

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: P946849

Luminaire Tested: **GALN-SB2B-850-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946849  
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-850-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

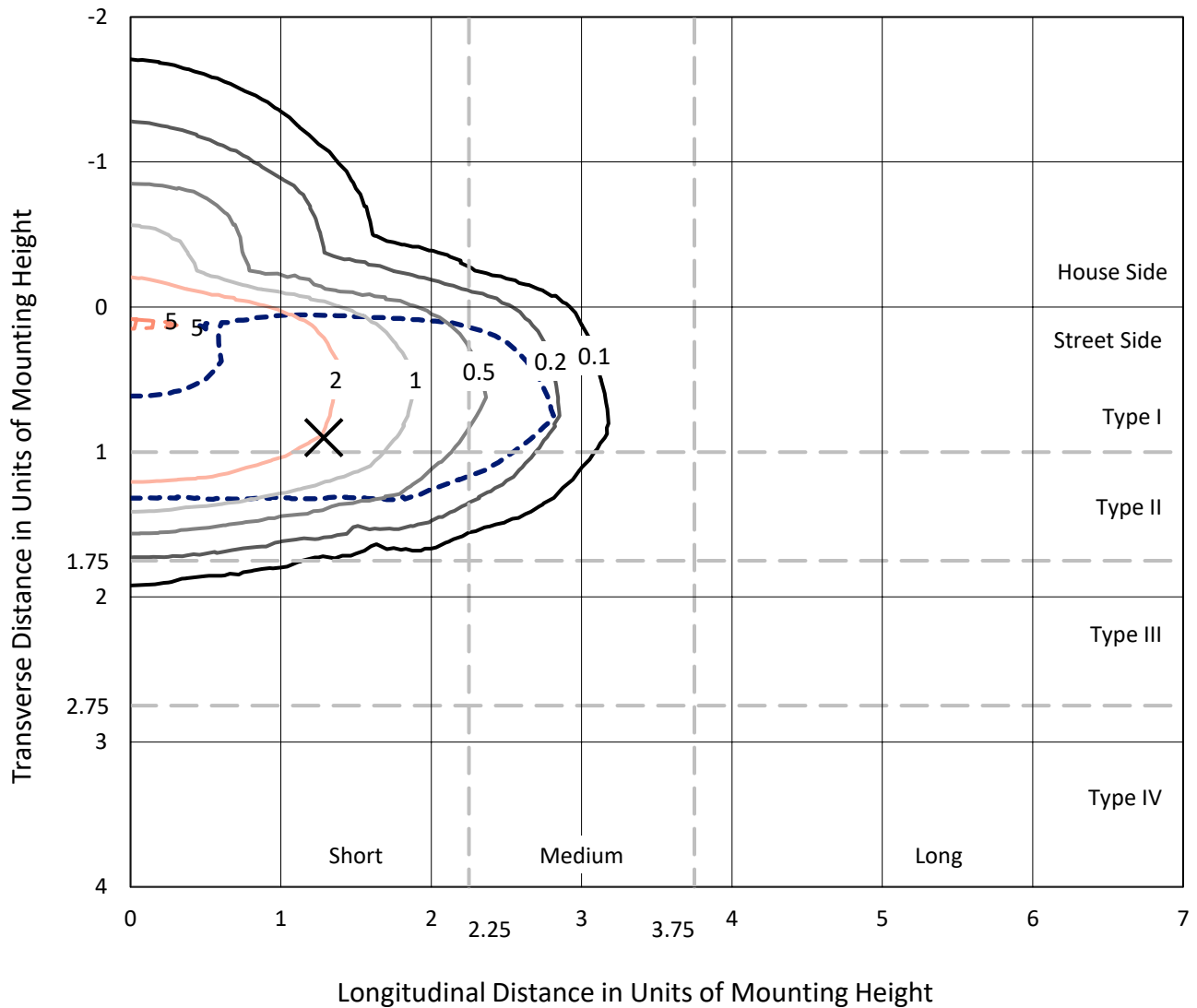
Lumens per Lamp: N/A  
Luminaire Lumens: 10955 lumens  
Efficiency: N/A  
Efficacy: 148.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

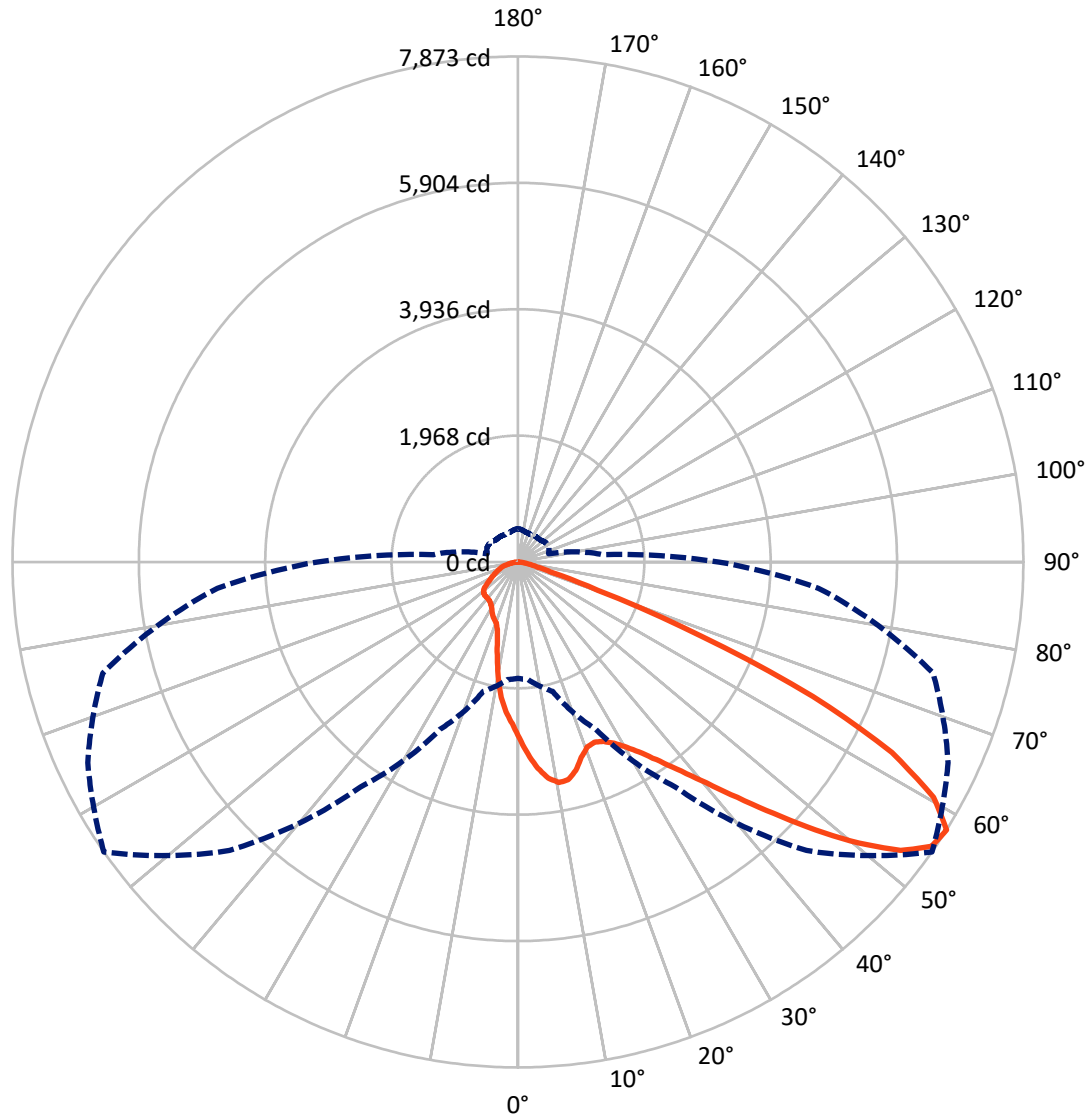
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	1982.3	0.0	1982.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	8972.7	0.0	8972.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	10955.0	0.0	10955.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.7	2.3
10°-20°	642.9	5.9
20°-30°	1025.9	9.4
30°-40°	1624.3	14.8
40°-50°	2486.1	22.7
50°-60°	2662.9	24.3
60°-70°	1675.2	15.3
70°-80°	495.4	4.5
80°-90°	87.6	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°	10955.0	100.0
0°-180°	10955.0	100.0

**Coefficient of Utilization**



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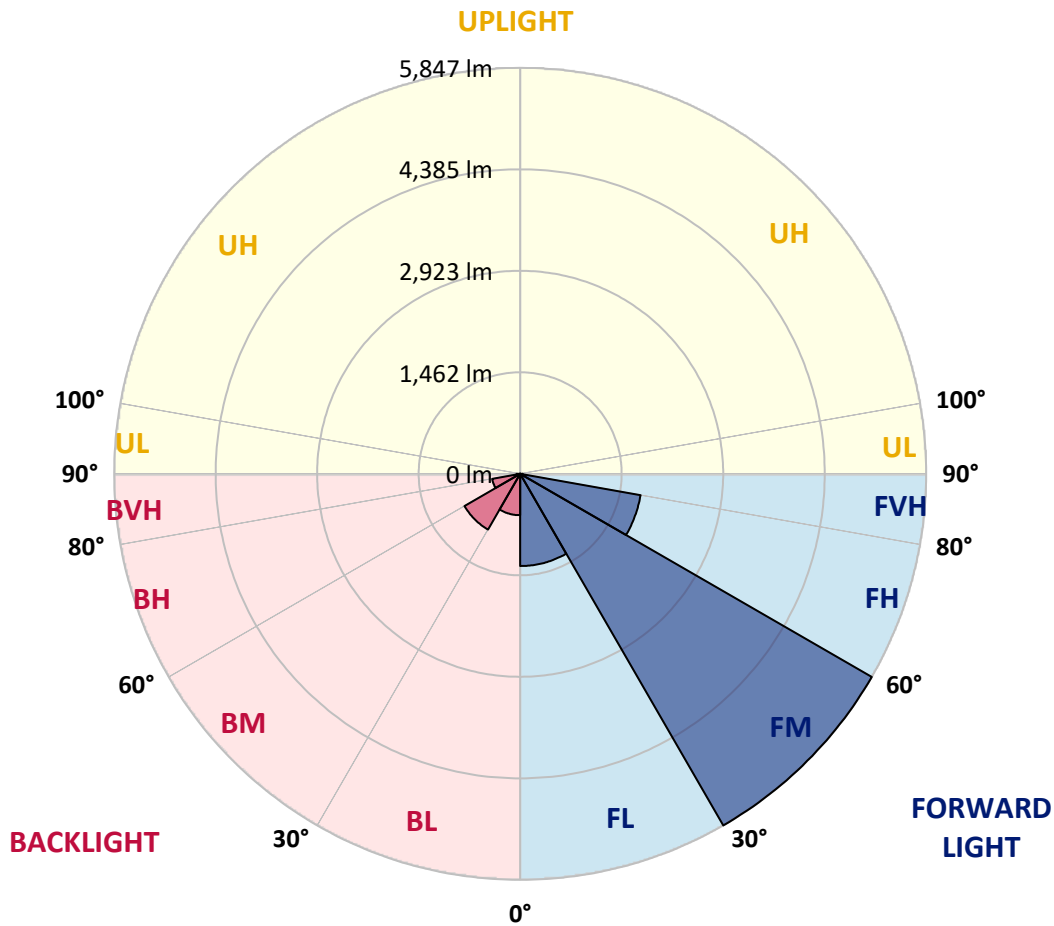
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1327.7	12.1			
FM (30°-60°)	5846.8	53.4			
FH (60°-80°)	1761.2	16.1			G1/1800
FVH (80°-90°)	37.0	0.3			G1/100
BL (0°-30°)	595.8	5.4	B2/1000		
BM (30°-60°)	926.5	8.5	B1/1000		
