

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: P949726

Luminaire Tested: **GALN-SB4B-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949726
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-SB4B-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13971 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

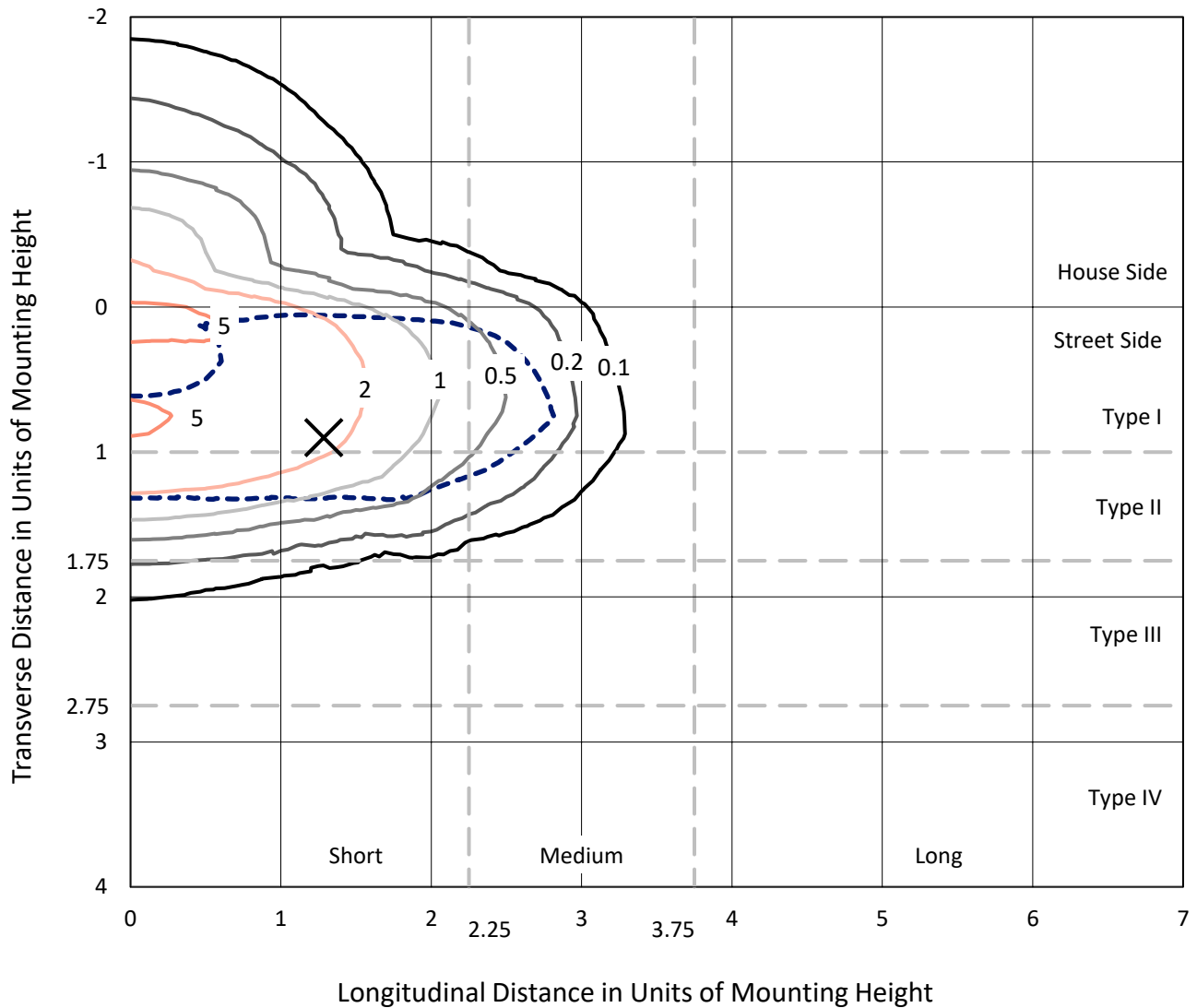
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

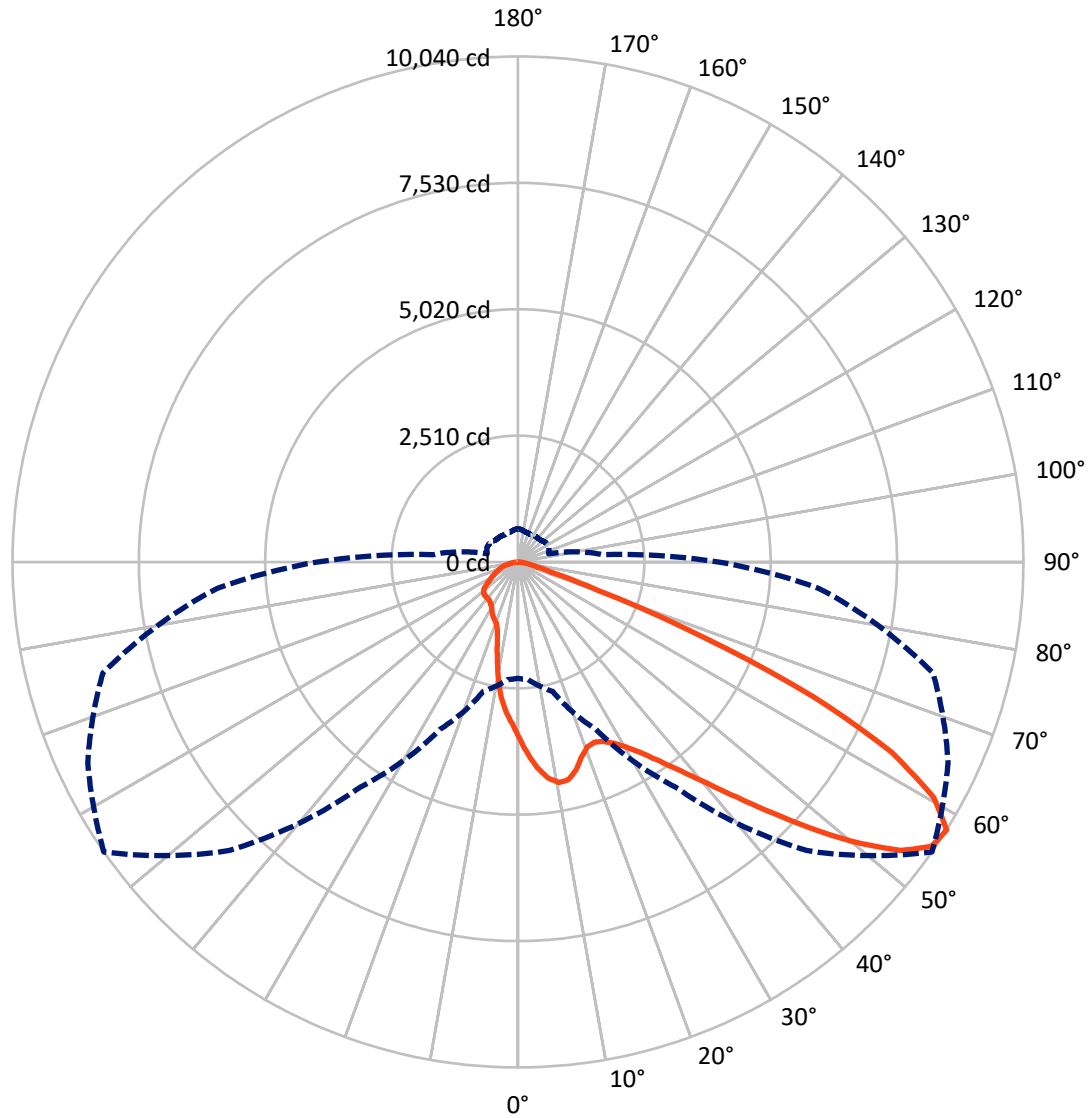
✕ Max cd
 - - - 1/2 Max cd



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	2528.0	0.0	2528.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11443.0	0.0	11443.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	13971.0	0.0	13971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	2.3
10°-20°	819.9	5.9
20°-30°	1308.4	9.4
30°-40°	2071.4	14.8
40°-50°	3170.6	22.7
50°-60°	3396.0	24.3
60°-70°	2136.4	15.3
70°-80°	631.8	4.5
80°-90°	111.7	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°	13971.0	100.0
0°-180°	13971.0	100.0

Coefficient of Utilization



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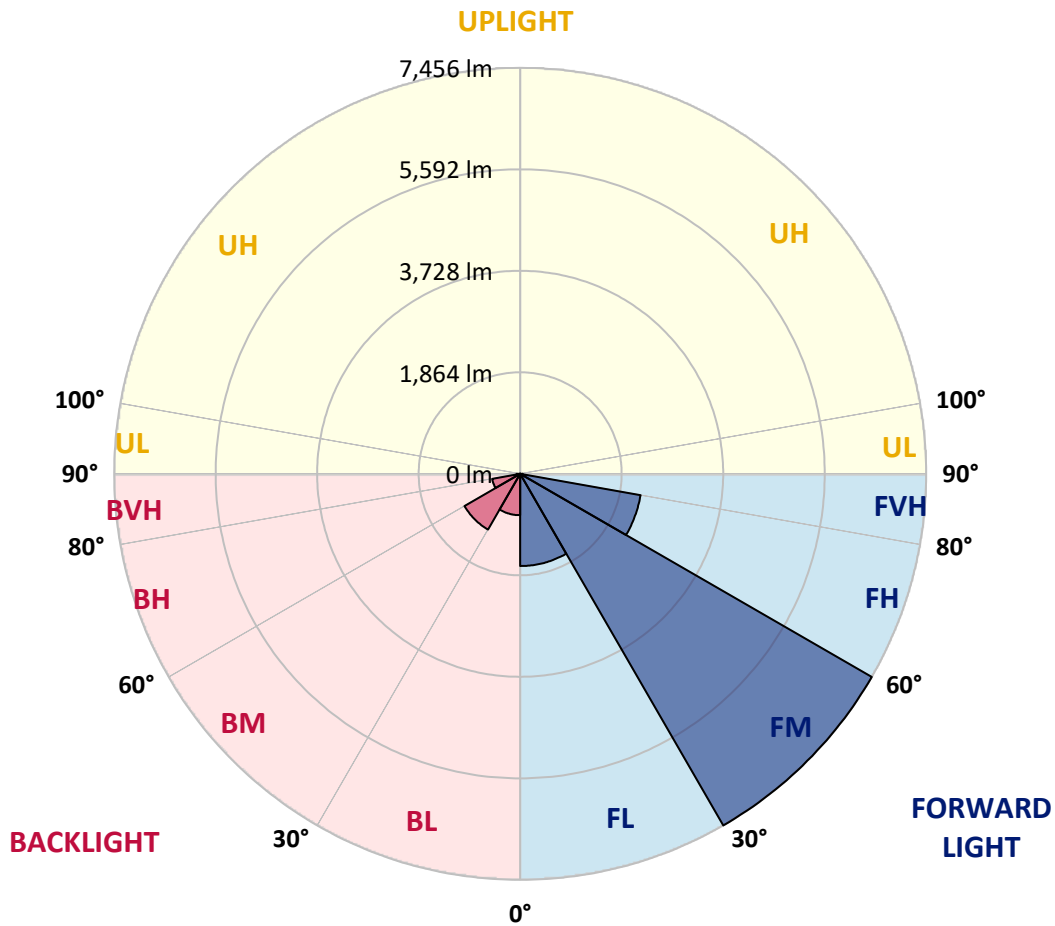
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1693.3	12.1			
FM (30°-60°)	7456.4	53.4			
FH (60°-80°)	2246.1	16.1			G2/5000
FVH (80°-90°)	47.2	0.3			G1/100
BL (0°-30°)	759.8	5.4	B2/1000		
BM (30°-60°)	1181.6	8.5	B2/2500		
