

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: P946345

Luminaire Tested: **GALN-SB2A-740-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946345  
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-SB2A-740-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

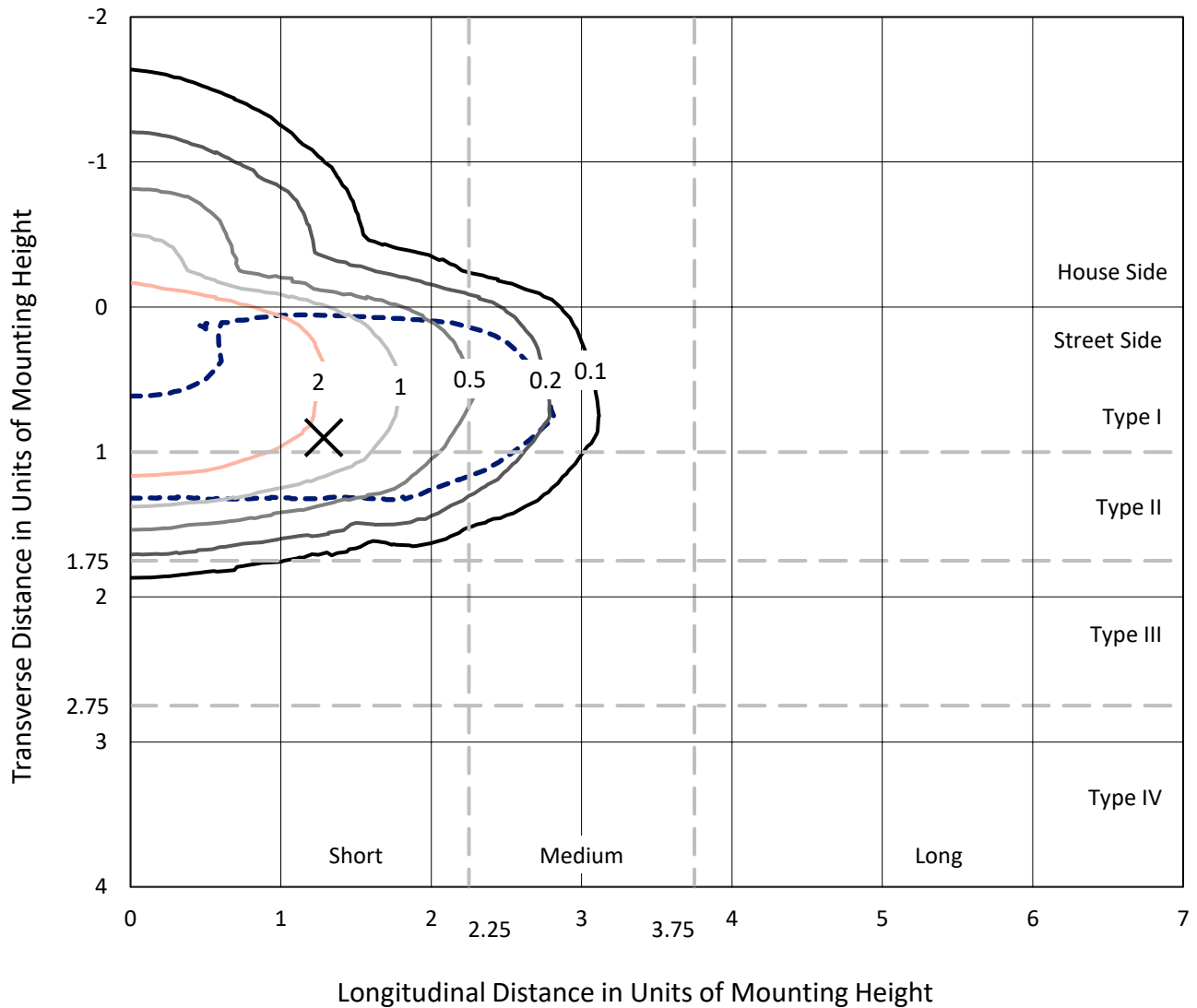
Lumens per Lamp: N/A  
Luminaire Lumens: 9652 lumens  
Efficiency: N/A  
Efficacy: 168.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

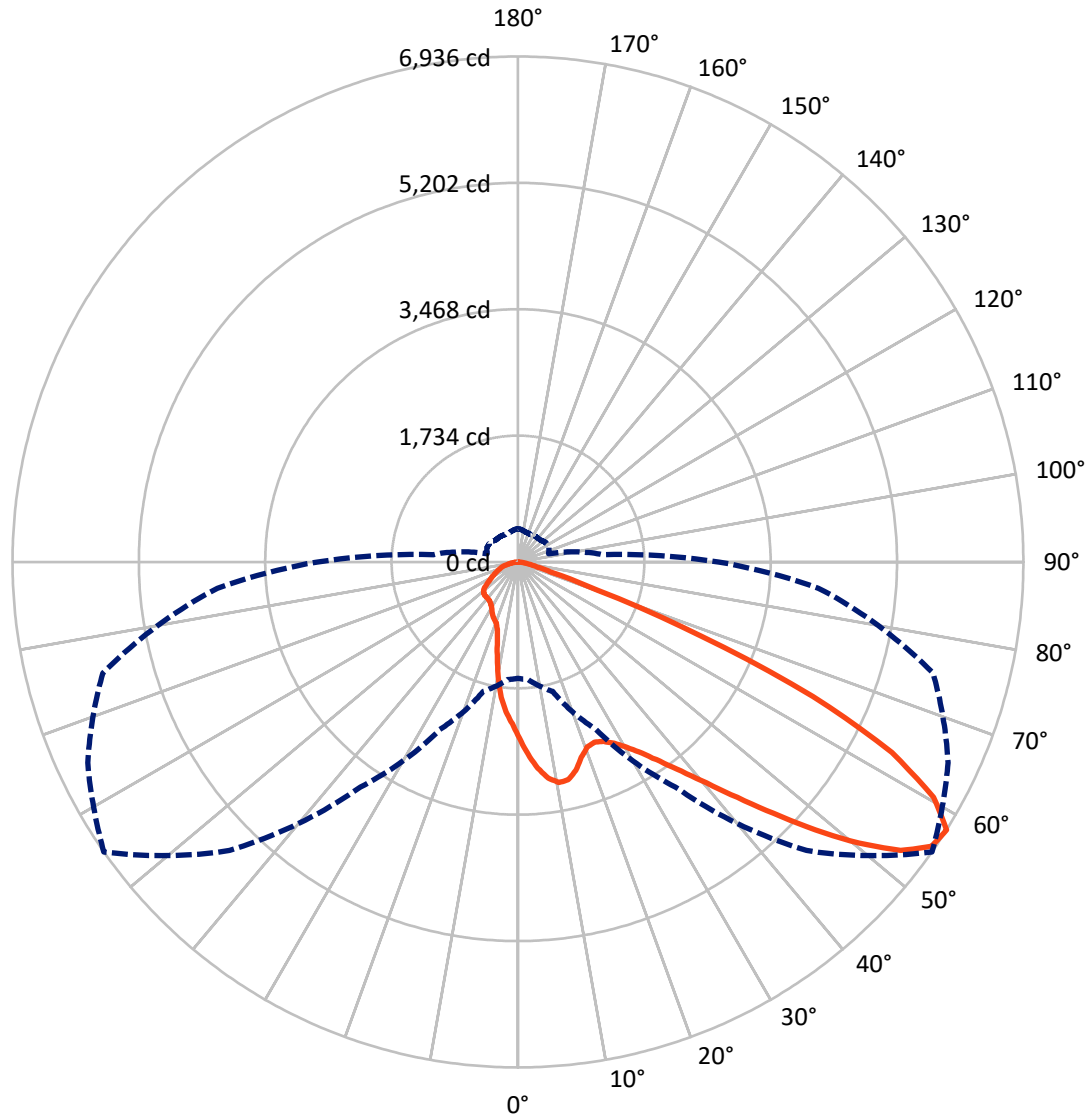
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	1746.5	0.0	1746.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	7905.5	0.0	7905.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	9652.0	0.0	9652.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.4	2.3
10°-20°	566.4	5.9
20°-30°	903.9	9.4
30°-40°	1431.1	14.8
40°-50°	2190.4	22.7
50°-60°	2346.1	24.3
60°-70°	1476.0	15.3
70°-80°	436.5	4.5
80°-90°	77.2	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°	9652.0	100.0
0°-180°	9652.0	100.0

**Coefficient of Utilization**



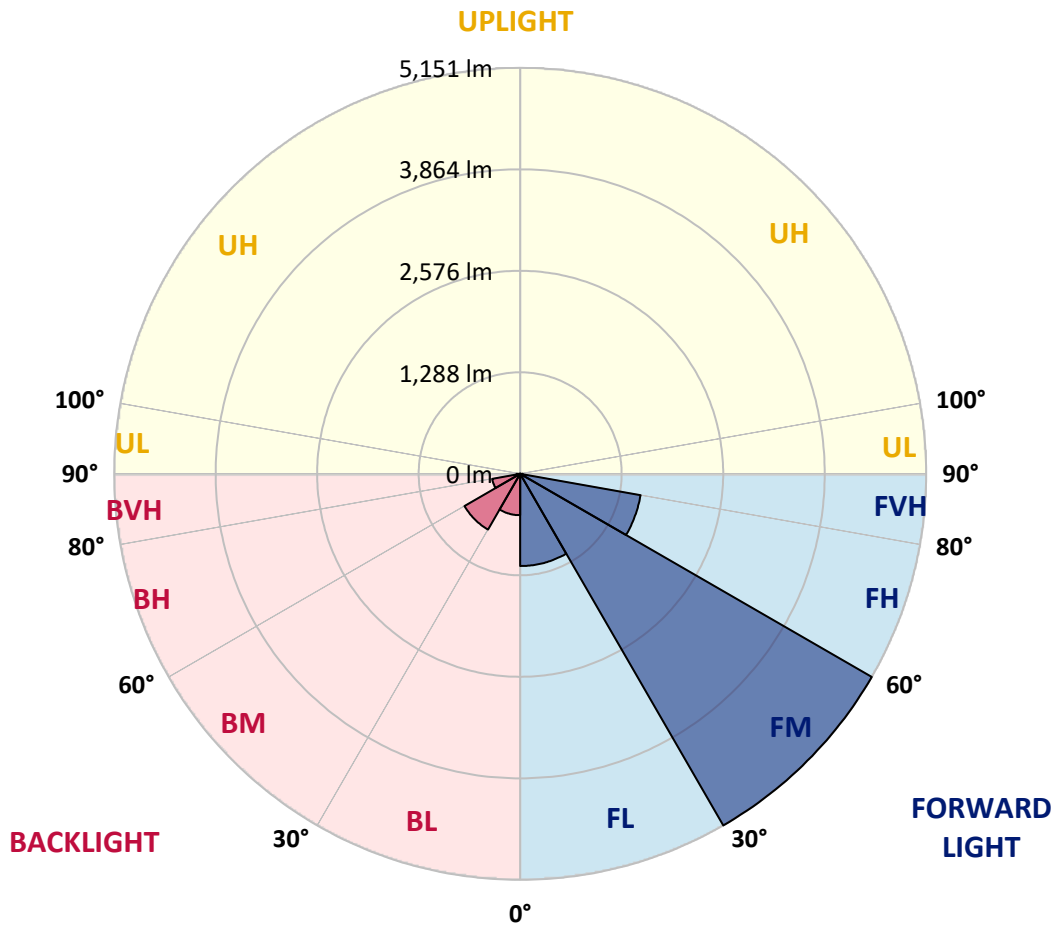
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.8	12.1			
FM (30°-60°)	5151.3	53.4			
FH (60°-80°)	1551.7	16.1			G1/1800
FVH (80°-90°)	32.6	0.3			G1/100
BL (0°-30°)	524.9	5.4	B2/1000		
BM (30°-60°)	816.3	8.5	B1/1000		
BH (60°-80°)	360.7	3.7	B1/500		G1/500
