

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: P947668

Luminaire Tested: **GALN-SB2D-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947668
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-SB2D-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14398 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

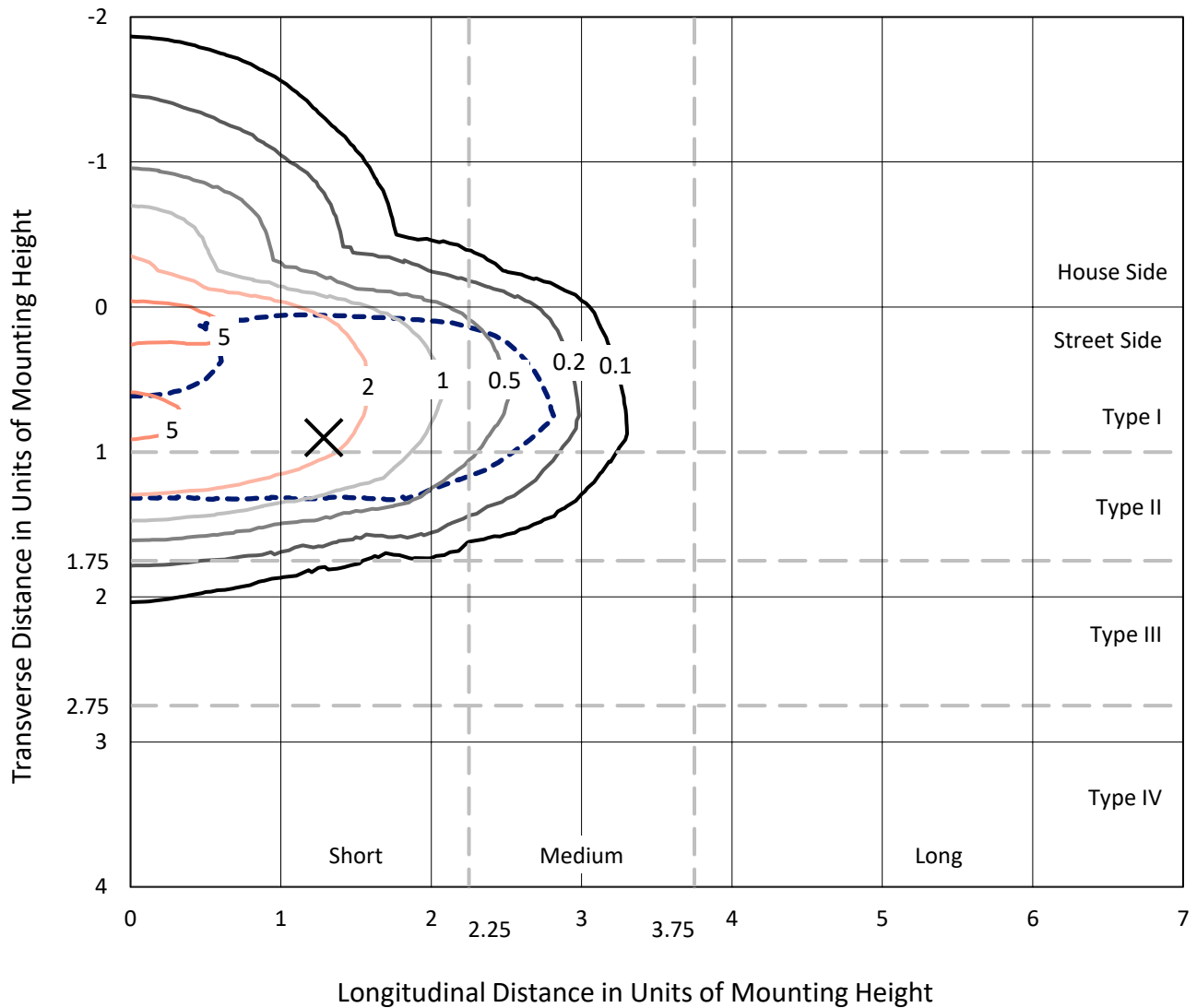
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947668
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Iso-Footcandle Lines of Horizontal Illumination

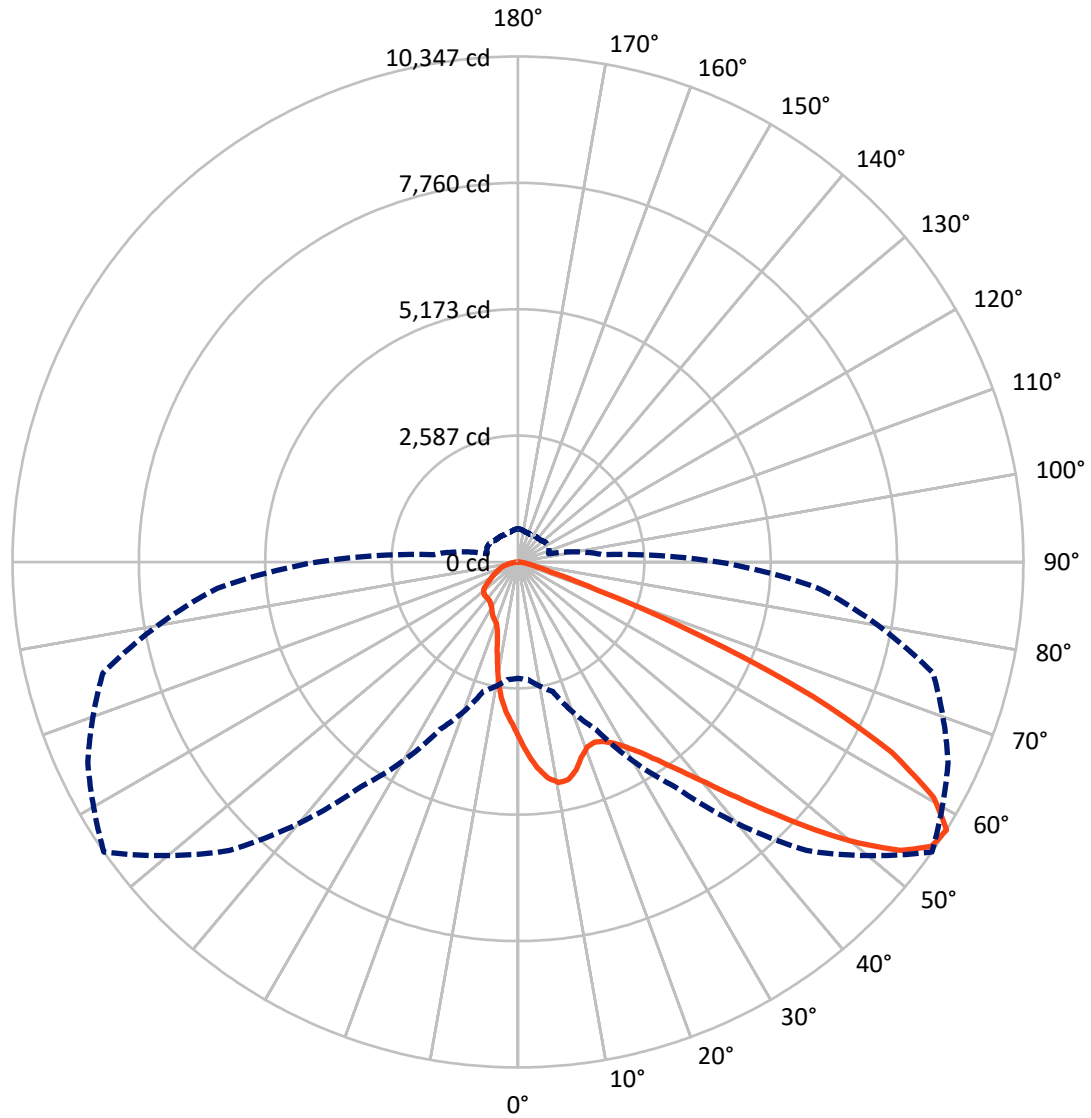
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SB2D-950-U-AFL

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	2605.2	0.0	2605.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11792.8	0.0	11792.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	14398.0	0.0	14398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.8	2.3
10°-20°	845.0	5.9
20°-30°	1348.3	9.4
30°-40°	2134.8	14.8
40°-50°	3267.5	22.7
50°-60°	3499.8	24.3
60°-70°	2201.7	15.3
70°-80°	651.1	4.5
80°-90°	115.1	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°	14398.0	100.0
0°-180°	14398.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947668

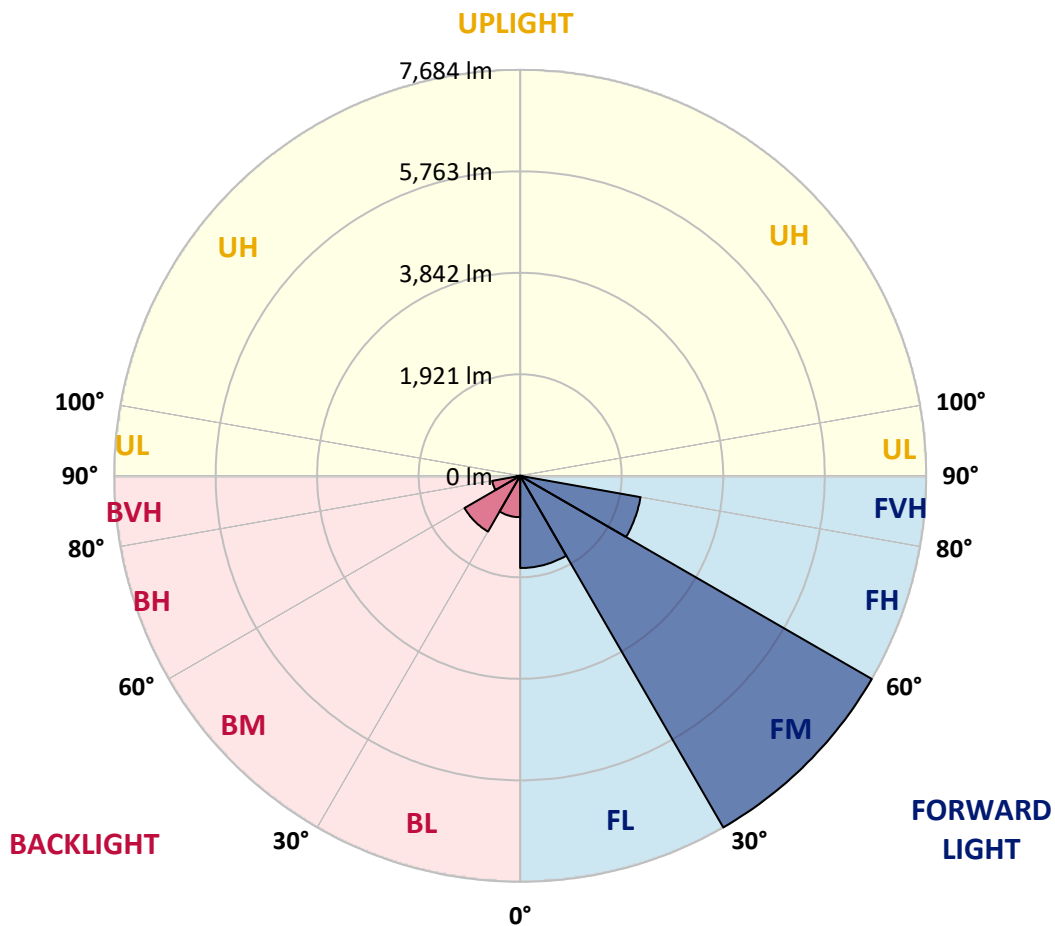
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1745.0	12.1			
FM (30°-60°)	7684.3	53.4			
FH (60°-80°)	2314.8	16.1			G2/5000
FVH (80°-90°)	48.6	0.3			G1/100
BL (0°-30°)	783.1	5.4	B2/1000		
