

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: P947920

Luminaire Tested: **GALN-SB3A-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947920
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-SB3A-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13093 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

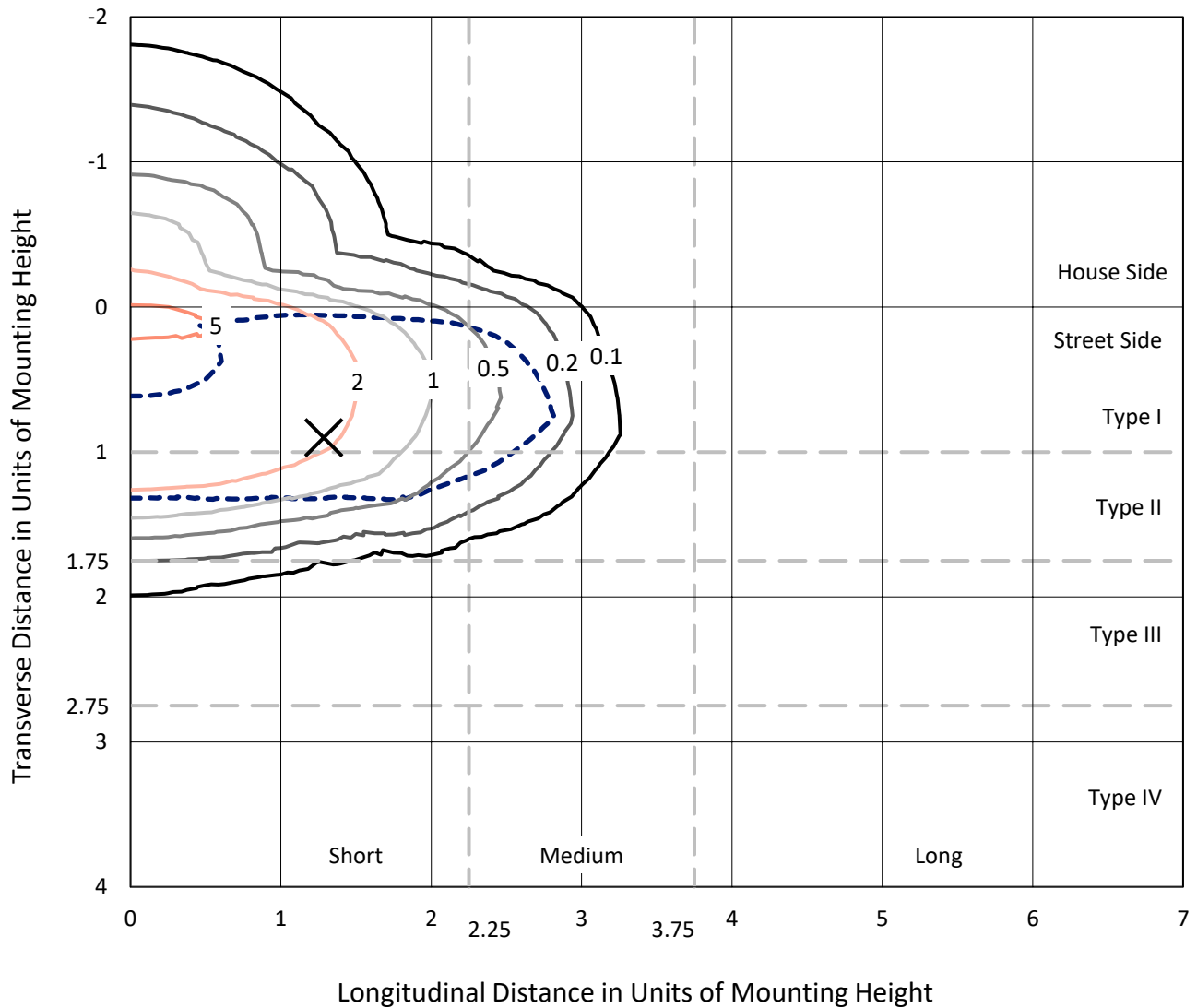
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

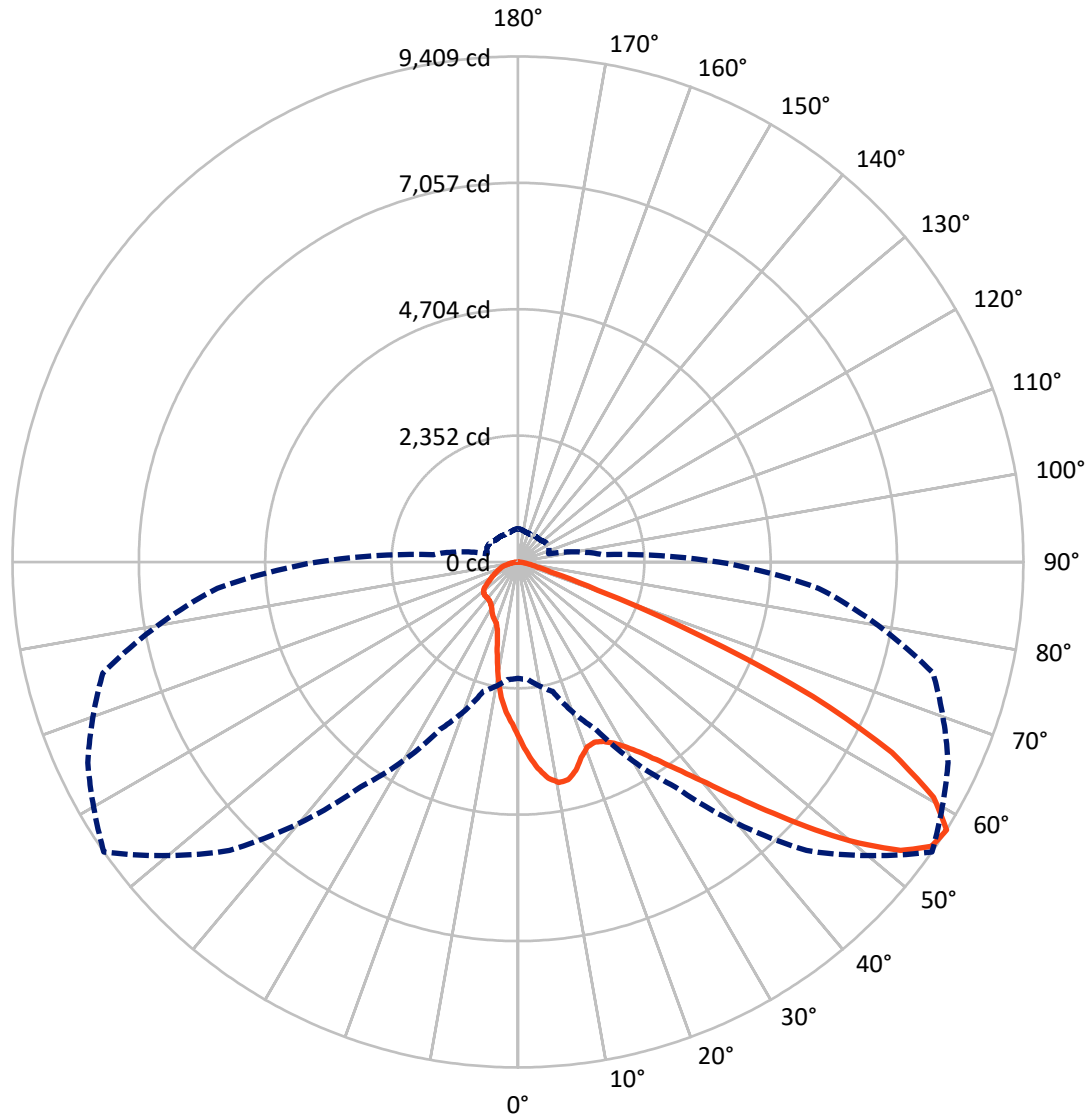
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	2369.1	0.0	2369.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10723.9	0.0	10723.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	13093.0	0.0	13093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.4	2.3
10°-20°	768.4	5.9
20°-30°	1226.1	9.4
30°-40°	1941.3	14.8
40°-50°	2971.3	22.7
50°-60°	3182.6	24.3
60°-70°	2002.2	15.3
70°-80°	592.1	4.5
80°-90°	104.7	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°	13093.0	100.0
0°-180°	13093.0	100.0

Coefficient of Utilization



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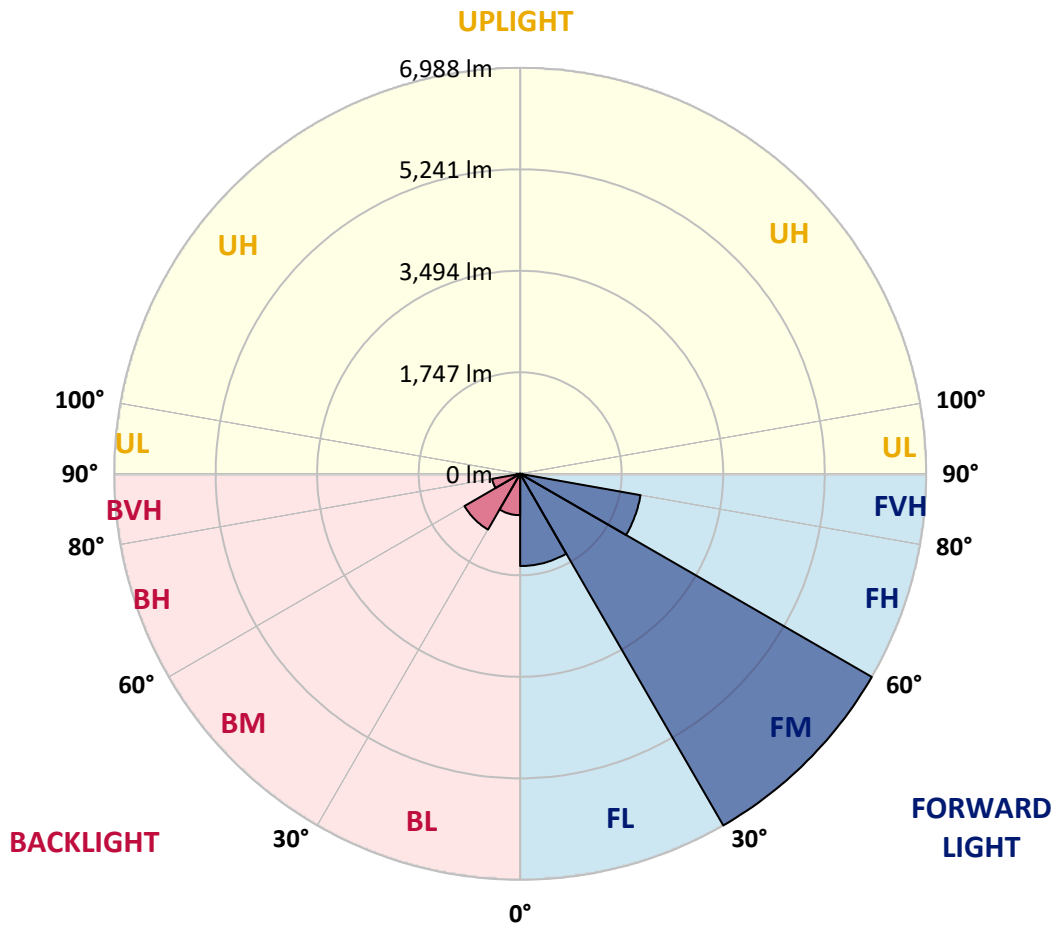
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1586.9	12.1			
FM (30°-60°)	6987.8	53.4			
FH (60°-80°)	2105.0	16.1			G2/5000
FVH (80°-90°)	44.2	0.3			G1/100
BL (0°-30°)	712.1	5.4	B2/1000		
BM (30°-60°)	1107.3	8.5	B2/2500		
BH (60°-80°)	489.3	3.7	B1/500		G1/500
