

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: P946681

Luminaire Tested: **GALN-SB2B-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946681
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-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11453 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

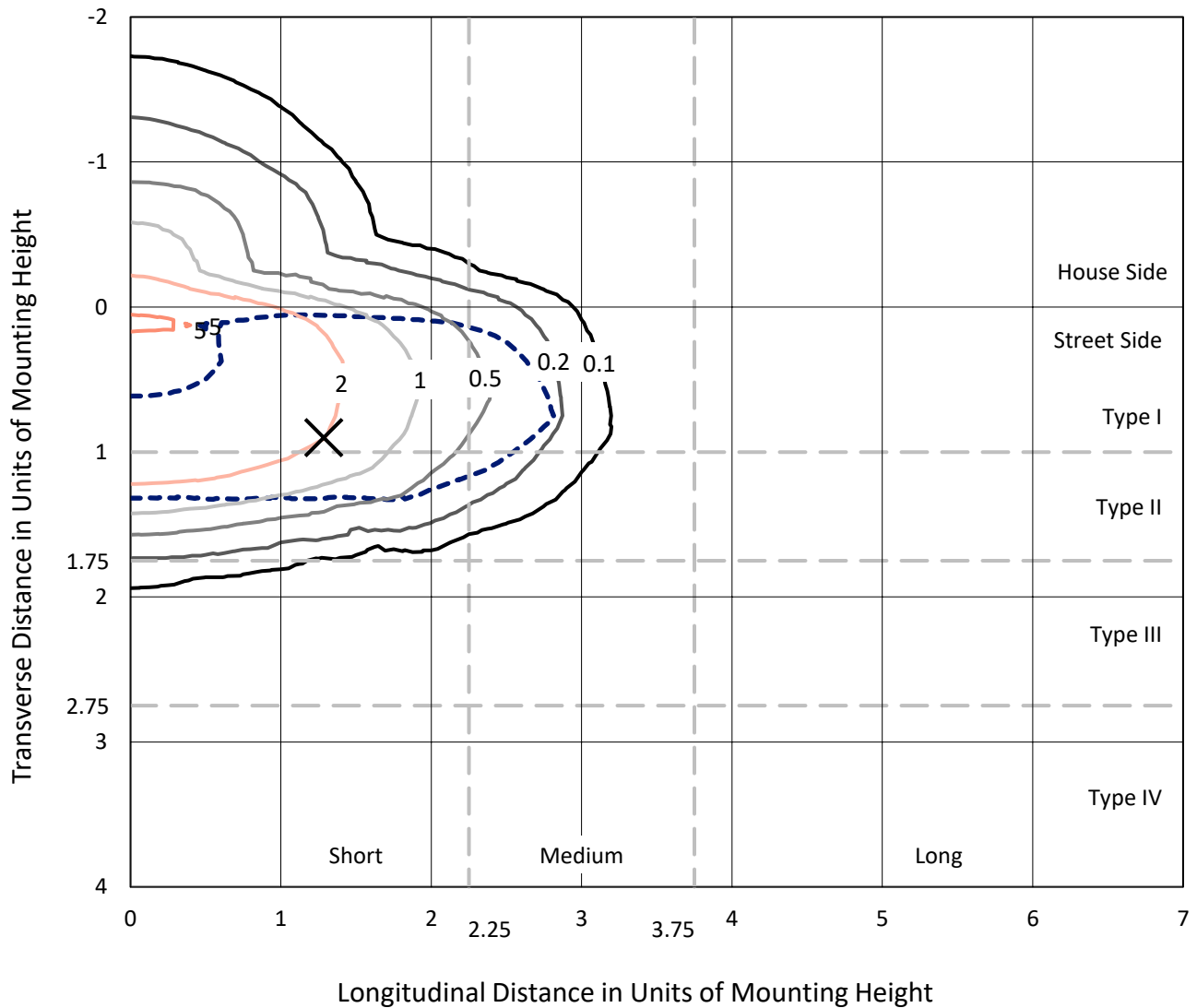
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

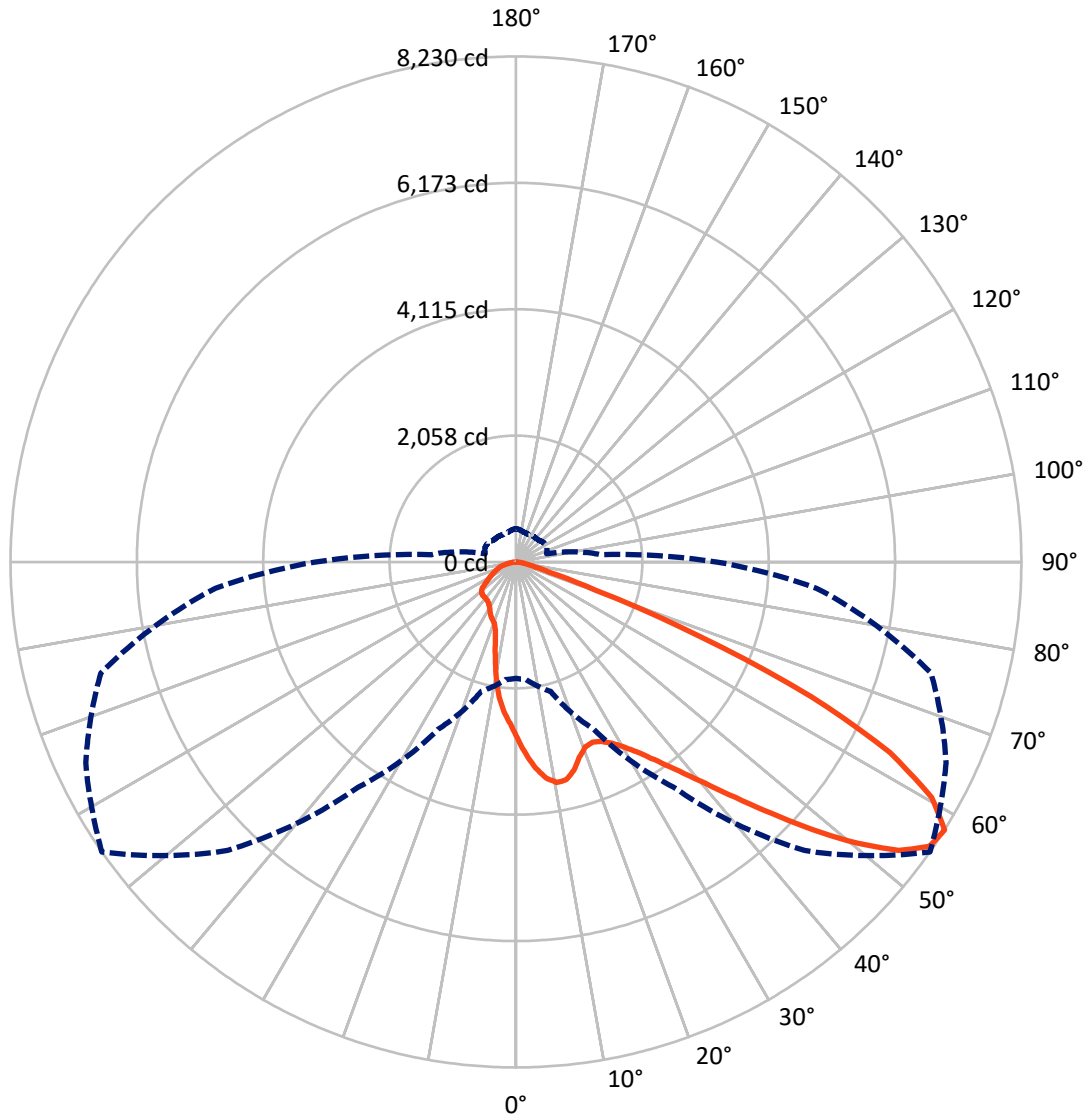
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2072.4	0.0	2072.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9380.6	0.0	9380.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	11453.0	0.0	11453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.3	2.3
10°-20°	672.1	5.9
20°-30°	1072.5	9.4
30°-40°	1698.1	14.8
40°-50°	2599.1	22.7
50°-60°	2783.9	24.3
60°-70°	1751.4	15.3
70°-80°	517.9	4.5
80°-90°	91.6	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°	11453.0	100.0
0°-180°	11453.0	100.0

Coefficient of Utilization



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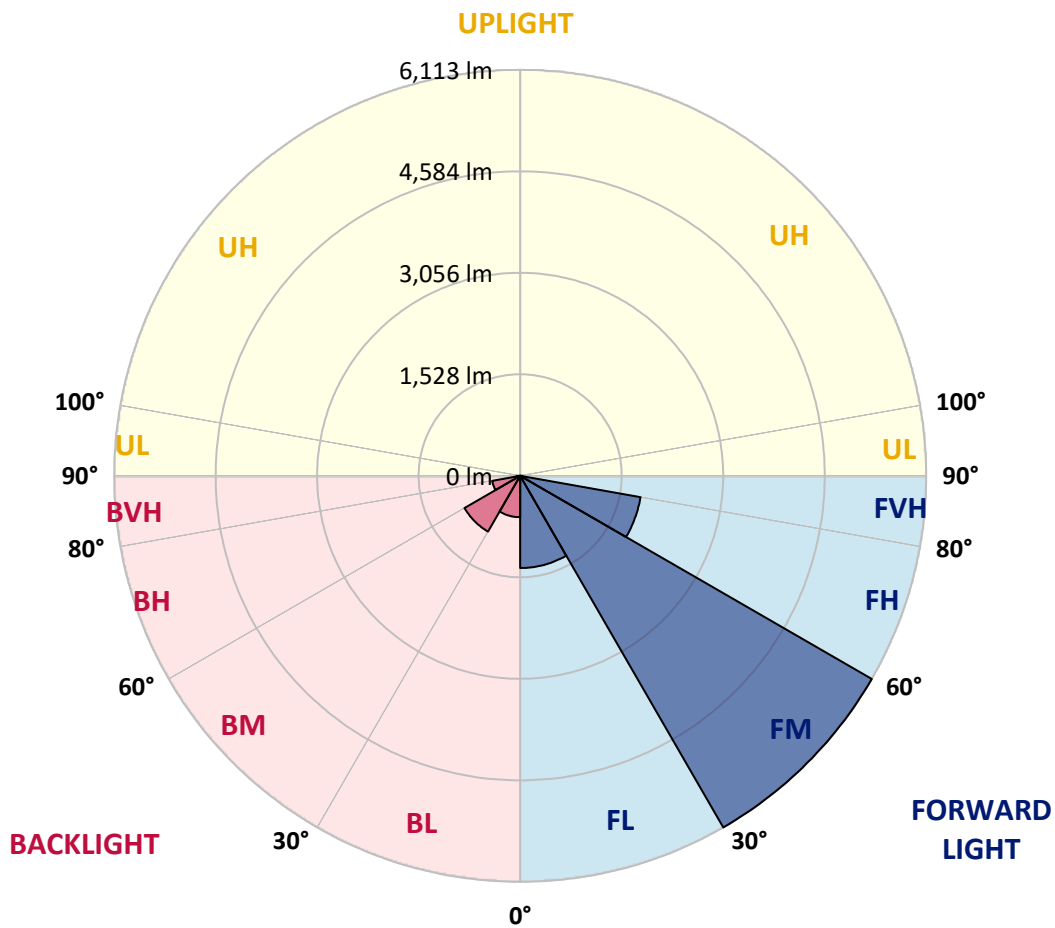
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1388.1	12.1			
FM (30°-60°)	6112.5	53.4			
FH (60°-80°)	1841.3	16.1			G2/5000
FVH (80°-90°)	38.7	0.3			G1/100
BL (0°-30°)	622.9	5.4	B2/1000		
BM (30°-60°)	968.6	8.5	B1/1000		
BH (60°-80°)	428.0	3.7	B1/500		G1/500
