

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: P952309

Luminaire Tested: **GALN-SB6A-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952309
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-SB6A-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19245 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

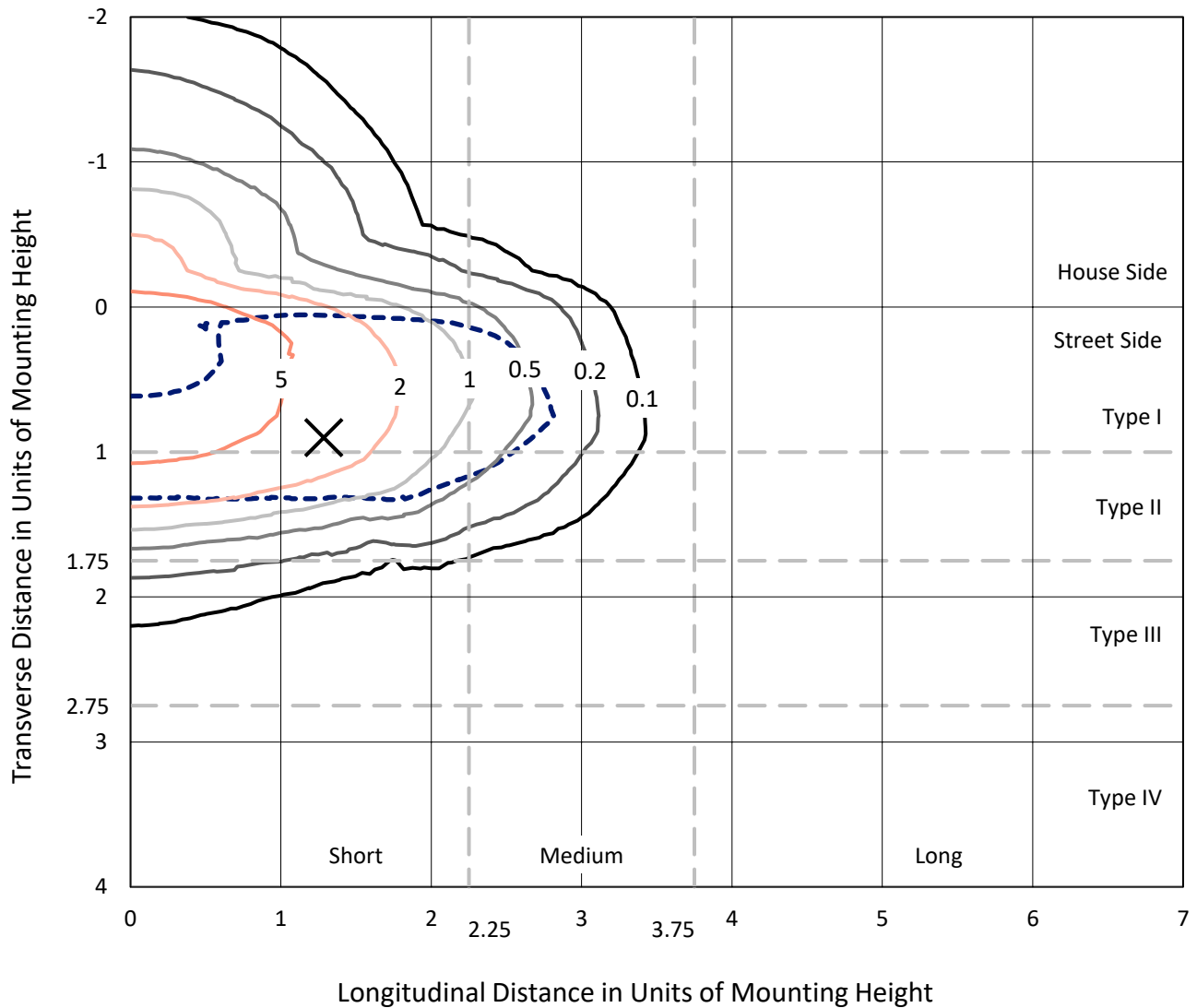
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

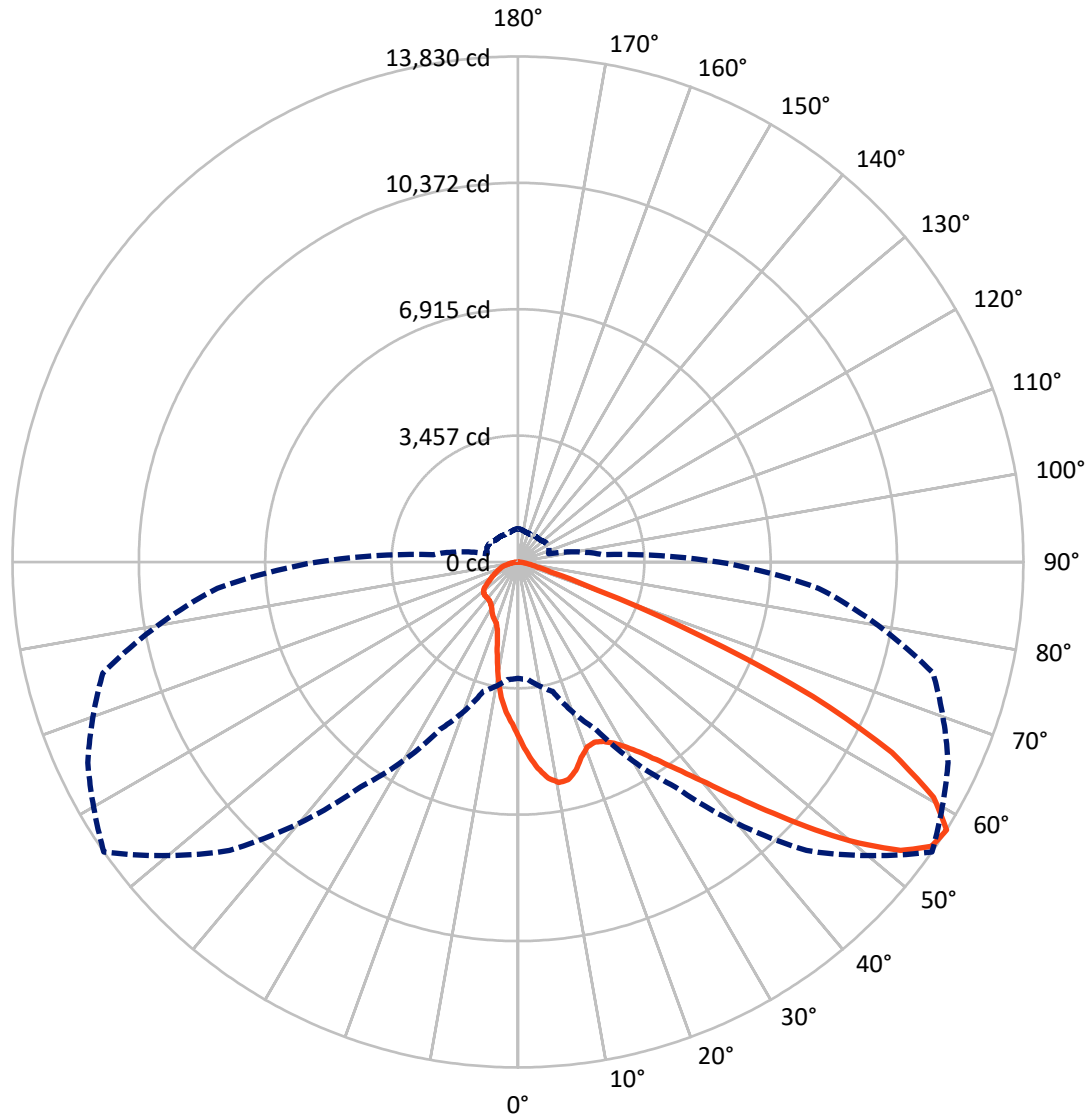
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	3482.3	0.0	3482.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15762.7	0.0	15762.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	19245.0	0.0	19245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.5	2.3
10°-20°	1129.4	5.9
20°-30°	1802.3	9.4
30°-40°	2853.4	14.8
40°-50°	4367.4	22.7
50°-60°	4677.9	24.3
60°-70°	2942.9	15.3
70°-80°	870.3	4.5
80°-90°	153.9	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°	19245.0	100.0
0°-180°	19245.0	100.0

Coefficient of Utilization



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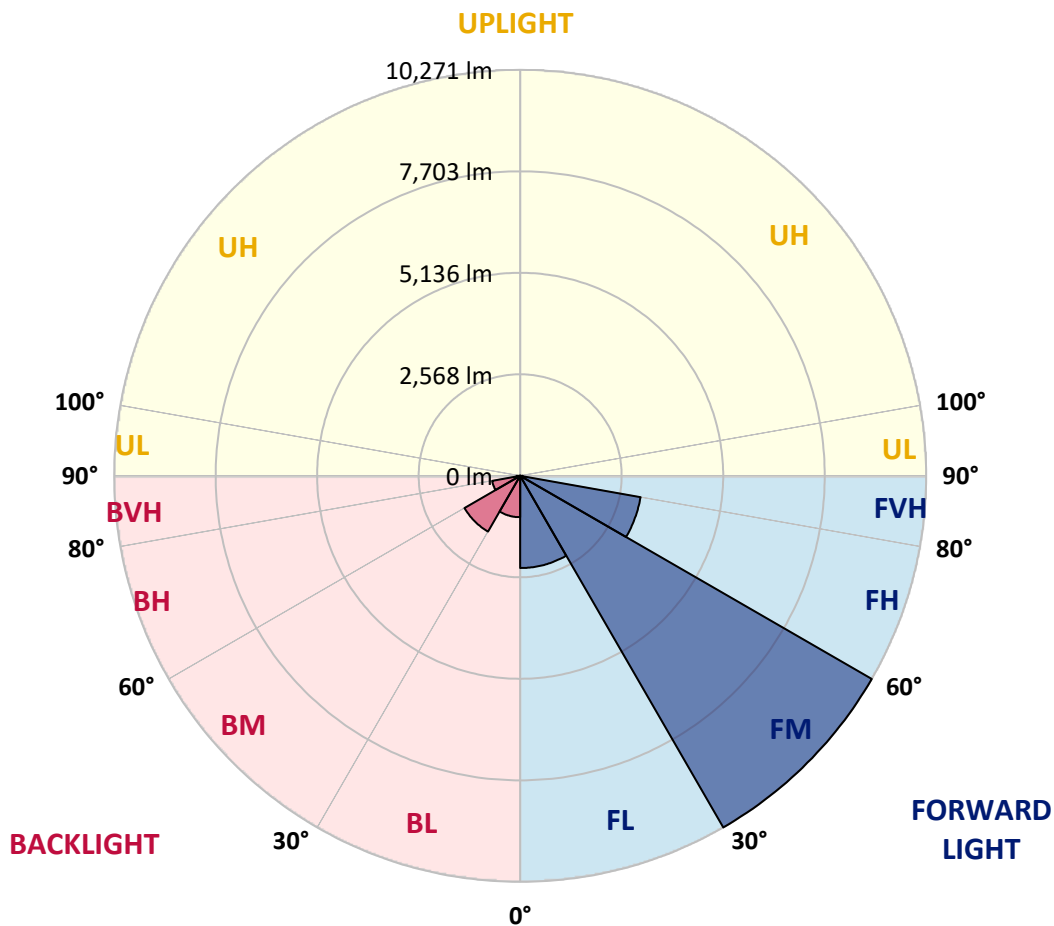
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2332.5	12.1			
FM (30°-60°)	10271.2	53.4			
FH (60°-80°)	3094.0	16.1			G2/5000
FVH (80°-90°)	65.0	0.3			G1/100
BL (0°-30°)	1046.7	5.4	B3/2500		
BM (30°-60°)	1627.6	8.5	B2/2500		
