

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: P948193

Luminaire Tested: **GALN-SB3B-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948193
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-SB3B-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14942 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

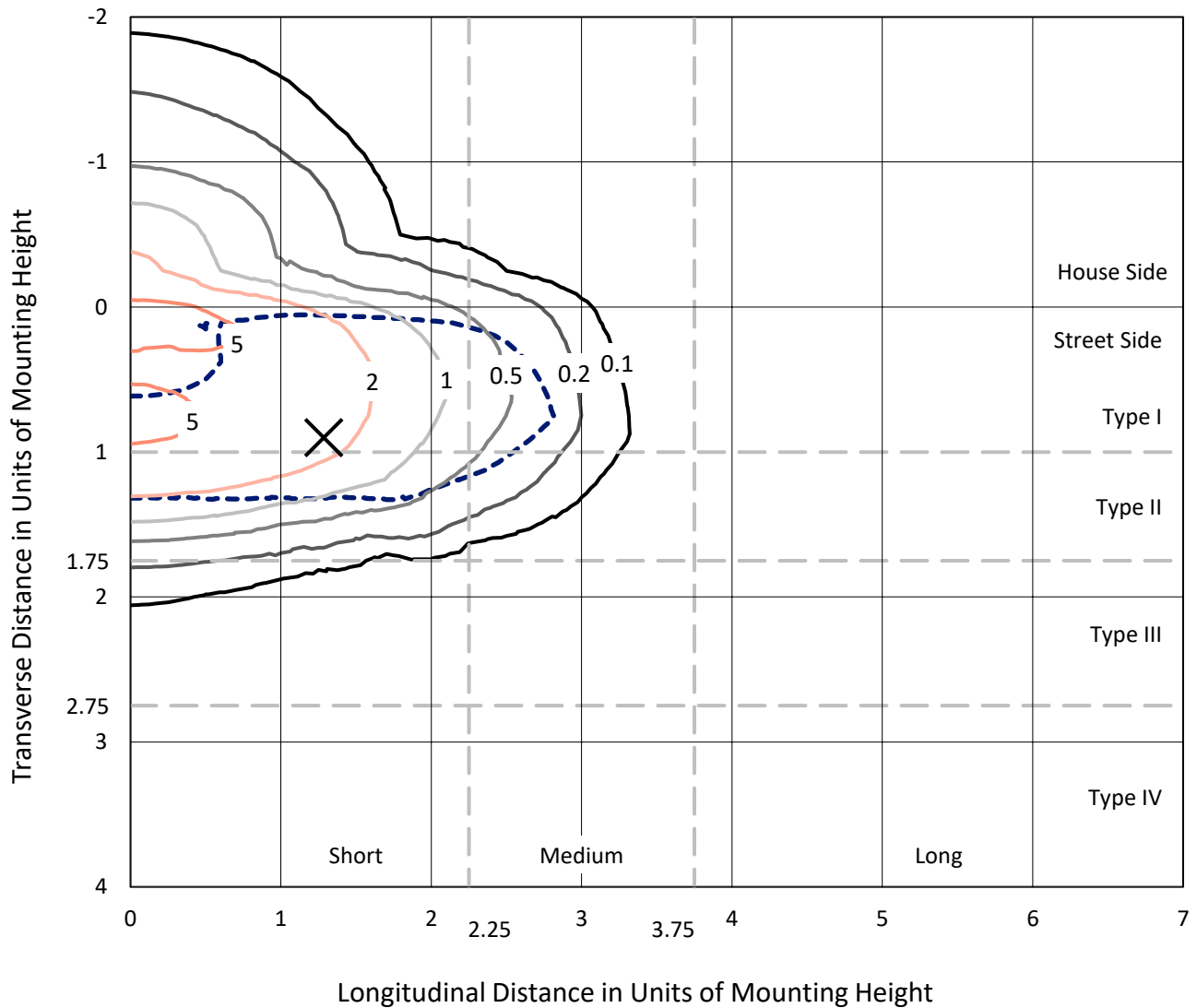
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P948193
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Iso-Footcandle Lines of Horizontal Illumination

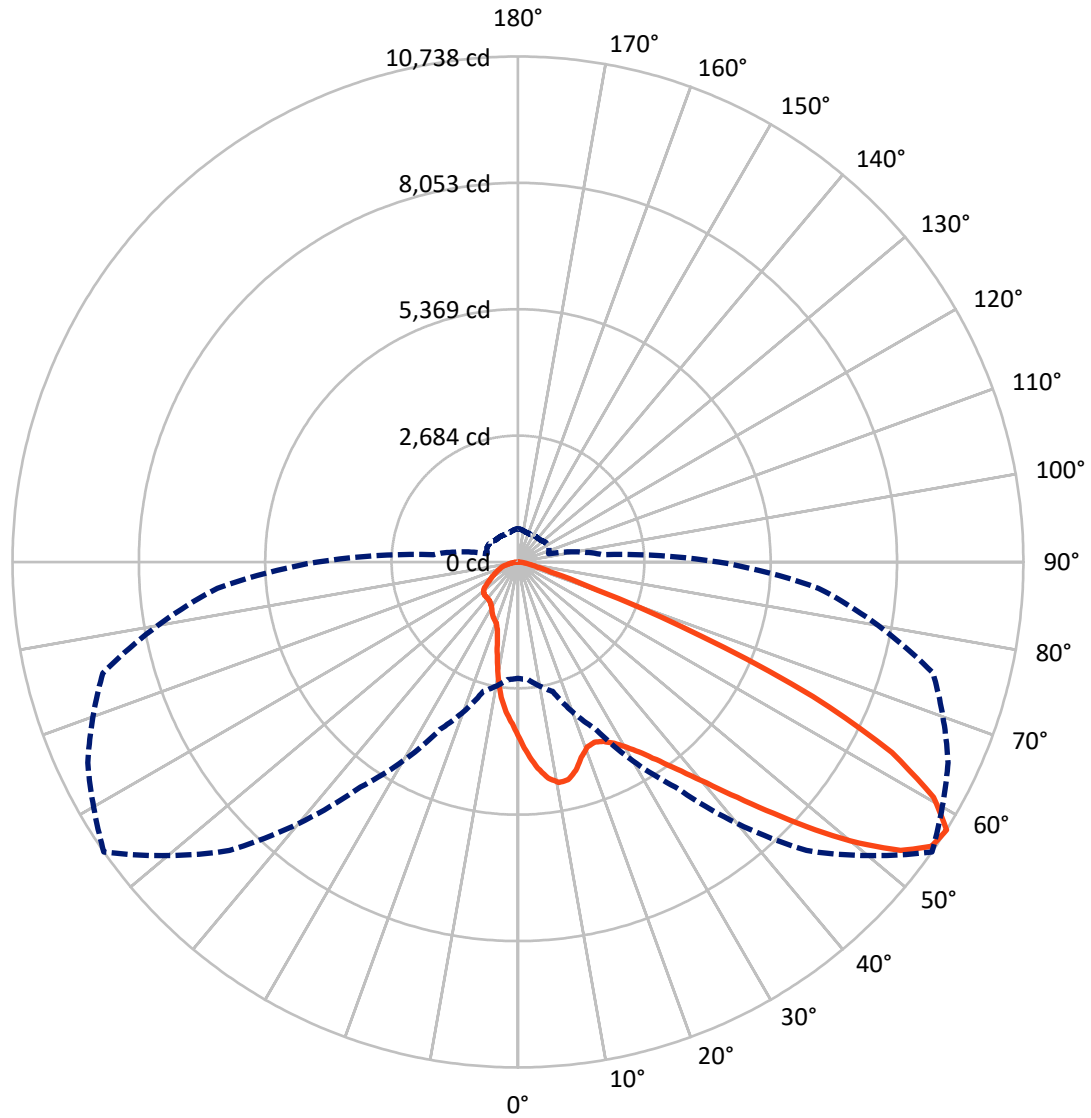
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SB3B-827-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	2703.7	0.0	2703.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12238.3	0.0	12238.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	14942.0	0.0	14942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.4	2.3
10°-20°	876.9	5.9
20°-30°	1399.3	9.4
30°-40°	2215.4	14.8
40°-50°	3390.9	22.7
50°-60°	3632.0	24.3
60°-70°	2284.9	15.3
70°-80°	675.7	4.5
80°-90°	119.5	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°	14942.0	100.0
0°-180°	14942.0	100.0

Coefficient of Utilization



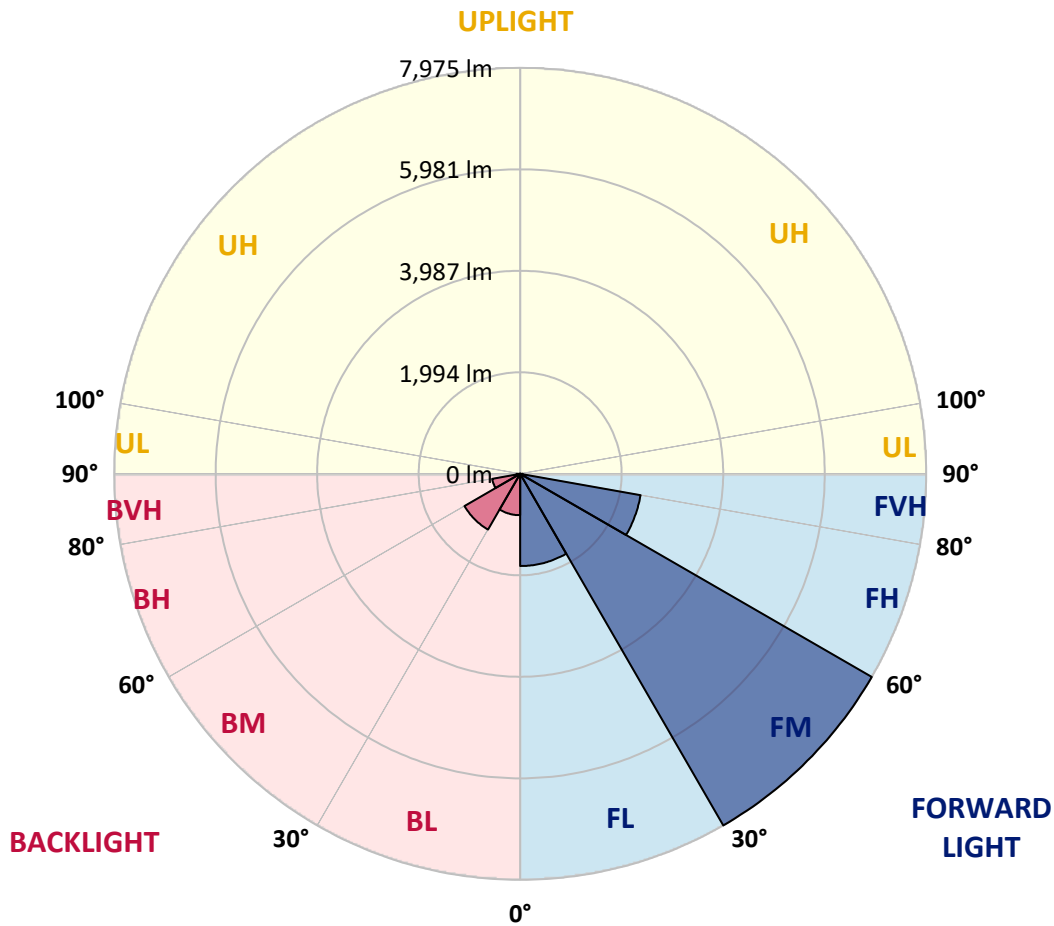
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1811.0	12.1			
FM (30°-60°)	7974.7	53.4			
FH (60°-80°)	2402.2	16.1			G2/5000
FVH (80°-90°)	50.5	0.3			G1/100
BL (0°-30°)	812.6	5.4	B2/1000		
