

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: P946702

Luminaire Tested: **GALN-SB2B-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946702
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-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12117 lumens
Efficiency: N/A
Efficacy: 164.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

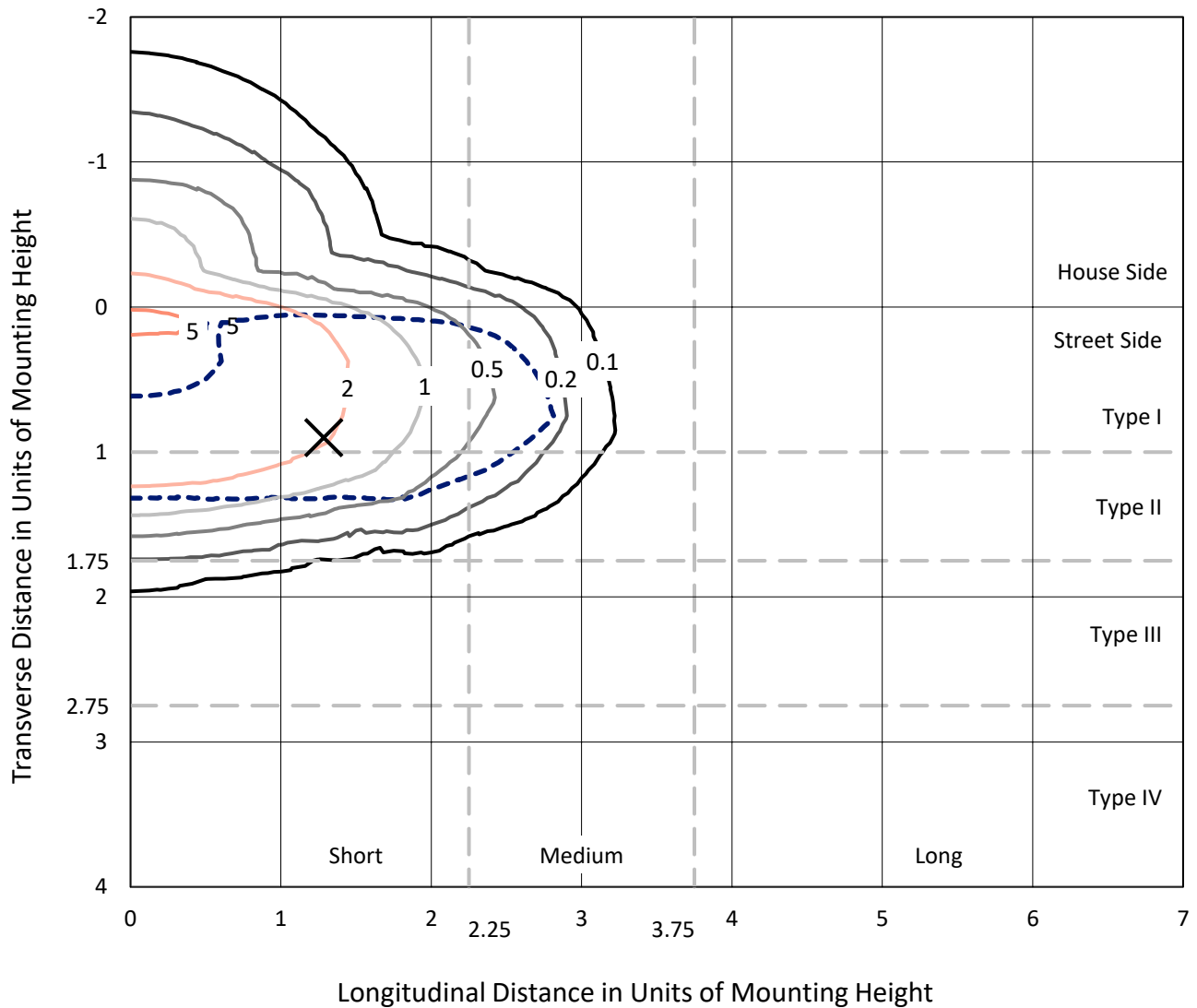
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

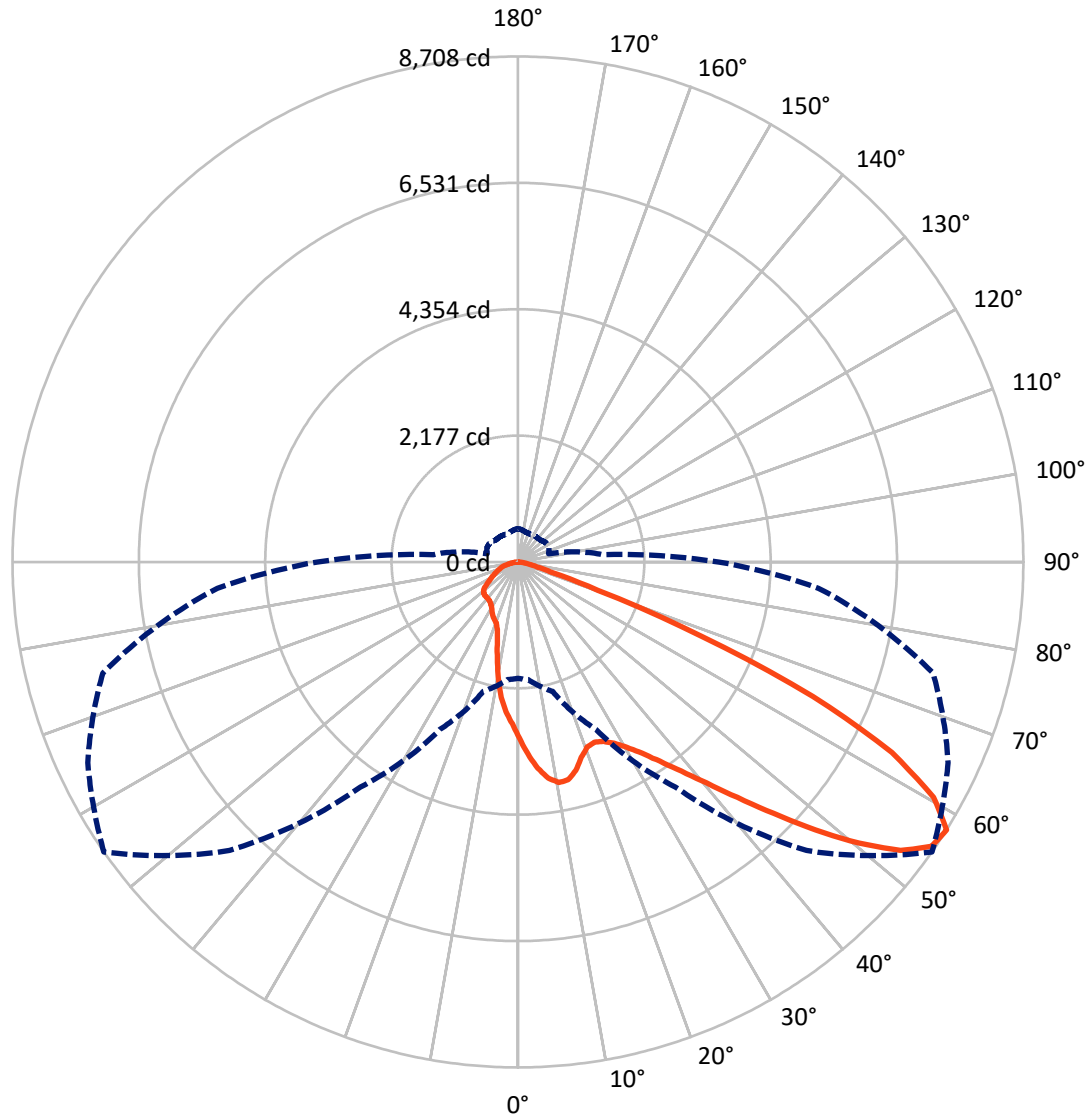
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	2192.5	0.0	2192.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9924.5	0.0	9924.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	12117.0	0.0	12117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.7	2.3
10°-20°	711.1	5.9
20°-30°	1134.7	9.4
30°-40°	1796.6	14.8
40°-50°	2749.8	22.7
50°-60°	2945.3	24.3
60°-70°	1852.9	15.3
70°-80°	547.9	4.5
80°-90°	96.9	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°	12117.0	100.0
0°-180°	12117.0	100.0

Coefficient of Utilization



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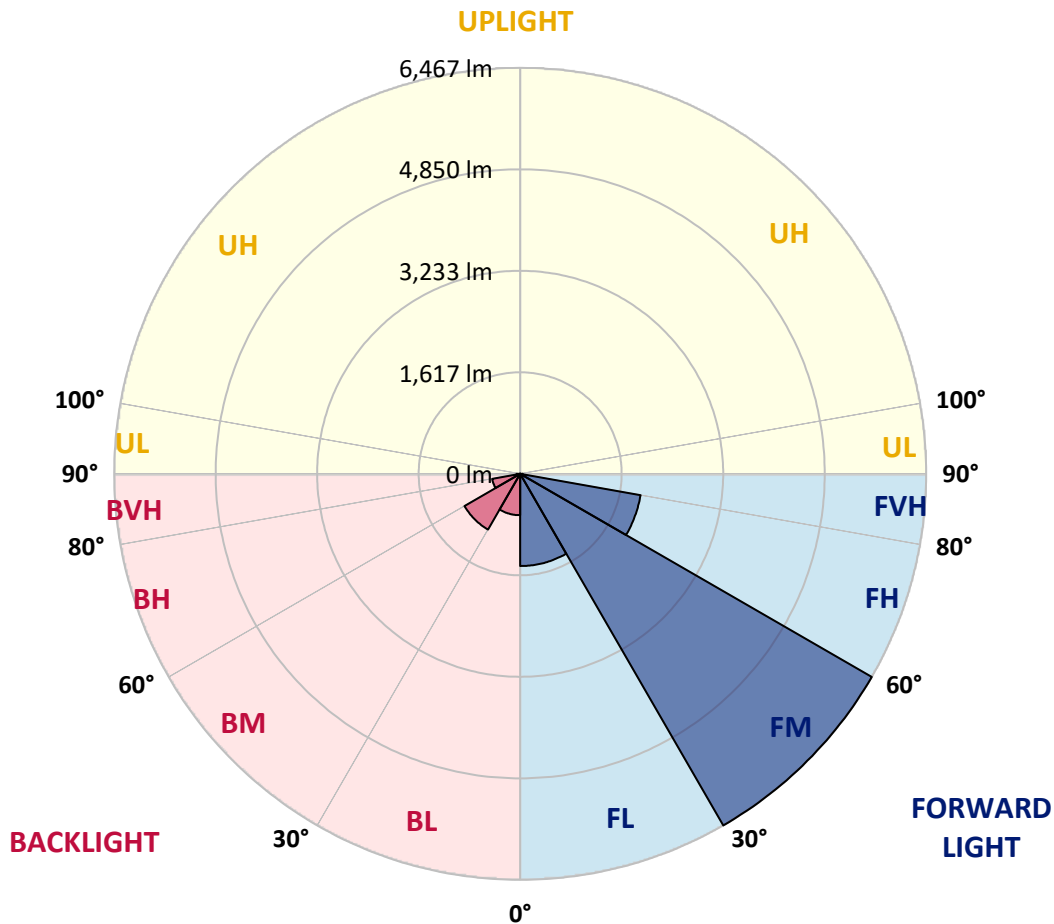
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1468.6	12.1			
FM (30°-60°)	6466.9	53.4			
FH (60°-80°)	1948.0	16.1			G2/5000
FVH (80°-90°)	40.9	0.3			G1/100
BL (0°-30°)	659.0	5.4	B2/1000		
BM (30°-60°)	1024.8	8.5	B2/2500		
BH (60°-80°)	452.8	3.7	B1/500		G1/500
