

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: P946009

Luminaire Tested: **GALN-SB1D-750-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946009
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-750-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10953 lumens
Efficiency: N/A
Efficacy: 137.6 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

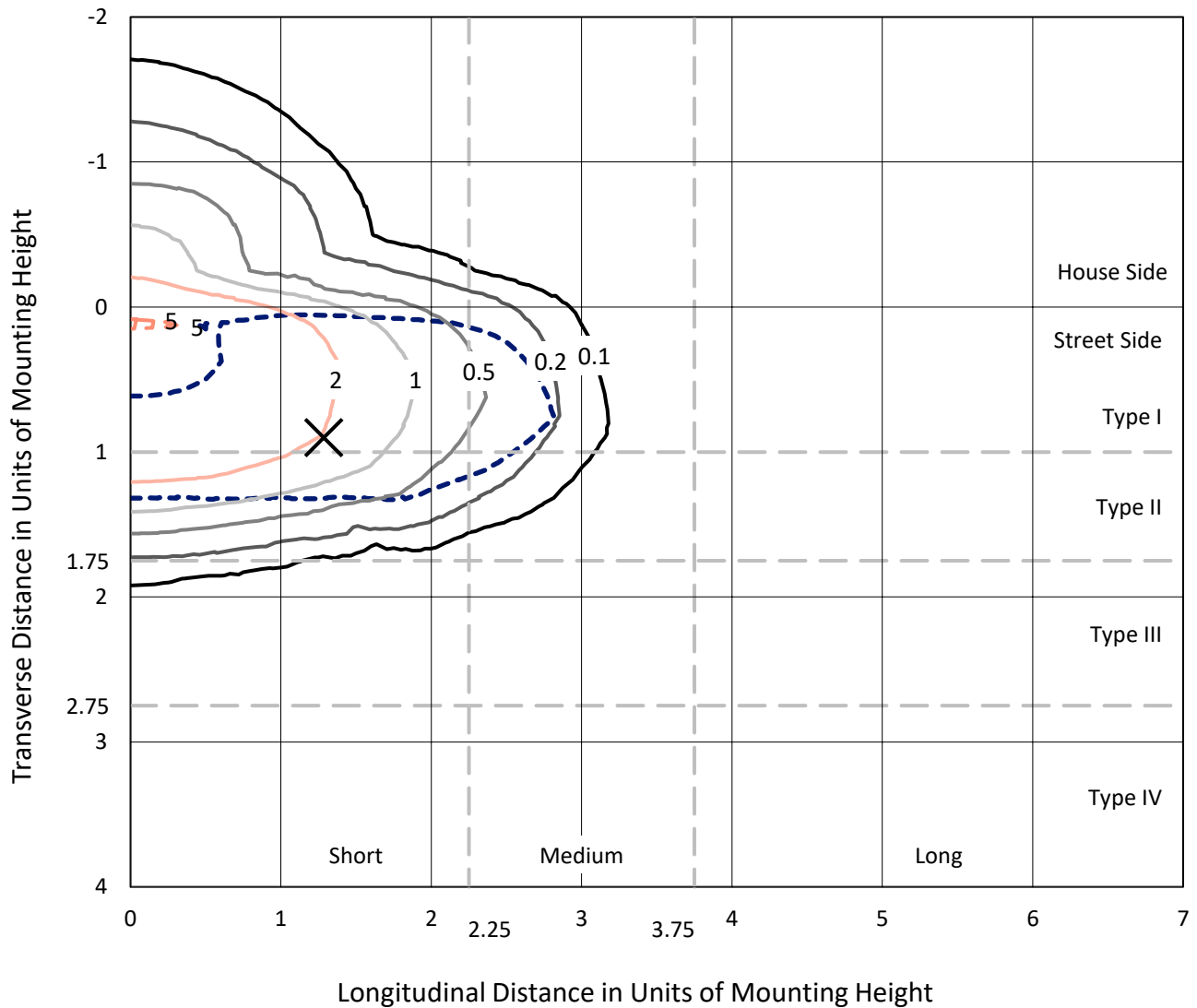
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

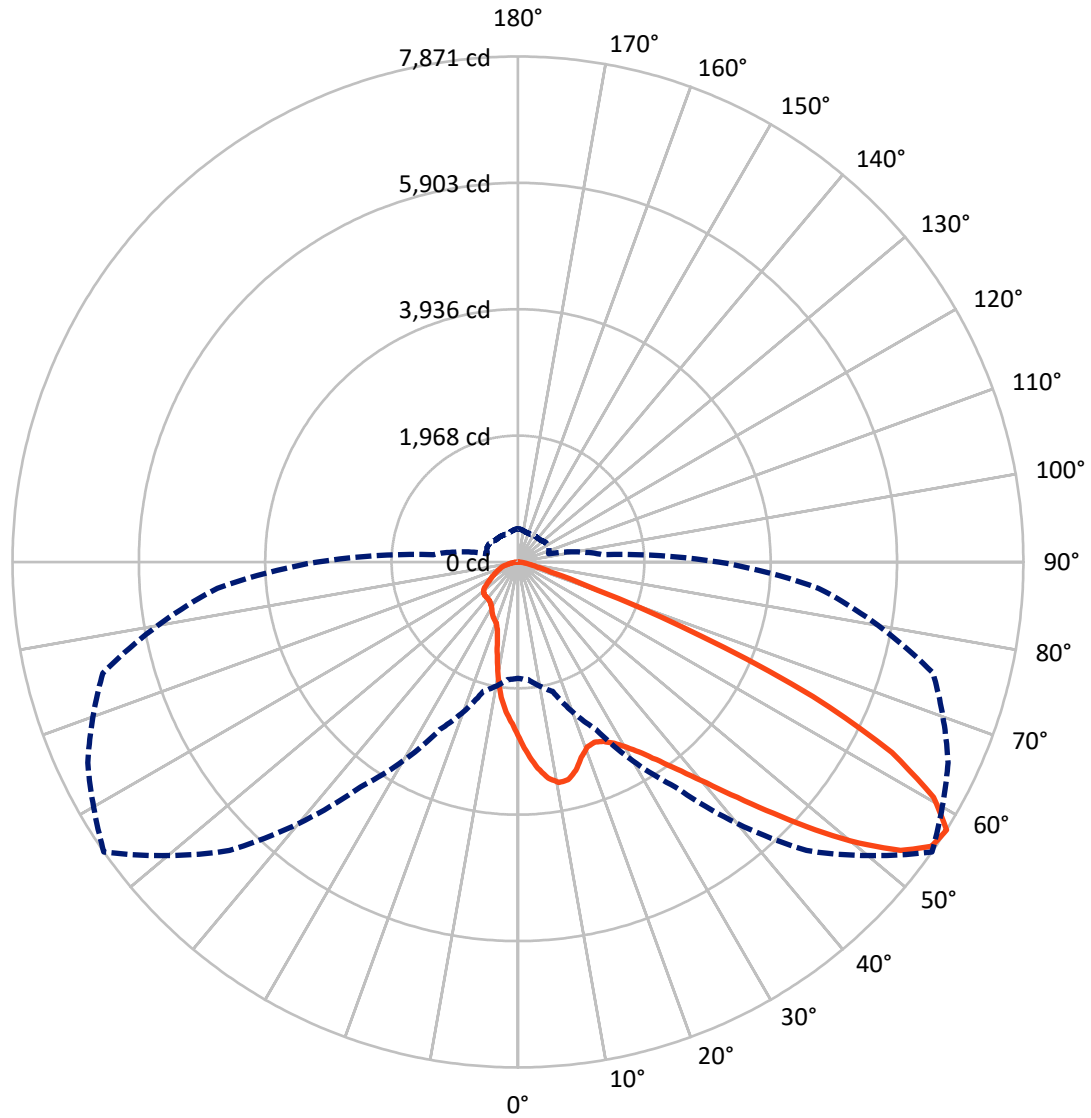
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
House Side	Lumens	1981.9	0.0	1981.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8971.1	0.0	8971.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	10953.0	0.0	10953.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	2.3
10°-20°	642.8	5.9
20°-30°	1025.7	9.4
30°-40°	1624.0	14.8
40°-50°	2485.7	22.7
50°-60°	2662.4	24.3
60°-70°	1674.9	15.3
70°-80°	495.3	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°	10953.0	100.0
0°-180°	10953.0	100.0



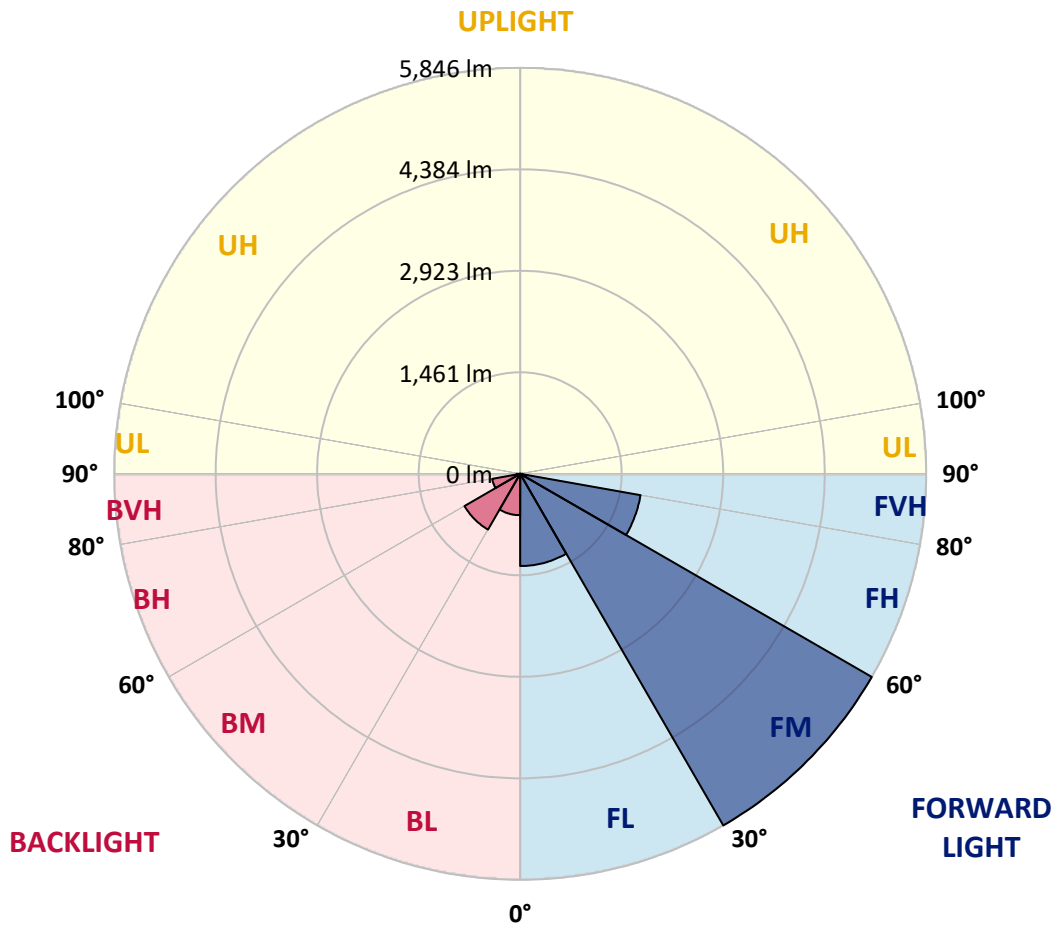
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1327.5	12.1			
FM (30°-60°)	5845.7	53.4			
FH (60°-80°)	1760.9	16.1			G1/1800
FVH (80°-90°)	37.0	0.3			G1/100
BL (0°-30°)	595.7	5.4	B2/1000		
BM (30°-60°)	926.3	8.5	B1/1000		