BH (60°-80°)	409.4	3.7	B1/500		G1/500
BVH (80°-90°)	50.6	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°	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0
2.5°	3149.3	3147.1	3159.5	3117.0	3088.2	3049.1	2997.5	2931.9	2861.1	2786.3
5°	3433.0	3413.2	3426.3	3394.5	3362.8	3303.9	3227.5	3120.4	2989.6	2840.7
7.5°	3388.3	3374.7	3408.1	3436.4	3460.2	3452.9	3396.8	3284.7	3115.9	2899.6
10°	3027.6	3012.3	3059.3	3157.3	3301.1	3426.3	3494.2	3424.6	3245.0	2964.1
12.5°	2709.3	2701.9	2733.1	2812.4	2972.1	3212.2	3481.8	3546.9	3379.2	3040.6
15°	2573.4	2564.3	2584.1	2624.3	2726.3	2950.0	3368.5	3630.7	3511.2	3128.9
17.5°	2543.4	2533.2	2541.7	2562.6	2628.3	2798.8	3197.5	3672.0	3648.8	3227.5
20°	2598.9	2590.4	2591.5	2590.4	2636.2	2771.6	3078.5	3656.2	3768.9	3318.1
22.5°	2733.1	2718.9	2719.5	2689.5	2714.4	2819.2	3047.4	3613.7	3875.9	3397.4
25°	2951.7	2926.2	2931.3	2854.8	2848.0	2925.6	3096.1	3580.9	3982.4	3460.8
27.5°	3250.7	3221.8	3206.5	3092.7	3038.3	3076.8	3195.2	3592.2	4083.2	3515.7
30°	3624.5	3589.4	3558.2	3396.8	3298.3	3284.1	3349.2	3666.9	4202.1	3573.5
32.5°	4082.6	4041.8	3985.2	3771.1	3632.4	3558.2	3548.6	3800.0	4341.4	3647.1
35°	4628.0	4574.8	4494.3	4217.4	4041.8	3890.1	3811.4	3992.0	4532.3	3758.1
37.5°	5189.8	5129.8	5056.1	4726.5	4510.8	4287.1	4131.9	4252.5	4786.6	3908.8
40°	5708.0	5640.6	5572.1	5278.7	5047.1	4777.5	4524.4	4582.1	5097.5	4088.9
