

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: P950797

Luminaire Tested: **GALN-SB5A-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950797
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-SB5A-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14028 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

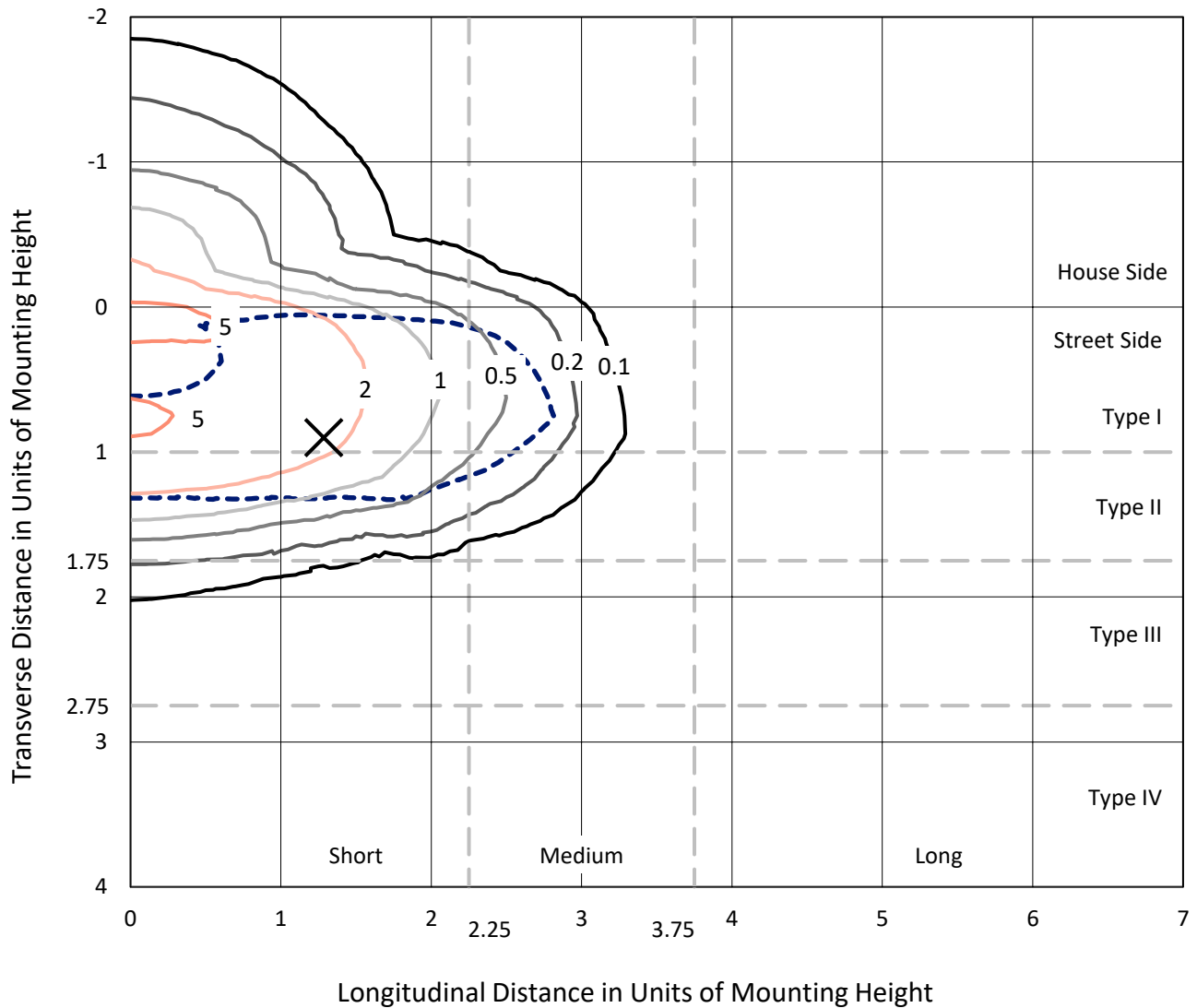
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

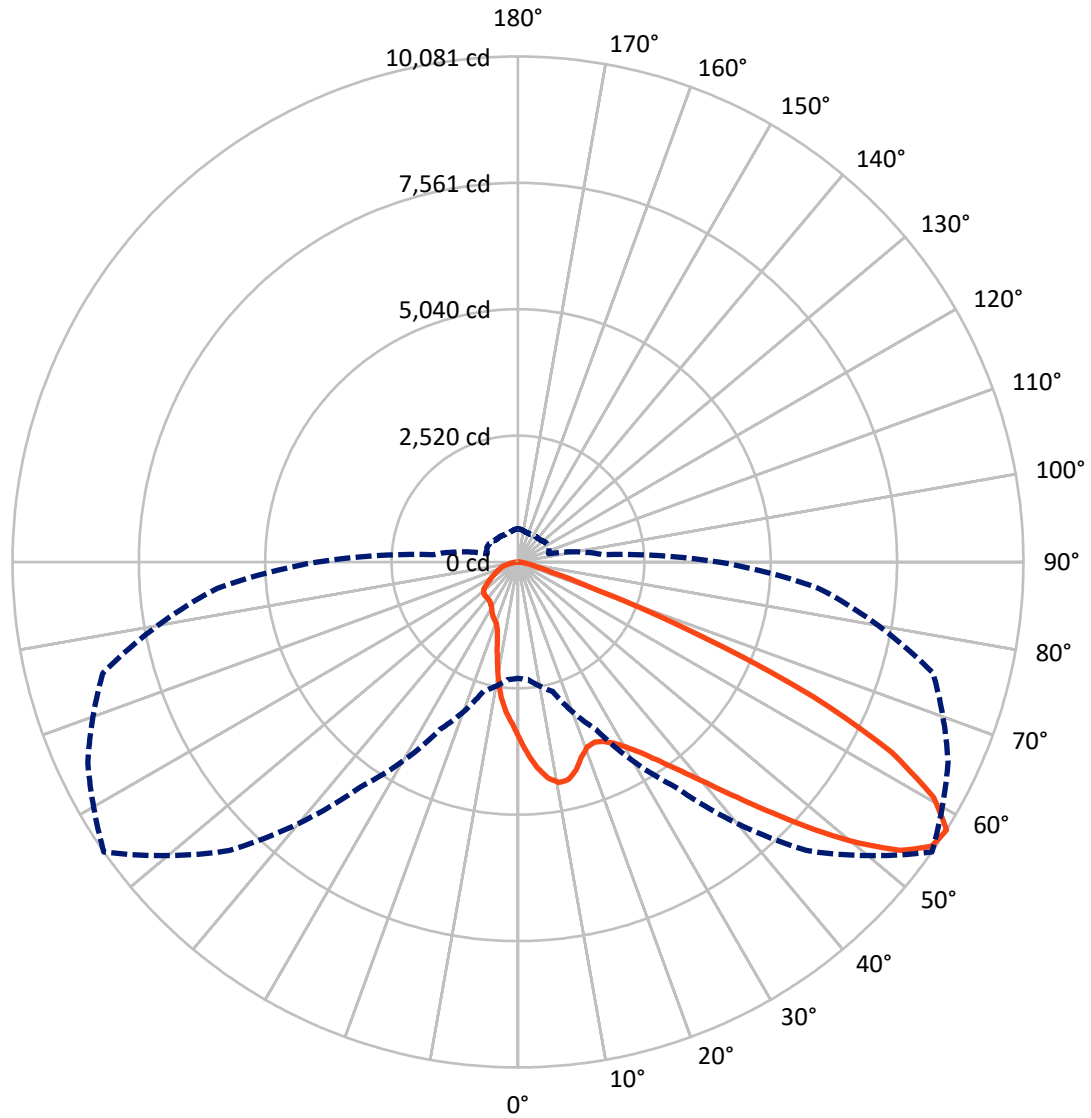
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	2538.3	0.0	2538.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11489.7	0.0	11489.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	14028.0	0.0	14028.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.2	2.3
10°-20°	823.3	5.9
20°-30°	1313.7	9.4
30°-40°	2079.9	14.8
40°-50°	3183.5	22.7
50°-60°	3409.8	24.3
60°-70°	2145.1	15.3
70°-80°	634.4	4.5
80°-90°	112.2	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°	14028.0	100.0
0°-180°	14028.0	100.0



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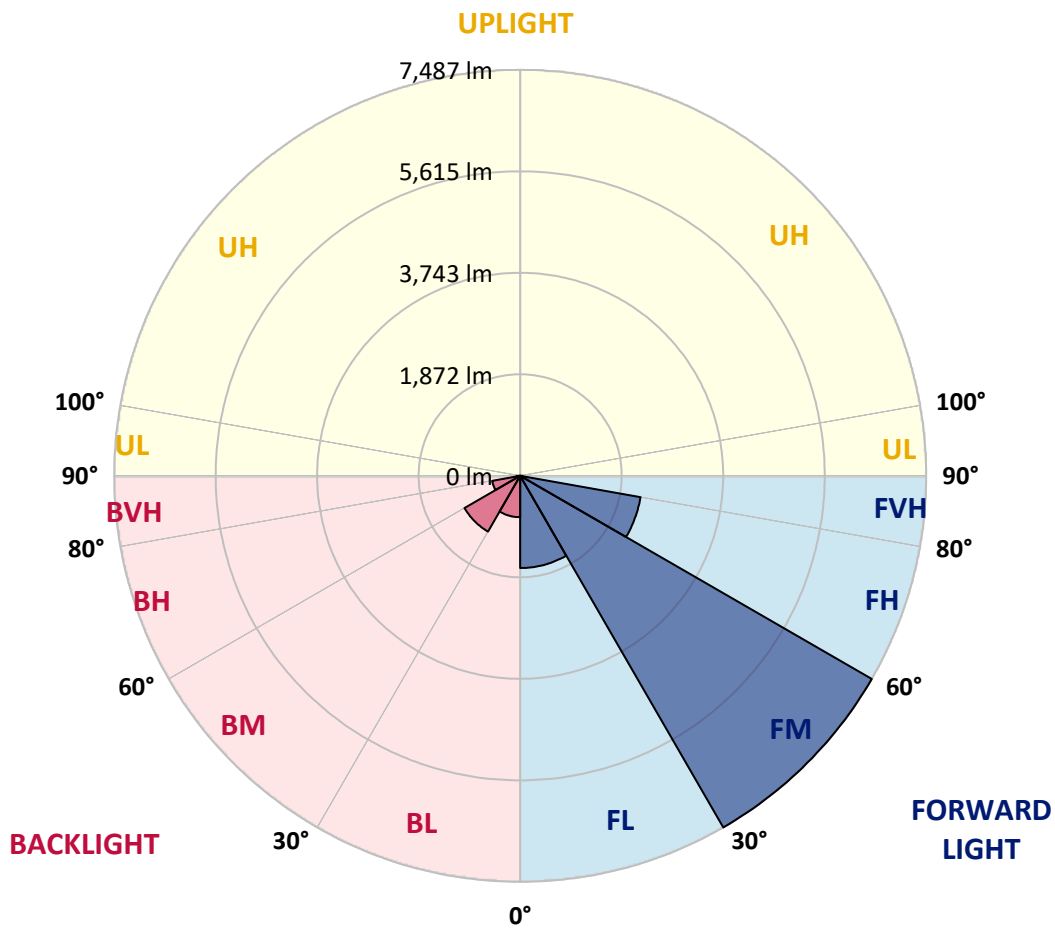
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1700.2	12.1			
FM (30°-60°)	7486.8	53.4			
FH (60°-80°)	2255.3	16.1			G2/5000
FVH (80°-90°)	47.4	0.3			G1/100
BL (0°-30°)	762.9	5.4	B2/1000		
BM (30°-60°)	1186.4	8.5	B2/2500		
