

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: P947122

Luminaire Tested: **GALN-SB2C-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947122
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-SB2C-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13245 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

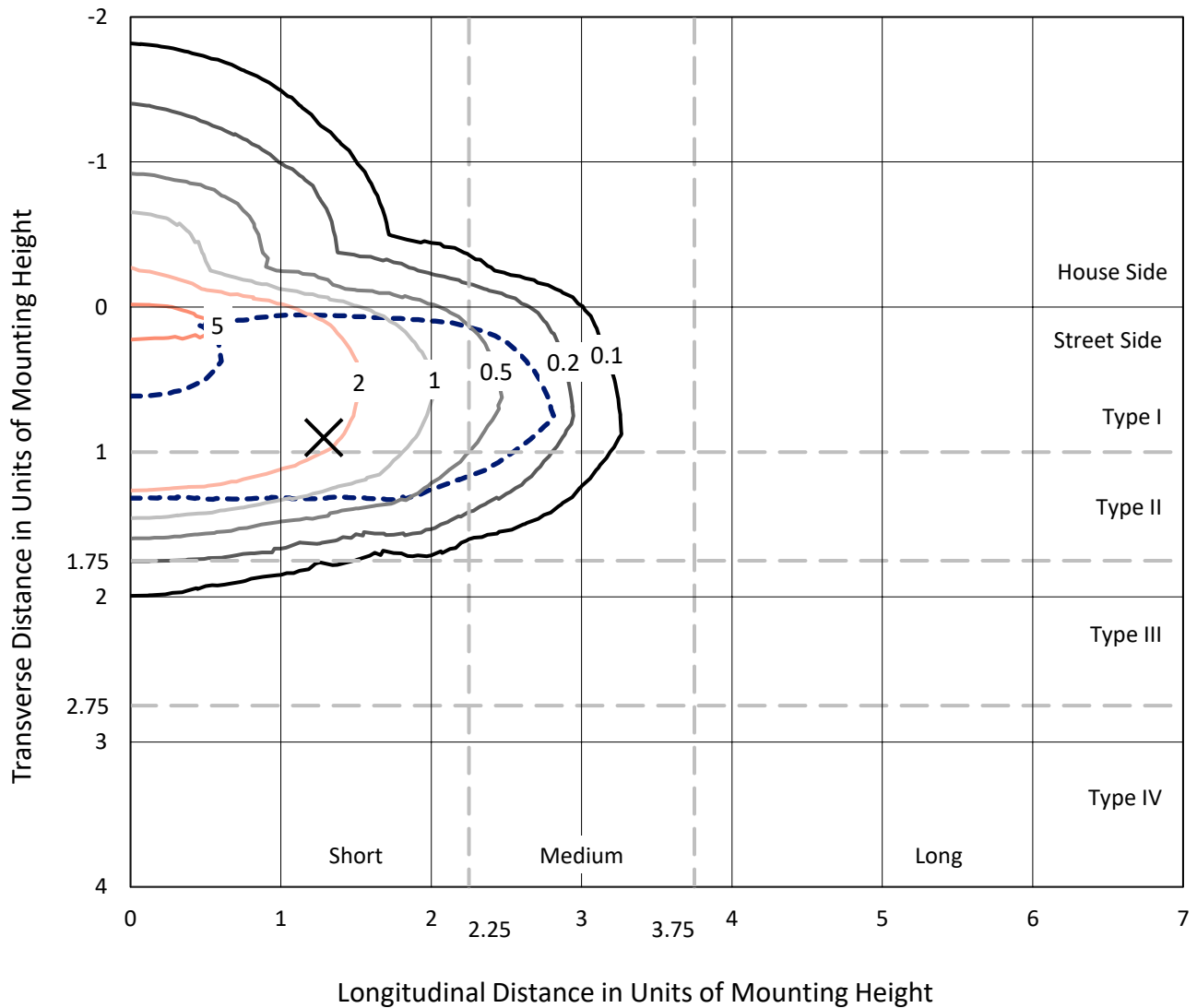
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

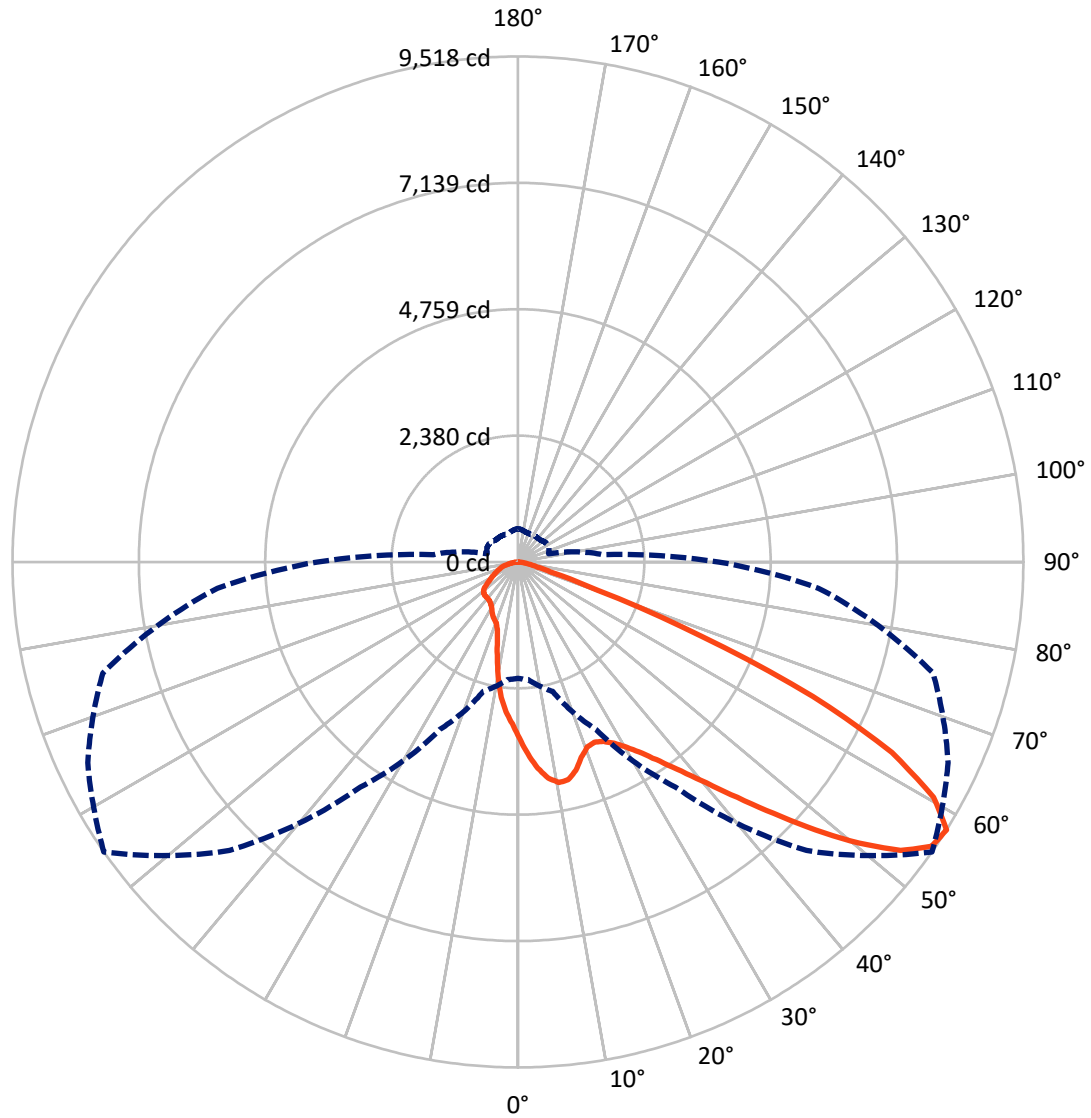
✕ Max cd
 - - - 1/2 Max cd



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	2396.6	0.0	2396.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10848.4	0.0	10848.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	13245.0	0.0	13245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.0	2.3
10°-20°	777.3	5.9
20°-30°	1240.4	9.4
30°-40°	1963.8	14.8
40°-50°	3005.8	22.7
50°-60°	3219.5	24.3
60°-70°	2025.4	15.3
70°-80°	598.9	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°	13245.0	100.0
0°-180°	13245.0	100.0

Coefficient of Utilization



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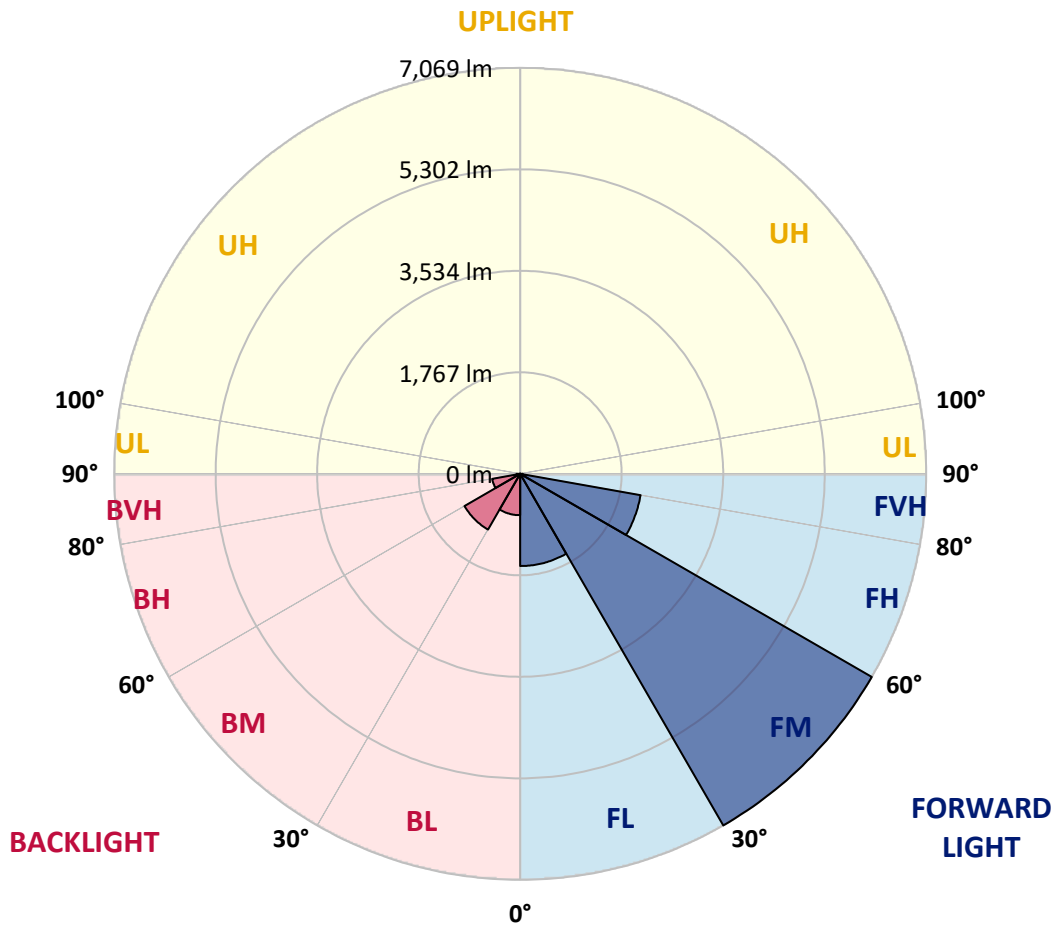
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1605.3	12.1			
FM (30°-60°)	7069.0	53.4			
FH (60°-80°)	2129.4	16.1			G2/5000
FVH (80°-90°)	44.7	0.3			G1/100
BL (0°-30°)	720.3	5.4	B2/1000		
BM (30°-60°)	1120.2	8.5	B2/2500		
