

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: P951595

Luminaire Tested: **GALN-SB5C-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951595
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-SB5C-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26765 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

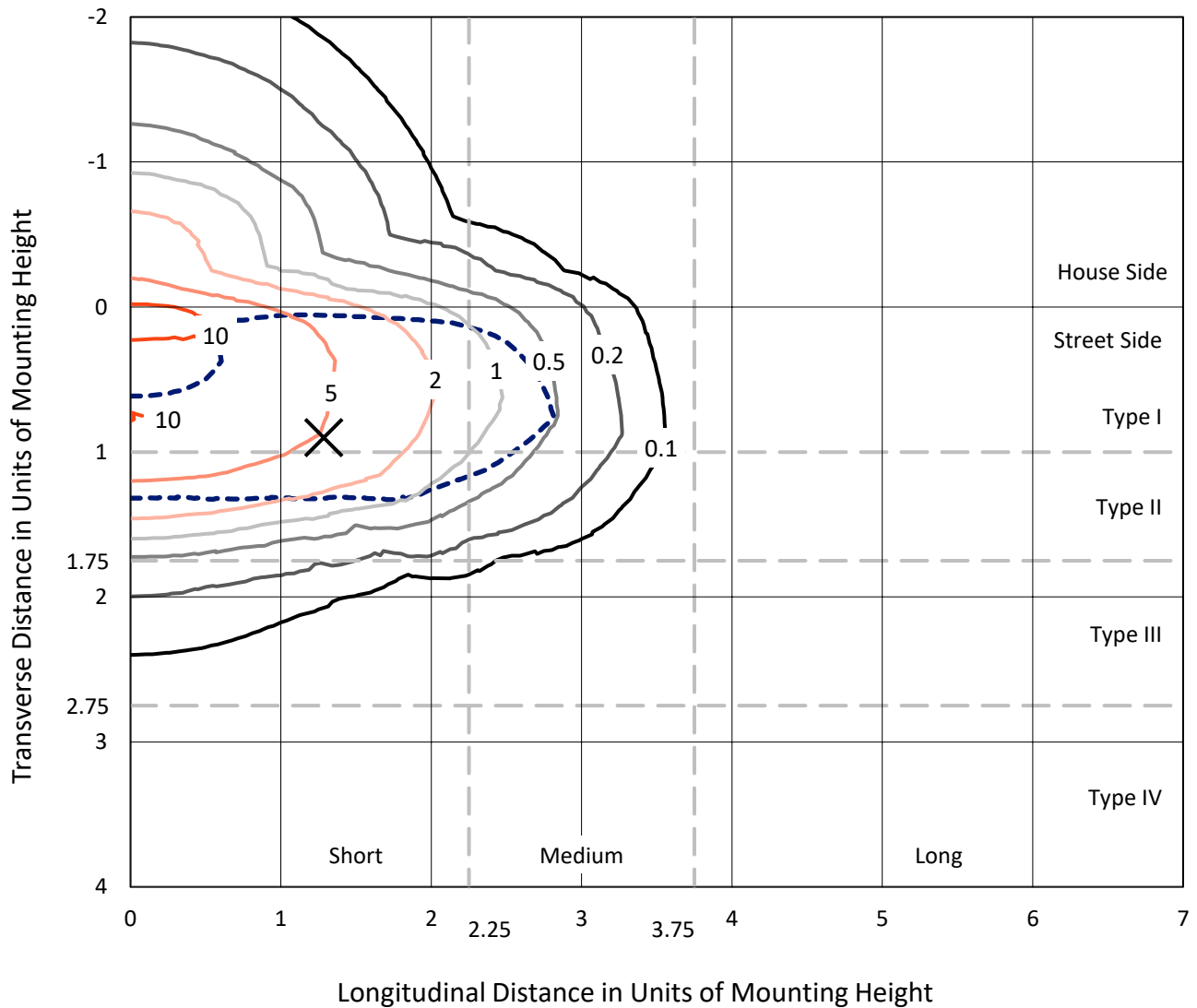
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

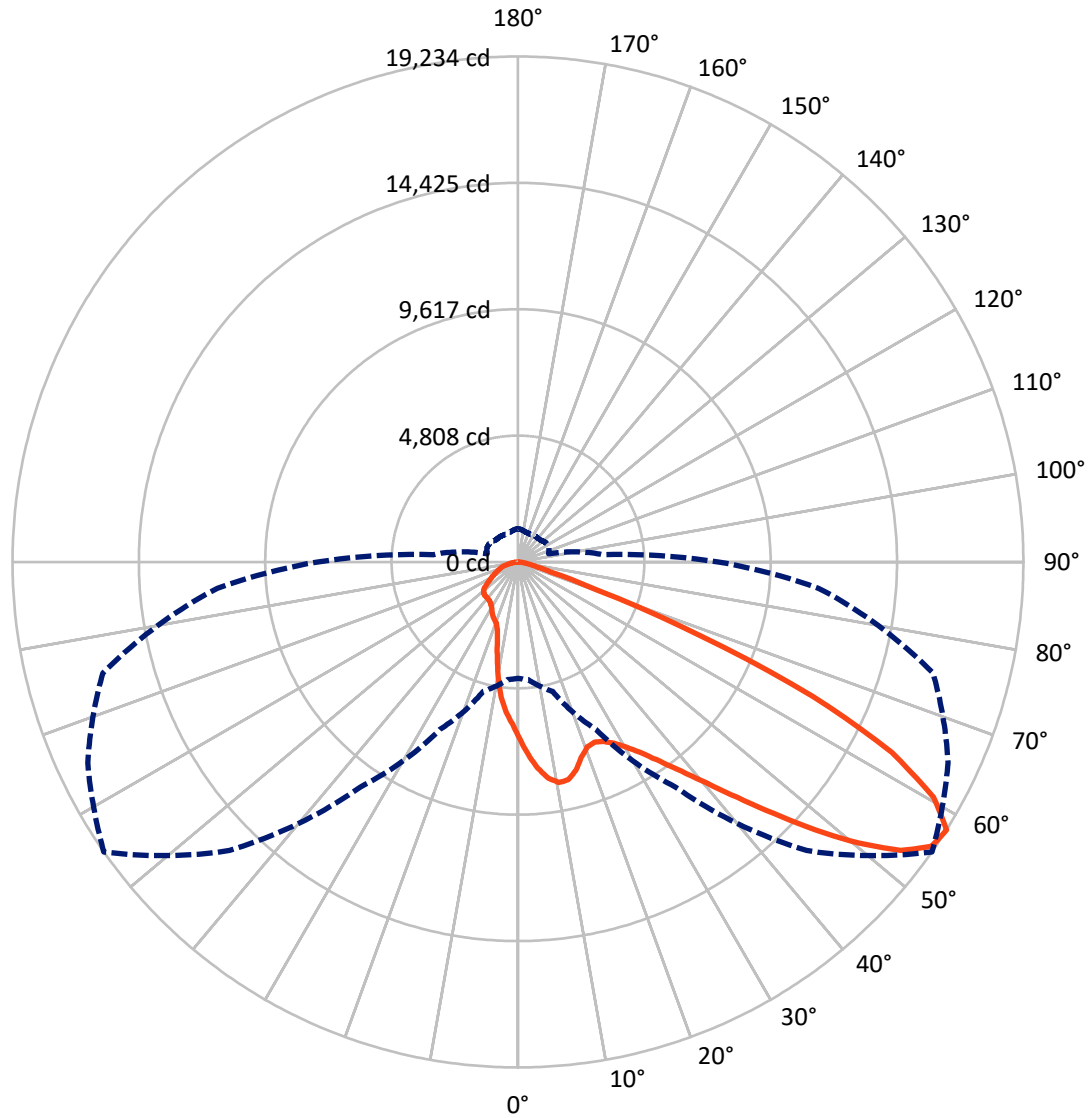
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	4843.0	0.0	4843.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21922.0	0.0	21922.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	26765.0	0.0	26765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.3	2.3
10°-20°	1570.8	5.9
20°-30°	2506.5	9.4
30°-40°	3968.4	14.8
40°-50°	6074.0	22.7
50°-60°	6505.8	24.3
60°-70°	4092.9	15.3
70°-80°	1210.3	4.5
80°-90°	214.0	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°	26765.0	100.0
0°-180°	26765.0	100.0

Coefficient of Utilization



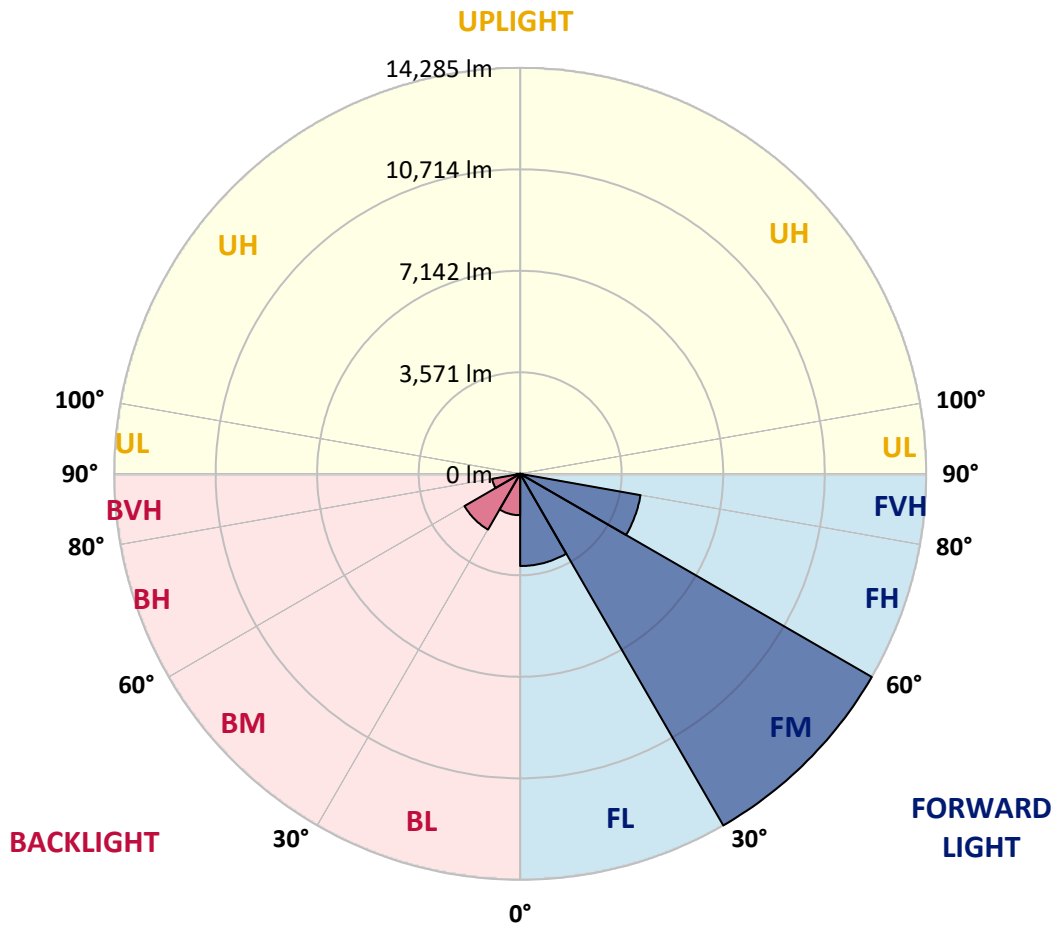
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3243.9	12.1			
FM (30°-60°)	14284.7	53.4			
FH (60°-80°)	4303.0	16.1			G2/5000
FVH (80°-90°)	90.4	0.3			G1/100
BL (0°-30°)	1455.6	5.4	B3/2500		
BM (30°-60°)	2263.6	8.5	B2/2500		
BH (60°-80°)	1000.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	123.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6706.4	6706.4	6706.4	6706.4	6706.4	6706.4	6706.4	6706.4	6706.4	6706.4