BH (60°-80°)	524.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	64.8	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°	3515.0	3515.0	3515.0	3515.0	3515.0	3515.0	3515.0	3515.0	3515.0	3515.0
2.5°	4032.7	4029.8	4045.8	3991.4	3954.4	3904.4	3838.4	3754.3	3663.6	3567.9
5°	4396.1	4370.7	4387.4	4346.7	4306.1	4230.7	4132.8	3995.8	3828.2	3637.5
7.5°	4338.8	4321.4	4364.2	4400.4	4430.9	4421.4	4349.6	4206.1	3990.0	3712.9
10°	3876.8	3857.2	3917.4	4042.9	4227.1	4387.4	4474.4	4385.2	4155.3	3795.6
12.5°	3469.3	3459.8	3499.7	3601.3	3805.8	4113.2	4458.4	4541.8	4327.2	3893.5
15°	3295.2	3283.6	3309.0	3360.5	3491.0	3777.5	4313.4	4649.1	4496.1	4006.6
17.5°	3256.8	3243.7	3254.6	3281.5	3365.6	3583.9	4094.4	4702.1	4672.4	4132.8
20°	3327.9	3317.0	3318.4	3317.0	3375.7	3549.0	3942.1	4681.8	4826.1	4248.8
22.5°	3499.7	3481.6	3482.3	3443.9	3475.8	3610.0	3902.2	4627.4	4963.2	4350.4
25°	3779.7	3747.0	3753.5	3655.6	3646.9	3746.3	3964.6	4585.3	5099.5	4431.6
27.5°	4162.5	4125.6	4106.0	3960.2	3890.6	3939.9	4091.5	4599.8	5228.6	4501.9
30°	4641.2	4596.2	4556.3	4349.6	4223.5	4205.3	4288.7	4695.6	5380.9	4575.9
32.5°	5227.8	5175.6	5103.1	4829.0	4651.3	4556.3	4544.0	4866.0	5559.3	4670.2
35°	5926.2	5858.0	5755.1	5400.4	5175.6	4981.3	4880.5	5111.8	5803.6	4812.3
37.5°	6645.6	6568.7	6474.4	6052.4	5776.1	5489.6	5290.9	5445.4	6129.2	5005.2
40°	7309.1	7222.8	7135.1	6759.4	6462.8	6117.6	5793.5	5867.5	6527.4	5235.8
42.5°	7700.7	7636.9	7603.5	7400.5	7171.3	6821.1	6418.6	6367.8	6974.8	5501.2