BVH (80°-90°)	55.9	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3036.1	3036.1	3036.1	3036.1	3036.1	3036.1	3036.1	3036.1	3036.1	3036.1
2.5°	3483.4	3480.9	3494.6	3447.7	3415.7	3372.5	3315.5	3242.8	3164.5	3081.9
5°	3797.2	3775.3	3789.7	3754.6	3719.5	3654.4	3569.8	3451.4	3306.7	3142.0
7.5°	3747.7	3732.7	3769.6	3801.0	3827.3	3819.1	3757.1	3633.1	3446.4	3207.1
10°	3348.7	3331.8	3383.8	3492.1	3651.2	3789.7	3864.8	3787.8	3589.2	3278.5
12.5°	2996.7	2988.5	3023.0	3110.7	3287.3	3552.9	3851.1	3923.1	3737.7	3363.1
15°	2846.3	2836.3	2858.2	2902.7	3015.5	3262.9	3725.8	4015.8	3883.6	3460.8
17.5°	2813.1	2801.9	2811.3	2834.4	2907.1	3095.6	3536.6	4061.5	4035.9	3569.8
20°	2874.5	2865.1	2866.4	2865.1	2915.9	3065.6	3405.1	4044.0	4168.6	3670.0
22.5°	3023.0	3007.3	3007.9	2974.7	3002.3	3118.2	3370.6	3997.0	4287.0	3757.7
25°	3264.8	3236.6	3242.2	3157.6	3150.1	3235.9	3424.5	3960.7	4404.8	3827.9
27.5°	3595.5	3563.5	3546.6	3420.7	3360.6	3403.2	3534.1	3973.2	4516.3	3888.6
30°	4008.9	3970.1	3935.6	3757.1	3648.1	3632.5	3704.5	4055.9	4647.8	3952.5
32.5°	4515.7	4470.6	4407.9	4171.2	4017.7	3935.6	3925.0	4203.1	4801.9	4034.0
35°	5118.9	5060.0	4971.1	4664.7	4470.6	4302.7	4215.6	4415.4	5013.0	4156.7
37.5°	5740.3	5673.9	5592.4	5227.9	4989.2	4741.8	4570.2	4703.6	5294.3	4323.4
40°	6313.4	6238.9	6163.1	5838.6	5582.4	5284.3	5004.3	5068.1	5638.2	4522.6