BM (30°-60°)	1263.7	8.5	B2/2500		
BH (60°-80°)	558.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	69.0	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°	3744.0	3744.0	3744.0	3744.0	3744.0	3744.0	3744.0	3744.0	3744.0	3744.0
2.5°	4295.5	4292.4	4309.4	4251.5	4212.1	4158.8	4088.5	3998.9	3902.3	3800.4
5°	4682.5	4655.5	4673.2	4630.0	4586.7	4506.4	4402.1	4256.1	4077.7	3874.5
7.5°	4621.5	4602.9	4648.5	4687.1	4719.6	4709.5	4633.0	4480.1	4249.9	3954.9
10°	4129.4	4108.6	4172.7	4306.3	4502.5	4673.2	4765.9	4670.9	4426.0	4042.9
12.5°	3695.3	3685.3	3727.8	3835.9	4053.7	4381.2	4748.9	4837.7	4609.1	4147.2
15°	3509.9	3497.6	3524.6	3579.5	3718.5	4023.6	4594.4	4952.1	4789.1	4267.7
17.5°	3469.0	3455.1	3466.7	3495.3	3584.9	3817.4	4361.2	5008.5	4976.8	4402.1
20°	3544.7	3533.1	3534.7	3533.1	3595.7	3780.3	4198.9	4986.8	5140.5	4525.7
22.5°	3727.8	3708.4	3709.2	3668.3	3702.3	3845.2	4156.5	4928.9	5286.5	4633.8
25°	4025.9	3991.2	3998.1	3893.8	3884.6	3990.4	4222.9	4884.1	5431.7	4720.3
27.5°	4433.8	4394.4	4373.5	4218.3	4144.1	4196.6	4358.1	4899.5	5569.2	4795.3
30°	4943.6	4895.7	4853.2	4633.0	4498.6	4479.3	4568.2	5001.5	5731.4	4874.0
32.5°	5568.5	5512.9	5435.6	5143.6	4954.4	4853.2	4840.1	5183.0	5921.5	4974.5
35°	6312.3	6239.7	6130.0	5752.3	5512.9	5305.8	5198.5	5444.9	6181.8	5125.9
37.5°	7078.6	6996.7	6896.3	6446.7	6152.4	5847.3	5635.7	5800.2	6528.6	5331.3
40°	7785.3	7693.4	7600.0	7199.8	6883.9	6516.2	6171.0	6249.8	6952.7	5577.0