2.5°	7694.3	7688.8	7719.3	7615.5	7544.9	7449.4	7323.5	7163.0	6990.1	6807.4
5°	8387.5	8339.1	8370.9	8293.5	8216.0	8072.1	7885.3	7623.8	7304.2	6940.3
7.5°	8278.2	8245.0	8326.7	8395.8	8454.0	8436.0	8299.0	8025.0	7612.7	7084.2
10°	7396.9	7359.5	7474.4	7713.7	8065.2	8370.9	8537.0	8366.8	7928.2	7241.9
12.5°	6619.3	6601.3	6677.4	6871.1	7261.3	7847.9	8506.5	8665.7	8256.1	7428.7
15°	6287.2	6265.1	6313.5	6411.7	6660.8	7207.3	8229.8	8870.4	8578.5	7644.5
17.5°	6213.9	6189.0	6209.7	6260.9	6421.4	6837.9	7812.0	8971.4	8914.7	7885.3
20°	6349.5	6328.7	6331.5	6328.7	6440.8	6771.5	7521.4	8932.7	9208.0	8106.7
22.5°	6677.4	6642.8	6644.2	6570.8	6631.7	6887.7	7445.3	8828.9	9469.5	8300.4
25°	7211.5	7149.2	7161.7	6974.9	6958.3	7147.8	7564.3	8748.7	9729.7	8455.3
27.5°	7942.0	7871.5	7834.1	7556.0	7423.2	7517.2	7806.4	8776.3	9976.0	8589.6
30°	8855.2	8769.4	8693.3	8299.0	8058.2	8023.7	8182.8	8959.0	10266.5	8730.7
32.5°	9974.6	9874.9	9736.6	9213.6	8874.6	8693.3	8669.8	9284.1	10606.9	8910.6
35°	11307.0	11176.9	10980.5	10303.9	9874.9	9504.1	9311.8	9753.2	11073.2	9181.7
37.5°	12679.6	12532.9	12353.0	11547.8	11020.6	10474.1	10094.9	10389.7	11694.4	9549.8
40°	13945.6	13780.9	13613.5	12896.8	12330.9	11672.3	11053.8	11194.9	12454.0	9989.8
42.5°	14692.7	14571.0	14507.3	14119.9	13682.7	13014.4	12246.5	12149.6	13307.7	10496.2
45°	14659.5	14609.7	14806.2	14966.7	14862.9	14492.1	13643.9	13205.3	14164.2	10934.8
