

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: P949369

Luminaire Tested: **GALN-SB4A-927-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949369  
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-SB4A-927-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

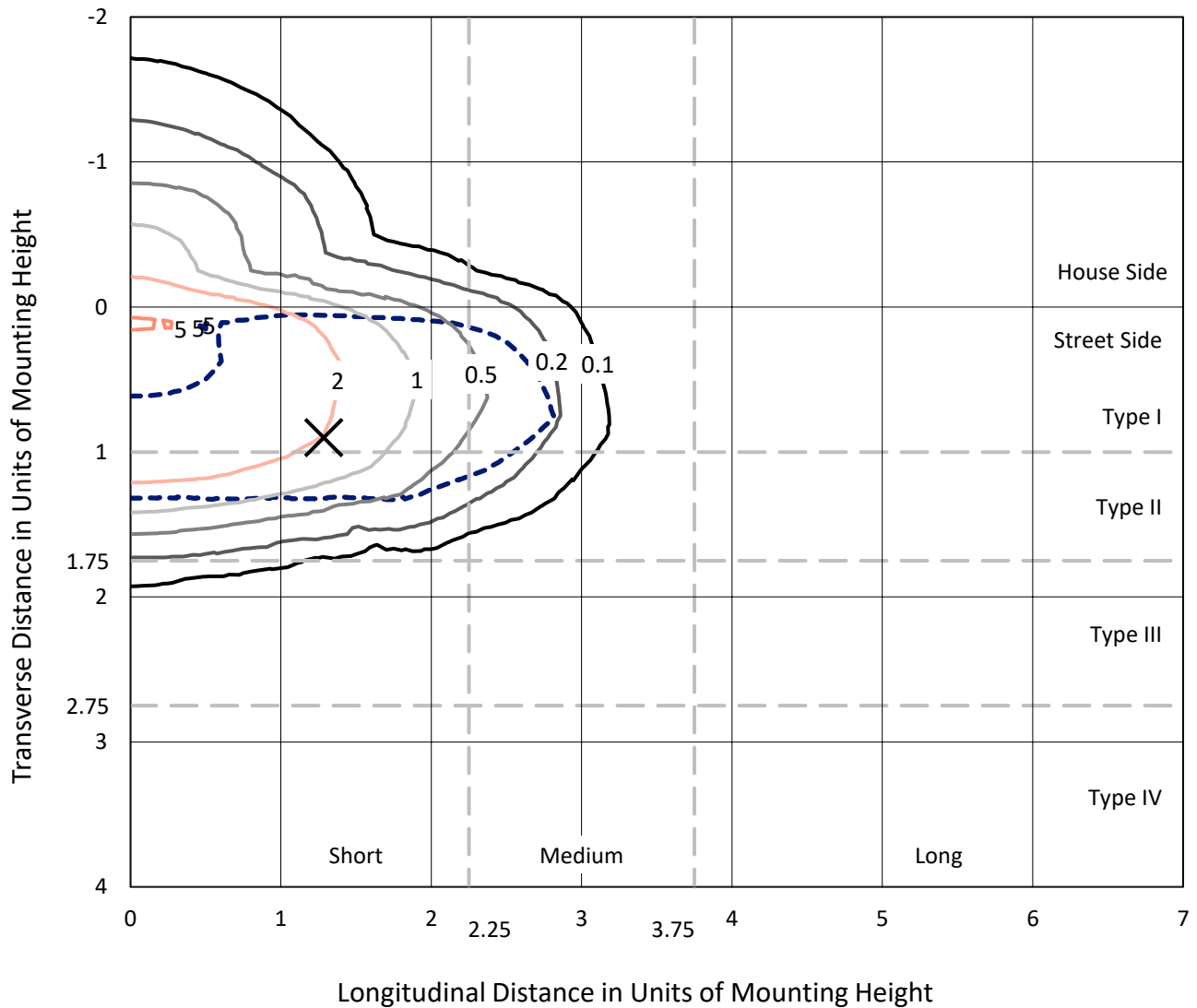
Lumens per Lamp: N/A  
Luminaire Lumens: 11129 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

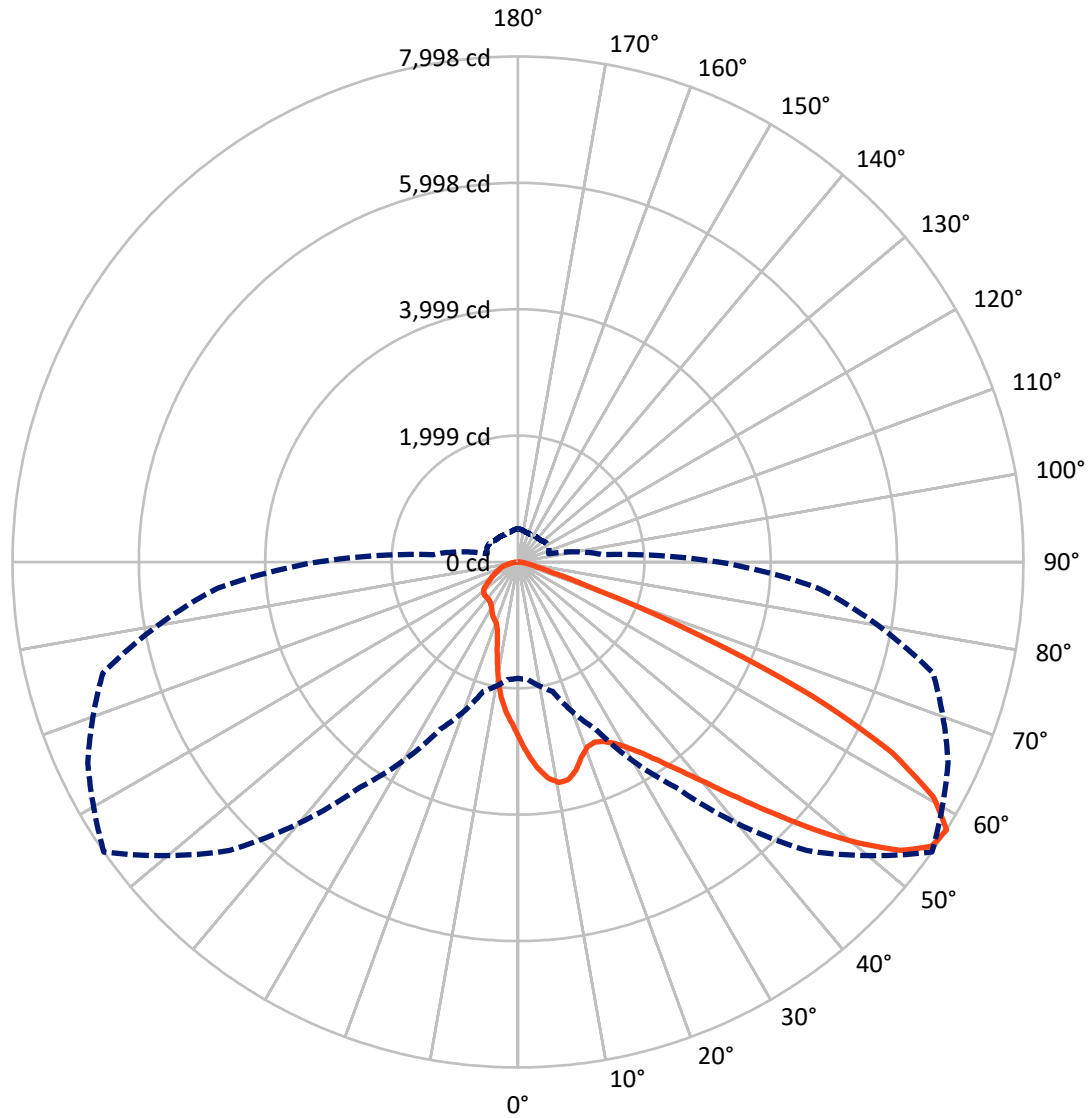
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	2013.7	0.0	2013.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	9115.3	0.0	9115.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	11129.0	0.0	11129.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.8	2.3
10°-20°	653.1	5.9
20°-30°	1042.2	9.4
30°-40°	1650.1	14.8
40°-50°	2525.6	22.7
50°-60°	2705.2	24.3
60°-70°	1701.8	15.3
70°-80°	503.3	4.5
80°-90°	89.0	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°	11129.0	100.0
0°-180°	11129.0	100.0

**Coefficient of Utilization**



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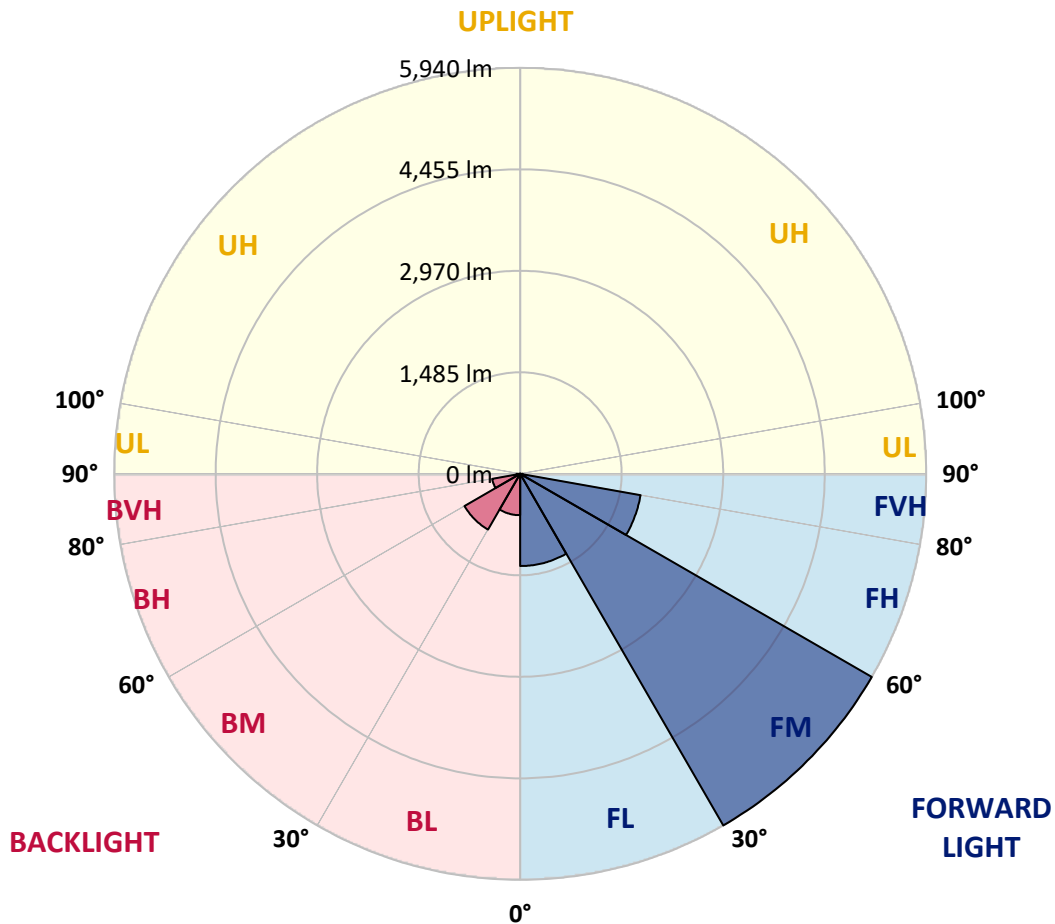
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.8	12.1			
FM (30°-60°)	5939.6	53.4			
FH (60°-80°)	1789.2	16.1			G1/1800
FVH (80°-90°)	37.6	0.3			G1/100
BL (0°-30°)	605.3	5.4	B2/1000		
BM (30°-60°)	941.2	8.5	B1/1000		
BH (60°-80°)	415.9	3.7	B1/500		G1/500