42.5°	8202.5	8134.5	8099.0	7882.7	7638.6	7265.5	6836.8	6782.7	7429.3	5859.7
45°	8183.9	8156.1	8265.8	8355.4	8297.5	8090.5	7617.0	7372.1	7907.4	6104.5
47.5°	7746.7	7765.3	8010.1	8513.8	8735.4	8843.6	8505.3	7950.6	8323.0	6287.6
50°	6557.2	6572.6	7139.6	8225.6	8848.2	9457.7	9386.6	8515.3	8645.1	6399.6
52.5°	5615.6	5625.6	5868.9	7371.3	8475.9	9766.6	10180.7	9047.5	8880.7	6430.5
55°	4229.8	4264.6	4537.3	5783.2	7507.3	9521.8	10664.2	9595.9	9029.7	6433.6
57.5°	2471.0	2508.9	2845.6	3925.5	5835.0	8668.2	10737.6	10082.6	9130.9	6408.9
60°	1210.4	1226.6	1373.4	2063.2	3598.0	7023.7	10147.4	10318.2	9187.3	6395.7
62.5°	815.7	813.4	819.6	1018.1	1772.7	4512.6	8917.7	9905.7	9157.2	6345.5
65°	701.4	692.9	669.7	714.5	918.4	2063.9	6890.1	8674.4	8927.8	6219.6
67.5°	606.4	607.1	607.9	594.0	655.8	952.4	4210.5	6832.9	8104.4	5623.3
70°	502.1	509.0	512.1	512.1	534.5	624.9	1797.5	4683.3	6392.7	4409.0
72.5°	457.3	442.6	444.1	436.4	436.4	475.8	723.8	2654.9	4027.5	2480.3
75°	373.1	382.4	383.9	378.5	360.7	363.0	429.5	1113.8	1723.3	1028.9
77.5°	322.1	322.1	325.2	321.3	307.4	271.9	286.6	431.8	586.3	421.7
80°	258.8	258.0	271.1	278.8	257.2	200.8	183.1	238.7	260.3	185.4
82.5°	125.9	133.6	186.2	212.4	195.4	145.2	112.0	148.3	139.0	81.9
85°	73.4	69.5	83.4	118.2	112.0	80.3	54.1	77.2	72.6	41.7
87.5°	23.2	21.6	17.0	40.2	32.4	22.4	14.7	22.4	20.1	9.3
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°