BH (60°-80°)	409.3	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°	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5
2.5°	3148.7	3146.5	3158.9	3116.5	3087.6	3048.5	2997.0	2931.3	2860.5	2785.8
5°	3432.4	3412.6	3425.6	3393.9	3362.2	3303.3	3226.9	3119.9	2989.1	2840.2
7.5°	3387.7	3374.1	3407.5	3435.8	3459.6	3452.2	3396.2	3284.1	3115.3	2899.0
10°	3027.0	3011.7	3058.7	3156.7	3300.5	3425.6	3493.6	3423.9	3244.4	2963.6
12.5°	2708.8	2701.4	2732.6	2811.8	2971.5	3211.6	3481.1	3546.2	3378.6	3040.0
15°	2572.9	2563.8	2583.7	2623.9	2725.8	2949.4	3367.9	3630.0	3510.6	3128.4
17.5°	2542.9	2532.7	2541.2	2562.1	2627.8	2798.3	3196.9	3671.4	3648.2	3226.9
20°	2598.4	2589.9	2591.0	2589.9	2635.8	2771.1	3078.0	3655.5	3768.2	3317.5
22.5°	2732.6	2718.4	2719.0	2689.0	2713.9	2818.6	3046.8	3613.0	3875.2	3396.8
25°	2951.1	2925.7	2930.8	2854.3	2847.5	2925.1	3095.5	3580.2	3981.7	3460.2
27.5°	3250.1	3221.2	3205.9	3092.1	3037.8	3076.3	3194.6	3591.5	4082.4	3515.1
30°	3623.8	3588.7	3557.6	3396.2	3297.7	3283.5	3348.6	3666.3	4201.3	3572.8
32.5°	4081.9	4041.1	3984.5	3770.5	3631.7	3557.6	3547.9	3799.3	4340.6	3646.5
35°	4627.1	4573.9	4493.5	4216.6	4041.1	3889.4	3810.7	3991.3	4531.5	3757.4
37.5°	5188.8	5128.8	5055.2	4725.7	4509.9	4286.3	4131.1	4251.7	4785.7	3908.0
40°	5706.9	5639.5	5571.0	5277.7	5046.1	4776.6	4523.5	4581.3	5096.5	4088.1