BH (60°-80°)	495.0	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°	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8
2.5°	3807.6	3804.9	3820.0	3768.6	3733.7	3686.5	3624.1	3544.7	3459.1	3368.8
5°	4150.7	4126.7	4142.5	4104.1	4065.8	3994.6	3902.1	3772.7	3614.6	3434.5
7.5°	4096.6	4080.2	4120.6	4154.8	4183.5	4174.6	4106.9	3971.3	3767.2	3505.7
10°	3660.4	3641.9	3698.8	3817.2	3991.1	4142.5	4224.6	4140.4	3923.4	3583.7
12.5°	3275.6	3266.7	3304.4	3400.2	3593.3	3883.6	4209.6	4288.3	4085.6	3676.2
15°	3111.3	3100.3	3124.3	3172.9	3296.2	3566.6	4072.6	4389.6	4245.2	3783.0
17.5°	3075.0	3062.7	3073.0	3098.3	3177.7	3383.8	3865.8	4439.6	4411.6	3902.1
20°	3142.1	3131.8	3133.2	3131.8	3187.3	3350.9	3722.1	4420.5	4556.7	4011.7
22.5°	3304.4	3287.3	3288.0	3251.7	3281.8	3408.5	3684.4	4369.1	4686.1	4107.5
25°	3568.7	3537.9	3544.0	3451.6	3443.4	3537.2	3743.3	4329.4	4814.8	4184.2
27.5°	3930.2	3895.3	3876.8	3739.2	3673.4	3720.0	3863.1	4343.1	4936.7	4250.7
30°	4382.1	4339.7	4302.0	4106.9	3987.7	3970.6	4049.3	4433.5	5080.5	4320.5
32.5°	4936.0	4886.7	4818.3	4559.5	4391.7	4302.0	4290.4	4594.4	5249.0	4409.5
35°	5595.4	5531.1	5433.8	5099.0	4886.7	4703.2	4608.1	4826.5	5479.7	4543.7
37.5°	6274.6	6202.1	6113.0	5714.6	5453.7	5183.2	4995.6	5141.5	5787.1	4725.8
40°	6901.1	6819.7	6736.8	6382.1	6102.1	5776.2	5470.1	5540.0	6163.0	4943.6
