

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: P949432

Luminaire Tested: **GALN-SB4A-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949432
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-SB4A-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13249 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

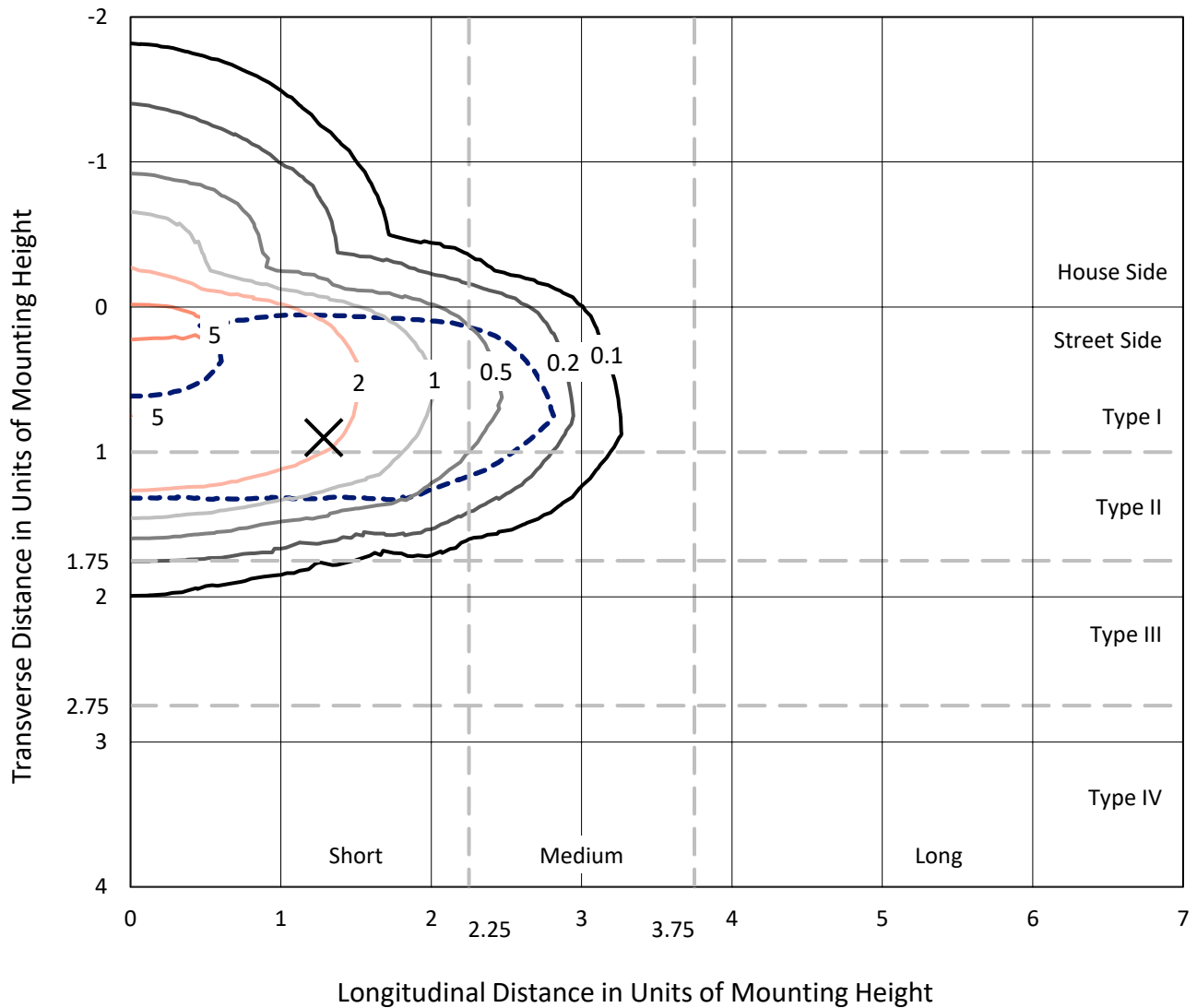
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

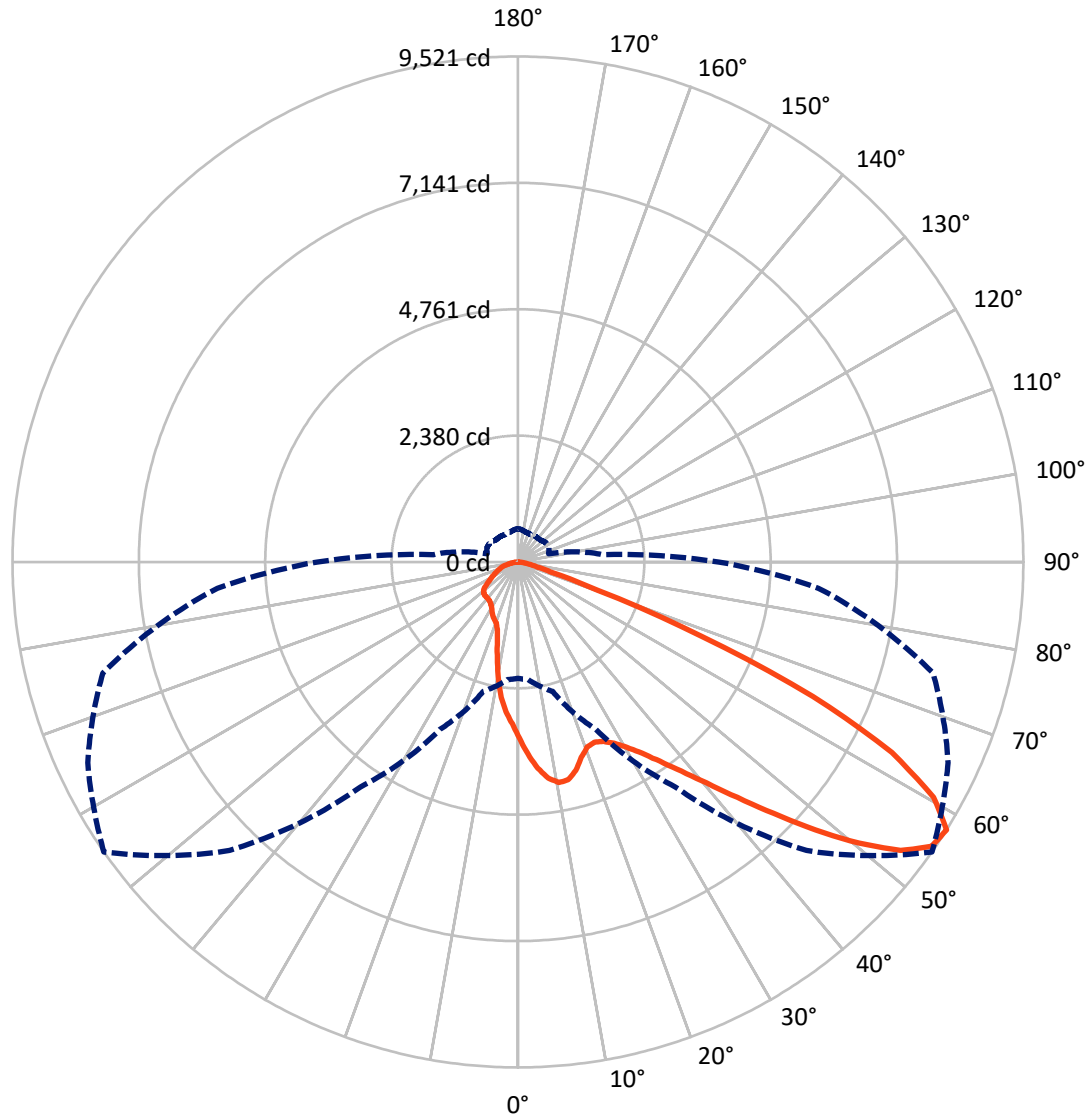
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	2397.3	0.0	2397.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10851.7	0.0	10851.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	13249.0	0.0	13249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.1	2.3
10°-20°	777.5	5.9
20°-30°	1240.7	9.4
30°-40°	1964.4	14.8
40°-50°	3006.7	22.7
50°-60°	3220.5	24.3
60°-70°	2026.0	15.3
70°-80°	599.1	4.5
80°-90°	105.9	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°	13249.0	100.0
0°-180°	13249.0	100.0

Coefficient of Utilization



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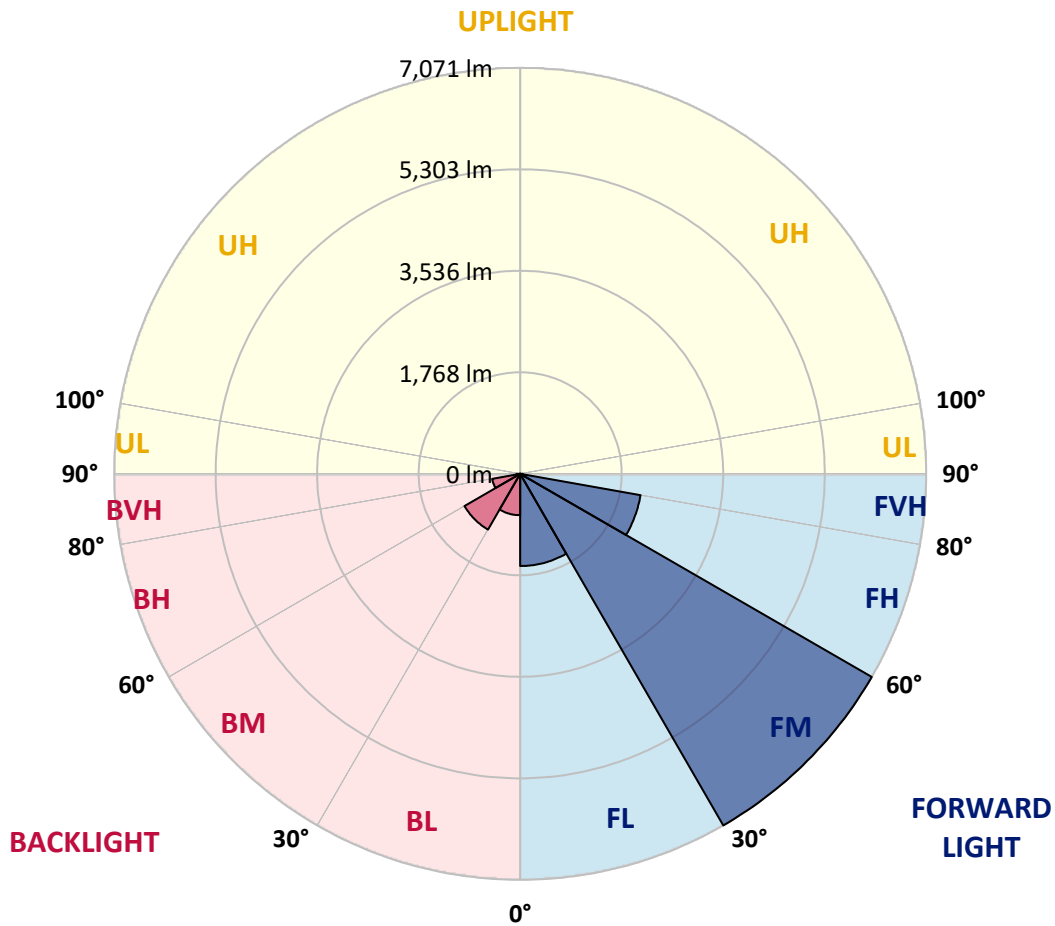
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1605.8	12.1			
FM (30°-60°)	7071.1	53.4			
FH (60°-80°)	2130.0	16.1			G2/5000
FVH (80°-90°)	44.8	0.3			G1/100
BL (0°-30°)	720.6	5.4	B2/1000		
BM (30°-60°)	1120.5	8.5	B2/2500		
BH (60°-80°)	495.1	3.7	B1/500		G1/500