BH (60°-80°)	522.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	64.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7
2.5°	4016.4	4013.5	4029.4	3975.2	3938.4	3888.5	3822.8	3739.0	3648.7	3553.4
5°	4378.2	4352.9	4369.5	4329.1	4288.6	4213.5	4116.0	3979.5	3812.7	3622.7
7.5°	4321.1	4303.8	4346.4	4382.5	4412.9	4403.5	4332.0	4189.0	3973.7	3697.8
10°	3861.1	3841.6	3901.5	4026.5	4209.9	4369.5	4456.2	4367.4	4138.4	3780.2
12.5°	3455.2	3445.8	3485.5	3586.6	3790.3	4096.5	4440.3	4523.4	4309.6	3877.7
15°	3281.8	3270.3	3295.6	3346.8	3476.8	3762.1	4295.9	4630.3	4477.9	3990.4
17.5°	3243.6	3230.6	3241.4	3268.1	3351.9	3569.3	4077.7	4683.0	4653.4	4116.0
20°	3314.3	3303.5	3305.0	3303.5	3362.0	3534.6	3926.1	4662.8	4806.5	4231.6
22.5°	3485.5	3467.5	3468.2	3429.9	3461.7	3595.3	3886.4	4608.6	4943.0	4332.7
25°	3764.3	3731.8	3738.3	3640.8	3632.1	3731.1	3948.5	4566.7	5078.8	4413.6
27.5°	4145.6	4108.8	4089.3	3944.1	3874.8	3923.9	4074.9	4581.1	5207.3	4483.6
30°	4622.3	4577.5	4537.8	4332.0	4206.3	4188.2	4271.3	4676.5	5359.0	4557.3
32.5°	5206.6	5154.6	5082.4	4809.4	4632.4	4537.8	4525.5	4846.2	5536.7	4651.2
35°	5902.1	5834.2	5731.7	5378.5	5154.6	4961.0	4860.6	5091.0	5780.1	4792.8
37.5°	6618.6	6542.0	6448.1	6027.8	5752.6	5467.3	5269.4	5423.3	6104.3	4984.9
40°	7279.4	7193.5	7106.1	6732.0	6436.6	6092.8	5769.9	5843.6	6500.8	5214.5
42.5°	7669.4	7605.9	7572.6	7370.4	7142.2	6793.4	6392.5	6342.0	6946.5	5478.9
