

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: P947290

Luminaire Tested: **GALN-SB2C-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947290
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-SB2C-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11038 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

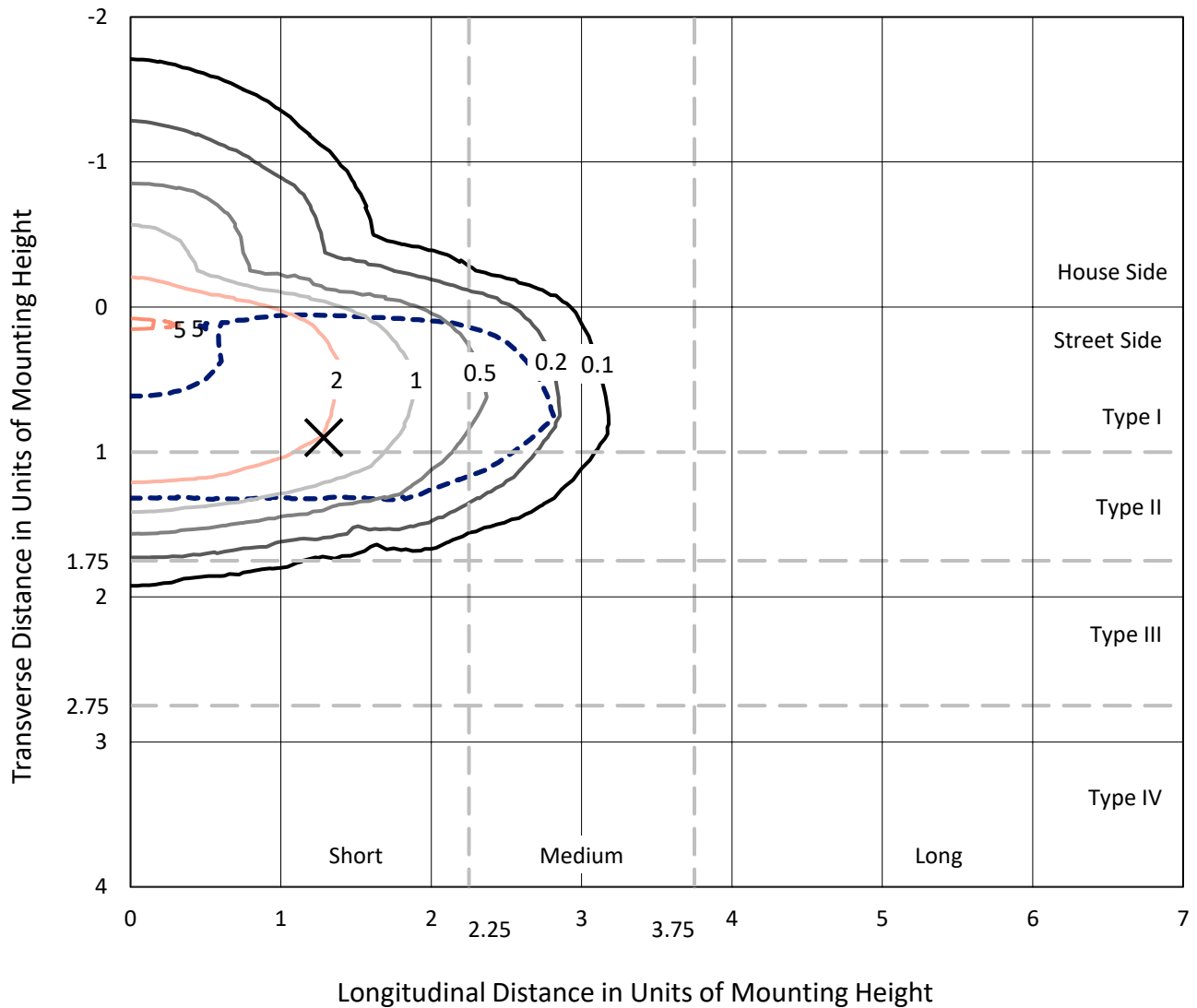
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

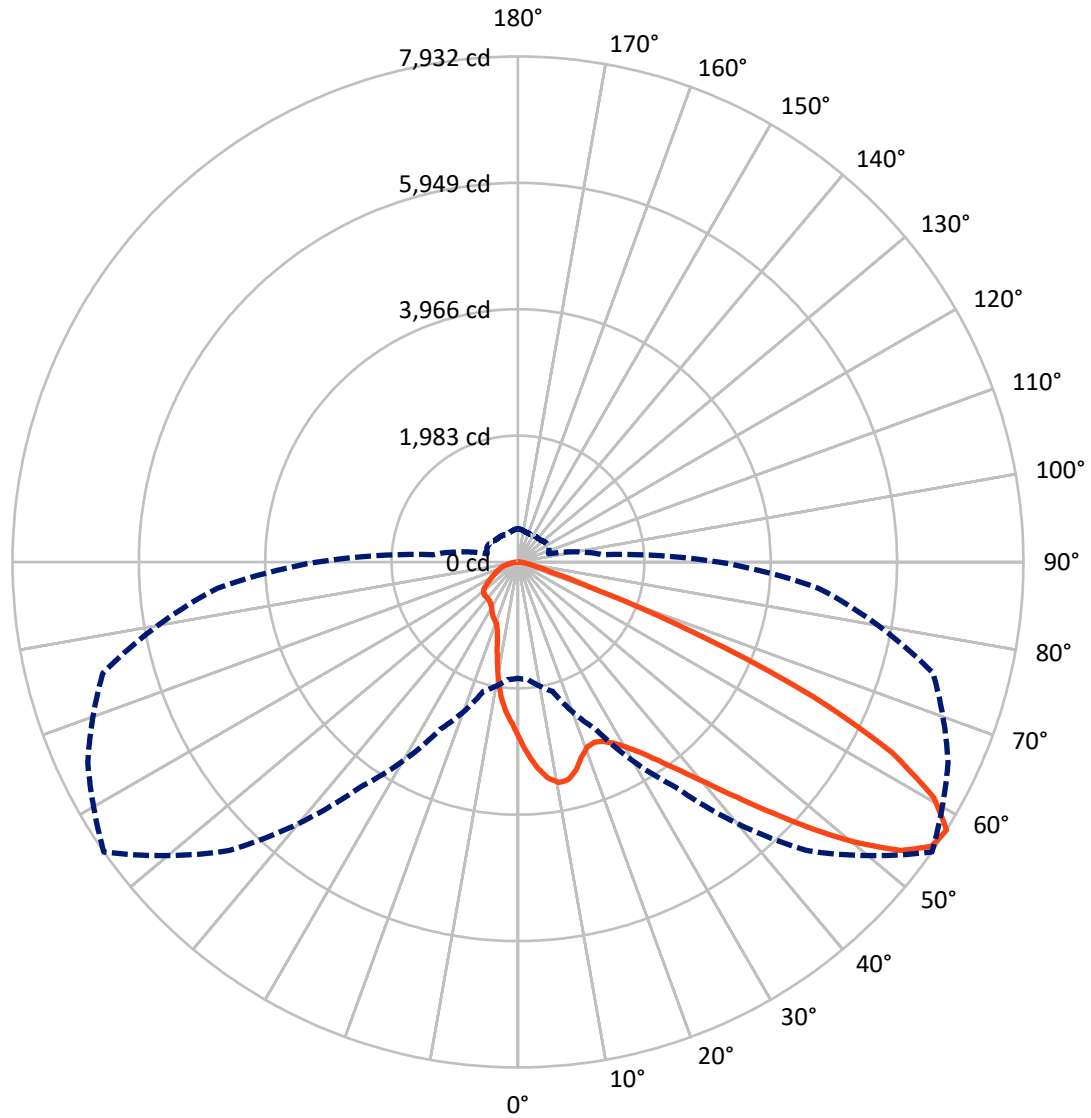
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	1997.3	0.0	1997.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9040.7	0.0	9040.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	11038.0	0.0	11038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.6	2.3
10°-20°	647.8	5.9
20°-30°	1033.7	9.4
30°-40°	1636.6	14.8
40°-50°	2504.9	22.7
50°-60°	2683.0	24.3
60°-70°	1687.9	15.3
70°-80°	499.2	4.5
80°-90°	88.3	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°	11038.0	100.0
0°-180°	11038.0	100.0

Coefficient of Utilization



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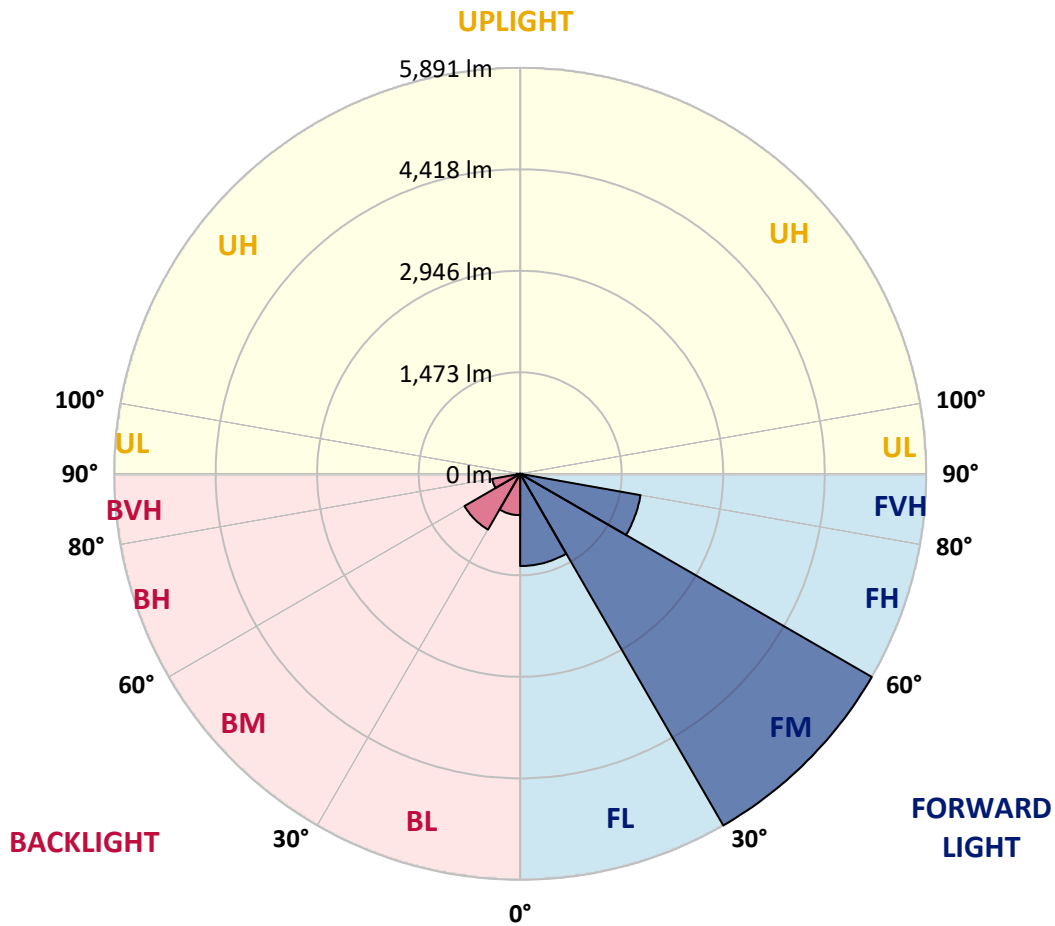
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1337.8	12.1			
FM (30°-60°)	5891.1	53.4			
FH (60°-80°)	1774.6	16.1			G1/1800
FVH (80°-90°)	37.3	0.3			G1/100
BL (0°-30°)	600.3	5.4	B2/1000		
BM (30°-60°)	933.5	8.5	B1/1000		
BH (60°-80°)	412.5	3.7	B1/500		G1/500
