

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: P948550

Luminaire Tested: **GALN-SB3C-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948550
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-SB3C-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 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: 19872 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

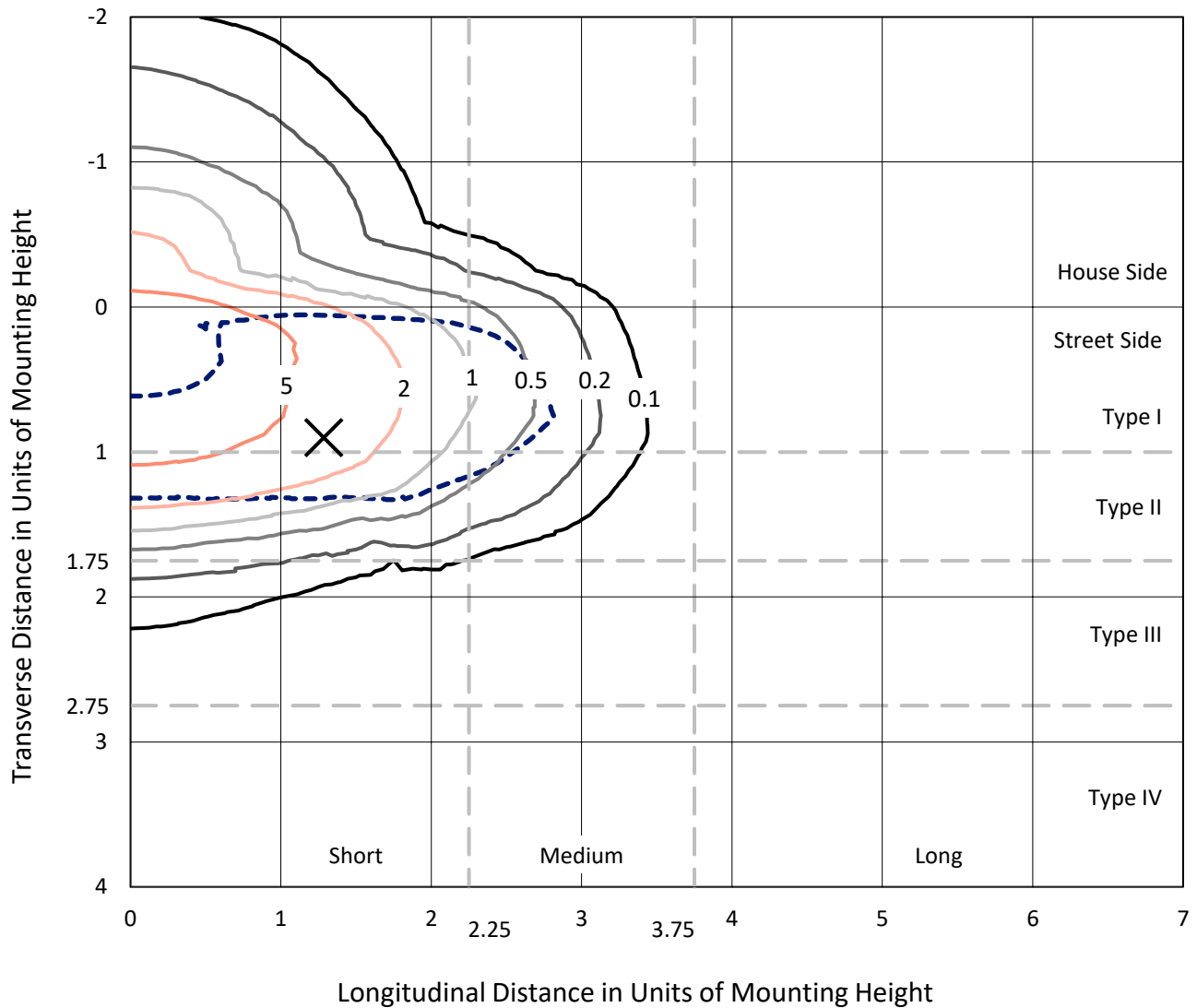
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

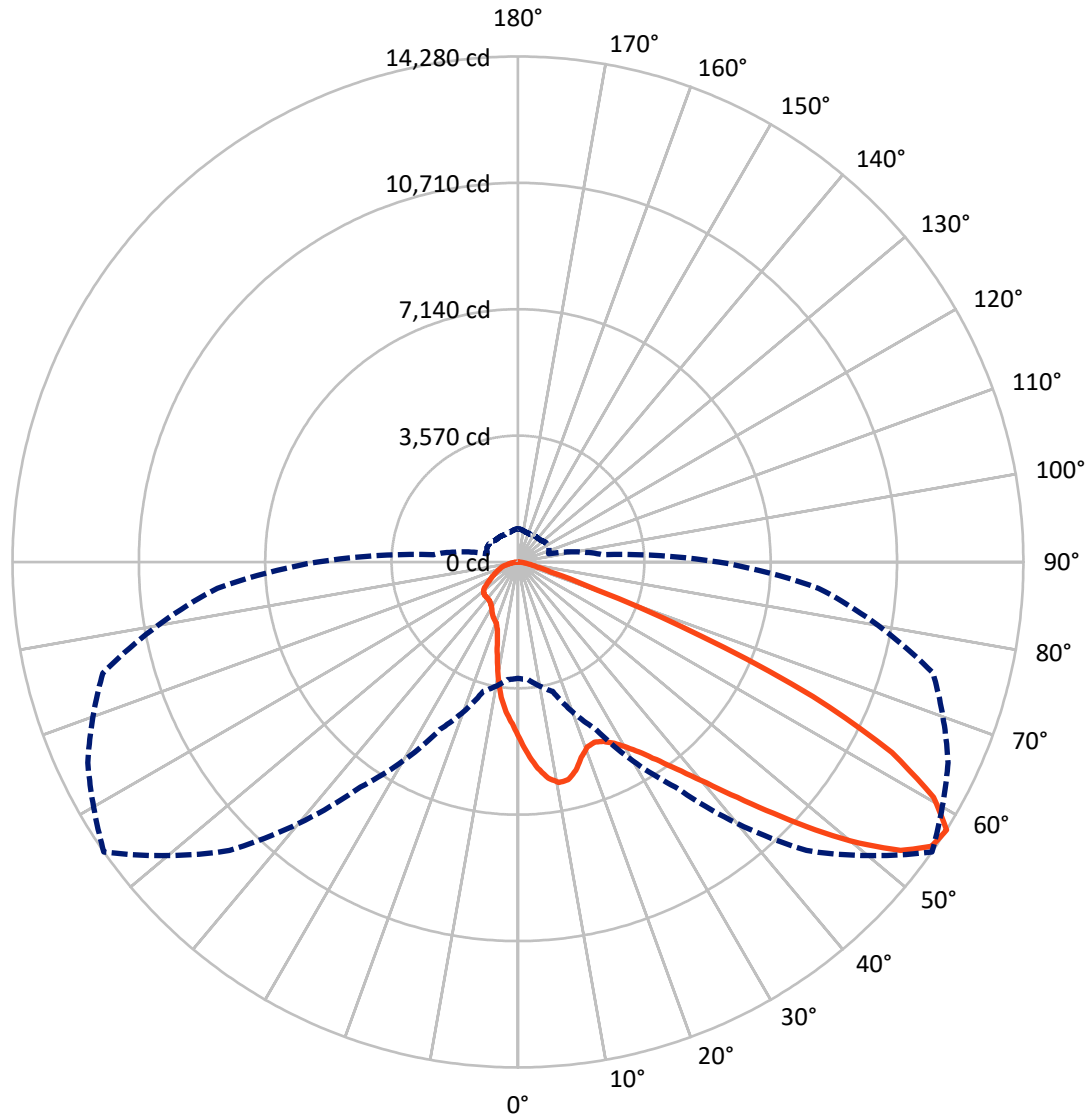
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	3595.7	0.0	3595.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16276.3	0.0	16276.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	19872.0	0.0	19872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.0	2.3
10°-20°	1166.2	5.9
20°-30°	1861.0	9.4
30°-40°	2946.4	14.8
40°-50°	4509.7	22.7
50°-60°	4830.3	24.3
60°-70°	3038.8	15.3
70°-80°	898.6	4.5
80°-90°	158.9	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°	19872.0	100.0
0°-180°	19872.0	100.0

Coefficient of Utilization



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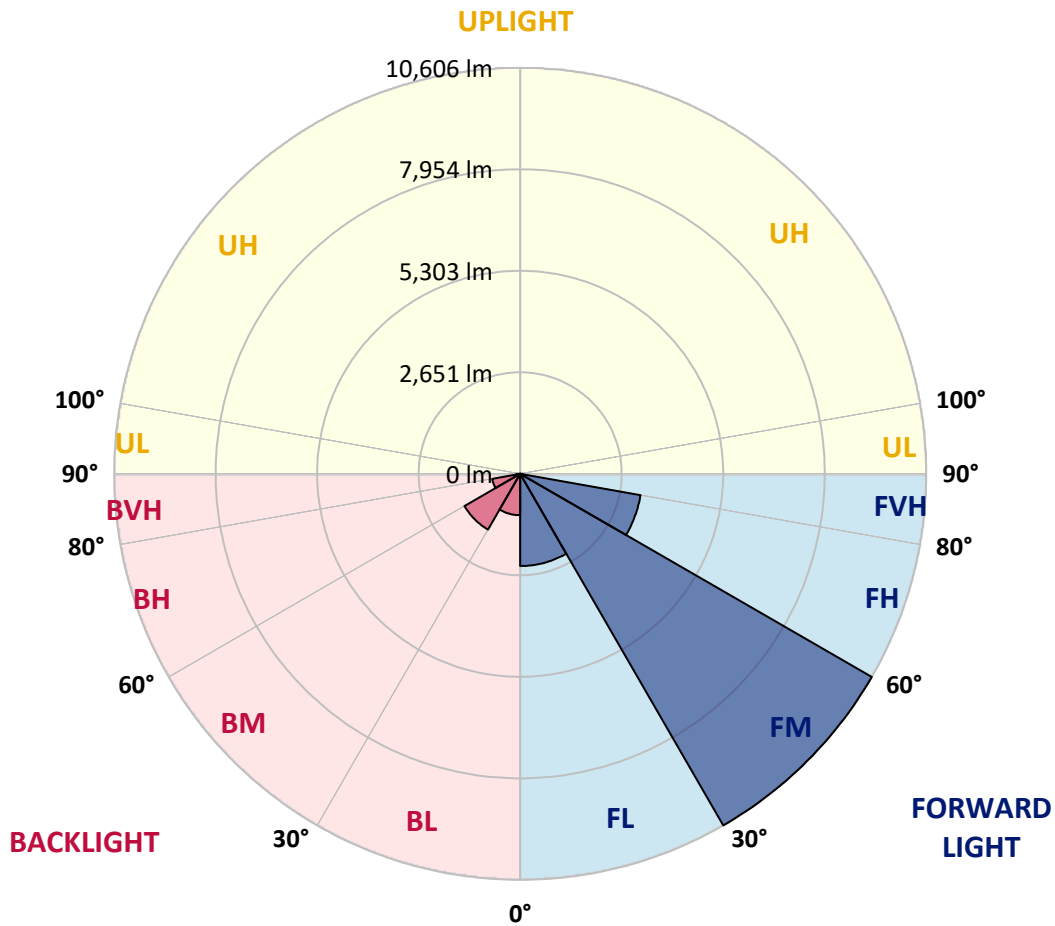
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2408.5	12.1			
FM (30°-60°)	10605.8	53.4			
FH (60°-80°)	3194.8	16.1			G2/5000
FVH (80°-90°)	67.1	0.3			G1/100
BL (0°-30°)	1080.8	5.4	B3/2500		
BM (30°-60°)	1680.6	8.5	B2/2500		
BH (60°-80°)	742.6	3.7	B2/1000		G2/1000