42.5°	7270.9	7210.6	7179.1	6987.4	6771.1	6440.3	6060.3	6012.4	6585.5	5194.2
45°	7254.5	7229.8	7327.0	7406.5	7355.1	7171.6	6751.9	6534.8	7009.3	5411.2
47.5°	6866.9	6883.3	7100.4	7546.8	7743.3	7839.2	7539.3	7047.7	7377.7	5573.5
50°	5812.5	5826.2	6328.7	7291.4	7843.3	8383.5	8320.5	7548.2	7663.2	5672.8
52.5°	4977.8	4986.7	5202.4	6534.1	7513.3	8657.4	9024.4	8020.0	7872.1	5700.2
55°	3749.4	3780.3	4022.0	5126.4	6654.7	8440.4	9453.0	8506.1	8004.2	5702.9
57.5°	2190.4	2223.9	2522.5	3479.7	5172.3	7683.8	9518.1	8937.5	8093.9	5681.0
60°	1072.9	1087.3	1217.4	1828.8	3189.4	6226.0	8995.0	9146.3	8143.9	5669.4
62.5°	723.0	721.0	726.5	902.4	1571.4	4000.0	7904.9	8780.7	8117.2	5624.9
65°	621.7	614.2	593.6	633.4	814.1	1829.5	6107.6	7689.2	7913.8	5513.2
67.5°	537.5	538.2	538.9	526.5	581.3	844.2	3732.3	6056.9	7183.9	4984.7
70°	445.1	451.2	454.0	454.0	473.8	553.9	1593.3	4151.4	5666.6	3908.3
72.5°	405.3	392.3	393.7	386.9	386.9	421.8	641.6	2353.3	3570.1	2198.6
75°	330.7	338.9	340.3	335.5	319.8	321.8	380.7	987.3	1527.6	912.0
77.5°	285.5	285.5	288.3	284.8	272.5	241.0	254.0	382.8	519.7	373.8
80°	229.4	228.7	240.3	247.2	228.0	178.0	162.3	211.6	230.7	164.3
82.5°	111.6	118.5	165.0	188.3	173.2	128.7	99.3	131.5	123.2	72.6
85°	65.0	61.6	73.9	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°
3318.8	0°	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8
