

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: P951574

Luminaire Tested: **GALN-SB5C-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951574
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-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27880 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

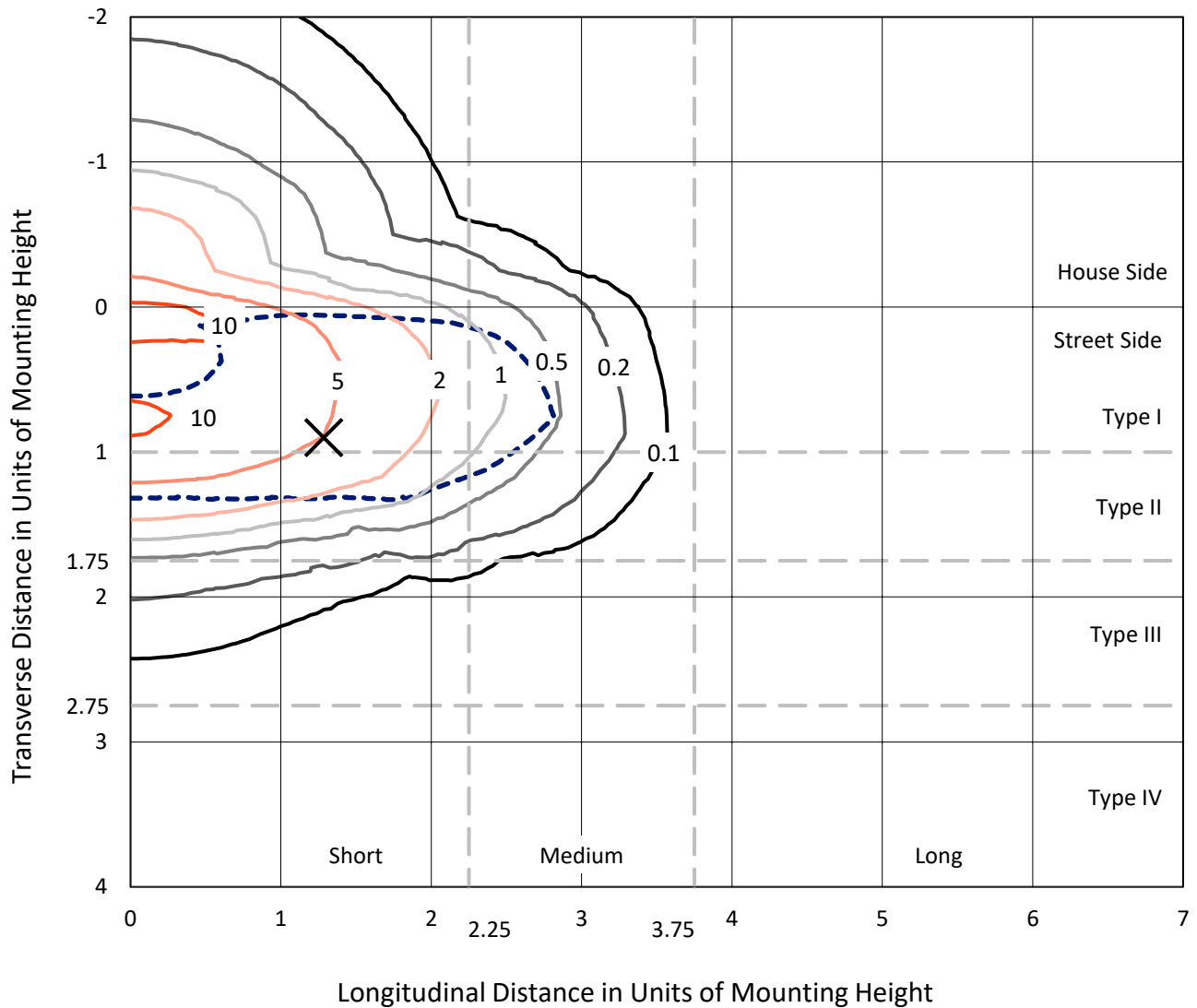
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

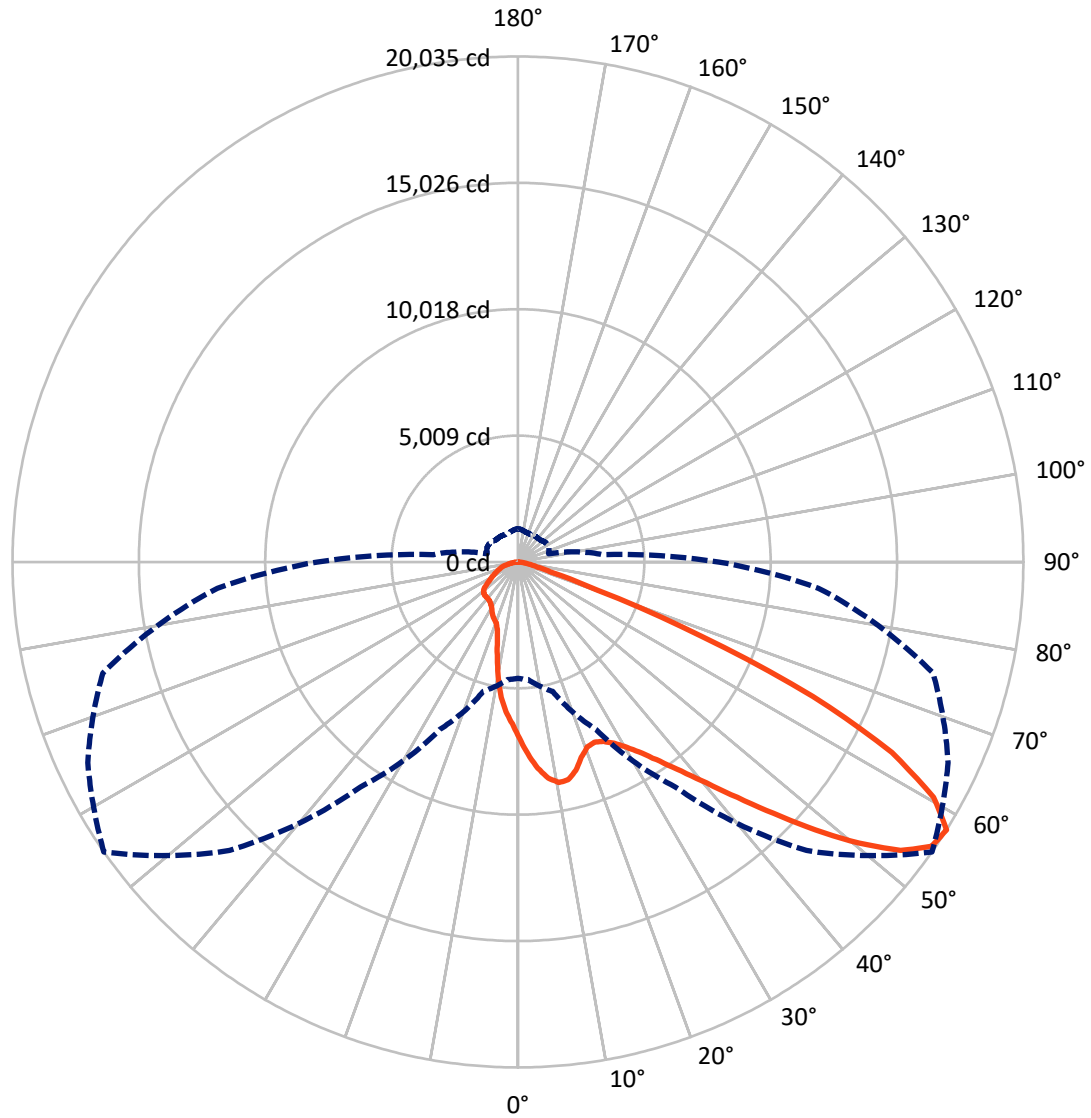
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	5044.8	0.0	5044.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22835.3	0.0	22835.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	27880.0	0.0	27880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.2	2.3
10°-20°	1636.2	5.9
20°-30°	2610.9	9.4
30°-40°	4133.7	14.8
40°-50°	6327.1	22.7
50°-60°	6776.9	24.3
60°-70°	4263.4	15.3
70°-80°	1260.8	4.5
80°-90°	222.9	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°	27880.0	100.0
0°-180°	27880.0	100.0

Coefficient of Utilization



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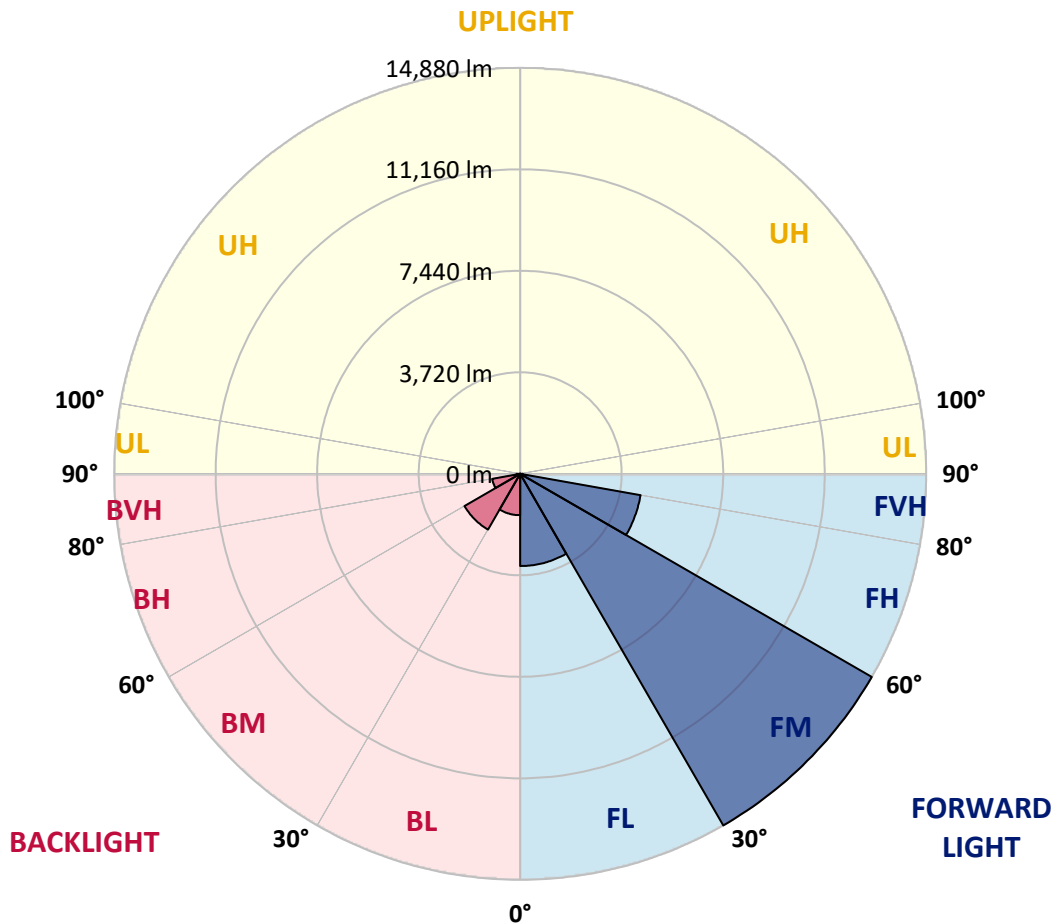
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3379.1	12.1			
FM (30°-60°)	14879.8	53.4			
FH (60°-80°)	4482.3	16.1			G2/5000
FVH (80°-90°)	94.2	0.3			G1/100
BL (0°-30°)	1516.3	5.4	B3/2500		
BM (30°-60°)	2357.9	8.5	B2/2500		
BH (60°-80°)	1041.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	128.7	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°	6985.8	6985.8	6985.8	6985.8	6985.8	6985.8	6985.8	6985.8	6985.8	6985.8