42.5°	6013.8	5963.9	5937.9	5779.3	5600.4	5326.8	5012.5	4972.9	5446.9	4296.1
45°	6000.2	5979.8	6060.2	6125.9	6083.4	5931.7	5584.5	5405.0	5797.4	4475.7
47.5°	5679.7	5693.2	5872.8	6242.0	6404.5	6483.8	6235.8	5829.2	6102.1	4609.9
50°	4807.5	4818.8	5234.5	6030.8	6487.2	6934.1	6882.0	6243.1	6338.3	4692.0
52.5°	4117.2	4124.5	4302.9	5404.4	6214.3	7160.6	7464.1	6633.3	6511.0	4714.6
55°	3101.2	3126.7	3326.6	4240.1	5504.1	6981.1	7818.7	7035.4	6620.3	4716.9
57.5°	1811.7	1839.4	2086.3	2878.1	4278.0	6355.3	7872.5	7392.2	6694.5	4698.8
60°	887.4	899.3	1006.9	1512.6	2637.9	5149.6	7439.8	7564.9	6735.8	4689.2
62.5°	598.0	596.3	600.9	746.4	1299.7	3308.5	6538.2	7262.5	6713.8	4652.3
65°	514.2	508.0	491.0	523.8	673.4	1513.2	5051.6	6359.8	6545.6	4560.0
67.5°	444.6	445.1	445.7	435.5	480.8	698.3	3087.0	5009.7	5941.9	4122.8
70°	368.1	373.2	375.5	375.5	391.9	458.2	1317.8	3433.6	4686.9	3232.6
72.5°	335.3	324.5	325.6	320.0	320.0	348.9	530.6	1946.5	2952.8	1818.5
75°	273.5	280.3	281.5	277.5	264.5	266.2	314.9	816.6	1263.5	754.3
77.5°	236.2	236.2	238.4	235.6	225.4	199.3	210.1	316.6	429.8	309.2
80°	189.7	189.2	198.8	204.4	188.6	147.2	134.2	175.0	190.9	135.9
82.5°	92.3	98.0	136.5	155.7	143.3	106.5	82.1	108.7	101.9	60.0
85°	53.8	51.0	61.2	86.6	82.1	58.9	39.6	56.6	53.2	30.6
87.5°	17.0	15.9	12.5	29.4	23.8	16.4	10.8	16.4	14.7	6.8
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°