BVH (80°-90°)	91.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4979.3	4979.3	4979.3	4979.3	4979.3	4979.3	4979.3	4979.3	4979.3	4979.3
2.5°	5712.8	5708.7	5731.3	5654.2	5601.8	5530.9	5437.4	5318.3	5189.9	5054.3
5°	6227.4	6191.5	6215.1	6157.6	6100.1	5993.2	5854.5	5660.4	5423.1	5152.9
7.5°	6146.3	6121.6	6182.2	6233.6	6276.7	6263.4	6161.7	5958.3	5652.2	5259.7
10°	5491.9	5464.2	5549.4	5727.1	5988.1	6215.1	6338.4	6212.0	5886.4	5376.8
12.5°	4914.6	4901.2	4957.7	5101.5	5391.2	5826.8	6315.8	6433.9	6129.8	5515.5
15°	4668.0	4651.6	4687.5	4760.5	4945.4	5351.2	6110.3	6586.0	6369.2	5675.8
17.5°	4613.6	4595.1	4610.5	4648.5	4767.7	5076.9	5800.1	6661.0	6618.8	5854.5
20°	4714.2	4698.8	4700.9	4698.8	4782.0	5027.6	5584.4	6632.2	6836.6	6018.9
22.5°	4957.7	4932.0	4933.1	4878.6	4923.8	5113.9	5527.9	6555.1	7030.8	6162.7
25°	5354.2	5308.0	5317.3	5178.6	5166.2	5307.0	5616.2	6495.6	7223.9	6277.8
27.5°	5896.6	5844.3	5816.5	5610.0	5511.4	5581.3	5796.0	6516.1	7406.8	6377.4
30°	6574.7	6511.0	6454.5	6161.7	5982.9	5957.3	6075.4	6651.7	7622.5	6482.2
32.5°	7405.7	7331.8	7229.0	6840.7	6589.0	6454.5	6437.0	6893.1	7875.2	6615.8
35°	8395.0	8298.5	8152.6	7650.2	7331.8	7056.5	6913.7	7241.4	8221.4	6817.1
37.5°	9414.1	9305.2	9171.7	8573.8	8182.4	7776.6	7495.1	7713.9	8682.7	7090.4
40°	10354.1	10231.8	10107.5	9575.4	9155.2	8666.2	8207.0	8311.8	9246.6	7417.0
42.5°	10908.8	10818.4	10771.1	10483.5	10158.9	9662.7	9092.6	9020.6	9880.5	7793.0