BVH (80°-90°)	51.0	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8
2.5°	3173.2	3170.9	3183.5	3140.7	3111.6	3072.2	3020.3	2954.1	2882.7	2807.4
5°	3459.1	3439.1	3452.2	3420.3	3388.3	3329.0	3251.9	3144.1	3012.3	2862.2
7.5°	3414.0	3400.3	3434.0	3462.5	3486.4	3479.0	3422.5	3309.6	3139.5	2921.5
10°	3050.5	3035.1	3082.5	3181.2	3326.1	3452.2	3520.7	3450.5	3269.6	2986.6
12.5°	2729.8	2722.4	2753.8	2833.7	2994.6	3236.5	3508.1	3573.8	3404.9	3063.6
15°	2592.9	2583.7	2603.7	2644.2	2746.9	2972.3	3394.0	3658.2	3537.8	3152.6
17.5°	2562.6	2552.4	2560.9	2582.0	2648.2	2820.0	3221.7	3699.9	3676.5	3251.9
20°	2618.5	2610.0	2611.1	2610.0	2656.2	2792.6	3101.9	3683.9	3797.4	3343.2
22.5°	2753.8	2739.5	2740.1	2709.8	2735.0	2840.5	3070.5	3641.1	3905.3	3423.1
25°	2974.0	2948.4	2953.5	2876.5	2869.6	2947.8	3119.5	3608.0	4012.6	3487.0
27.5°	3275.3	3246.2	3230.8	3116.1	3061.3	3100.1	3219.4	3619.4	4114.1	3542.4
30°	3651.9	3616.5	3585.2	3422.5	3323.3	3309.0	3374.6	3694.7	4234.0	3600.6
32.5°	4113.6	4072.5	4015.4	3799.7	3659.9	3585.2	3575.5	3828.8	4374.3	3674.8
35°	4663.1	4609.4	4528.4	4249.4	4072.5	3919.5	3840.2	4022.3	4566.6	3786.6
37.5°	5229.1	5168.6	5094.4	4762.3	4544.9	4319.5	4163.2	4284.7	4822.8	3938.4
40°	5751.2	5683.3	5614.3	5318.7	5085.3	4813.7	4558.6	4616.8	5136.1	4119.8
42.5°	6059.3	6009.1	5982.9	5823.1	5642.8	5367.2	5050.5	5010.6	5488.2	4328.7