45°	7683.3	7657.2	7760.2	7844.3	7789.9	7595.6	7151.0	6921.1	7423.7	5731.1
47.5°	7272.9	7290.3	7520.1	7993.0	8201.1	8302.6	7985.0	7464.3	7813.8	5903.0
50°	6156.1	6170.6	6702.9	7722.5	8307.0	8879.1	8812.4	7994.4	8116.2	6008.1
52.5°	5272.1	5281.5	5509.9	6920.4	7957.4	9169.2	9557.9	8494.1	8337.4	6037.1
55°	3971.1	4003.7	4259.7	5429.4	7048.1	8939.3	10011.9	9008.9	8477.4	6040.0
57.5°	2319.9	2355.4	2671.6	3685.4	5478.0	8138.0	10080.8	9465.8	8572.4	6016.8
60°	1136.4	1151.6	1289.4	1937.0	3377.9	6594.1	9526.7	9687.0	8625.3	6004.5
62.5°	765.8	763.6	769.4	955.8	1664.3	4236.5	8372.2	9299.7	8597.0	5957.4
65°	658.5	650.5	628.7	670.8	862.2	1937.7	6468.6	8143.8	8381.7	5839.2
67.5°	569.3	570.0	570.7	557.7	615.7	894.2	3953.0	6415.0	7608.6	5279.3
70°	471.4	477.9	480.8	480.8	501.8	586.7	1687.5	4396.8	6001.6	4139.3
72.5°	429.3	415.5	417.0	409.7	409.7	446.7	679.5	2492.5	3781.1	2328.6
75°	350.3	359.0	360.4	355.3	338.7	340.8	403.2	1045.7	1617.9	965.9
77.5°	302.4	302.4	305.3	301.7	288.6	255.3	269.0	405.4	550.4	395.9
80°	242.9	242.2	254.5	261.8	241.5	188.5	171.9	224.1	244.4	174.0
82.5°	118.2	125.5	174.8	199.4	183.5	136.3	105.2	139.2	130.5	76.9
85°	68.9	65.3	78.3	111.0	105.2	75.4	50.8	72.5	68.2	39.2
87.5°	21.8	20.3	16.0	37.7	30.5	21.0	13.8	21.0	18.9	8.7
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°
3515.0	0°	3515.0	3515.0	3515.0	3515.0	3515.0	3515.0	3515.0	3515.0	3515.0	3515.0