BVH (80°-90°)	44.6	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°	2418.5	2418.5	2418.5	2418.5	2418.5	2418.5	2418.5	2418.5	2418.5	2418.5
2.5°	2774.7	2772.7	2783.7	2746.3	2720.9	2686.4	2641.0	2583.1	2520.8	2454.9
5°	3024.7	3007.3	3018.7	2990.8	2962.8	2911.0	2843.6	2749.3	2634.0	2502.8
7.5°	2985.3	2973.3	3002.8	3027.7	3048.7	3042.2	2992.8	2894.0	2745.3	2554.7
10°	2667.5	2654.0	2695.4	2781.7	2908.5	3018.7	3078.6	3017.2	2859.1	2611.6
12.5°	2387.0	2380.6	2408.0	2477.9	2618.6	2830.1	3067.6	3125.0	2977.3	2678.9
15°	2267.3	2259.3	2276.8	2312.2	2402.0	2599.1	2967.8	3198.9	3093.6	2756.8
17.5°	2240.8	2231.9	2239.3	2257.8	2315.7	2465.9	2817.2	3235.3	3214.8	2843.6
20°	2289.7	2282.3	2283.3	2282.3	2322.7	2441.9	2712.4	3221.3	3320.6	2923.4
22.5°	2408.0	2395.5	2396.0	2369.6	2391.5	2483.8	2684.9	3183.9	3414.9	2993.3
25°	2600.6	2578.1	2582.6	2515.3	2509.3	2577.6	2727.8	3154.9	3508.7	3049.2
27.5°	2864.1	2838.6	2825.1	2724.8	2676.9	2710.9	2815.2	3164.9	3597.5	3097.6
30°	3193.4	3162.4	3135.0	2992.8	2906.0	2893.5	2950.9	3230.8	3702.3	3148.5
32.5°	3597.0	3561.1	3511.2	3322.6	3200.4	3135.0	3126.5	3348.0	3825.1	3213.3
35°	4077.5	4030.6	3959.8	3715.8	3561.1	3427.4	3358.0	3517.2	3993.2	3311.1
37.5°	4572.5	4519.6	4454.7	4164.4	3974.2	3777.2	3640.4	3746.7	4217.2	3443.8
40°	5029.1	4969.7	4909.3	4650.8	4446.8	4209.3	3986.2	4037.1	4491.2	3602.5