45°	10884.1	10847.2	10993.0	11112.2	11035.2	10759.8	10130.1	9804.5	10516.4	8118.7
47.5°	10302.7	10327.4	10653.0	11322.8	11617.6	11761.5	11311.5	10573.9	11069.1	8362.1
50°	8720.7	8741.2	9495.2	10939.6	11767.6	12578.1	12483.6	11324.9	11497.4	8511.1
52.5°	7468.4	7481.8	7805.4	9803.4	11272.5	12989.1	13539.7	12032.7	11810.8	8552.2
55°	5625.4	5671.7	6034.3	7691.3	9984.2	12663.4	14182.8	12762.0	12009.0	8556.3
57.5°	3286.3	3336.6	3784.5	5220.7	7760.2	11528.3	14280.4	13409.2	12143.6	8523.4
60°	1609.8	1631.3	1826.5	2743.9	4785.1	9341.2	13495.5	13722.5	12218.6	8506.0
62.5°	1084.8	1081.7	1090.0	1354.0	2357.6	6001.4	11860.1	13174.0	12178.5	8439.2
65°	932.8	921.5	890.7	950.2	1221.4	2744.9	9163.4	11536.5	11873.4	8271.7
67.5°	806.4	807.5	808.5	790.0	872.2	1266.6	5599.8	9087.4	10778.3	7478.7
70°	667.7	677.0	681.1	681.1	710.9	831.1	2390.5	6228.5	8501.9	5863.8
72.5°	608.2	588.6	590.7	580.4	580.4	632.8	962.6	3530.8	5356.3	3298.6
75°	496.2	508.5	510.6	503.4	479.7	482.8	571.2	1481.4	2291.9	1368.4
77.5°	428.4	428.4	432.5	427.4	408.9	361.6	381.1	574.3	779.7	560.9
80°	344.1	343.1	360.6	370.9	342.1	267.1	243.5	317.4	346.2	246.5
82.5°	167.4	177.7	247.6	282.5	259.9	193.1	149.0	197.2	184.9	108.9
85°	97.6	92.5	110.9	157.2	149.0	106.8	71.9	102.7	96.6	55.5
87.5°	30.8	28.8	22.6	53.4	43.1	29.8	19.5	29.8	26.7	12.3
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°
4979.3	0°	4979.3	4979.3	4979.3	4979.3	4979.3	4979.3	4979.3	4979.3	4979.3	4979.3