3744.0	0°	3744.0	3744.0	3744.0	3744.0	3744.0	3744.0	3744.0	3744.0	3744.0	3744.0
3756.3	2.5°	3701.5	3610.3	3520.0	3437.3	3387.1	3354.7	3322.2	3285.9	3272.0	3251.2
3766.4	5°	3664.4	3488.3	3331.5	3196.3	3073.5	2977.0	2879.6	2800.8	2765.3	2789.3
3798.1	7.5°	3642.8	3387.9	3146.1	2898.2	2659.5	2468.7	2302.6	2186.0	2133.5	2146.6
3828.9	10°	3623.5	3274.3	2905.9	2514.3	2171.3	1934.9	1765.0	1676.2	1643.0	1649.9
3870.7	12.5°	3605.7	3146.9	2616.2	2101.0	1736.4	1580.4	1531.7	1532.5	1538.7	1543.3
3937.1	15°	3602.6	2993.2	2292.6	1739.5	1501.6	1491.6	1544.1	1577.3	1595.1	1600.5
3992.7	17.5°	3598.0	2809.3	1962.8	1493.1	1444.4	1512.4	1561.1	1582.7	1596.6	1597.4
4046.8	20°	3579.5	2576.1	1658.4	1375.7	1432.1	1490.8	1520.9	1537.9	1549.5	1553.4
4087.7	22.5°	3522.3	2316.5	1421.3	1323.2	1382.7	1429.8	1465.3	1484.6	1491.6	1496.2
4095.4	25°	3419.6	2026.1	1257.5	1273.0	1313.9	1373.4	1402.0	1405.8	1403.5	1410.5
4076.1	27.5°	3285.2	1714.8	1155.6	1205.0	1257.5	1308.5	1323.9	1321.6	1317.0	1324.7
4042.9	30°	3122.9	1435.2	1090.7	1128.5	1200.4	1246.7	1260.6	1255.2	1245.9	1254.4
4025.9	32.5°	2951.5	1206.5	1037.4	1075.2	1153.2	1198.8	1212.7	1207.3	1200.4	1207.3
4045.2	35°	2791.6	1046.6	987.9	1039.7	1116.2	1161.0	1178.7	1179.5	1179.5	1188.0
4096.2	37.5°	2644.8	953.2	947.0	1017.3	1090.7	1130.8	1156.3	1157.9	1124.7	1127.0
4182.7	40°	2508.9	913.8	928.5	1002.6	1066.0	1104.6	1106.1	1019.6	958.6	957.0
4281.6	42.5°	2397.6	906.1	933.9	1001.1	1048.2	1049.7	940.8	873.6	856.6	857.4