3329.7	2.5°	3281.1	3200.3	3120.2	3046.9	3002.4	2973.7	2944.9	2912.7	2900.4	2881.9
3338.6	5°	3248.2	3092.1	2953.1	2833.3	2724.4	2638.9	2552.6	2482.7	2451.2	2472.5
3366.7	7.5°	3229.1	3003.1	2788.8	2569.0	2357.4	2188.3	2041.1	1937.7	1891.2	1902.8
3394.1	10°	3212.0	2902.5	2575.9	2228.7	1924.7	1715.2	1564.6	1485.8	1456.4	1462.5
3431.1	12.5°	3196.2	2789.5	2319.1	1862.4	1539.2	1400.9	1357.8	1358.5	1363.9	1368.0
3489.9	15°	3193.5	2653.2	2032.2	1542.0	1331.1	1322.2	1368.7	1398.2	1413.9	1418.7
3539.2	17.5°	3189.4	2490.3	1739.8	1323.5	1280.4	1340.7	1383.8	1403.0	1415.3	1416.0
3587.2	20°	3172.9	2283.5	1470.1	1219.5	1269.4	1321.5	1348.2	1363.2	1373.5	1376.9
3623.5	22.5°	3122.3	2053.4	1259.9	1172.9	1225.6	1267.4	1298.9	1316.0	1322.2	1326.3
3630.3	25°	3031.2	1796.0	1114.7	1128.4	1164.7	1217.4	1242.7	1246.2	1244.1	1250.3
3613.2	27.5°	2912.1	1520.0	1024.3	1068.1	1114.7	1159.9	1173.6	1171.5	1167.4	1174.3
3583.7	30°	2768.3	1272.2	966.8	1000.4	1064.0	1105.1	1117.4	1112.6	1104.4	1112.0
3568.7	32.5°	2616.3	1069.5	919.6	953.1	1022.3	1062.7	1075.0	1070.2	1064.0	1070.2
3585.8	35°	2474.5	927.8	875.7	921.6	989.4	1029.1	1044.9	1045.5	1045.5	1053.1
3631.0	37.5°	2344.4	844.9	839.4	901.8	966.8	1002.4	1025.0	1026.4	996.9	999.0
3707.7	40°	2223.9	810.0	823.0	888.7	944.9	979.1	980.5	903.8	849.7	848.3
3795.3	42.5°	2125.3	803.2	827.8	887.4	929.1	930.5	834.0	774.4	759.3	760.0