BVH (80°-90°)	52.9	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°	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8
2.5°	3292.5	3290.1	3303.1	3258.7	3228.5	3187.7	3133.8	3065.1	2991.1	2913.0
5°	3589.1	3568.4	3582.0	3548.9	3515.7	3454.1	3374.2	3262.3	3125.5	2969.8
7.5°	3542.3	3528.1	3563.1	3592.7	3617.5	3609.8	3551.2	3434.0	3257.6	3031.4
10°	3165.2	3149.2	3198.3	3300.8	3451.2	3582.0	3653.1	3580.2	3392.5	3098.9
12.5°	2832.4	2824.8	2857.3	2940.2	3107.2	3358.2	3640.0	3708.1	3532.9	3178.8
15°	2690.4	2680.9	2701.6	2743.6	2850.2	3084.1	3521.6	3795.7	3670.8	3271.2
17.5°	2659.0	2648.3	2657.2	2679.1	2747.8	2926.0	3342.8	3839.0	3814.7	3374.2
20°	2717.0	2708.1	2709.3	2708.1	2756.1	2897.6	3218.5	3822.4	3940.2	3468.9
22.5°	2857.3	2842.5	2843.1	2811.7	2837.8	2947.3	3185.9	3778.0	4052.1	3551.8
25°	3085.9	3059.2	3064.5	2984.6	2977.5	3058.6	3236.8	3743.6	4163.4	3618.1
27.5°	3398.5	3368.3	3352.3	3233.3	3176.4	3216.7	3340.4	3755.5	4268.8	3675.6
30°	3789.2	3752.5	3720.0	3551.2	3448.2	3433.4	3501.5	3833.6	4393.1	3735.9
32.5°	4268.2	4225.6	4166.4	3942.6	3797.5	3720.0	3709.9	3972.8	4538.8	3812.9
35°	4838.4	4782.7	4698.6	4409.1	4225.6	4066.9	3984.6	4173.5	4738.3	3929.0
37.5°	5425.7	5362.9	5286.0	4941.4	4715.8	4481.9	4319.7	4445.8	5004.2	4086.4
40°	5967.4	5897.0	5825.3	5518.7	5276.5	4994.7	4730.0	4790.4	5329.2	4274.7
42.5°	6287.2	6235.1	6207.8	6042.0	5855.0	5569.0	5240.4	5198.9	5694.5	4491.4