2745.0	0°	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0
2754.0	2.5°	2713.8	2647.0	2580.7	2520.1	2483.3	2459.5	2435.8	2409.1	2398.9	2383.7
2761.4	5°	2686.6	2557.5	2442.6	2343.4	2253.4	2182.6	2111.3	2053.5	2027.4	2045.0
2784.6	7.5°	2670.8	2483.9	2306.6	2124.8	1949.8	1810.0	1688.2	1602.7	1564.2	1573.8
2807.3	10°	2656.6	2400.6	2130.5	1843.4	1591.9	1418.6	1294.0	1228.9	1204.6	1209.7
2837.8	12.5°	2643.6	2307.2	1918.1	1540.4	1273.1	1158.7	1123.0	1123.6	1128.1	1131.5
2886.5	15°	2641.3	2194.5	1680.8	1275.4	1100.9	1093.6	1132.1	1156.4	1169.5	1173.4
2927.3	17.5°	2637.9	2059.7	1439.0	1094.7	1059.0	1108.9	1144.5	1160.4	1170.6	1171.2
2967.0	20°	2624.3	1888.7	1215.9	1008.6	1050.0	1093.0	1115.1	1127.5	1136.0	1138.9
2997.0	22.5°	2582.4	1698.4	1042.0	970.1	1013.7	1048.3	1074.3	1088.5	1093.6	1097.0
3002.6	25°	2507.1	1485.5	922.0	933.3	963.3	1006.9	1027.9	1030.7	1029.0	1034.1
2988.5	27.5°	2408.6	1257.2	847.2	883.5	922.0	959.4	970.7	969.0	965.6	971.2
2964.1	30°	2289.6	1052.2	799.6	827.4	880.1	914.0	924.2	920.3	913.5	919.7
2951.7	32.5°	2163.9	884.6	760.6	788.3	845.5	878.9	889.1	885.2	880.1	885.2
2965.8	35°	2046.7	767.4	724.3	762.3	818.3	851.2	864.2	864.8	864.8	871.0
3003.2	37.5°	1939.1	698.8	694.3	745.8	799.6	829.1	847.8	848.9	824.6	826.3
3066.6	40°	1839.4	670.0	680.7	735.1	781.5	809.8	811.0	747.5	702.8	701.7
3139.1	42.5°	1757.9	664.3	684.7	734.0	768.5	769.6	689.8	640.5	628.1	628.6