3876.1	45°	2032.9	801.1	838.8	887.4	905.9	803.8	738.8	723.0	724.4	729.9
3912.4	47.5°	1929.5	792.9	840.8	875.1	838.8	714.8	695.7	688.8	686.1	687.4
3904.2	50°	1816.5	763.4	814.8	850.4	723.7	676.5	652.5	650.5	653.9	655.9
3858.3	52.5°	1697.4	715.5	770.3	805.9	671.0	642.9	616.2	621.0	636.1	640.9
3810.4	55°	1619.3	659.4	711.4	716.9	634.0	611.4	588.8	599.8	627.9	636.8
3781.6	57.5°	1598.8	599.8	644.3	638.1	586.8	584.1	570.4	579.9	615.6	628.6
3780.3	60°	1592.6	546.4	578.6	573.8	540.9	553.9	550.5	555.3	567.6	571.7
3766.6	62.5°	1544.7	503.9	519.7	512.8	499.8	522.4	530.6	520.4	530.0	534.8
3672.8	65°	1422.8	469.7	462.2	457.4	462.9	483.4	499.8	479.3	488.2	501.9
3311.2	67.5°	1221.5	423.1	402.6	408.1	425.2	436.2	457.4	434.1	441.6	464.9
2666.9	70°	988.0	364.3	345.8	361.5	378.0	400.6	404.0	388.2	406.0	432.0
1627.5	72.5°	699.1	304.7	291.7	323.9	329.3	358.8	351.3	343.7	368.4	377.3
804.5	75°	484.8	245.8	238.3	262.9	282.8	308.1	302.6	311.5	363.6	367.7
401.9	77.5°	306.7	191.0	186.2	202.0	229.4	257.4	266.4	367.7	621.0	645.7
208.8	80°	178.0	142.4	136.9	149.3	173.2	199.2	256.8	451.2	409.5	404.7
93.8	82.5°	99.3	97.9	91.1	94.5	115.7	143.8	362.9	317.7	258.1	266.4
37.7	85°	46.6	57.5	49.3	47.2	65.0	168.4	242.4	181.4	120.5	117.8
8.2	87.5°	12.3	11.0	11.0	12.3	27.4	145.2	96.5	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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