

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: P951070

Luminaire Tested: **GALN-SB5B-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951070
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-SB5B-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25994 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

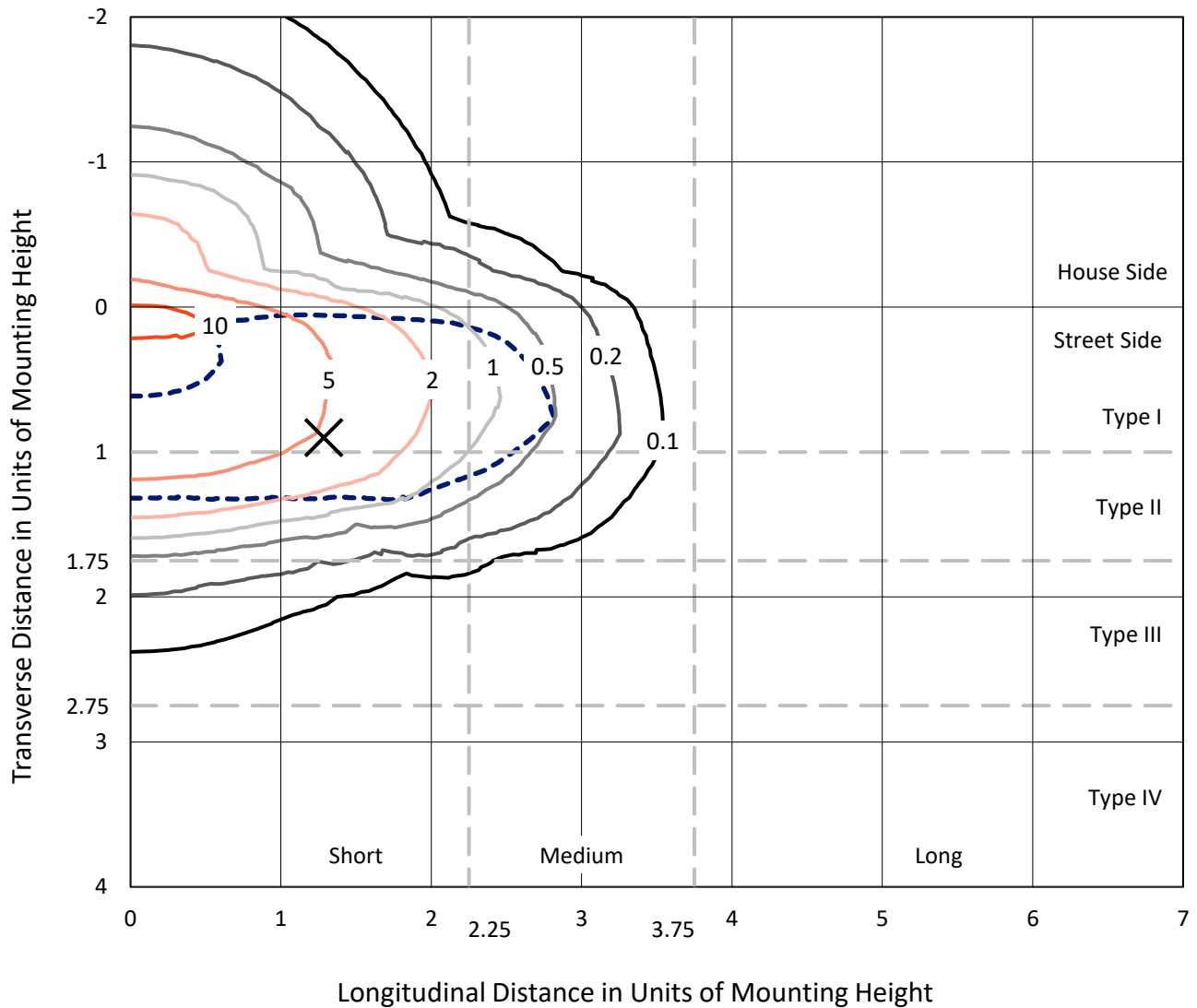
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

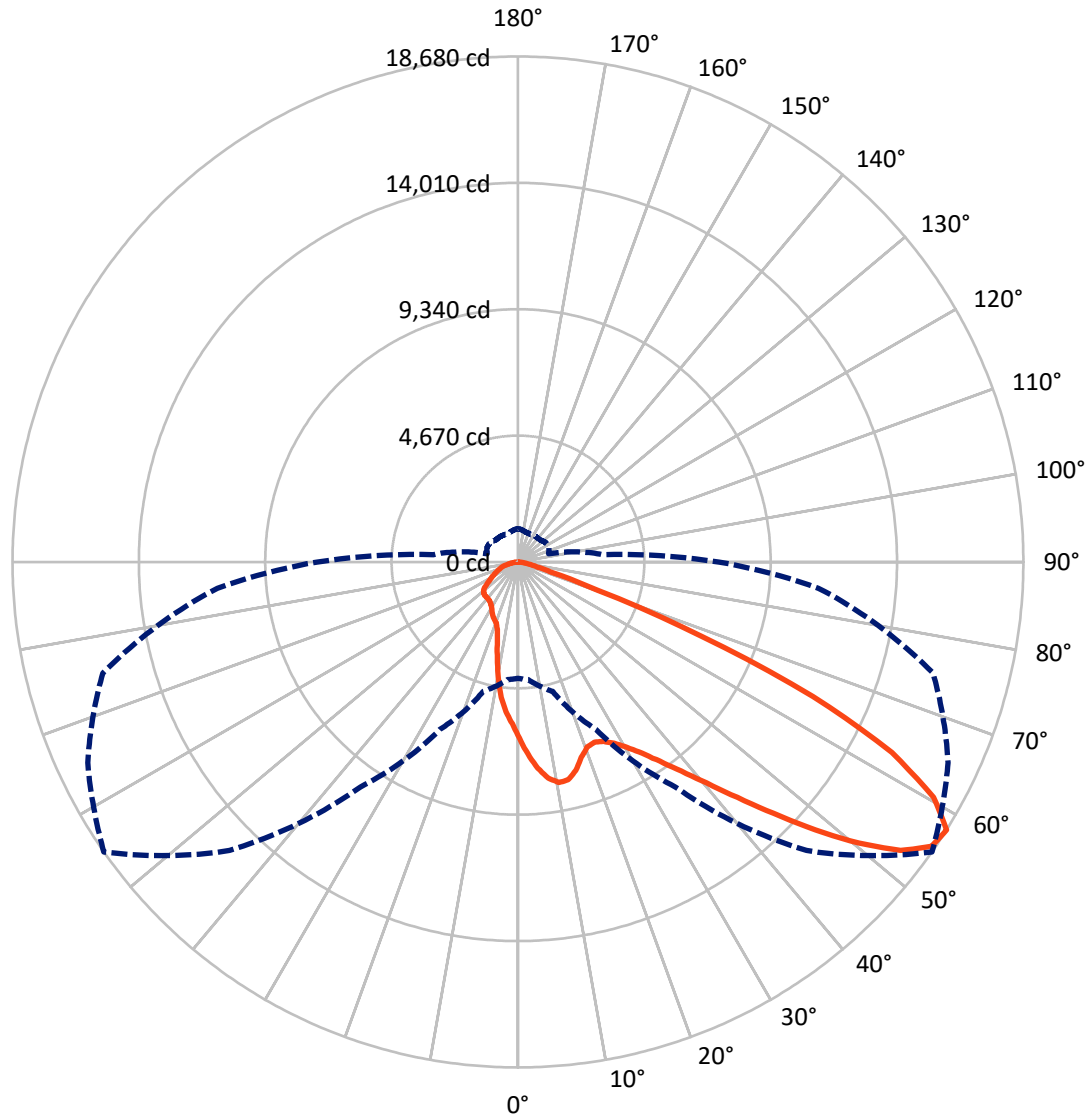
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	4703.5	0.0	4703.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21290.5	0.0	21290.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	25994.0	0.0	25994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.4	2.3
10°-20°	1525.5	5.9
20°-30°	2434.3	9.4
30°-40°	3854.1	14.8
40°-50°	5899.0	22.7
50°-60°	6318.4	24.3
60°-70°	3975.0	15.3
70°-80°	1175.5	4.5
80°-90°	207.8	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°	25994.0	100.0
0°-180°	25994.0	100.0

Coefficient of Utilization



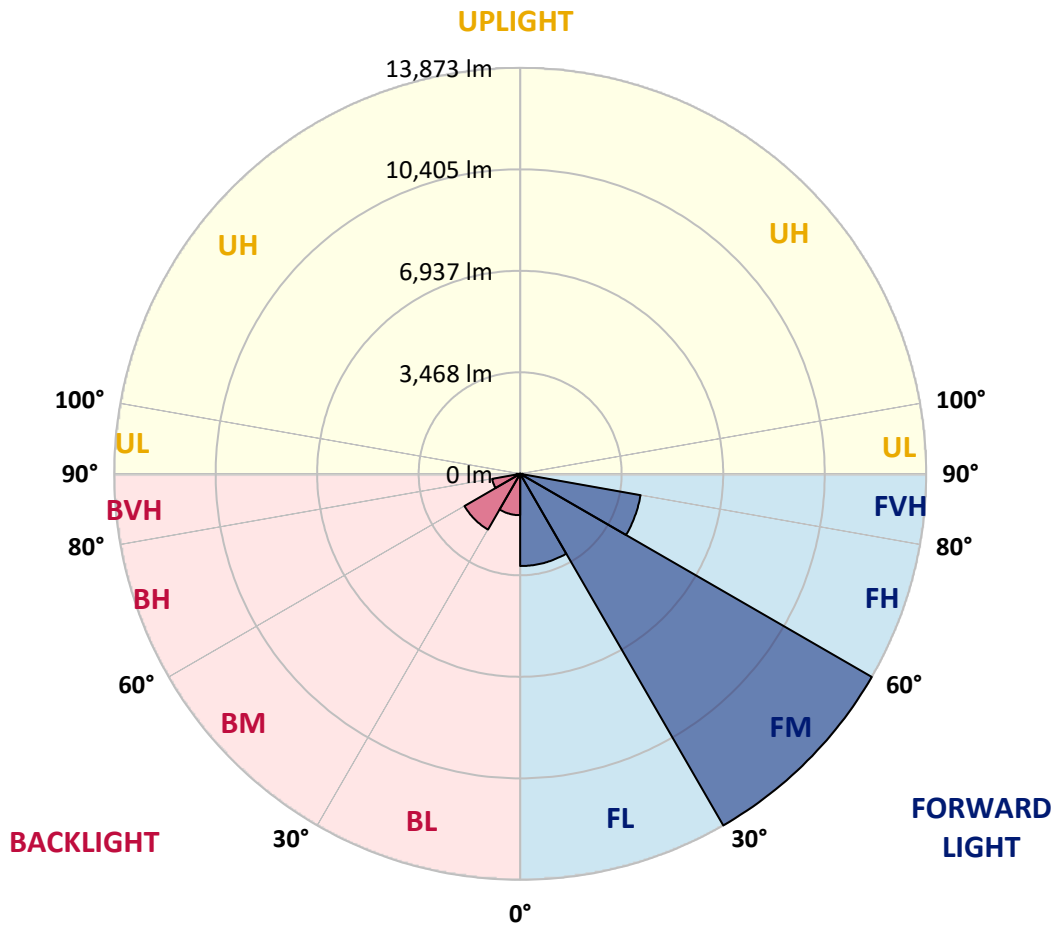
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3150.5	12.1			
FM (30°-60°)	13873.2	53.4			
FH (60°-80°)	4179.0	16.1			G2/5000
FVH (80°-90°)	87.8	0.3			G1/100
BL (0°-30°)	1413.7	5.4	B3/2500		
BM (30°-60°)	2198.4	8.5	B2/2500		
BH (60°-80°)	971.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	120.0	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6513.3	6513.3	6513.3	6513.3	6513.3	6513.3	6513.3	6513.3	6513.3	6513.3