BVH (80°-90°)	60.5	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°	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7
2.5°	3764.0	3761.2	3776.1	3725.4	3690.9	3644.1	3582.6	3504.0	3419.4	3330.1
5°	4103.1	4079.4	4094.9	4057.0	4019.1	3948.7	3857.4	3729.4	3573.1	3395.1
7.5°	4049.6	4033.3	4073.3	4107.1	4135.5	4126.7	4059.7	3925.7	3724.0	3465.5
10°	3618.4	3600.2	3656.3	3773.4	3945.3	4094.9	4176.2	4092.9	3878.3	3542.6
12.5°	3238.0	3229.2	3266.5	3361.2	3552.1	3839.1	4161.3	4239.1	4038.8	3634.0
15°	3075.6	3064.8	3088.5	3136.5	3258.3	3525.7	4025.9	4339.3	4196.5	3739.6
17.5°	3039.7	3027.5	3037.7	3062.7	3141.3	3345.0	3821.5	4388.7	4360.9	3857.4
20°	3106.1	3095.9	3097.3	3095.9	3150.7	3312.5	3679.3	4369.7	4504.4	3965.7
22.5°	3266.5	3249.5	3250.2	3214.3	3244.1	3369.3	3642.1	4319.0	4632.3	4060.4
25°	3527.7	3497.3	3503.4	3412.0	3403.9	3496.6	3700.3	4279.7	4759.6	4136.2
27.5°	3885.1	3850.6	3832.3	3696.3	3631.3	3677.3	3818.8	4293.2	4880.1	4201.9
30°	4331.8	4289.9	4252.6	4059.7	3942.0	3925.0	4002.9	4382.6	5022.2	4270.9
32.5°	4879.4	4830.7	4763.0	4507.1	4341.3	4252.6	4241.1	4541.6	5188.7	4358.9
35°	5531.2	5467.6	5371.5	5040.5	4830.7	4649.3	4555.2	4771.1	5416.8	4491.6
37.5°	6202.6	6130.9	6042.9	5649.0	5391.1	5123.7	4938.3	5082.4	5720.7	4671.6
40°	6821.9	6741.4	6659.5	6308.9	6032.1	5709.9	5407.3	5476.4	6092.3	4886.8
42.5°	7187.4	7127.9	7096.7	6907.2	6693.3	6366.4	5990.8	5943.4	6509.9	5134.6