45°	7652.1	7626.1	7728.7	7812.4	7758.3	7564.7	7122.0	6893.0	7393.5	5707.8
47.5°	7243.3	7260.6	7489.6	7960.5	8167.8	8268.9	7952.5	7434.0	7782.1	5879.0
50°	6131.1	6145.5	6675.6	7691.1	8273.2	8843.1	8776.6	7961.9	8083.3	5983.7
52.5°	5250.7	5260.0	5487.6	6892.3	7925.1	9132.0	9519.1	8459.6	8303.6	6012.6
55°	3955.0	3987.5	4242.4	5407.4	7019.4	8903.0	9971.2	8972.3	8442.9	6015.5
57.5°	2310.4	2345.8	2660.7	3670.4	5455.8	8104.9	10039.8	9427.3	8537.6	5992.4
60°	1131.7	1146.9	1284.1	1929.1	3364.2	6567.3	9488.0	9647.6	8590.3	5980.1
62.5°	762.7	760.5	766.3	951.9	1657.5	4219.3	8338.2	9262.0	8562.1	5933.2
65°	655.8	647.8	626.2	668.1	858.7	1929.8	6442.3	8110.7	8347.6	5815.4
67.5°	567.0	567.7	568.4	555.4	613.2	890.5	3936.9	6388.9	7577.7	5257.9
70°	469.5	476.0	478.8	478.8	499.8	584.3	1680.6	4378.9	5977.2	4122.5
72.5°	427.6	413.8	415.3	408.1	408.1	444.9	676.7	2482.3	3765.7	2319.1
75°	348.8	357.5	359.0	353.9	337.3	339.5	401.6	1041.5	1611.3	962.0
77.5°	301.2	301.2	304.1	300.5	287.5	254.2	267.9	403.7	548.2	394.3
80°	241.9	241.2	253.5	260.7	240.5	187.8	171.2	223.2	243.4	173.3
82.5°	117.7	124.9	174.1	198.6	182.7	135.8	104.7	138.7	130.0	76.6
85°	68.6	65.0	78.0	110.5	104.7	75.1	50.6	72.2	67.9	39.0
87.5°	21.7	20.2	15.9	37.6	30.3	20.9	13.7	20.9	18.8	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°
3500.7	0°	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7