4372.7	45°	2293.4	903.7	946.2	1001.1	1021.9	906.8	833.5	815.7	817.2	823.4
4413.7	47.5°	2176.7	894.5	948.5	987.2	946.2	806.4	784.8	777.1	774.0	775.5
4404.4	50°	2049.3	861.3	919.2	959.4	816.5	763.2	736.1	733.8	737.7	740.0
4352.7	52.5°	1914.9	807.2	869.0	909.2	757.0	725.3	695.2	700.6	717.6	723.0
4298.6	55°	1826.8	743.9	802.6	808.7	715.3	689.8	664.3	676.7	708.3	718.4
4266.1	57.5°	1803.6	676.7	726.9	719.9	662.0	658.9	643.4	654.3	694.4	709.1
4264.6	60°	1796.7	616.4	652.7	647.3	610.2	624.9	621.0	626.4	640.3	645.0
4249.2	62.5°	1742.6	568.5	586.3	578.6	563.9	589.4	598.6	587.0	597.9	603.3
4143.3	65°	1605.1	529.9	521.4	516.0	522.2	545.3	563.9	540.7	550.7	566.2
3735.5	67.5°	1378.0	477.4	454.2	460.4	479.7	492.0	516.0	489.7	498.2	524.5
3008.6	70°	1114.6	410.9	390.1	407.8	426.4	451.9	455.7	438.0	458.1	487.4
1836.1	72.5°	788.7	343.7	329.1	365.4	371.5	404.8	396.3	387.8	415.6	425.6
907.6	75°	546.9	277.3	268.8	296.6	319.0	347.6	341.4	351.5	410.2	414.8
453.4	77.5°	346.0	215.5	210.1	227.9	258.8	290.4	300.5	414.8	700.6	728.4
235.6	80°	200.8	160.7	154.5	168.4	195.4	224.8	289.7	509.0	461.9	456.5
105.8	82.5°	112.0	110.5	102.7	106.6	130.5	162.2	409.4	358.4	291.2	300.5
42.5	85°	52.5	64.9	55.6	53.3	73.4	190.0	273.4	204.7	135.9	132.9
9.3	87.5°	13.9	12.4	12.4	13.9	30.9	163.8	108.9	87.3	51.8	50.2
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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