BVH (80°-90°)	51.4	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°	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6
2.5°	3199.3	3197.0	3209.7	3166.6	3137.2	3097.5	3045.2	2978.4	2906.5	2830.6
5°	3487.6	3467.4	3480.7	3448.5	3416.2	3356.4	3278.7	3170.0	3037.1	2885.8
7.5°	3442.1	3428.3	3462.3	3491.0	3515.2	3507.7	3450.8	3336.8	3165.4	2945.6
10°	3075.6	3060.1	3107.9	3207.4	3353.5	3480.7	3549.7	3478.9	3296.6	3011.2
12.5°	2752.3	2744.8	2776.5	2857.0	3019.3	3263.2	3537.1	3603.2	3432.9	3088.9
15°	2614.2	2605.0	2625.2	2666.0	2769.6	2996.8	3422.0	3688.4	3567.0	3178.6
17.5°	2583.8	2573.4	2582.0	2603.3	2670.1	2843.2	3248.2	3730.4	3706.8	3278.7
20°	2640.1	2631.5	2632.7	2631.5	2678.1	2815.6	3127.4	3714.3	3828.7	3370.8
22.5°	2776.5	2762.1	2762.7	2732.2	2757.5	2863.9	3095.8	3671.1	3937.5	3451.3
25°	2998.6	2972.7	2977.8	2900.2	2893.3	2972.1	3145.3	3637.7	4045.6	3515.8
27.5°	3302.3	3273.0	3257.5	3141.8	3086.6	3125.7	3245.9	3649.2	4148.0	3571.6
30°	3682.0	3646.4	3614.7	3450.8	3350.7	3336.3	3402.4	3725.2	4268.9	3630.3
32.5°	4147.5	4106.0	4048.5	3831.0	3690.1	3614.7	3604.9	3860.4	4410.4	3705.0
35°	4701.5	4647.4	4565.7	4284.4	4106.0	3951.9	3871.9	4055.4	4604.3	3817.8
37.5°	5272.2	5211.2	5136.4	4801.6	4582.4	4355.2	4197.5	4320.1	4862.6	3970.8
40°	5798.6	5730.2	5660.6	5362.5	5127.2	4853.4	4596.2	4654.9	5178.4	4153.8
42.5°	6109.3	6058.7	6032.2	5871.1	5689.3	5411.4	5092.1	5051.9	5533.4	4364.4