2.5°	7472.7	7467.3	7496.9	7396.1	7327.6	7234.9	7112.6	6956.7	6788.7	6611.3
5°	8145.9	8098.9	8129.8	8054.6	7979.3	7839.6	7658.1	7404.2	7093.8	6740.3
7.5°	8039.8	8007.5	8086.8	8154.0	8210.4	8193.0	8059.9	7793.9	7393.4	6880.1
10°	7183.8	7147.5	7259.0	7491.5	7832.8	8129.8	8291.1	8125.8	7699.8	7033.3
12.5°	6428.6	6411.1	6485.0	6673.2	7052.1	7621.9	8261.5	8416.0	8018.3	7214.7
15°	6106.1	6084.6	6131.6	6227.0	6468.9	6999.7	7992.7	8614.9	8331.4	7424.3
17.5°	6034.9	6010.7	6030.8	6080.6	6236.4	6640.9	7586.9	8713.0	8657.9	7658.1
20°	6166.6	6146.4	6149.1	6146.4	6255.2	6576.4	7304.7	8675.4	8942.8	7873.1
22.5°	6485.0	6451.4	6452.8	6381.6	6440.7	6689.3	7230.8	8574.6	9196.8	8061.3
25°	7003.7	6943.3	6955.4	6773.9	6757.8	6941.9	7346.4	8496.7	9449.4	8211.8
27.5°	7713.2	7644.7	7608.4	7338.3	7209.3	7300.7	7581.5	8523.5	9688.6	8342.1
30°	8600.1	8516.8	8442.9	8059.9	7826.1	7792.5	7947.1	8700.9	9970.8	8479.2
32.5°	9687.2	9590.5	9456.1	8948.2	8618.9	8442.9	8420.1	9016.7	10301.3	8653.9
35°	10981.3	10855.0	10664.2	10007.1	9590.5	9230.4	9043.6	9472.2	10754.2	8917.3
37.5°	12314.3	12171.9	11997.2	11215.1	10703.1	10172.3	9804.1	10090.4	11357.5	9274.7
40°	13543.9	13383.9	13221.4	12525.3	11975.7	11336.0	10735.4	10872.4	12095.3	9702.0
42.5°	14269.5	14151.2	14089.4	13713.2	13288.5	12639.5	11893.7	11799.6	12924.4	10193.8
45°	14237.2	14188.9	14379.7	14535.6	14434.8	14074.6	13250.9	12824.9	13756.2	10619.8