BM (30°-60°)	1217.7	8.5	B2/2500		
BH (60°-80°)	538.0	3.7	B2/1000		G2/1000
BVH (80°-90°)	66.5	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



REPORT NUMBER: P947668

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7
2.5°	4139.1	4136.1	4152.5	4096.7	4058.7	4007.4	3939.6	3853.3	3760.3	3662.0
5°	4512.0	4486.0	4503.1	4461.4	4419.7	4342.3	4241.8	4101.1	3929.2	3733.5
7.5°	4453.2	4435.3	4479.3	4516.5	4547.7	4538.1	4464.4	4317.0	4095.2	3810.9
10°	3979.1	3959.0	4020.8	4149.5	4338.6	4503.1	4592.4	4500.8	4264.9	3895.7
12.5°	3560.8	3551.1	3592.0	3696.2	3906.1	4221.7	4576.0	4661.6	4441.3	3996.2
15°	3382.1	3370.2	3396.3	3449.1	3583.1	3877.1	4427.2	4771.8	4614.7	4112.3
17.5°	3342.7	3329.3	3340.5	3368.0	3454.3	3678.4	4202.4	4826.1	4795.6	4241.8
20°	3415.6	3404.5	3406.0	3404.5	3464.8	3642.7	4046.1	4805.3	4953.4	4360.9
22.5°	3592.0	3573.4	3574.2	3534.7	3567.5	3705.2	4005.1	4749.4	5094.1	4465.1
25°	3879.3	3845.9	3852.5	3752.1	3743.1	3845.1	4069.1	4706.3	5234.0	4548.5
27.5°	4272.3	4234.4	4214.3	4064.7	3993.2	4043.8	4199.4	4721.2	5366.5	4620.7
30°	4763.6	4717.4	4676.5	4464.4	4334.9	4316.3	4401.9	4819.4	5522.8	4696.6
32.5°	5365.7	5312.1	5237.7	4956.4	4774.0	4676.5	4663.8	4994.3	5705.9	4793.4
35°	6082.5	6012.5	5906.8	5542.9	5312.1	5112.7	5009.2	5246.6	5956.7	4939.2
37.5°	6820.9	6742.0	6645.2	6212.0	5928.4	5634.4	5430.5	5589.0	6290.9	5137.2
40°	7501.9	7413.3	7323.3	6937.7	6633.3	6279.0	5946.3	6022.2	6699.5	5373.9