BVH (80°-90°)	61.2	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°	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8
2.5°	3808.8	3806.1	3821.1	3769.8	3734.8	3687.6	3625.2	3545.8	3460.2	3369.8
5°	4151.9	4128.0	4143.7	4105.4	4067.0	3995.8	3903.3	3773.9	3615.7	3435.5
7.5°	4097.8	4081.4	4121.8	4156.0	4184.8	4175.9	4108.1	3972.5	3768.4	3506.8
10°	3661.5	3643.0	3699.9	3818.4	3992.4	4143.7	4225.9	4141.7	3924.5	3584.8
12.5°	3276.6	3267.7	3305.4	3401.3	3594.4	3884.8	4210.8	4289.6	4086.9	3677.3
15°	3112.2	3101.3	3125.3	3173.9	3297.2	3567.7	4073.9	4391.0	4246.5	3784.1
17.5°	3075.9	3063.6	3073.9	3099.2	3178.7	3384.8	3867.0	4441.0	4412.9	3903.3
20°	3143.1	3132.8	3134.2	3132.8	3188.3	3352.0	3723.2	4421.8	4558.1	4012.9
22.5°	3305.4	3288.3	3288.9	3252.6	3282.8	3409.5	3685.5	4370.4	4687.5	4108.8
25°	3569.8	3538.9	3545.1	3452.6	3444.4	3538.3	3744.4	4330.7	4816.3	4185.5
27.5°	3931.4	3896.5	3878.0	3740.3	3674.6	3721.1	3864.3	4344.4	4938.2	4251.9
30°	4383.4	4341.0	4303.3	4108.1	3988.9	3971.8	4050.6	4434.8	5082.0	4321.8
32.5°	4937.5	4888.2	4819.7	4560.8	4393.0	4303.3	4291.7	4595.8	5250.5	4410.8
35°	5597.1	5532.7	5435.5	5100.5	4888.2	4704.7	4609.5	4827.9	5481.4	4545.1
37.5°	6276.5	6203.9	6114.9	5716.3	5455.3	5184.8	4997.1	5143.0	5788.9	4727.3
40°	6903.2	6821.7	6738.9	6384.1	6103.9	5777.9	5471.8	5541.6	6164.9	4945.1
42.5°	7273.1	7212.8	7181.3	6989.5	6773.1	6442.3	6062.2	6014.2	6587.5	5195.7