45°	6273.0	6251.6	6335.7	6404.4	6360.0	6201.3	5838.4	5650.7	6061.0	4679.1
47.5°	5937.8	5952.1	6139.7	6525.8	6695.7	6778.6	6519.3	6094.1	6379.5	4819.4
50°	5026.1	5037.9	5472.5	6304.9	6782.1	7249.3	7194.8	6526.9	6626.4	4905.3
52.5°	4304.3	4312.0	4498.5	5650.1	6496.8	7486.1	7803.4	6934.9	6807.0	4929.0
55°	3242.2	3268.8	3477.8	4432.8	5754.3	7298.4	8174.1	7355.3	6921.3	4931.3
57.5°	1894.0	1923.0	2181.2	3008.9	4472.5	6644.2	8230.3	7728.3	6998.8	4912.4
60°	927.8	940.2	1052.7	1581.4	2757.8	5383.7	7778.0	7908.8	7042.0	4902.3
62.5°	625.2	623.4	628.2	780.3	1358.8	3458.9	6835.4	7592.7	7019.0	4863.8
65°	537.6	531.1	513.3	547.7	704.0	1582.0	5281.2	6648.9	6843.1	4767.3
67.5°	464.8	465.4	466.0	455.3	502.7	730.0	3227.4	5237.4	6212.0	4310.2
70°	384.8	390.2	392.5	392.5	409.7	479.0	1377.7	3589.7	4899.9	3379.5
72.5°	350.5	339.3	340.4	334.5	334.5	364.7	554.8	2034.9	3087.0	1901.1
75°	286.0	293.1	294.3	290.1	276.5	278.3	329.2	853.8	1320.9	788.6
77.5°	246.9	246.9	249.3	246.3	235.6	208.4	219.7	331.0	449.4	323.3
80°	198.3	197.8	207.8	213.7	197.2	153.9	140.3	182.9	199.5	142.1
82.5°	96.5	102.4	142.7	162.8	149.8	111.3	85.8	113.7	106.6	62.8
85°	56.2	53.3	63.9	90.6	85.8	61.6	41.4	59.2	55.7	32.0
87.5°	17.8	16.6	13.0	30.8	24.9	17.2	11.2	17.2	15.4	7.1
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°
2869.8	0°	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8	2869.8