2.5°	8014.9	8009.1	8040.8	7932.7	7859.2	7759.8	7628.6	7461.4	7281.3	7091.0
5°	8737.0	8686.5	8719.7	8639.0	8558.2	8408.4	8213.8	7941.4	7608.5	7229.4
7.5°	8623.1	8588.5	8673.5	8745.6	8806.1	8787.4	8644.7	8359.4	7929.9	7379.3
10°	7705.0	7666.1	7785.7	8035.1	8401.1	8719.7	8892.6	8715.3	8258.5	7543.6
12.5°	6895.0	6876.3	6955.6	7157.3	7563.8	8174.9	8860.9	9026.7	8600.0	7738.2
15°	6549.1	6526.1	6576.5	6678.8	6938.3	7507.6	8572.7	9240.0	8935.9	7963.0
17.5°	6472.7	6446.8	6468.4	6521.7	6688.9	7122.7	8137.4	9345.2	9286.1	8213.8
20°	6614.0	6592.4	6595.2	6592.4	6709.1	7053.6	7834.7	9304.8	9591.6	8444.4
22.5°	6955.6	6919.5	6921.0	6844.6	6908.0	7174.6	7755.5	9196.7	9864.0	8646.2
25°	7511.9	7447.0	7460.0	7265.4	7248.1	7445.6	7879.4	9113.1	10135.0	8807.6
27.5°	8272.9	8199.4	8160.5	7870.8	7732.4	7830.4	8131.6	9142.0	10391.5	8947.4
30°	9224.1	9134.8	9055.5	8644.7	8393.9	8357.9	8523.7	9332.2	10694.2	9094.4
32.5°	10390.1	10286.3	10142.2	9597.4	9244.3	9055.5	9031.0	9670.9	11048.8	9281.8
35°	11778.0	11642.6	11437.9	10733.1	10286.3	9900.1	9699.7	10159.5	11534.5	9564.3
37.5°	13207.8	13055.0	12867.6	12028.8	11479.7	10910.4	10515.5	10822.5	12181.6	9947.6
40°	14526.5	14355.0	14180.6	13434.1	12844.6	12158.5	11514.3	11661.3	12972.8	10406.0
42.5°	15304.8	15178.0	15111.7	14708.1	14252.7	13556.6	12756.7	12655.8	13862.1	10933.5