42.5°	7903.8	7838.3	7804.1	7595.7	7360.5	7001.0	6587.9	6535.8	7158.8	5646.3
45°	7886.0	7859.2	7964.9	8051.2	7995.4	7795.9	7339.6	7103.7	7619.5	5882.3
47.5°	7464.7	7482.6	7718.5	8203.8	8417.4	8521.6	8195.6	7661.2	8019.9	6058.7
50°	6318.4	6333.3	6879.7	7926.2	8526.1	9113.3	9044.9	8205.3	8330.3	6166.6
52.5°	5411.1	5420.8	5655.3	7103.0	8167.3	9411.1	9810.0	8718.1	8557.3	6196.4
55°	4075.8	4109.3	4372.1	5572.7	7234.0	9175.1	10275.9	9246.6	8701.0	6199.4
57.5°	2381.0	2417.5	2742.0	3782.6	5622.5	8352.6	10346.7	9715.5	8798.5	6175.5
60°	1166.3	1182.0	1323.4	1988.1	3467.0	6768.0	9778.0	9942.5	8852.8	6162.9
62.5°	786.0	783.8	789.7	981.0	1708.2	4348.3	8593.1	9545.0	8823.8	6114.5
65°	675.8	667.6	645.3	688.5	885.0	1988.8	6639.2	8358.6	8602.7	5993.2
67.5°	584.3	585.0	585.8	572.4	631.9	917.7	4057.2	6584.2	7809.3	5418.6
70°	483.8	490.5	493.5	493.5	515.1	602.1	1732.0	4512.8	6159.9	4248.5
72.5°	440.6	426.5	428.0	420.5	420.5	458.5	697.4	2558.2	3880.8	2390.0
75°	359.5	368.4	369.9	364.7	347.6	349.8	413.8	1073.3	1660.6	991.4
77.5°	310.4	310.4	313.4	309.6	296.2	262.0	276.1	416.1	564.9	406.4
80°	249.3	248.6	261.3	268.7	247.9	193.5	176.4	230.0	250.8	178.6
82.5°	121.3	128.8	179.4	204.7	188.3	139.9	107.9	142.9	134.0	78.9
85°	70.7	67.0	80.4	113.9	107.9	77.4	52.1	74.4	70.0	40.2
87.5°	22.3	20.8	16.4	38.7	31.3	21.6	14.1	21.6	19.4	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947668