3512.2	2.5°	3461.0	3375.7	3291.2	3214.0	3167.0	3136.7	3106.3	3072.4	3059.4	3039.9
3521.6	5°	3426.3	3261.6	3115.0	2988.6	2873.8	2783.5	2692.5	2618.8	2585.6	2608.0
3551.2	7.5°	3406.1	3167.7	2941.7	2709.8	2486.7	2308.3	2153.0	2043.9	1994.8	2007.1
3580.1	10°	3388.0	3061.6	2717.1	2350.9	2030.2	1809.2	1650.3	1567.3	1536.2	1542.7
3619.1	12.5°	3371.4	2942.4	2446.2	1964.5	1623.6	1477.7	1432.2	1432.9	1438.7	1443.0
3681.2	15°	3368.5	2798.7	2143.6	1626.5	1404.0	1394.6	1443.8	1474.8	1491.4	1496.5
3733.2	17.5°	3364.2	2626.8	1835.2	1396.1	1350.6	1414.1	1459.6	1479.9	1492.9	1493.6
3783.8	20°	3346.8	2408.7	1550.6	1286.3	1339.0	1393.9	1422.1	1438.0	1448.8	1452.4
3822.1	22.5°	3293.4	2166.0	1328.9	1237.2	1292.8	1336.9	1370.1	1388.1	1394.6	1399.0
3829.3	25°	3197.3	1894.4	1175.8	1190.2	1228.5	1284.1	1310.9	1314.5	1312.3	1318.8
3811.2	27.5°	3071.7	1603.4	1080.5	1126.7	1175.8	1223.5	1237.9	1235.7	1231.4	1238.6
3780.2	30°	2920.0	1341.9	1019.8	1055.2	1122.4	1165.7	1178.7	1173.6	1165.0	1172.9
3764.3	32.5°	2759.7	1128.1	970.0	1005.4	1078.3	1120.9	1133.9	1128.9	1122.4	1128.9
3782.4	35°	2610.2	978.6	923.7	972.1	1043.6	1085.5	1102.1	1102.9	1102.9	1110.8
3830.0	37.5°	2472.9	891.2	885.5	951.2	1019.8	1057.4	1081.2	1082.6	1051.6	1053.7
3910.9	40°	2345.8	854.4	868.1	937.5	996.7	1032.8	1034.2	953.4	896.3	894.9
4003.4	42.5°	2241.8	847.2	873.2	936.0	980.1	981.5	879.7	816.8	801.0	801.7