45°	15270.2	15218.3	15423.0	15590.2	15482.1	15095.8	14212.3	13755.5	14754.3	11390.3
47.5°	14454.5	14489.1	14945.9	15885.6	16299.3	16501.1	15869.8	14835.0	15529.7	11731.9
50°	12234.9	12263.7	13321.6	15348.1	16509.7	17646.9	17514.3	15888.5	16130.7	11940.9
52.5°	10478.0	10496.8	10950.7	13754.0	15815.0	18223.4	18995.9	16881.6	16570.3	11998.6
55°	7892.4	7957.2	8466.0	10790.8	14007.7	17766.5	19898.1	17904.9	16848.4	12004.3
57.5°	4610.6	4681.2	5309.6	7324.5	10887.3	16173.9	20035.1	18812.9	17037.2	11958.2
60°	2258.5	2288.7	2562.6	3849.6	6713.4	13105.4	18933.9	19252.4	17142.4	11933.7
62.5°	1522.0	1517.7	1529.2	1899.6	3307.7	8419.9	16639.4	18482.8	17086.2	11840.0
65°	1308.7	1292.8	1249.6	1333.2	1713.7	3851.1	12856.1	16185.4	16658.2	11605.1
67.5°	1131.4	1132.8	1134.3	1108.3	1223.6	1777.1	7856.3	12749.5	15121.8	10492.4
70°	936.8	949.8	955.6	955.6	997.4	1166.0	3353.8	8738.4	11927.9	8226.8
72.5°	853.2	825.8	828.7	814.3	814.3	887.8	1350.5	4953.6	7514.8	4627.9
75°	696.1	713.4	716.3	706.2	673.1	677.4	801.3	2078.3	3215.5	1919.8
77.5°	601.0	601.0	606.8	599.6	573.6	507.3	534.7	805.7	1093.9	786.9
80°	482.8	481.4	505.9	520.3	479.9	374.7	341.6	445.4	485.7	345.9
82.5°	234.9	249.3	347.3	396.3	364.6	271.0	209.0	276.7	259.4	152.8
85°	136.9	129.7	155.7	220.5	209.0	149.9	100.9	144.1	135.5	77.8
87.5°	43.2	40.4	31.7	74.9	60.5	41.8	27.4	41.8	37.5	17.3
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°
6985.8	0°	6985.8	6985.8	6985.8	6985.8	6985.8	6985.8	6985.8	6985.8	6985.8	6985.8