42.5°	6651.7	6596.5	6567.7	6392.3	6194.4	5891.9	5544.2	5500.4	6024.6	4751.8
45°	6636.6	6614.1	6703.0	6775.7	6728.7	6560.8	6176.9	5978.3	6412.4	4950.4
47.5°	6282.1	6297.1	6495.7	6904.1	7083.9	7171.6	6897.2	6447.5	6749.4	5098.8
50°	5317.5	5330.0	5789.8	6670.5	7175.3	7669.6	7611.9	6905.4	7010.6	5189.7
52.5°	4553.9	4562.0	4759.3	5977.7	6873.4	7920.1	8255.9	7336.9	7201.6	5214.7
55°	3430.1	3458.3	3679.4	4689.8	6087.9	7721.5	8648.0	7781.7	7322.5	5217.2
57.5°	2003.8	2034.5	2307.6	3183.3	4731.8	7029.4	8707.5	8176.3	7404.6	5197.2
60°	981.6	994.7	1113.7	1673.1	2917.7	5695.8	8228.9	8367.4	7450.3	5186.5
62.5°	661.5	659.6	664.6	825.6	1437.6	3659.4	7231.7	8032.9	7425.9	5145.8
65°	568.8	561.9	543.1	579.4	744.8	1673.7	5587.4	7034.4	7239.9	5043.7
67.5°	491.7	492.3	493.0	481.7	531.8	772.3	3414.5	5541.1	6572.1	4560.1
70°	407.2	412.8	415.3	415.3	433.5	506.8	1457.6	3797.8	5184.0	3575.5
72.5°	370.8	358.9	360.2	353.9	353.9	385.9	586.9	2152.9	3266.0	2011.3
75°	302.5	310.1	311.3	306.9	292.5	294.4	348.3	903.3	1397.5	834.4
77.5°	261.2	261.2	263.7	260.6	249.3	220.5	232.4	350.2	475.4	342.0
80°	209.8	209.2	219.9	226.1	208.6	162.9	148.5	193.6	211.1	150.3
82.5°	102.1	108.4	151.0	172.3	158.5	117.8	90.8	120.3	112.8	66.4
85°	59.5	56.4	67.7	95.8	90.8	65.1	43.8	62.6	58.9	33.8
87.5°	18.8	17.5	13.8	32.6	26.3	18.2	11.9	18.2	16.3	7.5
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°
3036.1	0°	3036.1	3036.1	3036.1	3036.1	3036.1	3036.1	3036.1	3036.1	3036.1	3036.1
