

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: P948025

Luminaire Tested: **GALN-SB3A-950-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948025  
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-SB3A-950-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

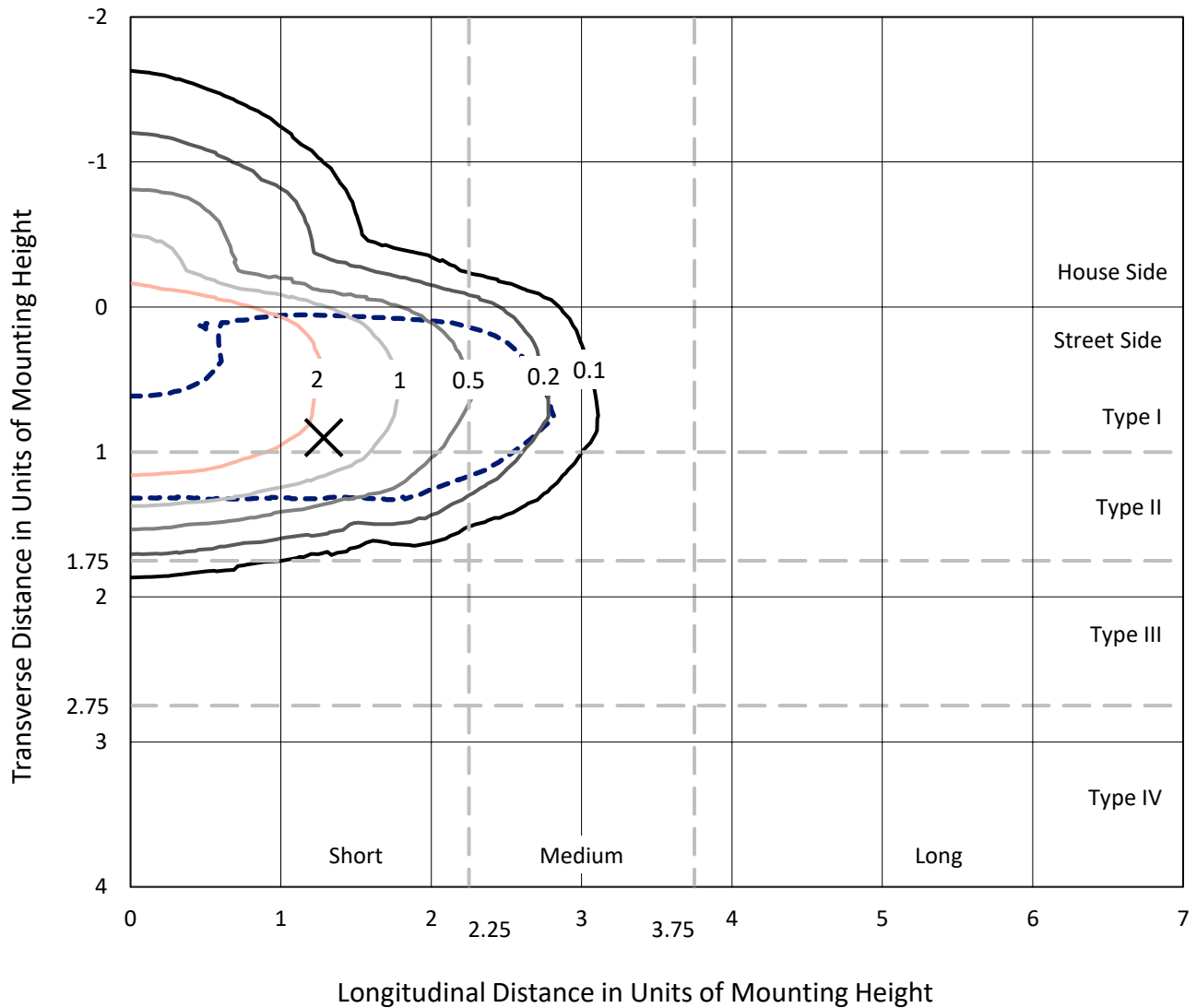
Lumens per Lamp: N/A  
Luminaire Lumens: 9522 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

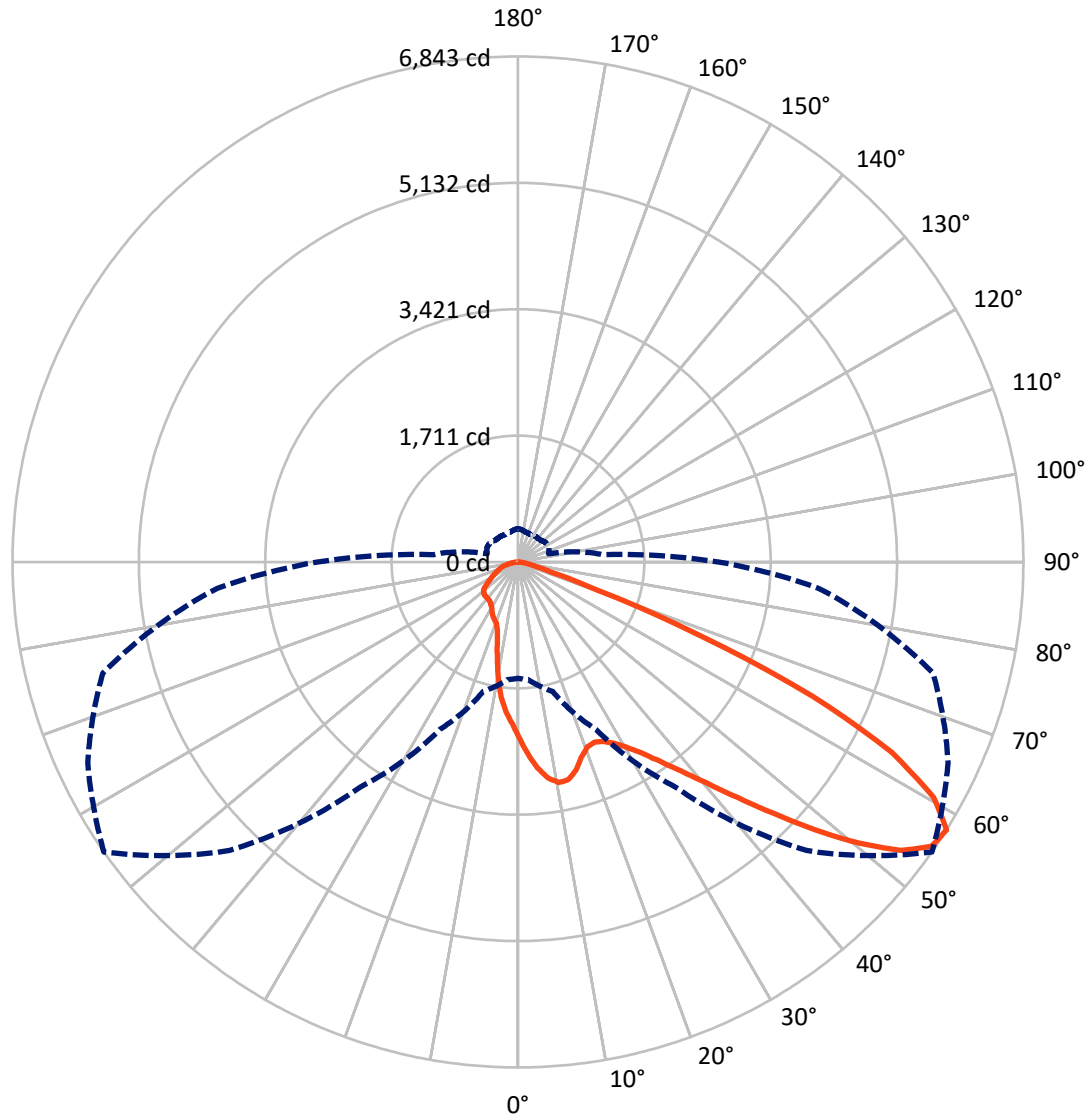
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	1723.0	0.0	1723.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	7799.0	0.0	7799.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	9522.0	0.0	9522.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.4	2.3
10°-20°	558.8	5.9
20°-30°	891.7	9.4
30°-40°	1411.8	14.8
40°-50°	2160.9	22.7
50°-60°	2314.5	24.3
60°-70°	1456.1	15.3
70°-80°	430.6	4.5
80°-90°	76.1	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°	9522.0	100.0
0°-180°	9522.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P948025

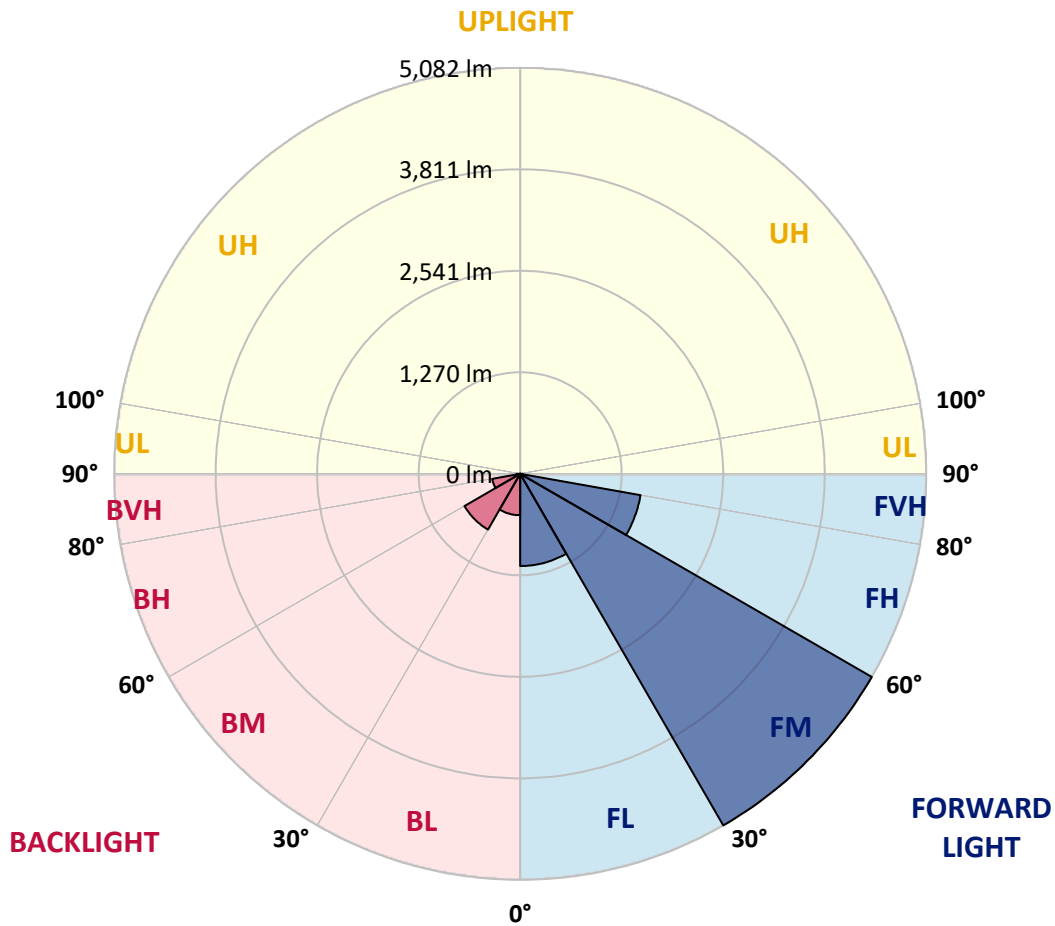
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1154.1	12.1			
FM (30°-60°)	5082.0	53.4			
FH (60°-80°)	1530.9	16.1			G1/1800
FVH (80°-90°)	32.2	0.3			G1/100
BL (0°-30°)	517.9	5.4	B2/1000		
BM (30°-60°)	805.3	8.5	B1/1000		
BH (60°-80°)	355.8	3.7	B1/500		G1/500