BH (60°-80°)	719.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	88.9	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°	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2
2.5°	5532.5	5528.5	5550.4	5475.8	5425.1	5356.4	5265.9	5150.5	5026.1	4894.8
5°	6030.9	5996.1	6019.0	5963.3	5907.6	5804.1	5669.8	5481.8	5252.0	4990.3
7.5°	5952.4	5928.5	5987.2	6036.9	6078.7	6065.8	5967.3	5770.3	5473.8	5093.8
10°	5318.6	5291.8	5374.3	5546.4	5799.1	6019.0	6138.4	6016.0	5700.6	5207.2
12.5°	4759.5	4746.6	4801.3	4940.6	5221.1	5642.9	6116.5	6230.9	5936.4	5341.5
15°	4520.7	4504.8	4539.6	4610.3	4789.3	5182.3	5917.5	6378.2	6168.2	5496.7
17.5°	4468.0	4450.1	4465.0	4501.8	4617.2	4916.7	5617.1	6450.8	6410.0	5669.8
20°	4565.5	4550.6	4552.6	4550.6	4631.2	4868.9	5408.2	6422.9	6620.9	5829.0
22.5°	4801.3	4776.4	4777.4	4724.7	4768.4	4952.5	5353.4	6348.3	6808.9	5968.3
25°	5185.3	5140.5	5149.5	5015.2	5003.2	5139.5	5439.0	6290.6	6996.0	6079.7
27.5°	5710.6	5659.9	5633.0	5433.0	5337.5	5405.2	5613.1	6310.5	7173.1	6176.2
30°	6367.2	6305.5	6250.8	5967.3	5794.2	5769.3	5883.7	6441.8	7382.0	6277.7
32.5°	7172.1	7100.4	7001.0	6624.9	6381.1	6250.8	6233.9	6675.6	7626.7	6407.0
35°	8130.1	8036.6	7895.3	7408.9	7100.4	6833.8	6695.5	7012.9	7962.0	6602.0
37.5°	9117.1	9011.6	8882.3	8303.2	7924.2	7531.2	7258.6	7470.5	8408.7	6866.6
40°	10027.4	9909.0	9788.6	9273.3	8866.4	8392.8	7948.1	8049.6	8954.9	7183.0
42.5°	10564.6	10477.1	10431.3	10152.7	9838.3	9357.8	8805.7	8736.0	9568.7	7547.1