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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3607.7	0°	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7
3619.6	2.5°	3566.7	3478.9	3391.8	3312.2	3263.8	3232.5	3201.3	3166.3	3152.9	3132.8
3629.3	5°	3531.0	3361.3	3210.2	3080.0	2961.6	2868.6	2774.8	2698.9	2664.6	2687.7
3659.8	7.5°	3510.2	3264.5	3031.6	2792.7	2562.7	2378.8	2218.8	2106.4	2055.8	2068.4
3689.5	10°	3491.6	3155.1	2800.1	2422.7	2092.3	1864.5	1700.7	1615.2	1583.1	1589.8
3729.7	12.5°	3474.4	3032.3	2521.0	2024.5	1673.2	1522.9	1476.0	1476.7	1482.7	1487.1
3793.7	15°	3471.5	2884.2	2209.1	1676.2	1446.9	1437.3	1487.9	1519.9	1537.0	1542.2
3847.3	17.5°	3467.0	2707.1	1891.3	1438.8	1391.9	1457.4	1504.3	1525.1	1538.5	1539.2
3899.4	20°	3449.1	2482.3	1598.0	1325.6	1380.0	1436.5	1465.5	1481.9	1493.1	1496.8
3938.9	22.5°	3394.1	2232.2	1369.5	1275.0	1332.3	1377.7	1412.0	1430.6	1437.3	1441.7
3946.3	25°	3295.1	1952.3	1211.7	1226.6	1266.1	1323.4	1350.9	1354.6	1352.4	1359.1
3927.7	27.5°	3165.6	1652.4	1113.5	1161.1	1211.7	1260.9	1275.7	1273.5	1269.0	1276.5
3895.7	30°	3009.2	1382.9	1051.0	1087.4	1156.7	1201.3	1214.7	1209.5	1200.6	1208.8
3879.3	32.5°	2844.0	1162.6	999.6	1036.1	1111.3	1155.2	1168.6	1163.4	1156.7	1163.4
3898.0	35°	2689.9	1008.5	952.0	1001.8	1075.5	1118.7	1135.8	1136.6	1136.6	1144.7
3947.1	37.5°	2548.5	918.5	912.5	980.3	1051.0	1089.7	1114.2	1115.7	1083.7	1085.9
4030.4	40°	2417.5	880.5	894.7	966.1	1027.1	1064.4	1065.9	982.5	923.7	922.2