2879.2	2.5°	2837.2	2767.3	2698.1	2634.7	2596.2	2571.3	2546.5	2518.7	2508.0	2492.0
2886.9	5°	2808.8	2673.8	2553.6	2450.0	2355.8	2281.8	2207.2	2146.8	2119.6	2138.0
2911.2	7.5°	2792.2	2596.8	2411.5	2221.4	2038.5	1892.2	1765.0	1675.6	1635.3	1645.4
2934.9	10°	2777.4	2509.8	2227.4	1927.2	1664.3	1483.1	1352.9	1284.8	1259.3	1264.7
2966.8	12.5°	2763.8	2412.1	2005.3	1610.4	1331.0	1211.4	1174.1	1174.7	1179.4	1183.0
3017.8	15°	2761.4	2294.3	1757.3	1333.3	1151.0	1143.3	1183.5	1209.0	1222.6	1226.8
3060.4	17.5°	2757.8	2153.3	1504.4	1144.5	1107.2	1159.3	1196.6	1213.1	1223.8	1224.4
3101.8	20°	2743.6	1974.5	1271.2	1054.5	1097.7	1142.7	1165.8	1178.8	1187.7	1190.6
3133.2	22.5°	2699.8	1775.6	1089.4	1014.2	1059.8	1095.9	1123.2	1138.0	1143.3	1146.8
3139.1	25°	2621.1	1553.0	963.9	975.7	1007.1	1052.7	1074.6	1077.6	1075.8	1081.1
3124.3	27.5°	2518.1	1314.4	885.7	923.6	963.9	1003.0	1014.8	1013.0	1009.5	1015.4
3098.9	30°	2393.7	1100.1	836.0	865.0	920.1	955.6	966.3	962.1	955.0	961.5
3085.9	32.5°	2262.3	924.8	795.1	824.2	884.0	918.9	929.5	925.4	920.1	925.4
3100.7	35°	2139.7	802.3	757.3	796.9	855.5	889.9	903.5	904.1	904.1	910.6
3139.7	37.5°	2027.2	730.6	725.9	779.8	836.0	866.8	886.3	887.5	862.0	863.8
3206.0	40°	1923.0	700.4	711.7	768.5	817.1	846.7	847.8	781.5	734.8	733.6
3281.8	42.5°	1837.8	694.5	715.8	767.3	803.4	804.6	721.1	669.6	656.6	657.2