3206.0	45°	1681.4	662.6	693.7	734.0	749.2	664.9	611.1	598.0	599.2	603.7
3236.0	47.5°	1595.9	655.8	695.4	723.8	693.7	591.2	575.4	569.7	567.5	568.6
3229.2	50°	1502.5	631.5	673.9	703.4	598.6	559.5	539.7	538.0	540.8	542.5
3191.2	52.5°	1403.9	591.8	637.1	666.6	555.0	531.8	509.7	513.7	526.1	530.1
3151.6	55°	1339.4	545.4	588.4	592.9	524.4	505.7	487.0	496.1	519.3	526.7
3127.8	57.5°	1322.4	496.1	532.9	527.8	485.3	483.1	471.7	479.7	509.1	519.9
3126.7	60°	1317.3	451.9	478.5	474.6	447.4	458.2	455.3	459.3	469.5	472.9
3115.3	62.5°	1277.6	416.8	429.8	424.2	413.4	432.1	438.9	430.4	438.3	442.3
3037.8	65°	1176.8	388.5	382.3	378.3	382.8	399.8	413.4	396.4	403.8	415.1
2738.7	67.5°	1010.3	350.0	333.0	337.5	351.7	360.7	378.3	359.0	365.3	384.5
2205.8	70°	817.2	301.3	286.0	299.0	312.6	331.3	334.1	321.1	335.8	357.3
1346.1	72.5°	578.2	252.0	241.3	267.9	272.4	296.8	290.5	284.3	304.7	312.0
665.4	75°	401.0	203.3	197.1	217.5	233.9	254.8	250.3	257.7	300.7	304.1
332.4	77.5°	253.7	158.0	154.0	167.1	189.7	212.9	220.3	304.1	513.7	534.0
172.7	80°	147.2	117.8	113.3	123.5	143.3	164.8	212.4	373.2	338.7	334.7
77.6	82.5°	82.1	81.0	75.3	78.2	95.7	118.9	300.2	262.8	213.5	220.3
31.1	85°	38.5	47.6	40.8	39.1	53.8	139.3	200.5	150.1	99.7	97.4
6.8	87.5°	10.2	9.1	9.1	10.2	22.7	120.1	79.9	64.0	37.9	36.8
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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