45°	7171.2	7146.8	7242.9	7321.5	7270.7	7089.3	6674.4	6459.8	6928.9	5349.1
47.5°	6788.1	6804.3	7018.9	7460.2	7654.5	7749.2	7452.8	6966.8	7293.0	5509.5
50°	5745.8	5759.3	6256.1	7207.8	7753.3	8287.3	8225.1	7461.6	7575.3	5607.7
52.5°	4920.7	4929.5	5142.7	6459.2	7427.0	8558.1	8920.9	7927.9	7781.7	5634.8
55°	3706.4	3736.9	3975.8	5067.6	6578.3	8343.5	9344.6	8408.5	7912.3	5637.5
57.5°	2165.2	2198.4	2493.5	3439.7	5112.9	7595.6	9408.9	8834.9	8001.0	5615.8
60°	1060.6	1074.8	1203.4	1807.9	3152.8	6154.6	8891.7	9041.3	8050.4	5604.3
62.5°	714.8	712.7	718.1	892.1	1553.4	3954.1	7814.2	8679.9	8024.0	5560.3
65°	614.6	607.1	586.8	626.1	804.8	1808.5	6037.5	7601.0	7823.0	5450.0
67.5°	531.3	532.0	532.7	520.5	574.6	834.6	3689.5	5987.4	7101.5	4927.5
70°	440.0	446.0	448.8	448.8	468.4	547.6	1575.0	4103.7	5601.6	3863.4
72.5°	400.7	387.8	389.2	382.4	382.4	416.9	634.2	2326.3	3529.1	2173.4
75°	326.9	335.0	336.4	331.7	316.1	318.1	376.3	976.0	1510.0	901.6
77.5°	282.2	282.2	285.0	281.6	269.4	238.3	251.1	378.4	513.7	369.6
80°	226.7	226.1	237.6	244.3	225.4	176.0	160.4	209.1	228.1	162.4
82.5°	110.3	117.1	163.1	186.1	171.2	127.2	98.1	130.0	121.8	71.7
85°	64.3	60.9	73.1	103.6	98.1	70.4	47.4	67.7	63.6	36.5
87.5°	20.3	19.0	14.9	35.2	28.4	19.6	12.9	19.6	17.6	8.1
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°
3280.7	0°	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7	3280.7