42.5°	5298.5	5254.6	5231.6	5091.9	4934.3	4693.3	4416.3	4381.4	4799.0	3785.1
45°	5286.5	5268.6	5339.4	5397.3	5359.9	5226.1	4920.3	4762.1	5107.9	3943.3
47.5°	5004.1	5016.1	5174.3	5499.6	5642.8	5712.6	5494.1	5135.8	5376.3	4061.6
50°	4235.7	4245.7	4611.9	5313.5	5715.6	6109.3	6063.4	5500.6	5584.4	4133.9
52.5°	3627.5	3634.0	3791.1	4761.6	5475.1	6308.9	6576.3	5844.4	5736.6	4153.9
55°	2732.3	2754.8	2930.9	3735.7	4849.4	6150.7	6888.7	6198.6	5832.9	4155.9
57.5°	1596.2	1620.6	1838.2	2535.7	3769.2	5599.4	6936.1	6513.0	5898.3	4139.9
60°	781.9	792.4	887.2	1332.7	2324.2	4537.1	6554.9	6665.2	5934.7	4131.4
62.5°	526.9	525.4	529.4	657.6	1145.1	2914.9	5760.5	6398.7	5915.2	4099.0
65°	453.1	447.6	432.6	461.5	593.3	1333.2	4450.8	5603.4	5767.0	4017.7
67.5°	391.7	392.2	392.7	383.7	423.6	615.2	2719.9	4413.8	5235.1	3632.5
70°	324.3	328.8	330.8	330.8	345.3	403.7	1161.1	3025.2	4129.4	2848.1
72.5°	295.4	285.9	286.9	281.9	281.9	307.4	467.5	1714.9	2601.6	1602.2
75°	241.0	247.0	248.0	244.5	233.0	234.5	277.4	719.5	1113.2	664.6
77.5°	208.1	208.1	210.1	207.6	198.6	175.6	185.1	278.9	378.7	272.4
80°	167.2	166.7	175.1	180.1	166.2	129.7	118.3	154.2	168.2	119.8
82.5°	81.3	86.3	120.3	137.2	126.2	93.8	72.3	95.8	89.8	52.9
85°	47.4	44.9	53.9	76.3	72.3	51.9	34.9	49.9	46.9	26.9
87.5°	15.0	14.0	11.0	25.9	21.0	14.5	9.5	14.5	13.0	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°
