

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: P947836

Luminaire Tested: **GALN-SB3A-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947836
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-SB3A-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11903 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

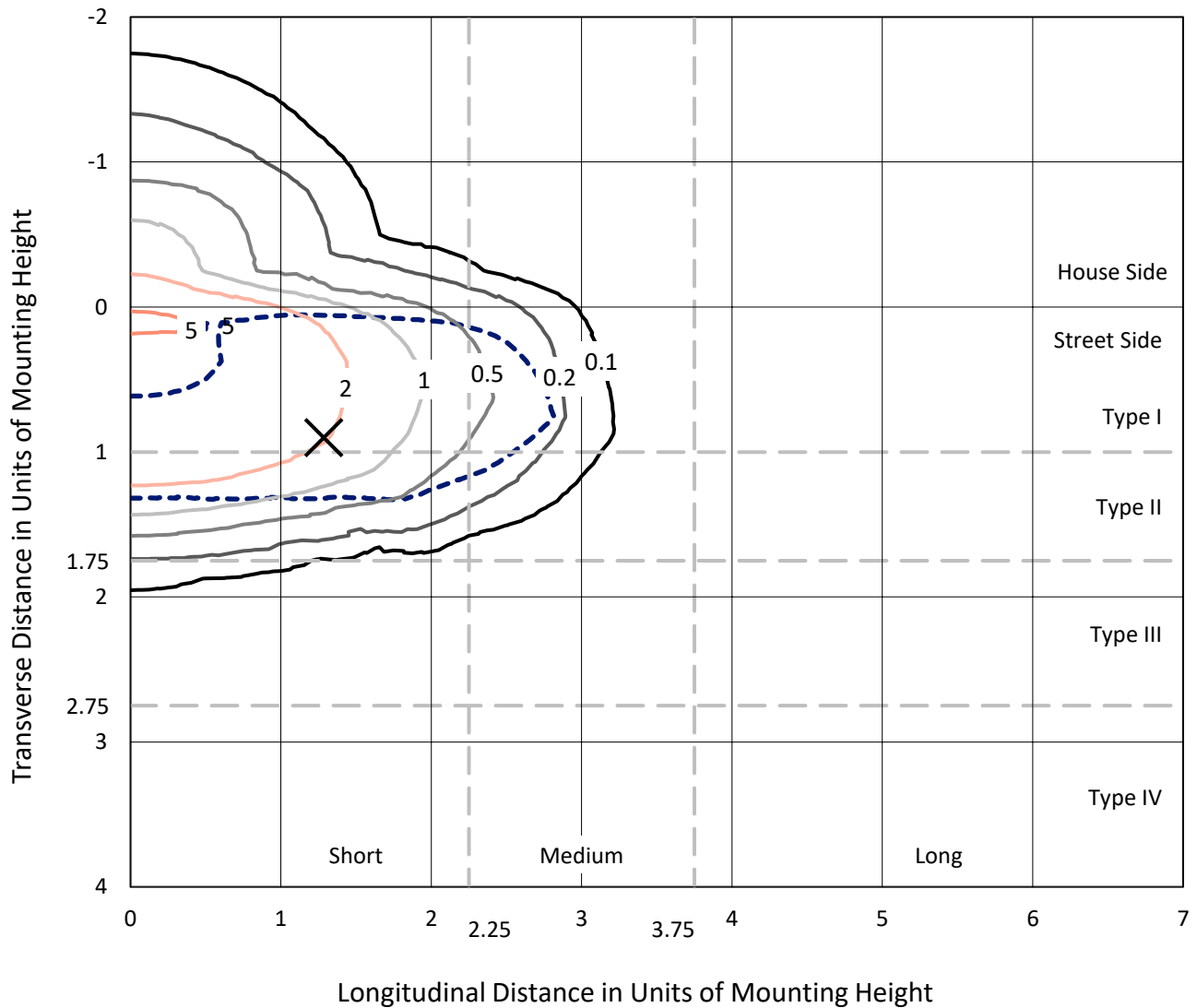
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

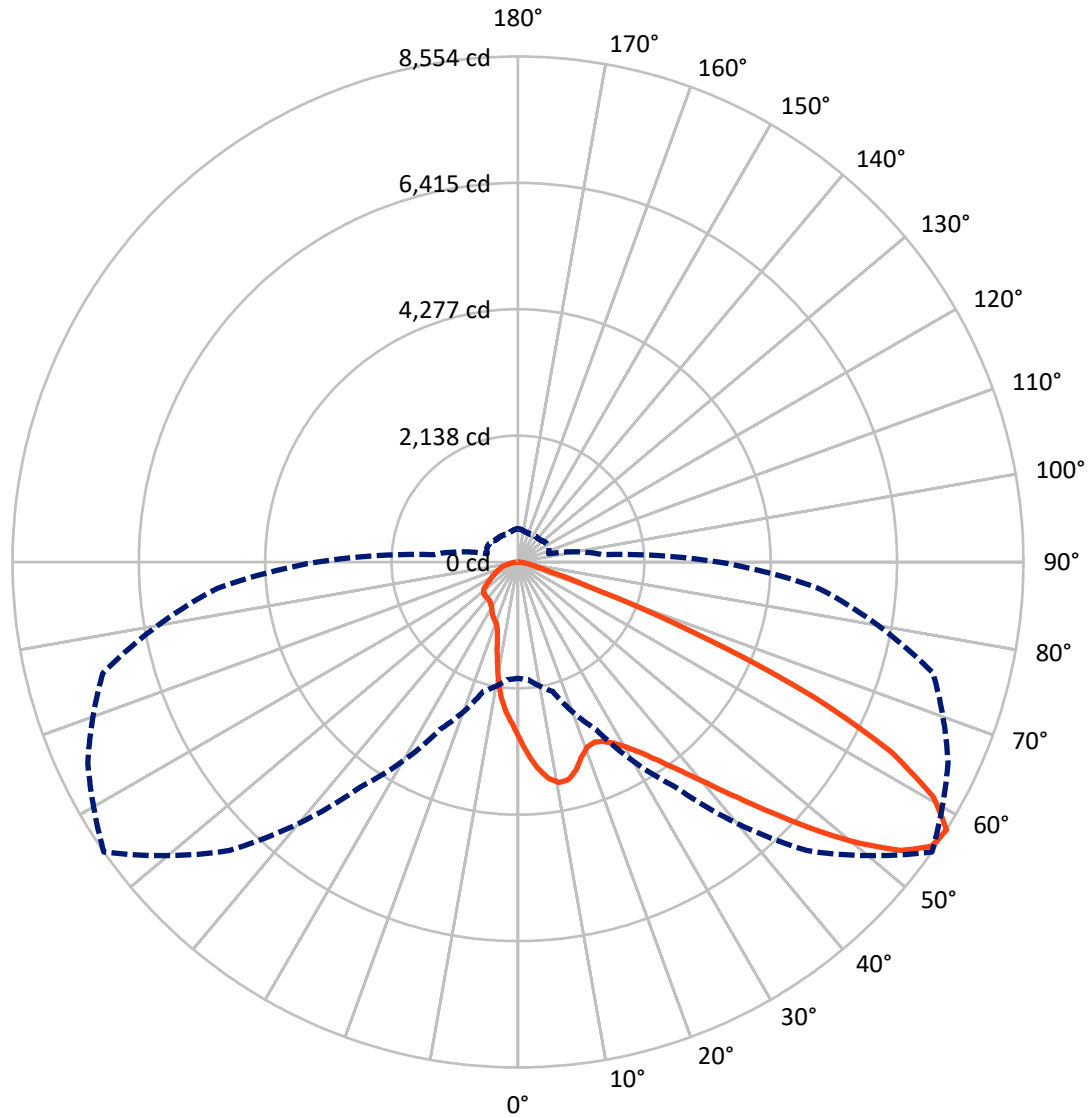
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2153.8	0.0	2153.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9749.2	0.0	9749.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	11903.0	0.0	11903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	2.3
10°-20°	698.6	5.9
20°-30°	1114.7	9.4
30°-40°	1764.8	14.8
40°-50°	2701.3	22.7
50°-60°	2893.3	24.3
60°-70°	1820.2	15.3
70°-80°	538.3	4.5
80°-90°	95.2	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°	11903.0	100.0
0°-180°	11903.0	100.0

Coefficient of Utilization



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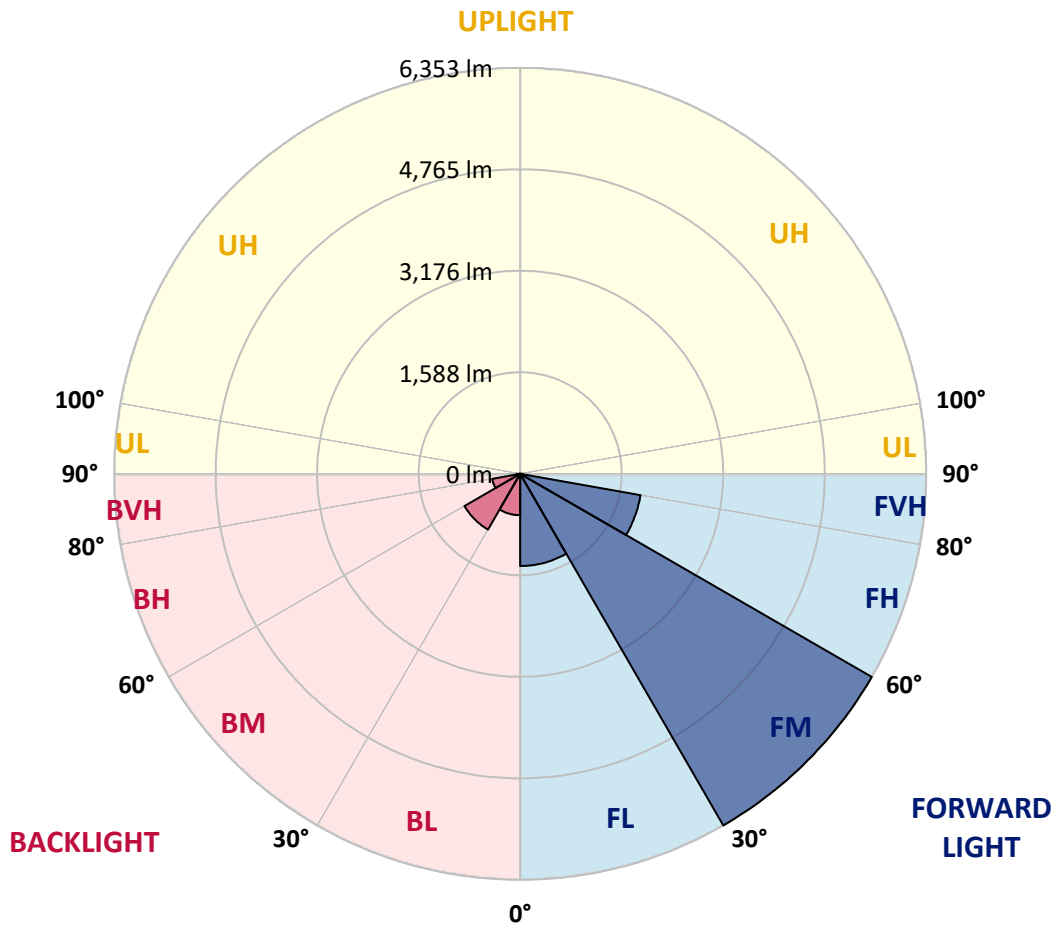
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.6	12.1			
FM (30°-60°)	6352.7	53.4			
FH (60°-80°)	1913.6	16.1			G2/5000
FVH (80°-90°)	40.2	0.3			G1/100
BL (0°-30°)	647.4	5.4	B2/1000		
BM (30°-60°)	1006.7	8.5	B2/2500		
BH (60°-80°)	444.8	3.7	B1/500		G1/500