45°	7256.6	7232.0	7329.2	7408.7	7357.3	7173.8	6753.9	6536.8	7011.4	5412.9
47.5°	6869.0	6885.4	7102.5	7549.1	7745.7	7841.6	7541.6	7049.8	7379.9	5575.2
50°	5814.2	5827.9	6330.6	7293.6	7845.7	8386.1	8323.1	7550.5	7665.5	5674.5
52.5°	4979.3	4988.2	5204.0	6536.1	7515.5	8660.0	9027.1	8022.4	7874.4	5701.9
55°	3750.6	3781.4	4023.2	5127.9	6656.7	8442.9	9455.9	8508.7	8006.6	5704.6
57.5°	2191.0	2224.6	2523.2	3480.7	5173.8	7686.1	9521.0	8940.2	8096.3	5682.7
60°	1073.3	1087.6	1217.8	1829.4	3190.3	6227.9	8997.7	9149.1	8146.3	5671.1
62.5°	723.3	721.2	726.7	902.7	1571.9	4001.3	7907.3	8783.3	8119.6	5626.6
65°	621.9	614.4	593.8	633.5	814.4	1830.1	6109.4	7691.6	7916.2	5514.9
67.5°	537.7	538.3	539.0	526.7	581.5	844.5	3733.5	6058.7	7186.1	4986.2
70°	445.2	451.4	454.1	454.1	474.0	554.1	1593.8	4152.6	5668.3	3909.5
72.5°	405.5	392.5	393.8	387.0	387.0	421.9	641.8	2354.0	3571.1	2199.3
75°	330.8	339.0	340.4	335.6	319.9	321.9	380.8	987.6	1528.0	912.3
77.5°	285.6	285.6	288.3	284.9	272.6	241.1	254.1	382.9	519.8	374.0
80°	229.4	228.8	240.4	247.3	228.1	178.1	162.3	211.6	230.8	164.4
82.5°	111.6	118.5	165.1	188.4	173.3	128.8	99.3	131.5	123.3	72.6
85°	65.1	61.6	74.0	104.8	99.3	71.2	47.9	68.5	64.4	37.0
87.5°	20.5	19.2	15.1	35.6	28.8	19.9	13.0	19.9	17.8	8.2
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°
3319.8	0°	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8	3319.8