47.5°	13476.7	13508.9	13934.9	14811.0	15196.7	15384.8	14796.3	13831.4	14479.1	10938.3
50°	11407.3	11434.1	12420.5	14309.8	15392.9	16453.1	16329.5	14813.7	15039.5	11133.1
52.5°	9769.2	9786.7	10210.0	12823.6	14745.2	16990.6	17710.9	15739.6	15449.3	11186.9
55°	7358.5	7419.0	7893.3	10060.8	13060.1	16564.7	18552.1	16693.7	15708.7	11192.3
57.5°	4298.7	4364.6	4950.4	6829.0	10150.8	15079.8	18679.7	17540.2	15884.7	11149.3
60°	2105.7	2133.9	2389.2	3589.2	6259.3	12218.9	17653.1	17950.1	15982.8	11126.4
62.5°	1419.0	1415.0	1425.7	1771.1	3084.0	7850.3	15513.8	17232.5	15930.4	11039.1
65°	1220.1	1205.4	1165.0	1243.0	1597.7	3590.6	11986.4	15090.5	15531.3	10820.0
67.5°	1054.9	1056.2	1057.5	1033.4	1140.9	1656.9	7324.9	11887.0	14098.8	9782.6
70°	873.5	885.5	890.9	890.9	929.9	1087.1	3127.0	8147.3	11121.0	7670.2
72.5°	795.5	770.0	772.7	759.2	759.2	827.8	1259.1	4618.5	7006.4	4314.8
75°	649.0	665.2	667.9	658.4	627.5	631.6	747.1	1937.7	2998.0	1789.9
77.5°	560.4	560.4	565.7	559.0	534.8	473.0	498.5	751.2	1019.9	733.7
80°	450.2	448.8	471.7	485.1	447.5	349.4	318.5	415.2	452.9	322.5
82.5°	219.0	232.5	323.8	369.5	340.0	252.6	194.8	258.0	241.9	142.4
85°	127.7	120.9	145.1	205.6	194.8	139.8	94.1	134.4	126.3	72.6
87.5°	40.3	37.6	29.6	69.9	56.4	39.0	25.5	39.0	34.9	16.1
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°
6513.3	0°	6513.3	6513.3	6513.3	6513.3	6513.3	6513.3	6513.3	6513.3	6513.3	6513.3