BVH (80°-90°)	55.0	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°	2982.5	2982.5	2982.5	2982.5	2982.5	2982.5	2982.5	2982.5	2982.5	2982.5
2.5°	3421.9	3419.4	3432.9	3386.8	3355.4	3312.9	3256.9	3185.6	3108.6	3027.4
5°	3730.1	3708.6	3722.7	3688.3	3653.8	3589.8	3506.8	3390.5	3248.3	3086.5
7.5°	3681.5	3666.8	3703.1	3733.8	3759.7	3751.7	3690.8	3568.9	3385.5	3150.5
10°	3289.6	3272.9	3324.0	3430.5	3586.8	3722.7	3796.6	3720.9	3525.8	3220.6
12.5°	2943.7	2935.7	2969.6	3055.7	3229.3	3490.2	3783.1	3853.8	3671.7	3303.7
15°	2796.1	2786.2	2807.8	2851.4	2962.2	3205.3	3660.0	3944.9	3815.0	3399.7
17.5°	2763.4	2752.4	2761.6	2784.4	2855.7	3041.0	3474.2	3989.8	3964.6	3506.8
20°	2823.8	2814.5	2815.8	2814.5	2864.4	3011.4	3344.9	3972.6	4095.0	3605.2
22.5°	2969.6	2954.2	2954.8	2922.2	2949.3	3063.1	3311.1	3926.4	4211.3	3691.4
25°	3207.1	3179.4	3184.9	3101.9	3094.5	3178.8	3364.0	3890.7	4327.0	3760.3
27.5°	3532.0	3500.6	3484.0	3360.3	3301.2	3343.1	3471.7	3903.0	4436.5	3820.0
30°	3938.1	3900.0	3866.1	3690.8	3583.7	3568.3	3639.1	3984.3	4565.8	3882.7
32.5°	4435.9	4391.6	4330.1	4097.5	3946.7	3866.1	3855.7	4128.9	4717.1	3962.7
35°	5028.5	4970.6	4883.3	4582.4	4391.6	4226.7	4141.2	4337.5	4924.5	4083.3
37.5°	5638.9	5573.7	5493.7	5135.5	4901.1	4658.0	4489.4	4620.5	5200.8	4247.0
40°	6201.9	6128.7	6054.2	5735.5	5483.8	5190.9	4915.9	4978.6	5538.6	4442.7
42.5°	6534.2	6480.0	6451.7	6279.4	6085.0	5787.8	5446.3	5403.2	5918.2	4667.9