3330.7	2.5°	3282.1	3201.3	3121.1	3047.9	3003.3	2974.6	2945.8	2913.6	2901.3	2882.8
3339.6	5°	3249.2	3093.1	2954.0	2834.2	2725.3	2639.7	2553.4	2483.5	2452.0	2473.2
3367.7	7.5°	3230.0	3004.0	2789.6	2569.8	2358.2	2189.0	2041.7	1938.3	1891.7	1903.4
3395.1	10°	3212.9	2903.3	2576.6	2229.4	1925.3	1715.7	1565.0	1486.3	1456.8	1463.0
3432.1	12.5°	3197.2	2790.3	2319.8	1863.0	1539.7	1401.3	1358.2	1358.9	1364.3	1368.5
3491.0	15°	3194.4	2654.0	2032.8	1542.4	1331.5	1322.6	1369.1	1398.6	1414.3	1419.1
3540.3	17.5°	3190.3	2491.0	1740.4	1323.9	1280.8	1341.1	1384.2	1403.4	1415.7	1416.4
3588.3	20°	3173.9	2284.2	1470.5	1219.8	1269.8	1321.9	1348.6	1363.7	1373.9	1377.4
3624.6	22.5°	3123.2	2054.1	1260.2	1173.3	1226.0	1267.8	1299.3	1316.4	1322.6	1326.7
3631.4	25°	3032.1	1796.5	1115.0	1128.7	1165.0	1217.8	1243.1	1246.5	1244.5	1250.6
3614.3	27.5°	2912.9	1520.5	1024.6	1068.5	1115.0	1160.2	1173.9	1171.9	1167.8	1174.6
3584.8	30°	2769.1	1272.6	967.1	1000.7	1064.4	1105.4	1117.8	1113.0	1104.8	1112.3
3569.8	32.5°	2617.0	1069.8	919.8	953.4	1022.6	1063.0	1075.3	1070.5	1064.4	1070.5
3586.9	35°	2475.3	928.1	876.0	921.9	989.7	1029.4	1045.2	1045.9	1045.9	1053.4
3632.1	37.5°	2345.1	845.2	839.7	902.0	967.1	1002.7	1025.3	1026.7	997.2	999.3
3708.8	40°	2224.6	810.3	823.3	889.0	945.2	979.4	980.8	904.1	850.0	848.6
3796.5	42.5°	2126.0	803.4	828.1	887.6	929.4	930.8	834.2	774.6	759.6	760.3