45°	10540.7	10504.9	10646.2	10761.6	10687.0	10420.3	9810.5	9495.1	10184.6	7862.5
47.5°	9977.6	10001.5	10316.9	10965.5	11251.1	11390.4	10954.6	10240.3	10719.8	8098.3
50°	8445.5	8465.4	9195.7	10594.5	11396.3	12181.3	12089.8	10967.5	11134.7	8242.6
52.5°	7232.8	7245.7	7559.1	9494.1	10916.8	12579.2	13112.5	11653.0	11438.1	8282.4
55°	5448.0	5492.7	5843.9	7448.6	9669.2	12263.9	13735.3	12359.4	11630.1	8286.3
57.5°	3182.6	3231.4	3665.1	5056.0	7515.3	11164.5	13829.8	12986.1	11760.4	8254.5
60°	1559.0	1579.9	1768.9	2657.3	4634.1	9046.4	13069.7	13289.6	11833.1	8237.6
62.5°	1050.6	1047.6	1055.6	1311.2	2283.2	5812.1	11485.9	12758.3	11794.3	8172.9
65°	903.3	892.4	862.6	920.3	1182.9	2658.3	8874.3	11172.5	11498.8	8010.8
67.5°	781.0	782.0	783.0	765.1	844.7	1226.7	5423.1	8800.7	10438.3	7242.7
70°	646.7	655.6	659.6	659.6	688.5	804.9	2315.1	6031.9	8233.6	5678.8
72.5°	589.0	570.1	572.1	562.1	562.1	612.8	932.2	3419.4	5187.3	3194.6
75°	480.5	492.5	494.5	487.5	464.6	467.6	553.2	1434.6	2219.6	1325.2
77.5°	414.9	414.9	418.8	413.9	396.0	350.2	369.1	556.1	755.1	543.2
80°	333.3	332.3	349.2	359.2	331.3	258.7	235.8	307.4	335.3	238.8
82.5°	162.2	172.1	239.8	273.6	251.7	187.0	144.3	191.0	179.1	105.5
85°	94.5	89.5	107.4	152.2	144.3	103.5	69.6	99.5	93.5	53.7
87.5°	29.8	27.9	21.9	51.7	41.8	28.9	18.9	28.9	25.9	11.9
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°
4822.2	0°	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2	4822.2