47.5°	13876.4	13909.6	14348.2	15250.3	15647.4	15841.1	15235.1	14241.7	14908.6	11262.7
50°	11745.6	11773.3	12788.9	14734.2	15849.4	16941.1	16813.8	15253.1	15485.6	11463.3
52.5°	10059.0	10077.0	10512.8	13204.0	15182.5	17494.6	18236.2	16206.4	15907.6	11518.7
55°	7576.7	7639.0	8127.4	10359.2	13447.5	17056.0	19102.4	17188.8	16174.6	11524.2
57.5°	4426.2	4494.0	5097.3	7031.6	10451.9	15527.1	19233.8	18060.5	16355.9	11480.0
60°	2168.1	2197.2	2460.1	3695.7	6444.9	12581.3	18176.7	18482.5	16456.9	11456.4
62.5°	1461.1	1457.0	1468.0	1823.6	3175.4	8083.1	15974.0	17743.6	16402.9	11366.5
65°	1256.3	1241.1	1199.6	1279.9	1645.1	3697.1	12342.0	15538.1	15992.0	11141.0
67.5°	1086.1	1087.5	1088.9	1064.0	1174.7	1706.0	7542.2	12239.6	14517.0	10072.8
70°	899.4	911.8	917.3	917.3	957.5	1119.4	3219.7	8388.9	11450.9	7897.7
72.5°	819.1	792.8	795.6	781.7	781.7	852.3	1296.5	4755.5	7214.2	4442.8
75°	668.3	684.9	687.7	678.0	646.2	650.3	769.3	1995.2	3086.9	1843.0
77.5°	577.0	577.0	582.5	575.6	550.7	487.0	513.3	773.4	1050.2	755.5
80°	463.5	462.1	485.7	499.5	460.7	359.7	327.9	427.5	466.3	332.1
82.5°	225.5	239.4	333.5	380.5	350.1	260.1	200.6	265.7	249.1	146.7
85°	131.4	124.5	149.4	211.7	200.6	143.9	96.9	138.4	130.1	74.7
87.5°	41.5	38.7	30.4	71.9	58.1	40.1	26.3	40.1	36.0	16.6
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°
6706.4	0°	6706.4	6706.4	6706.4	6706.4	6706.4	6706.4	6706.4	6706.4	6706.4	6706.4