2418.5	0°	2418.5	2418.5	2418.5	2418.5	2418.5	2418.5	2418.5	2418.5	2418.5	2418.5
2426.5	2.5°	2391.0	2332.2	2273.8	2220.4	2188.0	2167.0	2146.0	2122.6	2113.6	2100.1
2432.9	5°	2367.1	2253.3	2152.0	2064.7	1985.4	1923.0	1860.1	1809.2	1786.3	1801.8
2453.4	7.5°	2353.1	2188.5	2032.3	1872.1	1717.9	1594.7	1487.4	1412.1	1378.1	1386.6
2473.4	10°	2340.6	2115.1	1877.1	1624.1	1402.6	1249.9	1140.1	1082.8	1061.3	1065.8
2500.3	12.5°	2329.2	2032.8	1690.0	1357.2	1121.7	1020.9	989.4	989.9	993.9	996.9
2543.2	15°	2327.2	1933.5	1480.9	1123.7	970.0	963.5	997.4	1018.9	1030.4	1033.9
2579.1	17.5°	2324.2	1814.7	1267.9	964.5	933.1	977.0	1008.4	1022.4	1031.4	1031.9
2614.1	20°	2312.2	1664.0	1071.3	888.7	925.1	963.0	982.5	993.4	1000.9	1003.4
2640.5	22.5°	2275.3	1496.4	918.1	854.7	893.1	923.6	946.5	959.0	963.5	966.5
2645.5	25°	2208.9	1308.8	812.3	822.3	848.7	887.2	905.6	908.1	906.6	911.1
2633.0	27.5°	2122.1	1107.7	746.4	778.4	812.3	845.2	855.2	853.7	850.7	855.7
2611.6	30°	2017.3	927.1	704.5	729.0	775.4	805.3	814.3	810.8	804.8	810.3
2600.6	32.5°	1906.5	779.4	670.1	694.6	745.0	774.4	783.4	779.9	775.4	779.9
2613.1	35°	1803.3	676.1	638.2	671.6	721.0	749.9	761.4	761.9	761.9	767.4
2646.0	37.5°	1708.5	615.7	611.7	657.1	704.5	730.5	746.9	747.9	726.5	728.0
2701.9	40°	1620.6	590.3	599.8	647.7	688.6	713.5	714.5	658.6	619.2	618.2
2765.8	42.5°	1548.8	585.3	603.2	646.7	677.1	678.1	607.7	564.3	553.4	553.8