3351.7	45°	1757.8	692.7	725.3	767.3	783.3	695.1	638.8	625.2	626.4	631.1
3383.1	47.5°	1668.4	685.6	727.1	756.7	725.3	618.1	601.5	595.6	593.3	594.4
3376.0	50°	1570.8	660.2	704.6	735.3	625.8	585.0	564.2	562.5	565.4	567.2
3336.3	52.5°	1467.7	618.7	666.1	696.9	580.2	556.0	532.9	537.0	550.0	554.2
3294.9	55°	1400.2	570.2	615.2	619.9	548.3	528.7	509.2	518.7	542.9	550.6
3270.0	57.5°	1382.5	518.7	557.1	551.8	507.4	505.0	493.2	501.5	532.3	543.5
3268.8	60°	1377.1	472.5	500.3	496.2	467.7	479.0	476.0	480.2	490.8	494.4
3257.0	62.5°	1335.7	435.8	449.4	443.5	432.2	451.7	458.9	450.0	458.3	462.4
3175.8	65°	1230.3	406.2	399.6	395.5	400.2	418.0	432.2	414.4	422.1	434.0
2863.2	67.5°	1056.2	365.9	348.1	352.9	367.7	377.1	395.5	375.4	381.9	402.0
2306.1	70°	854.4	315.0	299.0	312.6	326.8	346.4	349.3	335.7	351.1	373.6
1407.3	72.5°	604.5	263.5	252.2	280.0	284.8	310.2	303.7	297.2	318.5	326.2
695.7	75°	419.2	212.6	206.0	227.4	244.5	266.4	261.7	269.4	314.4	317.9
347.5	77.5°	265.2	165.2	161.0	174.7	198.3	222.6	230.3	317.9	537.0	558.3
180.6	80°	153.9	123.1	118.4	129.1	149.8	172.3	222.0	390.2	354.1	349.9
81.1	82.5°	85.8	84.7	78.7	81.7	100.1	124.3	313.8	274.7	223.2	230.3
32.6	85°	40.3	49.7	42.6	40.9	56.2	145.6	209.6	156.9	104.2	101.8
7.1	87.5°	10.7	9.5	9.5	10.7	23.7	125.5	83.5	66.9	39.7	38.5
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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