4838.1	2.5°	4767.5	4650.1	4533.7	4427.2	4362.5	4320.8	4279.0	4232.2	4214.3	4187.4
4851.0	5°	4719.7	4492.9	4290.9	4116.8	3958.6	3834.3	3708.9	3607.4	3561.7	3592.5
4891.8	7.5°	4691.8	4363.5	4052.1	3732.8	3425.4	3179.6	2965.7	2815.5	2747.9	2764.8
4931.6	10°	4667.0	4217.3	3742.7	3238.3	2796.6	2492.2	2273.3	2158.9	2116.1	2125.1
4985.3	12.5°	4644.1	4053.1	3369.7	2706.1	2236.5	2035.5	1972.8	1973.8	1981.8	1987.8
5070.9	15°	4640.1	3855.2	2952.8	2240.5	1934.0	1921.1	1988.8	2031.5	2054.4	2061.4
5142.5	17.5°	4634.1	3618.4	2528.0	1923.1	1860.4	1948.0	2010.6	2038.5	2056.4	2057.4
5212.2	20°	4610.3	3317.9	2136.0	1771.9	1844.5	1920.1	1958.9	1980.8	1995.7	2000.7
5264.9	22.5°	4536.6	2983.6	1830.6	1704.2	1780.8	1841.5	1887.3	1912.2	1921.1	1927.1
5274.8	25°	4404.3	2609.6	1619.7	1639.6	1692.3	1768.9	1805.7	1810.7	1807.7	1816.6
5250.0	27.5°	4231.2	2208.6	1488.3	1552.0	1619.7	1685.3	1705.2	1702.2	1696.3	1706.2
5207.2	30°	4022.3	1848.5	1404.8	1453.5	1546.0	1605.7	1623.6	1616.7	1604.7	1615.7
5185.3	32.5°	3801.4	1554.0	1336.1	1384.9	1485.4	1544.1	1562.0	1555.0	1546.0	1555.0
5210.2	35°	3595.5	1348.1	1272.4	1339.1	1437.6	1495.3	1518.2	1519.2	1519.2	1530.1
5275.8	37.5°	3406.5	1227.7	1219.7	1310.3	1404.8	1456.5	1489.3	1491.3	1448.5	1451.5
5387.3	40°	3231.4	1176.9	1195.8	1291.4	1372.9	1422.7	1424.7	1313.2	1234.6	1232.7
5514.6	42.5°	3088.1	1167.0	1202.8	1289.4	1350.0	1352.0	1211.8	1125.2	1103.3	1104.3