3046.1	2.5°	3001.7	2927.8	2854.5	2787.4	2746.7	2720.4	2694.1	2664.7	2653.4	2636.5
3054.3	5°	2971.6	2828.8	2701.6	2592.0	2492.4	2414.1	2335.2	2271.3	2242.5	2261.9
3080.0	7.5°	2954.1	2747.4	2551.3	2350.2	2156.7	2002.0	1867.3	1772.7	1730.1	1740.7
3105.0	10°	2938.4	2655.3	2356.5	2038.9	1760.8	1569.1	1431.3	1359.3	1332.3	1338.0
3138.9	12.5°	2924.0	2551.9	2121.6	1703.8	1408.1	1281.6	1242.1	1242.8	1247.8	1251.5
3192.7	15°	2921.5	2427.3	1859.1	1410.6	1217.7	1209.6	1252.2	1279.1	1293.5	1297.9
3237.8	17.5°	2917.7	2278.2	1591.7	1210.8	1171.4	1226.5	1265.9	1283.5	1294.8	1295.4
3281.7	20°	2902.7	2089.0	1344.9	1115.6	1161.3	1208.9	1233.4	1247.1	1256.5	1259.7
3314.9	22.5°	2856.4	1878.6	1152.6	1073.0	1121.2	1159.5	1188.3	1203.9	1209.6	1213.3
3321.1	25°	2773.0	1643.0	1019.8	1032.3	1065.5	1113.7	1136.9	1140.0	1138.2	1143.8
3305.5	27.5°	2664.0	1390.6	937.1	977.2	1019.8	1061.1	1073.6	1071.8	1068.0	1074.3
3278.5	30°	2532.5	1163.8	884.5	915.2	973.4	1011.0	1022.3	1017.9	1010.4	1017.3
3264.8	32.5°	2393.4	978.4	841.2	871.9	935.2	972.2	983.4	979.1	973.4	979.1
3280.4	35°	2263.8	848.8	801.2	843.1	905.1	941.5	955.9	956.5	956.5	963.4
3321.8	37.5°	2144.8	773.0	768.0	825.0	884.5	917.0	937.7	939.0	912.0	913.9
3391.9	40°	2034.5	741.0	752.9	813.1	864.4	895.7	897.0	826.8	777.4	776.1
3472.1	42.5°	1944.3	734.8	757.3	811.8	850.0	851.3	762.9	708.5	694.7	695.3