7008.9	2.5°	6906.6	6736.5	6567.9	6413.6	6320.0	6259.4	6198.9	6131.2	6105.2	6066.3
7027.6	5°	6837.4	6508.8	6216.2	5964.0	5734.8	5554.6	5373.0	5226.0	5159.7	5204.4
7086.7	7.5°	6797.0	6321.4	5870.3	5407.6	4962.3	4606.3	4296.4	4078.8	3980.8	4005.3
7144.4	10°	6761.0	6109.5	5422.0	4691.3	4051.4	3610.4	3293.3	3127.6	3065.6	3078.5
7222.2	12.5°	6727.8	5871.7	4881.6	3920.2	3240.0	2948.8	2858.0	2859.5	2871.0	2879.7
7346.1	15°	6722.1	5584.9	4277.7	3245.7	2801.8	2783.1	2881.1	2943.1	2976.2	2986.3
7449.9	17.5°	6713.4	5241.9	3662.3	2786.0	2695.2	2822.0	2912.8	2953.2	2979.1	2980.5
7550.8	20°	6678.8	4806.6	3094.4	2566.9	2672.1	2781.6	2837.9	2869.6	2891.2	2898.4
7627.2	22.5°	6572.2	4322.4	2651.9	2468.9	2579.9	2667.8	2734.1	2770.1	2783.1	2791.7
7641.6	25°	6380.5	3780.4	2346.4	2375.2	2451.6	2562.6	2615.9	2623.1	2618.8	2631.8
7605.6	27.5°	6129.7	3199.6	2156.1	2248.4	2346.4	2441.5	2470.3	2466.0	2457.4	2471.8
7543.6	30°	5827.0	2677.9	2035.1	2105.7	2239.7	2326.2	2352.1	2342.1	2324.8	2340.6
7511.9	32.5°	5507.1	2251.3	1935.6	2006.2	2151.8	2236.8	2262.8	2252.7	2239.7	2252.7
7547.9	35°	5208.7	1952.9	1843.4	1939.9	2082.6	2166.2	2199.4	2200.8	2200.8	2216.7
7643.0	37.5°	4934.9	1778.5	1767.0	1898.1	2035.1	2110.0	2157.6	2160.5	2098.5	2102.8
7804.5	40°	4681.2	1705.0	1732.4	1870.8	1988.9	2061.0	2063.9	1902.5	1788.6	1785.7
7988.9	42.5°	4473.7	1690.6	1742.5	1867.9	1955.8	1958.7	1755.5	1630.1	1598.4	1599.8