3291.5	2.5°	3243.5	3163.6	3084.4	3012.0	2968.0	2939.5	2911.1	2879.3	2867.1	2848.9
3300.3	5°	3211.0	3056.6	2919.2	2800.8	2693.2	2608.6	2523.3	2454.2	2423.1	2444.1
3328.1	7.5°	3192.0	2968.7	2756.8	2539.5	2330.4	2163.2	2017.7	1915.5	1869.5	1881.0
3355.1	10°	3175.1	2869.2	2546.3	2203.1	1902.6	1695.5	1546.6	1468.8	1439.7	1445.7
3391.7	12.5°	3159.5	2757.5	2292.5	1841.0	1521.6	1384.8	1342.2	1342.9	1348.3	1352.3
3449.9	15°	3156.8	2622.8	2008.9	1524.3	1315.8	1307.0	1353.0	1382.1	1397.7	1402.4
3498.6	17.5°	3152.8	2461.7	1719.9	1308.3	1265.7	1325.3	1367.9	1386.9	1399.0	1399.7
3546.0	20°	3136.5	2257.3	1453.2	1205.5	1254.9	1306.3	1332.7	1347.6	1357.8	1361.1
3581.9	22.5°	3086.4	2029.9	1245.4	1159.4	1211.6	1252.8	1284.0	1300.9	1307.0	1311.1
3588.6	25°	2996.4	1775.4	1101.9	1115.4	1151.3	1203.4	1228.5	1231.9	1229.8	1235.9
3571.7	27.5°	2878.6	1502.6	1012.6	1055.9	1101.9	1146.6	1160.1	1158.1	1154.0	1160.8
3542.6	30°	2736.5	1257.6	955.7	988.9	1051.8	1092.4	1104.6	1099.9	1091.8	1099.2
3527.7	32.5°	2586.2	1057.2	909.0	942.2	1010.5	1050.5	1062.7	1057.9	1051.8	1057.9
3544.7	35°	2446.1	917.1	865.7	911.0	978.0	1017.3	1032.9	1033.5	1033.5	1041.0
3589.3	37.5°	2317.5	835.2	829.8	891.4	955.7	990.9	1013.2	1014.6	985.5	987.5
3665.1	40°	2198.4	800.7	813.6	878.5	934.0	967.9	969.2	893.4	840.0	838.6
3751.8	42.5°	2100.9	793.9	818.3	877.2	918.5	919.8	824.4	765.5	750.6	751.3