45°	6045.7	6025.1	6106.1	6172.3	6129.5	5976.6	5626.8	5445.9	5841.4	4509.6
47.5°	5722.7	5736.4	5917.3	6289.3	6453.1	6533.0	6283.0	5873.3	6148.4	4644.8
50°	4843.9	4855.4	5274.2	6076.5	6536.4	6986.6	6934.1	6290.4	6386.3	4727.5
52.5°	4148.4	4155.8	4335.5	5445.4	6261.3	7214.8	7520.7	6683.6	6560.3	4750.4
55°	3124.7	3150.4	3351.8	4272.2	5545.8	7034.0	7877.9	7088.7	6670.5	4752.6
57.5°	1825.4	1853.4	2102.1	2899.9	4310.4	6403.4	7932.1	7448.2	6745.2	4734.4
60°	894.2	906.1	1014.6	1524.1	2657.9	5188.6	7496.2	7622.3	6786.9	4724.7
62.5°	602.6	600.9	605.4	752.1	1309.6	3333.5	6587.7	7317.5	6764.6	4687.6
65°	518.1	511.8	494.7	527.8	678.5	1524.7	5089.9	6408.0	6595.2	4594.6
67.5°	447.9	448.5	449.1	438.8	484.5	703.6	3110.4	5047.6	5986.9	4154.1
70°	370.9	376.0	378.3	378.3	394.9	461.6	1327.8	3459.6	4722.4	3257.1
72.5°	337.8	327.0	328.1	322.4	322.4	351.5	534.7	1961.2	2975.2	1832.2
75°	275.6	282.5	283.6	279.6	266.5	268.2	317.3	822.8	1273.0	760.1
77.5°	237.9	237.9	240.2	237.4	227.1	200.9	211.7	319.0	433.1	311.6
80°	191.2	190.6	200.3	206.0	190.0	148.4	135.2	176.3	192.3	136.9
82.5°	93.0	98.7	137.5	156.9	144.4	107.3	82.7	109.6	102.7	60.5
85°	54.2	51.4	61.6	87.3	82.7	59.3	39.9	57.1	53.6	30.8
87.5°	17.1	16.0	12.6	29.7	24.0	16.5	10.8	16.5	14.8	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°
2765.8	0°	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8
