5°	1355.1	556.8	590.5	614.6	589.1	502.0	488.6	483.8	481.8	482.8
2741.9	50°	1275.7	536.2	572.2	597.2	508.3	475.1	458.3	456.8	459.2	460.7
2709.7	52.5°	1192.1	502.5	541.0	566.0	471.3	451.5	432.8	436.1	446.7	450.1
2676.0	55°	1137.3	463.1	499.6	503.5	445.3	429.4	413.5	421.2	441.0	447.2
2655.8	57.5°	1122.8	421.2	452.5	448.2	412.1	410.2	400.6	407.3	432.3	441.4
2654.9	60°	1118.5	383.7	406.3	403.0	379.9	389.0	386.6	390.0	398.6	401.5
2645.3	62.5°	1084.8	353.9	365.0	360.2	351.0	366.9	372.7	365.5	372.2	375.6
2579.4	65°	999.2	329.9	324.6	321.2	325.1	339.5	351.0	336.6	342.9	352.5
2325.5	67.5°	857.9	297.2	282.8	286.6	298.6	306.3	321.2	304.9	310.2	326.5
1873.0	70°	693.9	255.8	242.8	253.9	265.4	281.3	283.7	272.7	285.2	303.4
1143.0	72.5°	491.0	214.0	204.9	227.5	231.3	252.0	246.7	241.4	258.7	265.0
565.0	75°	340.5	172.6	167.3	184.7	198.6	216.4	212.5	218.8	255.3	258.2
282.3	77.5°	215.4	134.2	130.8	141.9	161.1	180.8	187.1	258.2	436.1	453.5
146.7	80°	125.0	100.0	96.2	104.8	121.7	139.9	180.3	316.9	287.6	284.2
65.9	82.5°	69.7	68.8	64.0	66.4	81.3	101.0	254.9	223.1	181.3	187.1
26.4	85°	32.7	40.4	34.6	33.2	45.7	118.3	170.2	127.4	84.6	82.7
5.8	87.5°	8.7	7.7	7.7	8.7	19.2	101.9	67.8	54.3	32.2	31.3
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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