45°	6519.4	6497.3	6584.6	6656.0	6609.9	6445.0	6067.8	5872.7	6299.1	4863.0
47.5°	6171.1	6185.9	6381.0	6782.2	6958.8	7044.9	6775.4	6333.6	6630.2	5008.8
50°	5223.5	5235.8	5687.5	6552.7	7048.6	7534.1	7477.5	6783.4	6886.8	5098.0
52.5°	4473.5	4481.4	4675.3	5872.1	6752.0	7780.2	8110.1	7207.4	7074.5	5122.6
55°	3369.5	3397.2	3614.4	4607.0	5980.4	7585.2	8495.2	7644.2	7193.2	5125.1
57.5°	1968.4	1998.6	2266.9	3127.1	4648.2	6905.2	8553.7	8031.9	7273.8	5105.4
60°	964.2	977.1	1094.1	1643.5	2866.2	5595.2	8083.6	8219.6	7318.7	5094.9
62.5°	649.8	647.9	652.9	811.0	1412.2	3594.8	7104.0	7891.0	7294.7	5054.9
65°	558.7	552.0	533.5	569.2	731.6	1644.2	5488.7	6910.2	7112.0	4954.6
67.5°	483.0	483.6	484.3	473.2	522.4	758.7	3354.2	5443.2	6456.0	4479.6
70°	400.0	405.5	408.0	408.0	425.8	497.8	1431.9	3730.7	5092.5	3512.3
72.5°	364.3	352.6	353.8	347.7	347.7	379.0	576.6	2114.9	3208.3	1975.8
75°	297.2	304.6	305.8	301.5	287.4	289.2	342.1	887.3	1372.8	819.6
77.5°	256.6	256.6	259.1	256.0	244.9	216.6	228.3	344.0	467.0	336.0
80°	206.1	205.5	216.0	222.1	204.9	160.0	145.8	190.1	207.4	147.7
82.5°	100.3	106.5	148.3	169.2	155.7	115.7	89.2	118.1	110.8	65.2
85°	58.5	55.4	66.5	94.1	89.2	64.0	43.1	61.5	57.8	33.2
87.5°	18.5	17.2	13.5	32.0	25.8	17.8	11.7	17.8	16.0	7.4
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°
2982.5	0°	2982.5	2982.5	2982.5	2982.5	2982.5	2982.5	2982.5	2982.5	2982.5	2982.5