4995.7	2.5°	4922.8	4801.6	4681.4	4571.4	4504.7	4461.5	4418.4	4370.1	4351.6	4323.9
5009.1	5°	4873.5	4639.2	4430.7	4250.9	4087.6	3959.2	3829.7	3725.0	3677.7	3709.5
5051.2	7.5°	4844.7	4505.7	4184.2	3854.4	3537.0	3283.2	3062.4	2907.2	2837.4	2854.8
5092.3	10°	4819.0	4354.7	3864.7	3343.8	2887.7	2573.4	2347.4	2229.2	2185.0	2194.3
5147.8	12.5°	4795.4	4185.2	3479.4	2794.2	2309.3	2101.8	2037.1	2038.1	2046.4	2052.5
5236.1	15°	4791.3	3980.8	3049.0	2313.5	1997.1	1983.7	2053.6	2097.7	2121.4	2128.5
5310.1	17.5°	4785.1	3736.3	2610.3	1985.8	1921.0	2011.4	2076.2	2104.9	2123.4	2124.4
5382.0	20°	4760.5	3426.0	2205.6	1829.6	1904.6	1982.7	2022.7	2045.3	2060.7	2065.9
5436.4	22.5°	4684.4	3080.8	1890.2	1759.7	1838.9	1901.5	1948.8	1974.5	1983.7	1989.9
5446.7	25°	4547.8	2694.6	1672.4	1693.0	1747.4	1826.5	1864.5	1869.7	1866.6	1875.8
5421.0	27.5°	4369.1	2280.6	1536.8	1602.6	1672.4	1740.2	1760.8	1757.7	1751.5	1761.8
5376.8	30°	4153.3	1908.7	1450.5	1500.9	1596.4	1658.0	1676.5	1669.3	1657.0	1668.3
5354.2	32.5°	3925.3	1604.6	1379.7	1430.0	1533.7	1594.4	1612.8	1605.7	1596.4	1605.7
5379.9	35°	3712.6	1392.0	1313.9	1382.7	1484.4	1544.0	1567.6	1568.7	1568.7	1580.0
5447.7	37.5°	3517.4	1267.7	1259.5	1352.9	1450.5	1504.0	1537.9	1539.9	1495.7	1498.8
5562.8	40°	3336.6	1215.3	1234.8	1333.4	1417.7	1469.0	1471.1	1356.0	1274.9	1272.8
5694.3	42.5°	3188.7	1205.0	1242.0	1331.4	1394.0	1396.1	1251.2	1161.9	1139.3	1140.3