3526.6	2.5°	3475.1	3389.5	3304.7	3227.1	3179.9	3149.5	3119.0	3084.9	3071.9	3052.3
3536.0	5°	3440.3	3274.9	3127.7	3000.8	2885.5	2794.9	2703.5	2629.5	2596.2	2618.6
3565.7	7.5°	3420.0	3180.7	2953.7	2720.9	2496.8	2317.7	2161.8	2052.3	2003.0	2015.3
3594.7	10°	3401.8	3074.1	2728.1	2360.5	2038.5	1816.6	1657.0	1573.6	1542.5	1549.0
3633.9	12.5°	3385.2	2954.4	2456.2	1972.5	1630.2	1483.7	1438.0	1438.8	1444.6	1448.9
3696.3	15°	3382.3	2810.1	2152.3	1633.1	1409.8	1400.3	1449.6	1480.8	1497.5	1502.6
3748.5	17.5°	3377.9	2637.5	1842.7	1401.8	1356.1	1419.9	1465.6	1485.9	1499.0	1499.7
3799.2	20°	3360.5	2418.5	1557.0	1291.6	1344.5	1399.6	1427.9	1443.8	1454.7	1458.3
3837.7	22.5°	3306.8	2174.8	1334.3	1242.2	1298.1	1342.3	1375.7	1393.8	1400.3	1404.7
3844.9	25°	3210.4	1902.2	1180.6	1195.1	1233.5	1289.4	1316.2	1319.8	1317.7	1324.2
3826.8	27.5°	3084.2	1609.9	1084.9	1131.3	1180.6	1228.5	1243.0	1240.8	1236.4	1243.7
3795.6	30°	2931.9	1347.4	1024.0	1059.5	1126.9	1170.4	1183.5	1178.4	1169.7	1177.7
3779.7	32.5°	2770.9	1132.7	973.9	1009.5	1082.7	1125.5	1138.5	1133.5	1126.9	1133.5
3797.8	35°	2620.8	982.6	927.5	976.1	1047.9	1089.9	1106.6	1107.4	1107.4	1115.3
3845.6	37.5°	2483.0	894.9	889.1	955.1	1024.0	1061.7	1085.6	1087.0	1055.9	1058.0
3926.9	40°	2355.4	857.9	871.7	941.3	1000.8	1037.0	1038.5	957.2	900.0	898.5
4019.7	42.5°	2251.0	850.6	876.7	939.8	984.1	985.5	883.3	820.2	804.2	805.0