6534.8	2.5°	6439.3	6280.8	6123.6	5979.8	5892.4	5836.0	5779.6	5716.4	5692.2	5655.9
6552.2	5°	6374.8	6068.5	5795.7	5560.5	5346.9	5178.9	5009.6	4872.5	4810.7	4852.4
6607.3	7.5°	6337.2	5893.8	5473.2	5041.8	4626.6	4294.7	4005.8	3802.9	3711.5	3734.3
6661.1	10°	6303.6	5696.2	5055.3	4374.0	3777.3	3366.1	3070.5	2916.0	2858.2	2870.3
6733.6	12.5°	6272.7	5474.5	4551.3	3655.1	3020.8	2749.4	2664.7	2666.0	2676.8	2684.9
6849.2	15°	6267.3	5207.1	3988.3	3026.2	2612.3	2594.8	2686.2	2744.0	2774.9	2784.3
6945.9	17.5°	6259.3	4887.3	3414.5	2597.5	2512.8	2631.1	2715.8	2753.4	2777.6	2778.9
7040.0	20°	6227.0	4481.5	2885.1	2393.3	2491.3	2593.5	2645.9	2675.4	2695.6	2702.3
7111.2	22.5°	6127.6	4030.0	2472.5	2301.9	2405.3	2487.3	2549.1	2582.7	2594.8	2602.9
7124.7	25°	5948.9	3524.7	2187.7	2214.5	2285.8	2389.2	2438.9	2445.7	2441.6	2453.7
7091.1	27.5°	5715.1	2983.2	2010.3	2096.3	2187.7	2276.3	2303.2	2299.2	2291.1	2304.6
7033.3	30°	5432.9	2496.7	1897.4	1963.2	2088.2	2168.8	2193.0	2183.6	2167.5	2182.3
7003.7	32.5°	5134.5	2099.0	1804.7	1870.5	2006.2	2085.5	2109.7	2100.3	2088.2	2100.3
7037.3	35°	4856.4	1820.8	1718.7	1808.7	1941.7	2019.7	2050.6	2051.9	2051.9	2066.7
7126.0	37.5°	4601.1	1658.2	1647.5	1769.7	1897.4	1967.3	2011.6	2014.3	1956.5	1960.6
7276.5	40°	4364.6	1589.7	1615.2	1744.2	1854.4	1921.6	1924.3	1773.8	1667.6	1664.9
7448.5	42.5°	4171.1	1576.2	1624.6	1741.5	1823.5	1826.2	1636.7	1519.8	1490.2	1491.6
7607.1	45°	3989.7	1572.2	1646.1	1741.5	1777.8	1577.6	1449.9	1419.0	1421.7	1432.5