45°	6095.5	6074.8	6156.5	6223.2	6180.1	6025.9	5673.2	5490.8	5889.5	4546.7
47.5°	5769.9	5783.7	5966.0	6341.2	6506.3	6586.8	6334.8	5921.7	6199.1	4683.1
50°	4883.9	4895.4	5317.7	6126.6	6590.3	7044.2	6991.3	6342.3	6439.0	4766.5
52.5°	4182.6	4190.0	4371.3	5490.3	6313.0	7274.3	7582.7	6738.7	6614.4	4789.5
55°	3150.4	3176.3	3379.4	4307.4	5591.5	7091.9	7942.8	7147.2	6725.5	4791.8
57.5°	1840.4	1868.6	2119.5	2923.8	4346.0	6456.2	7997.5	7509.6	6800.8	4773.4
60°	901.5	913.6	1022.9	1536.7	2679.8	5231.4	7558.0	7685.1	6842.8	4763.6
62.5°	607.5	605.8	610.4	758.3	1320.4	3361.0	6642.0	7377.9	6820.4	4726.2
65°	522.4	516.1	498.8	532.2	684.1	1537.2	5131.8	6460.8	6649.5	4632.5
67.5°	451.6	452.2	452.8	442.4	488.4	709.4	3136.1	5089.3	6036.2	4188.3
70°	374.0	379.1	381.4	381.4	398.1	465.4	1338.8	3488.2	4761.3	3283.9
72.5°	340.6	329.7	330.8	325.1	325.1	354.4	539.1	1977.4	2999.7	1847.3
75°	277.9	284.8	285.9	281.9	268.7	270.4	319.9	829.6	1283.5	766.3
77.5°	239.9	239.9	242.2	239.3	229.0	202.5	213.4	321.6	436.7	314.1
80°	192.7	192.2	201.9	207.7	191.6	149.6	136.4	177.8	193.9	138.1
82.5°	93.8	99.5	138.7	158.2	145.6	108.2	83.4	110.5	103.6	61.0
85°	54.7	51.8	62.1	88.0	83.4	59.8	40.3	57.5	54.1	31.1
87.5°	17.3	16.1	12.7	29.9	24.2	16.7	10.9	16.7	15.0	6.9
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°
2788.6	0°	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6	2788.6