3877.3	45°	2033.5	801.3	839.0	887.6	906.1	804.1	739.0	723.3	724.6	730.1
3913.6	47.5°	1930.1	793.1	841.1	875.3	839.0	715.0	695.9	689.0	686.3	687.7
3905.4	50°	1817.1	763.7	815.0	850.7	724.0	676.7	652.7	650.7	654.1	656.1
3859.5	52.5°	1697.9	715.7	770.5	806.1	671.2	643.1	616.4	621.2	636.3	641.1
3811.5	55°	1619.8	659.6	711.6	717.1	634.2	611.6	589.0	600.0	628.1	637.0
3782.8	57.5°	1599.3	600.0	644.5	638.3	587.0	584.2	570.5	580.1	615.7	628.7
3781.4	60°	1593.1	546.6	578.8	574.0	541.1	554.1	550.7	555.5	567.8	571.9
3767.7	62.5°	1545.2	504.1	519.8	513.0	500.0	522.6	530.8	520.5	530.1	534.9
3673.9	65°	1423.2	469.8	462.3	457.5	463.0	483.5	500.0	479.4	488.3	502.0
3312.2	67.5°	1221.9	423.3	402.7	408.2	425.3	436.3	457.5	434.2	441.8	465.1
2667.7	70°	988.3	364.4	345.9	361.6	378.1	400.7	404.1	388.3	406.2	432.2
1628.0	72.5°	699.3	304.8	291.8	324.0	329.4	358.9	351.4	343.8	368.5	377.4
804.8	75°	484.9	245.9	238.3	263.0	282.9	308.2	302.7	311.6	363.7	367.8
402.0	77.5°	306.8	191.1	186.3	202.0	229.4	257.5	266.4	367.8	621.2	645.9
208.9	80°	178.1	142.5	137.0	149.3	173.3	199.3	256.8	451.4	409.6	404.8
93.8	82.5°	99.3	97.9	91.1	94.5	115.8	143.8	363.0	317.8	258.2	266.4
37.7	85°	46.6	57.5	49.3	47.3	65.1	168.5	242.5	181.5	120.5	117.8
8.2	87.5°	12.3	11.0	11.0	12.3	27.4	145.2	96.6	77.4	45.9	44.5
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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