3546.0	45°	1859.8	732.9	767.3	811.8	828.7	735.4	675.9	661.5	662.7	667.7
3579.2	47.5°	1765.2	725.4	769.2	800.5	767.3	654.0	636.4	630.2	627.6	628.9
3571.7	50°	1661.8	698.4	745.4	778.0	662.1	618.9	597.0	595.1	598.2	600.1
3529.7	52.5°	1552.8	654.6	704.7	737.3	613.9	588.2	563.8	568.1	581.9	586.3
3485.9	55°	1481.4	603.2	650.8	655.8	580.0	559.4	538.7	548.7	574.4	582.5
3459.6	57.5°	1462.6	548.7	589.4	583.8	536.8	534.3	521.8	530.6	563.1	575.0
3458.3	60°	1457.0	499.9	529.3	524.9	494.9	506.8	503.6	508.0	519.3	523.0
3445.8	62.5°	1413.1	461.0	475.4	469.2	457.3	477.9	485.5	476.1	484.8	489.2
3360.0	65°	1301.6	429.7	422.8	418.4	423.4	442.2	457.3	438.5	446.6	459.1
3029.2	67.5°	1117.5	387.1	368.3	373.3	389.0	399.0	418.4	397.1	404.0	425.3
2439.8	70°	903.9	333.2	316.3	330.7	345.8	366.4	369.6	355.2	371.5	395.3
1488.9	72.5°	639.5	278.7	266.8	296.3	301.3	328.2	321.3	314.4	337.0	345.1
736.0	75°	443.5	224.9	218.0	240.5	258.7	281.9	276.9	285.0	332.6	336.4
367.7	77.5°	280.6	174.8	170.4	184.8	209.8	235.5	243.7	336.4	568.1	590.7
191.0	80°	162.9	130.3	125.3	136.6	158.5	182.3	234.9	412.8	374.6	370.2
85.8	82.5°	90.8	89.6	83.3	86.4	105.9	131.5	332.0	290.6	236.2	243.7
34.5	85°	42.6	52.6	45.1	43.2	59.5	154.1	221.7	166.0	110.2	107.7
7.5	87.5°	11.3	10.0	10.0	11.3	25.1	132.8	88.3	70.8	42.0	40.7
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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