42.5°	6012.7	5962.9	5936.8	5778.3	5599.3	5325.9	5011.6	4972.0	5445.9	4295.3
45°	5999.1	5978.7	6059.1	6124.8	6082.3	5930.6	5583.5	5404.0	5796.4	4474.8
47.5°	5678.6	5692.2	5871.7	6240.9	6403.4	6482.6	6234.6	5828.1	6101.0	4609.0
50°	4806.6	4818.0	5233.6	6029.7	6486.0	6932.8	6880.7	6242.0	6337.1	4691.1
52.5°	4116.4	4123.8	4302.1	5403.4	6213.1	7159.3	7462.8	6632.1	6509.8	4713.8
55°	3100.6	3126.1	3326.0	4239.3	5503.1	6979.8	7817.2	7034.1	6619.1	4716.0
57.5°	1811.3	1839.1	2086.0	2877.5	4277.2	6354.1	7871.0	7390.9	6693.3	4697.9
60°	887.3	899.2	1006.7	1512.4	2637.5	5148.6	7438.4	7563.6	6734.6	4688.3
62.5°	597.9	596.2	600.8	746.3	1299.5	3307.9	6537.0	7261.2	6712.5	4651.5
65°	514.1	507.9	490.9	523.8	673.2	1512.9	5050.7	6358.6	6544.4	4559.2
67.5°	444.5	445.0	445.6	435.4	480.7	698.1	3086.5	5008.8	5940.8	4122.1
70°	368.0	373.1	375.4	375.4	391.8	458.1	1317.6	3433.0	4686.0	3232.0
72.5°	335.2	324.4	325.6	319.9	319.9	348.8	530.5	1946.1	2952.3	1818.1
75°	273.5	280.3	281.4	277.4	264.4	266.1	314.8	816.5	1263.2	754.2
77.5°	236.1	236.1	238.4	235.5	225.4	199.3	210.1	316.5	429.8	309.2
80°	189.7	189.1	198.7	204.4	188.6	147.2	134.2	175.0	190.8	135.9
82.5°	92.3	98.0	136.5	155.7	143.3	106.4	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°
2744.5	0°	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5
2753.5	2.5°	2713.3	2646.5	2580.3	2519.7	2482.9	2459.1	2435.3	2408.7	2398.5	2383.2