BVH (80°-90°)	44.0	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°	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9
2.5°	2737.4	2735.4	2746.2	2709.3	2684.2	2650.2	2605.4	2548.3	2486.8	2421.8
5°	2984.0	2966.8	2978.1	2950.5	2922.9	2871.7	2805.3	2712.3	2598.6	2469.1
7.5°	2945.1	2933.3	2962.3	2986.9	3007.6	3001.2	2952.5	2855.0	2708.3	2520.3
10°	2631.5	2618.2	2659.1	2744.3	2869.3	2978.1	3037.1	2976.6	2820.6	2576.4
12.5°	2354.9	2348.5	2375.6	2444.5	2583.3	2792.0	3026.3	3082.9	2937.2	2642.9
15°	2236.8	2228.9	2246.1	2281.1	2369.7	2564.1	2927.9	3155.8	3051.9	2719.6
17.5°	2210.7	2201.8	2209.2	2227.4	2284.5	2432.7	2779.2	3191.7	3171.5	2805.3
20°	2258.9	2251.5	2252.5	2251.5	2291.4	2409.0	2675.8	3177.9	3275.9	2884.1
22.5°	2375.6	2363.3	2363.8	2337.7	2359.3	2450.4	2648.8	3141.0	3368.9	2953.0
25°	2565.6	2543.4	2547.9	2481.4	2475.5	2542.9	2691.1	3112.5	3461.5	3008.1
27.5°	2825.5	2800.4	2787.1	2688.1	2640.9	2674.4	2777.2	3122.3	3549.1	3055.8
30°	3150.4	3119.8	3092.8	2952.5	2866.8	2854.5	2911.1	3187.3	3652.4	3106.1
32.5°	3548.6	3513.1	3463.9	3277.8	3157.2	3092.8	3084.4	3303.0	3773.5	3170.0
35°	4022.6	3976.3	3906.4	3665.7	3513.1	3381.2	3312.8	3469.8	3939.4	3266.5
37.5°	4510.9	4458.7	4394.7	4108.3	3920.7	3726.3	3591.4	3696.3	4160.4	3397.5
40°	4961.3	4902.7	4843.2	4588.2	4386.9	4152.6	3932.5	3982.7	4430.7	3554.0
42.5°	5227.1	5183.8	5161.2	5023.3	4867.8	4630.0	4356.8	4322.4	4734.4	3734.2