6728.6	2.5°	6630.3	6467.1	6305.2	6157.1	6067.2	6009.1	5951.0	5885.9	5861.0	5823.7
6746.6	5°	6563.9	6248.5	5967.6	5725.4	5505.5	5332.5	5158.2	5017.0	4953.4	4996.3
6803.3	7.5°	6525.2	6068.6	5635.5	5191.4	4763.8	4422.1	4124.6	3915.7	3821.6	3845.1
6858.6	10°	6490.6	5865.2	5205.2	4503.7	3889.4	3466.0	3161.6	3002.5	2943.0	2955.4
6933.4	12.5°	6458.8	5636.9	4686.3	3763.5	3110.4	2830.9	2743.7	2745.1	2756.2	2764.5
7052.3	15°	6453.2	5361.6	4106.6	3115.9	2689.8	2671.8	2765.9	2825.4	2857.2	2866.9
7152.0	17.5°	6444.9	5032.3	3515.8	2674.6	2587.4	2709.1	2796.3	2835.1	2860.0	2861.3
7248.8	20°	6411.7	4614.4	2970.6	2464.2	2565.2	2670.4	2724.4	2754.8	2775.6	2782.5
7322.2	22.5°	6309.3	4149.5	2545.9	2370.2	2476.7	2561.1	2624.7	2659.3	2671.8	2680.1
7336.0	25°	6125.3	3629.3	2252.5	2280.2	2353.5	2460.1	2511.3	2518.2	2514.1	2526.5
7301.4	27.5°	5884.6	3071.7	2069.9	2158.5	2252.5	2343.9	2371.5	2367.4	2359.1	2372.9
7241.9	30°	5594.0	2570.8	1953.7	2021.5	2150.2	2233.2	2258.1	2248.4	2231.8	2247.0
7211.5	32.5°	5286.8	2161.2	1858.2	1926.0	2065.8	2147.4	2172.3	2162.6	2150.2	2162.6
7246.1	35°	5000.4	1874.8	1769.7	1862.4	1999.3	2079.6	2111.4	2112.8	2112.8	2128.0
7337.4	37.5°	4737.5	1707.4	1696.3	1822.2	1953.7	2025.6	2071.3	2074.1	2014.6	2018.7
7492.3	40°	4494.0	1636.8	1663.1	1795.9	1909.4	1978.6	1981.4	1826.4	1717.1	1714.3
7669.4	42.5°	4294.8	1623.0	1672.8	1793.2	1877.6	1880.3	1685.3	1564.9	1534.4	1535.8
7832.7	45°	4108.0	1618.8	1694.9	1793.2	1830.5	1624.4	1492.9	1461.1	1463.9	1474.9