4105.3	45°	2153.1	848.5	888.3	939.8	959.4	851.4	782.5	765.8	767.2	773.0
4143.7	47.5°	2043.6	839.8	890.5	926.8	888.3	757.1	736.8	729.5	726.6	728.1
4135.0	50°	1923.9	808.6	863.0	900.7	766.5	716.5	691.1	688.9	692.5	694.7
4086.4	52.5°	1797.7	757.8	815.8	853.5	710.7	680.9	652.7	657.7	673.7	678.8
4035.6	55°	1715.1	698.4	753.5	759.3	671.5	647.6	623.7	635.3	665.0	674.4
4005.2	57.5°	1693.3	635.3	682.4	675.9	621.5	618.6	604.1	614.2	651.9	665.7
4003.7	60°	1686.8	578.7	612.8	607.7	572.9	586.7	583.0	588.1	601.2	605.5
3989.2	62.5°	1636.0	533.7	550.4	543.2	529.4	553.3	562.0	551.1	561.3	566.4
3889.9	65°	1506.9	497.5	489.5	484.4	490.2	512.0	529.4	507.6	517.1	531.6
3507.0	67.5°	1293.7	448.2	426.4	432.2	450.3	461.9	484.4	459.8	467.7	492.4
2824.6	70°	1046.4	385.8	366.2	382.9	400.3	424.2	427.9	411.2	430.0	457.6
1723.8	72.5°	740.4	322.7	308.9	343.0	348.8	380.0	372.0	364.0	390.1	399.6
852.1	75°	513.4	260.3	252.4	278.5	299.5	326.3	320.5	330.0	385.1	389.4
425.7	77.5°	324.9	202.3	197.2	213.9	242.9	272.7	282.1	389.4	657.7	683.8
221.2	80°	188.5	150.8	145.0	158.1	183.5	211.0	271.9	477.9	433.7	428.6
99.4	82.5°	105.2	103.7	96.4	100.1	122.6	152.3	384.3	336.5	273.4	282.1
39.9	85°	49.3	60.9	52.2	50.0	68.9	178.4	256.7	192.2	127.6	124.7
8.7	87.5°	13.1	11.6	11.6	13.1	29.0	153.7	102.3	81.9	48.6	47.1
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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