4088.6	45°	2144.3	845.0	884.7	936.0	955.5	847.9	779.3	762.7	764.1	769.9
4126.9	47.5°	2035.3	836.3	886.9	923.0	884.7	754.0	733.8	726.6	723.7	725.1
4118.2	50°	1916.1	805.3	859.5	897.0	763.4	713.6	688.3	686.1	689.7	691.9
4069.8	52.5°	1790.4	754.7	812.5	850.1	707.8	678.2	650.0	655.1	671.0	676.0
4019.2	55°	1708.1	695.5	750.4	756.2	668.8	645.0	621.1	632.7	662.3	671.7
3988.9	57.5°	1686.4	632.7	679.6	673.1	619.0	616.1	601.6	611.7	649.3	663.0
3987.5	60°	1679.9	576.3	610.3	605.2	570.6	584.3	580.7	585.7	598.7	603.1
3973.0	62.5°	1629.4	531.6	548.2	541.0	527.2	551.1	559.7	548.9	559.0	564.1
3874.1	65°	1500.8	495.5	487.5	482.5	488.2	509.9	527.2	505.6	515.0	529.4
3492.7	67.5°	1288.5	446.3	424.7	430.5	448.5	460.1	482.5	457.9	465.8	490.4
2813.1	70°	1042.2	384.2	364.7	381.3	398.7	422.5	426.1	409.5	428.3	455.7
1716.8	72.5°	737.4	321.4	307.7	341.6	347.4	378.5	370.5	362.6	388.6	398.0
848.6	75°	511.3	259.3	251.3	277.3	298.3	325.0	319.2	328.6	383.5	387.8
424.0	77.5°	323.6	201.5	196.4	213.1	241.9	271.6	280.9	387.8	655.1	681.1
220.3	80°	187.8	150.2	144.4	157.4	182.7	210.2	270.8	476.0	431.9	426.8
98.9	82.5°	104.7	103.3	96.1	99.7	122.1	151.7	382.8	335.1	272.3	280.9
39.7	85°	49.1	60.7	52.0	49.8	68.6	177.7	255.7	191.4	127.1	124.2
8.7	87.5°	13.0	11.6	11.6	13.0	28.9	153.1	101.8	81.6	48.4	46.9
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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