8159.0	45°	4279.1	1686.3	1765.6	1867.9	1906.8	1692.0	1555.1	1522.0	1524.9	1536.4
8235.4	47.5°	4061.5	1669.0	1769.9	1841.9	1765.6	1504.7	1464.3	1449.9	1444.1	1447.0
8218.1	50°	3823.7	1607.0	1715.1	1790.1	1523.4	1424.0	1373.5	1369.2	1376.4	1380.7
8121.5	52.5°	3572.9	1506.1	1621.4	1696.4	1412.4	1353.4	1297.1	1307.2	1338.9	1349.0
8020.7	55°	3408.6	1387.9	1497.5	1509.0	1334.6	1287.1	1239.5	1262.6	1321.6	1340.4
7960.1	57.5°	3365.4	1262.6	1356.2	1343.3	1235.2	1229.4	1200.6	1220.8	1295.7	1323.1
7957.2	60°	3352.4	1150.1	1217.9	1207.8	1138.6	1166.0	1158.8	1168.9	1194.8	1203.5
7928.4	62.5°	3251.5	1060.8	1093.9	1079.5	1052.1	1099.7	1117.0	1095.4	1115.5	1125.6
7731.0	65°	2995.0	988.7	972.9	962.8	974.3	1017.5	1052.1	1008.9	1027.6	1056.4
6970.0	67.5°	2571.2	890.7	847.5	859.0	895.0	918.1	962.8	913.8	929.6	978.6
5613.7	70°	2079.7	766.8	727.8	761.0	795.6	843.1	850.3	817.2	854.7	909.4
3425.9	72.5°	1471.5	641.4	614.0	681.7	693.2	755.2	739.4	723.5	775.4	794.1
1693.5	75°	1020.4	517.4	501.6	553.4	595.2	648.6	637.0	655.8	765.3	774.0
846.0	77.5°	645.7	402.1	392.0	425.2	482.8	541.9	560.7	774.0	1307.2	1359.1
439.6	80°	374.7	299.8	288.3	314.2	364.6	419.4	540.5	949.8	861.9	851.8
197.5	82.5°	209.0	206.1	191.7	198.9	243.6	302.7	763.9	668.7	543.4	560.7
79.3	85°	98.0	121.1	103.8	99.4	136.9	354.6	510.2	381.9	253.7	247.9
17.3	87.5°	25.9	23.1	23.1	25.9	57.7	305.5	203.2	162.9	96.6	93.7
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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