2824.6	45°	1481.4	583.8	611.2	646.7	660.1	585.8	538.4	526.9	527.9	531.9
2851.1	47.5°	1406.1	577.8	612.7	637.7	611.2	520.9	506.9	502.0	500.0	501.0
2845.1	50°	1323.8	556.3	593.8	619.7	527.4	493.0	475.5	474.0	476.5	478.0
2811.7	52.5°	1236.9	521.4	561.3	587.3	489.0	468.5	449.1	452.6	463.5	467.0
2776.7	55°	1180.0	480.5	518.4	522.4	462.0	445.6	429.1	437.1	457.5	464.0
2755.8	57.5°	1165.1	437.1	469.5	465.0	427.6	425.6	415.6	422.6	448.6	458.0
2754.8	60°	1160.6	398.2	421.6	418.1	394.2	403.7	401.2	404.7	413.6	416.6
2744.8	62.5°	1125.7	367.2	378.7	373.7	364.2	380.7	386.7	379.2	386.2	389.7
2676.4	65°	1036.8	342.3	336.8	333.3	337.3	352.3	364.2	349.3	355.8	365.7
2413.0	67.5°	890.2	308.4	293.4	297.4	309.9	317.8	333.3	316.3	321.8	338.8
1943.5	70°	720.0	265.4	252.0	263.5	275.4	291.9	294.4	282.9	295.9	314.8
1186.0	72.5°	509.4	222.0	212.6	236.0	240.0	261.5	256.0	250.5	268.4	274.9
586.3	75°	353.3	179.1	173.6	191.6	206.1	224.5	220.5	227.0	264.9	267.9
292.9	77.5°	223.5	139.2	135.7	147.2	167.2	187.6	194.1	267.9	452.6	470.5
152.2	80°	129.7	103.8	99.8	108.8	126.2	145.2	187.1	328.8	298.4	294.9
68.4	82.5°	72.3	71.4	66.4	68.9	84.3	104.8	264.5	231.5	188.1	194.1
27.4	85°	33.9	41.9	35.9	34.4	47.4	122.7	176.6	132.2	87.8	85.8
6.0	87.5°	9.0	8.0	8.0	9.0	20.0	105.8	70.4	56.4	33.4	32.4
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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