2760.9	5°	2686.1	2557.0	2442.1	2343.0	2253.0	2182.2	2110.9	2053.1	2027.1	2044.6
2784.1	7.5°	2670.3	2483.4	2306.2	2124.5	1949.5	1809.6	1687.9	1602.4	1563.9	1573.5
2806.8	10°	2656.1	2400.2	2130.1	1843.0	1591.6	1418.4	1293.8	1228.7	1204.3	1209.4
2837.3	12.5°	2643.1	2306.8	1917.8	1540.1	1272.9	1158.5	1122.8	1123.4	1127.9	1131.3
2886.0	15°	2640.8	2194.1	1680.5	1275.1	1100.7	1093.4	1131.9	1156.2	1169.2	1173.2
2926.8	17.5°	2637.5	2059.3	1438.8	1094.5	1058.8	1108.7	1144.3	1160.2	1170.4	1170.9
2966.4	20°	2623.9	1888.3	1215.7	1008.4	1049.8	1092.8	1114.9	1127.3	1135.8	1138.7
2996.4	22.5°	2582.0	1698.1	1041.8	969.9	1013.5	1048.1	1074.1	1088.3	1093.4	1096.8
3002.1	25°	2506.7	1485.2	921.8	933.1	963.1	1006.7	1027.7	1030.5	1028.8	1033.9
2987.9	27.5°	2408.1	1257.0	847.1	883.3	921.8	959.2	970.5	968.8	965.4	971.1
2963.6	30°	2289.2	1052.0	799.5	827.2	879.9	913.9	924.1	920.1	913.3	919.5
2951.1	32.5°	2163.5	884.4	760.4	788.2	845.4	878.8	889.0	885.0	879.9	885.0
2965.3	35°	2046.3	767.2	724.2	762.1	818.2	851.0	864.1	864.6	864.6	870.8
3002.7	37.5°	1938.7	698.7	694.2	745.7	799.5	828.9	847.6	848.8	824.4	826.1
3066.1	40°	1839.1	669.8	680.6	735.0	781.4	809.7	810.8	747.4	702.7	701.5
3138.6	42.5°	1757.5	664.2	684.6	733.8	768.4	769.5	689.7	640.4	627.9	628.5
3205.4	45°	1681.1	662.5	693.6	733.8	749.1	664.7	611.0	597.9	599.1	603.6