3831.6	45°	2009.6	791.9	829.1	877.2	895.5	794.6	730.3	714.8	716.1	721.5
3867.5	47.5°	1907.4	783.8	831.2	865.0	829.1	706.6	687.7	680.9	678.2	679.6
3859.4	50°	1795.7	754.7	805.4	840.6	715.4	668.7	645.0	643.0	646.4	648.4
3814.0	52.5°	1677.9	707.3	761.5	796.6	663.3	635.6	609.2	613.9	628.8	633.5
3766.7	55°	1600.7	651.8	703.2	708.7	626.8	604.4	582.1	592.9	620.7	629.5
3738.2	57.5°	1580.4	592.9	636.9	630.8	580.1	577.4	563.8	573.3	608.5	621.3
3736.9	60°	1574.3	540.1	571.9	567.2	534.7	547.6	544.2	548.9	561.1	565.2
3723.3	62.5°	1527.0	498.2	513.7	507.0	494.1	516.4	524.6	514.4	523.9	528.6
3630.6	65°	1406.5	464.3	456.9	452.1	457.5	477.9	494.1	473.8	482.6	496.1
3273.2	67.5°	1207.5	418.3	398.0	403.4	420.3	431.2	452.1	429.1	436.6	459.6
2636.3	70°	976.7	360.1	341.8	357.4	373.6	396.0	399.3	383.8	401.4	427.1
1608.9	72.5°	691.1	301.2	288.3	320.1	325.6	354.7	347.2	339.8	364.1	372.9
795.3	75°	479.2	243.0	235.5	259.9	279.5	304.6	299.2	308.0	359.4	363.5
397.3	77.5°	303.2	188.8	184.1	199.7	226.7	254.5	263.3	363.5	613.9	638.3
206.4	80°	176.0	140.8	135.4	147.6	171.2	197.0	253.8	446.0	404.8	400.0
92.7	82.5°	98.1	96.8	90.0	93.4	114.4	142.1	358.7	314.1	255.2	263.3
37.2	85°	46.0	56.9	48.7	46.7	64.3	166.5	239.6	179.4	119.1	116.4
8.1	87.5°	12.2	10.8	10.8	12.2	27.1	143.5	95.4	76.5	45.3	44.0
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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