2797.8	2.5°	2756.9	2689.0	2621.7	2560.2	2522.8	2498.6	2474.4	2447.4	2437.0	2421.5
2805.3	5°	2729.3	2598.1	2481.3	2380.7	2289.2	2217.3	2144.8	2086.1	2059.6	2077.5
2828.8	7.5°	2713.2	2523.3	2343.3	2158.6	1980.8	1838.7	1715.0	1628.1	1589.0	1598.8
2851.9	10°	2698.8	2438.8	2164.3	1872.7	1617.2	1441.2	1314.6	1248.4	1223.7	1228.9
2882.9	12.5°	2685.6	2343.8	1948.6	1564.9	1293.3	1177.1	1140.9	1141.4	1146.0	1149.5
2932.4	15°	2683.3	2229.4	1707.5	1295.6	1118.4	1110.9	1150.1	1174.8	1188.0	1192.1
2973.8	17.5°	2679.8	2092.4	1461.9	1112.1	1075.8	1126.5	1162.7	1178.8	1189.2	1189.8
3014.1	20°	2666.0	1918.7	1235.2	1024.6	1066.6	1110.4	1132.8	1145.5	1154.1	1157.0
3044.6	22.5°	2623.4	1725.4	1058.6	985.5	1029.8	1064.9	1091.4	1105.8	1110.9	1114.4
3050.3	25°	2546.9	1509.1	936.6	948.1	978.6	1022.9	1044.2	1047.1	1045.4	1050.5
3036.0	27.5°	2446.8	1277.2	860.7	897.5	936.6	974.6	986.1	984.4	980.9	986.7
3011.2	30°	2326.0	1068.9	812.3	840.5	894.0	928.6	938.9	934.9	928.0	934.3
2998.6	32.5°	2198.3	898.6	772.7	800.8	858.9	892.9	903.2	899.2	894.0	899.2
3012.9	35°	2079.2	779.6	735.8	774.4	831.3	864.7	877.9	878.5	878.5	884.8
3050.9	37.5°	1969.9	709.9	705.3	757.7	812.3	842.3	861.3	862.4	837.7	839.4
3115.3	40°	1868.6	680.6	691.5	746.8	793.9	822.7	823.9	759.4	714.0	712.8
3189.0	42.5°	1785.8	674.8	695.6	745.6	780.7	781.9	700.7	650.7	638.0	638.6