2992.4	2.5°	2948.7	2876.1	2804.1	2738.2	2698.2	2672.4	2646.5	2617.6	2606.5	2589.9
3000.4	5°	2919.1	2778.8	2653.9	2546.2	2448.4	2371.5	2294.0	2231.2	2202.9	2222.0
3025.6	7.5°	2901.9	2698.8	2506.2	2308.7	2118.6	1966.6	1834.3	1741.4	1699.5	1710.0
3050.2	10°	2886.5	2608.4	2314.9	2002.9	1729.7	1541.4	1406.0	1335.3	1308.8	1314.3
3083.4	12.5°	2872.4	2506.9	2084.1	1673.7	1383.3	1259.0	1220.2	1220.8	1225.7	1229.4
3136.3	15°	2869.9	2384.4	1826.3	1385.7	1196.2	1188.2	1230.0	1256.5	1270.7	1275.0
3180.6	17.5°	2866.2	2238.0	1563.6	1189.4	1150.7	1204.8	1243.6	1260.8	1271.9	1272.5
3223.7	20°	2851.4	2052.1	1321.1	1095.9	1140.8	1187.6	1211.6	1225.1	1234.4	1237.4
3256.3	22.5°	2805.9	1845.4	1132.2	1054.1	1101.4	1139.0	1167.3	1182.7	1188.2	1191.9
3262.5	25°	2724.1	1614.0	1001.8	1014.1	1046.7	1094.1	1116.8	1119.9	1118.1	1123.6
3247.1	27.5°	2617.0	1366.0	920.5	959.9	1001.8	1042.4	1054.7	1052.8	1049.1	1055.3
3220.6	30°	2487.8	1143.3	868.8	899.0	956.2	993.1	1004.2	999.9	992.5	999.3
3207.1	32.5°	2351.2	961.1	826.4	856.5	918.7	955.0	966.1	961.8	956.2	961.8
3222.5	35°	2223.8	833.8	787.0	828.2	889.2	924.8	939.0	939.6	939.6	946.4
3263.1	37.5°	2106.9	759.3	754.4	810.4	868.8	900.8	921.1	922.4	895.9	897.8
3332.0	40°	1998.6	727.9	739.6	798.7	849.2	879.9	881.2	812.2	763.6	762.4
3410.8	42.5°	1910.0	721.8	743.9	797.5	835.0	836.2	749.5	695.9	682.4	683.0