7906.0	47.5°	3899.1	1602.2	1699.1	1768.3	1694.9	1444.5	1405.8	1391.9	1386.4	1389.2
7889.4	50°	3670.8	1542.7	1646.5	1718.5	1462.5	1367.0	1318.6	1314.4	1321.4	1325.5
7796.7	52.5°	3430.0	1445.9	1556.6	1628.5	1356.0	1299.2	1245.3	1254.9	1285.4	1295.1
7699.9	55°	3272.3	1332.4	1437.6	1448.7	1281.2	1235.6	1189.9	1212.1	1268.8	1286.8
7641.8	57.5°	3230.8	1212.1	1302.0	1289.5	1185.8	1180.2	1152.6	1171.9	1243.9	1270.2
7639.0	60°	3218.3	1104.1	1169.2	1159.5	1093.1	1119.4	1112.4	1122.1	1147.0	1155.3
7611.3	62.5°	3121.5	1018.3	1050.2	1036.3	1010.0	1055.7	1072.3	1051.6	1070.9	1080.6
7421.8	65°	2875.2	949.2	933.9	924.3	935.3	976.8	1010.0	968.5	986.5	1014.2
6691.2	67.5°	2468.4	855.1	813.6	824.6	859.2	881.4	924.3	877.2	892.4	939.5
5389.2	70°	1996.6	736.1	698.7	730.6	763.8	809.4	816.3	784.5	820.5	873.1
3288.9	72.5°	1412.7	615.7	589.4	654.5	665.5	725.0	709.8	694.6	744.4	762.4
1625.8	75°	979.6	496.7	481.5	531.3	571.4	622.6	611.6	629.6	734.7	743.0
812.2	77.5°	619.9	386.0	376.3	408.2	463.5	520.2	538.2	743.0	1254.9	1304.8
422.0	80°	359.7	287.8	276.7	301.6	350.1	402.6	518.9	911.8	827.4	817.7
189.6	82.5°	200.6	197.9	184.0	190.9	233.8	290.6	733.3	642.0	521.6	538.2
76.1	85°	94.1	116.2	99.6	95.5	131.4	340.4	489.8	366.7	243.5	238.0
16.6	87.5°	24.9	22.1	22.1	24.9	55.3	293.3	195.1	156.3	92.7	89.9
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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