4125.7	42.5°	2310.3	873.1	899.9	964.6	1010.0	1011.5	906.6	841.8	825.4	826.2
4213.5	45°	2209.9	870.8	911.8	964.6	984.7	873.8	803.1	786.0	787.5	793.4
4253.0	47.5°	2097.5	861.9	914.0	951.2	911.8	777.1	756.2	748.8	745.8	747.3
4244.1	50°	1974.7	829.9	885.7	924.4	786.7	735.4	709.3	707.1	710.8	713.0
4194.2	52.5°	1845.1	777.8	837.3	876.1	729.4	698.9	669.9	675.1	691.5	696.7
4142.1	55°	1760.3	716.8	773.3	779.3	689.2	664.7	640.1	652.0	682.5	692.2
4110.8	57.5°	1738.0	652.0	700.4	693.7	637.9	634.9	620.0	630.4	669.1	683.3
4109.3	60°	1731.3	594.0	628.9	623.7	588.0	602.1	598.4	603.6	617.0	621.5
4094.5	62.5°	1679.2	547.8	564.9	557.5	543.3	567.9	576.8	565.7	576.1	581.3
3992.5	65°	1546.7	510.6	502.4	497.2	503.2	525.5	543.3	521.0	530.7	545.6
3599.5	67.5°	1327.8	460.0	437.7	443.6	462.2	474.1	497.2	471.9	480.1	505.4
2899.1	70°	1074.0	396.0	375.9	393.0	410.9	435.4	439.1	422.0	441.4	469.7
1769.2	72.5°	759.9	331.2	317.1	352.1	358.0	390.0	381.8	373.6	400.4	410.1
874.6	75°	527.0	267.2	259.0	285.8	307.4	334.9	329.0	338.7	395.2	399.7
436.9	77.5°	333.5	207.7	202.5	219.6	249.3	279.9	289.5	399.7	675.1	701.9
227.0	80°	193.5	154.8	148.9	162.3	188.3	216.6	279.1	490.5	445.1	439.9
102.0	82.5°	107.9	106.4	99.0	102.7	125.8	156.3	394.5	345.4	280.6	289.5
40.9	85°	50.6	62.5	53.6	51.4	70.7	183.1	263.5	197.2	131.0	128.0
8.9	87.5°	13.4	11.9	11.9	13.4	29.8	157.8	104.9	84.1	49.9	48.4
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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