2774.9	2.5°	2734.4	2667.0	2600.3	2539.2	2502.1	2478.2	2454.2	2427.4	2417.1	2401.7
2782.3	5°	2707.0	2576.9	2461.1	2361.2	2270.5	2199.1	2127.2	2069.0	2042.8	2060.5
2805.7	7.5°	2691.0	2502.7	2324.1	2140.9	1964.6	1823.7	1701.0	1614.8	1576.0	1585.7
2828.5	10°	2676.7	2418.8	2146.6	1857.3	1604.0	1429.4	1303.9	1238.2	1213.7	1218.8
2859.3	12.5°	2663.6	2324.7	1932.7	1552.1	1282.7	1167.5	1131.5	1132.1	1136.7	1140.1
2908.4	15°	2661.3	2211.1	1693.6	1285.0	1109.3	1101.9	1140.7	1165.2	1178.3	1182.3
2949.5	17.5°	2657.9	2075.3	1449.9	1103.0	1067.0	1117.3	1153.2	1169.2	1179.5	1180.0
2989.4	20°	2644.2	1903.0	1225.1	1016.3	1057.9	1101.3	1123.5	1136.1	1144.7	1147.5
3019.7	22.5°	2602.0	1711.3	1049.9	977.5	1021.4	1056.2	1082.5	1096.7	1101.9	1105.3
3025.4	25°	2526.1	1496.7	929.0	940.4	970.6	1014.6	1035.7	1038.5	1036.8	1041.9
3011.1	27.5°	2426.8	1266.8	853.6	890.2	929.0	966.6	978.0	976.3	972.9	978.6
2986.6	30°	2307.0	1060.2	805.7	833.7	886.7	921.0	931.2	927.2	920.4	926.7
2974.0	32.5°	2180.3	891.3	766.3	794.3	851.9	885.6	895.9	891.9	886.7	891.9
2988.3	35°	2062.2	773.2	729.8	768.0	824.5	857.6	870.8	871.3	871.3	877.6
3026.0	37.5°	1953.8	704.1	699.6	751.5	805.7	835.4	854.2	855.3	830.8	832.5
3089.9	40°	1853.4	675.0	685.9	740.7	787.4	816.0	817.1	753.2	708.1	707.0
3162.9	42.5°	1771.2	669.3	689.9	739.5	774.3	775.5	695.0	645.4	632.8	633.4