45°	5215.3	5197.6	5267.5	5324.6	5287.7	5155.8	4854.0	4698.0	5039.1	3890.2
47.5°	4936.7	4948.5	5104.6	5425.5	5566.8	5635.7	5420.1	5066.7	5303.9	4006.9
50°	4178.7	4188.5	4549.8	5241.9	5638.6	6027.0	5981.7	5426.5	5509.2	4078.2
52.5°	3578.6	3585.0	3740.1	4697.5	5401.4	6223.9	6487.8	5765.6	5659.3	4097.9
55°	2695.5	2717.7	2891.4	3685.4	4784.1	6067.9	6795.9	6115.1	5754.3	4099.9
57.5°	1574.7	1598.8	1813.4	2501.6	3718.4	5524.0	6842.7	6425.3	5818.8	4084.1
60°	771.3	781.7	875.2	1314.8	2292.9	4476.0	6466.6	6575.4	5854.7	4075.8
62.5°	519.8	518.3	522.3	648.8	1129.7	2875.7	5683.0	6312.5	5835.5	4043.8
65°	447.0	441.5	426.8	455.3	585.3	1315.3	4390.8	5527.9	5689.4	3963.5
67.5°	386.4	386.9	387.4	378.5	417.9	606.9	2683.2	4354.4	5164.6	3583.5
70°	320.0	324.4	326.4	326.4	340.6	398.2	1145.5	2984.5	4073.8	2809.7
72.5°	291.4	282.1	283.0	278.1	278.1	303.2	461.2	1691.8	2566.6	1580.6
75°	237.8	243.7	244.6	241.2	229.9	231.4	273.7	709.8	1098.2	655.7
77.5°	205.3	205.3	207.2	204.8	195.9	173.3	182.6	275.2	373.6	268.8
80°	164.9	164.4	172.8	177.7	163.9	128.0	116.7	152.1	165.9	118.1
82.5°	80.2	85.2	118.6	135.4	124.5	92.5	71.4	94.5	88.6	52.2
85°	46.8	44.3	53.2	75.3	71.4	51.2	34.5	49.2	46.3	26.6
87.5°	14.8	13.8	10.8	25.6	20.7	14.3	9.4	14.3	12.8	5.9
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°
2385.9	0°	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9	2385.9