3483.4	45°	1826.9	719.9	753.8	797.5	814.1	722.4	663.9	649.8	651.0	655.9
3516.0	47.5°	1734.0	712.6	755.6	786.4	753.8	642.4	625.2	619.0	616.6	617.8
3508.6	50°	1632.5	686.1	732.2	764.2	650.4	607.9	586.4	584.6	587.6	589.5
3467.4	52.5°	1525.4	643.0	692.2	724.2	603.0	577.8	553.8	558.1	571.6	575.9
3424.3	55°	1455.3	592.6	639.3	644.3	569.8	549.5	529.2	539.0	564.3	572.3
3398.5	57.5°	1436.8	539.0	579.0	573.5	527.3	524.9	512.6	521.2	553.2	564.9
3397.2	60°	1431.3	491.0	520.0	515.6	486.1	497.8	494.7	499.0	510.1	513.8
3384.9	62.5°	1388.2	452.9	467.0	460.9	449.2	469.5	476.9	467.7	476.3	480.6
3300.6	65°	1278.7	422.1	415.3	411.0	416.0	434.4	449.2	430.7	438.7	451.0
2975.7	67.5°	1097.7	380.3	361.8	366.7	382.1	392.0	411.0	390.1	396.9	417.8
2396.7	70°	887.9	327.4	310.7	324.9	339.7	360.0	363.0	348.9	364.9	388.3
1462.6	72.5°	628.3	273.8	262.1	291.1	296.0	322.4	315.7	308.9	331.0	339.0
723.0	75°	435.7	220.9	214.1	236.3	254.1	276.9	272.0	280.0	326.7	330.4
361.2	77.5°	275.7	171.7	167.4	181.5	206.1	231.4	239.4	330.4	558.1	580.3
187.7	80°	160.0	128.0	123.1	134.1	155.7	179.1	230.7	405.5	368.0	363.7
84.3	82.5°	89.2	88.0	81.8	84.9	104.0	129.2	326.1	285.5	232.0	239.4
33.8	85°	41.8	51.7	44.3	42.5	58.5	151.4	217.8	163.1	108.3	105.8
7.4	87.5°	11.1	9.8	9.8	11.1	24.6	130.5	86.8	69.5	41.2	40.0
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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