3230.2	45°	1694.2	667.6	699.0	739.5	754.9	669.9	615.7	602.6	603.7	608.3
3260.5	47.5°	1608.0	660.8	700.7	729.2	699.0	595.7	579.7	574.0	571.8	572.9
3253.6	50°	1513.8	636.2	679.0	708.7	603.1	563.8	543.8	542.1	544.9	546.6
3215.4	52.5°	1414.6	596.3	641.9	671.6	559.2	535.8	513.6	517.5	530.1	534.1
3175.5	55°	1349.5	549.5	592.9	597.4	528.4	509.6	490.7	499.9	523.3	530.7
3151.5	57.5°	1332.4	499.9	536.9	531.8	489.0	486.7	475.3	483.3	513.0	523.8
3150.4	60°	1327.2	455.3	482.2	478.2	450.8	461.6	458.8	462.8	473.0	476.5
3138.9	62.5°	1287.3	420.0	433.1	427.4	416.5	435.4	442.2	433.7	441.7	445.6
3060.8	65°	1185.7	391.4	385.2	381.2	385.7	402.9	416.5	399.4	406.8	418.3
2759.5	67.5°	1018.0	352.6	335.5	340.1	354.4	363.5	381.2	361.8	368.0	387.4
2222.5	70°	823.4	303.6	288.2	301.3	315.0	333.8	336.7	323.5	338.4	360.1
1356.3	72.5°	582.6	253.9	243.1	269.9	274.5	299.0	292.7	286.4	307.0	314.4
670.5	75°	404.0	204.9	198.6	219.1	235.7	256.8	252.2	259.6	303.0	306.4
335.0	77.5°	255.6	159.2	155.2	168.3	191.2	214.6	222.0	306.4	517.5	538.1
174.0	80°	148.4	118.7	114.1	124.4	144.4	166.0	214.0	376.0	341.2	337.2
78.2	82.5°	82.7	81.6	75.9	78.7	96.4	119.8	302.4	264.8	215.1	222.0
31.4	85°	38.8	47.9	41.1	39.4	54.2	140.4	202.0	151.2	100.4	98.1
6.8	87.5°	10.3	9.1	9.1	10.3	22.8	121.0	80.5	64.5	38.2	37.1
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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