2393.8	2.5°	2358.8	2300.7	2243.2	2190.5	2158.5	2137.8	2117.1	2094.0	2085.1	2071.9
2400.2	5°	2335.2	2223.0	2123.0	2036.9	1958.6	1897.1	1835.1	1784.9	1762.2	1777.5
2420.4	7.5°	2321.4	2159.0	2004.9	1846.9	1694.8	1573.2	1467.4	1393.0	1359.6	1367.9
2440.1	10°	2309.1	2086.6	1851.8	1602.3	1383.7	1233.1	1124.8	1068.2	1047.0	1051.4
2466.6	12.5°	2297.8	2005.4	1667.2	1338.9	1106.6	1007.1	976.1	976.6	980.5	983.5
2509.0	15°	2295.8	1907.4	1461.0	1108.5	956.9	950.5	984.0	1005.2	1016.5	1019.9
2544.4	17.5°	2292.9	1790.3	1250.8	951.5	920.5	963.8	994.8	1008.6	1017.5	1018.0
2578.9	20°	2281.1	1641.6	1056.8	876.7	912.6	950.0	969.2	980.1	987.4	989.9
2605.0	22.5°	2244.6	1476.2	905.7	843.2	881.1	911.1	933.8	946.1	950.5	953.5
2609.9	25°	2179.2	1291.2	801.4	811.2	837.3	875.2	893.4	895.9	894.4	898.8
2597.6	27.5°	2093.5	1092.8	736.4	767.9	801.4	833.9	843.7	842.2	839.3	844.2
2576.4	30°	1990.1	914.6	695.0	719.2	764.9	794.5	803.3	799.9	794.0	799.4
2565.6	32.5°	1880.9	768.9	661.1	685.2	734.9	764.0	772.8	769.4	764.9	769.4
2577.9	35°	1779.0	667.0	629.6	662.6	711.3	739.8	751.2	751.7	751.7	757.1
2610.4	37.5°	1685.4	607.4	603.5	648.3	695.0	720.6	736.9	737.9	716.7	718.2
2665.5	40°	1598.8	582.3	591.7	638.9	679.3	703.9	704.9	649.8	610.9	609.9
2728.5	42.5°	1527.9	577.4	595.1	637.9	668.0	669.0	599.6	556.7	545.9	546.4