3235.4	47.5°	1595.6	655.7	695.3	723.6	693.6	591.1	575.3	569.6	567.4	568.5
3228.6	50°	1502.2	631.3	673.8	703.2	598.5	559.4	539.6	537.9	540.7	542.4
3190.6	52.5°	1403.7	591.7	637.0	666.4	554.9	531.7	509.6	513.6	526.0	530.0
3151.0	55°	1339.1	545.3	588.3	592.8	524.3	505.6	486.9	496.0	519.2	526.6
3127.2	57.5°	1322.1	496.0	532.8	527.7	485.3	483.0	471.7	479.6	509.0	519.8
3126.1	60°	1317.0	451.8	478.5	474.5	447.3	458.1	455.2	459.2	469.4	472.8
3114.8	62.5°	1277.4	416.7	429.8	424.1	413.3	432.0	438.8	430.3	438.3	442.2
3037.2	65°	1176.6	388.4	382.2	378.2	382.8	399.8	413.3	396.4	403.7	415.0
2738.2	67.5°	1010.1	349.9	332.9	337.5	351.6	360.7	378.2	359.0	365.2	384.5
2205.4	70°	817.1	301.2	285.9	299.0	312.6	331.2	334.1	321.0	335.8	357.3
1345.9	72.5°	578.1	252.0	241.2	267.8	272.4	296.7	290.5	284.2	304.6	312.0
665.3	75°	400.9	203.3	197.0	217.4	233.8	254.8	250.3	257.6	300.7	304.1
332.4	77.5°	253.7	158.0	154.0	167.0	189.7	212.9	220.3	304.1	513.6	533.9
172.7	80°	147.2	117.8	113.2	123.4	143.3	164.8	212.3	373.1	338.6	334.6
77.6	82.5°	82.1	81.0	75.3	78.1	95.7	118.9	300.1	262.7	213.5	220.3
31.1	85°	38.5	47.6	40.8	39.1	53.8	139.3	200.4	150.0	99.7	97.4
6.8	87.5°	10.2	9.1	9.1	10.2	22.6	120.0	79.8	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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