5632.0	45°	2953.8	1164.0	1218.7	1289.4	1316.2	1168.0	1073.5	1050.6	1052.6	1060.5
5684.7	47.5°	2803.6	1152.1	1221.7	1271.5	1218.7	1038.7	1010.8	1000.8	996.9	998.9
5672.8	50°	2639.4	1109.3	1183.9	1235.6	1051.6	982.9	948.1	945.1	950.1	953.1
5606.1	52.5°	2466.3	1039.6	1119.2	1171.0	975.0	934.2	895.4	902.4	924.2	931.2
5536.5	55°	2352.9	958.1	1033.7	1041.6	921.3	888.4	855.6	871.5	912.3	925.2
5494.7	57.5°	2323.0	871.5	936.2	927.2	852.6	848.6	828.7	842.7	894.4	913.3
5492.7	60°	2314.1	793.9	840.7	833.7	786.0	804.9	799.9	806.8	824.8	830.7
5472.8	62.5°	2244.4	732.2	755.1	745.2	726.3	759.1	771.0	756.1	770.0	777.0
5336.5	65°	2067.4	682.5	671.5	664.6	672.5	702.4	726.3	696.4	709.3	729.2
4811.2	67.5°	1774.9	614.8	585.0	592.9	617.8	633.7	664.6	630.8	641.7	675.5
3875.0	70°	1435.6	529.3	502.4	525.3	549.2	582.0	587.0	564.1	590.0	627.8
2364.8	72.5°	1015.8	442.7	423.8	470.6	478.5	521.3	510.4	499.4	535.2	548.2
1169.0	75°	704.4	357.2	346.2	382.0	410.9	447.7	439.7	452.7	528.3	534.2
584.0	77.5°	445.7	277.6	270.6	293.5	333.3	374.1	387.0	534.2	902.4	938.2
303.4	80°	258.7	206.9	199.0	216.9	251.7	289.5	373.1	655.6	594.9	588.0
136.3	82.5°	144.3	142.3	132.3	137.3	168.1	208.9	527.3	461.6	375.1	387.0
54.7	85°	67.7	83.6	71.6	68.6	94.5	244.7	352.2	263.6	175.1	171.1
11.9	87.5°	17.9	15.9	15.9	17.9	39.8	210.9	140.3	112.4	66.7	64.7
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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