7678.3	47.5°	3786.7	1556.1	1650.1	1717.3	1646.1	1402.9	1365.3	1351.8	1346.5	1349.1
7662.2	50°	3565.0	1498.3	1599.1	1669.0	1420.4	1327.6	1280.6	1276.6	1283.3	1287.3
7572.1	52.5°	3331.2	1404.2	1511.7	1581.6	1316.9	1261.8	1209.4	1218.8	1248.4	1257.8
7478.1	55°	3178.0	1294.1	1396.2	1406.9	1244.3	1200.0	1155.6	1177.1	1232.2	1249.7
7421.6	57.5°	3137.7	1177.1	1264.5	1252.4	1151.6	1146.2	1119.4	1138.2	1208.0	1233.6
7419.0	60°	3125.6	1072.3	1135.5	1126.1	1061.6	1087.1	1080.4	1089.8	1114.0	1122.0
7392.1	62.5°	3031.5	989.0	1019.9	1006.5	981.0	1025.3	1041.4	1021.3	1040.1	1049.5
7208.0	65°	2792.4	921.8	907.0	897.6	908.4	948.7	981.0	940.6	958.1	985.0
6498.5	67.5°	2397.3	830.4	790.1	800.9	834.5	856.0	897.6	852.0	866.7	912.4
5234.0	70°	1939.1	714.9	678.6	709.5	741.8	786.1	792.8	761.9	796.9	847.9
3194.1	72.5°	1372.0	598.0	572.4	635.6	646.4	704.1	689.4	674.6	722.9	740.4
1578.9	75°	951.4	482.4	467.6	516.0	555.0	604.7	593.9	611.4	713.5	721.6
788.8	77.5°	602.0	374.9	365.5	396.4	450.2	505.3	522.7	721.6	1218.8	1267.2
409.8	80°	349.4	279.5	268.8	292.9	340.0	391.0	503.9	885.5	803.6	794.2
184.1	82.5°	194.8	192.2	178.7	185.4	227.1	282.2	712.2	623.5	506.6	522.7
73.9	85°	91.4	112.9	96.8	92.7	127.7	330.6	475.7	356.1	236.5	231.1
16.1	87.5°	24.2	21.5	21.5	24.2	53.8	284.9	189.5	151.8	90.0	87.3
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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