2786.6	45°	1461.5	575.9	603.0	637.9	651.2	577.9	531.1	519.8	520.8	524.7
2812.7	47.5°	1387.1	570.0	604.5	629.1	603.0	513.9	500.1	495.2	493.2	494.2
2806.8	50°	1305.9	548.9	585.8	611.4	520.3	486.3	469.1	467.6	470.1	471.6
2773.8	52.5°	1220.3	514.4	553.8	579.4	482.4	462.2	443.0	446.5	457.3	460.7
2739.3	55°	1164.2	474.0	511.4	515.4	455.8	439.6	423.3	431.2	451.4	457.8
2718.7	57.5°	1149.4	431.2	463.2	458.8	421.9	419.9	410.0	416.9	442.5	451.9
2717.7	60°	1145.0	392.8	415.9	412.5	388.9	398.2	395.8	399.2	408.1	411.0
2707.8	62.5°	1110.5	362.3	373.6	368.7	359.3	375.6	381.5	374.1	381.0	384.4
2640.4	65°	1022.9	337.7	332.3	328.8	332.8	347.5	359.3	344.6	351.0	360.8
2380.5	67.5°	878.2	304.2	289.4	293.4	305.7	313.6	328.8	312.1	317.5	334.2
1917.3	70°	710.3	261.9	248.6	259.9	271.7	288.0	290.4	279.1	291.9	310.6
1170.1	72.5°	502.6	219.0	209.7	232.8	236.8	257.9	252.5	247.1	264.8	271.2
578.4	75°	348.5	176.7	171.3	189.0	203.3	221.5	217.6	224.0	261.4	264.3
288.9	77.5°	220.5	137.3	133.9	145.2	164.9	185.1	191.5	264.3	446.5	464.2
150.1	80°	128.0	102.4	98.4	107.3	124.5	143.2	184.6	324.4	294.4	290.9
67.4	82.5°	71.4	70.4	65.5	67.9	83.2	103.4	260.9	228.4	185.6	191.5
27.1	85°	33.5	41.3	35.4	34.0	46.8	121.1	174.3	130.4	86.6	84.7
5.9	87.5°	8.9	7.9	7.9	8.9	19.7	104.4	69.4	55.6	33.0	32.0
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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