5815.5	45°	3050.0	1201.9	1258.4	1331.4	1359.1	1206.0	1108.4	1084.8	1086.9	1095.1
5869.9	47.5°	2894.9	1189.6	1261.5	1312.9	1258.4	1072.5	1043.7	1033.5	1029.3	1031.4
5857.6	50°	2725.4	1145.4	1222.5	1275.9	1085.8	1015.0	979.0	975.9	981.1	984.1
5788.8	52.5°	2546.7	1073.5	1155.7	1209.1	1006.7	964.6	924.6	931.8	954.4	961.5
5716.9	55°	2429.5	989.3	1067.4	1075.6	951.3	917.4	883.5	899.9	942.0	955.4
5673.7	57.5°	2398.7	899.9	966.7	957.4	880.4	876.3	855.7	870.1	923.5	943.1
5671.7	60°	2389.5	819.8	868.1	860.9	811.6	831.1	825.9	833.1	851.6	857.8
5651.1	62.5°	2317.6	756.1	779.7	769.4	749.9	783.8	796.2	780.7	795.1	802.3
5510.4	65°	2134.7	704.7	693.4	686.2	694.4	725.3	749.9	719.1	732.5	753.0
4968.0	67.5°	1832.7	634.9	604.0	612.3	637.9	654.4	686.2	651.3	662.6	697.5
4001.3	70°	1482.4	546.5	518.8	542.4	567.1	601.0	606.1	582.5	609.2	648.2
2441.9	72.5°	1048.9	457.1	437.6	485.9	494.1	538.3	527.0	515.7	552.7	566.0
1207.1	75°	727.3	368.8	357.5	394.5	424.3	462.3	454.1	467.4	545.5	551.7
603.0	77.5°	460.2	286.6	279.4	303.1	344.1	386.3	399.6	551.7	931.8	968.7
313.3	80°	267.1	213.7	205.5	223.9	259.9	298.9	385.2	677.0	614.3	607.1
140.7	82.5°	149.0	146.9	136.6	141.8	173.6	215.7	544.5	476.7	387.3	399.6
56.5	85°	69.9	86.3	74.0	70.9	97.6	252.7	363.7	272.2	180.8	176.7
12.3	87.5°	18.5	16.4	16.4	18.5	41.1	217.8	144.8	116.1	68.8	66.8
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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