3256.9	45°	1708.1	673.1	704.8	745.6	761.1	675.4	620.8	607.5	608.7	613.3
3287.4	47.5°	1621.2	666.2	706.5	735.3	704.8	600.6	584.5	578.8	576.5	577.6
3280.5	50°	1526.3	641.5	684.6	714.5	608.1	568.4	548.3	546.6	549.4	551.2
3241.9	52.5°	1426.2	601.2	647.2	677.1	563.8	540.2	517.8	521.8	534.5	538.5
3201.6	55°	1360.6	554.0	597.8	602.4	532.7	513.8	494.8	504.0	527.6	535.0
3177.5	57.5°	1343.4	504.0	541.4	536.2	493.0	490.7	479.2	487.3	517.2	528.1
3176.3	60°	1338.2	459.1	486.1	482.1	454.5	465.4	462.6	466.6	476.9	480.4
3164.8	62.5°	1297.9	423.4	436.7	430.9	420.0	439.0	445.9	437.2	445.3	449.3
3086.0	65°	1195.5	394.7	388.3	384.3	388.9	406.2	420.0	402.7	410.2	421.7
2782.2	67.5°	1026.4	355.5	338.3	342.9	357.3	366.5	384.3	364.8	371.1	390.6
2240.9	70°	830.2	306.1	290.5	303.8	317.6	336.6	339.4	326.2	341.2	363.0
1367.5	72.5°	587.4	256.0	245.1	272.1	276.7	301.5	295.1	288.8	309.5	317.0
676.0	75°	407.3	206.5	200.2	220.9	237.6	258.9	254.3	261.8	305.5	308.9
337.7	77.5°	257.7	160.5	156.5	169.7	192.7	216.3	223.8	308.9	521.8	542.5
175.5	80°	149.6	119.7	115.1	125.4	145.6	167.4	215.7	379.1	344.0	340.0
78.8	82.5°	83.4	82.3	76.5	79.4	97.2	120.8	304.9	266.9	216.9	223.8
31.6	85°	39.1	48.3	41.4	39.7	54.7	141.5	203.7	152.5	101.3	99.0
6.9	87.5°	10.4	9.2	9.2	10.4	23.0	122.0	81.1	65.0	38.5	37.4
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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