

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: P949096

Luminaire Tested: **GALN-SB3D-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949096
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-SB3D-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21601 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

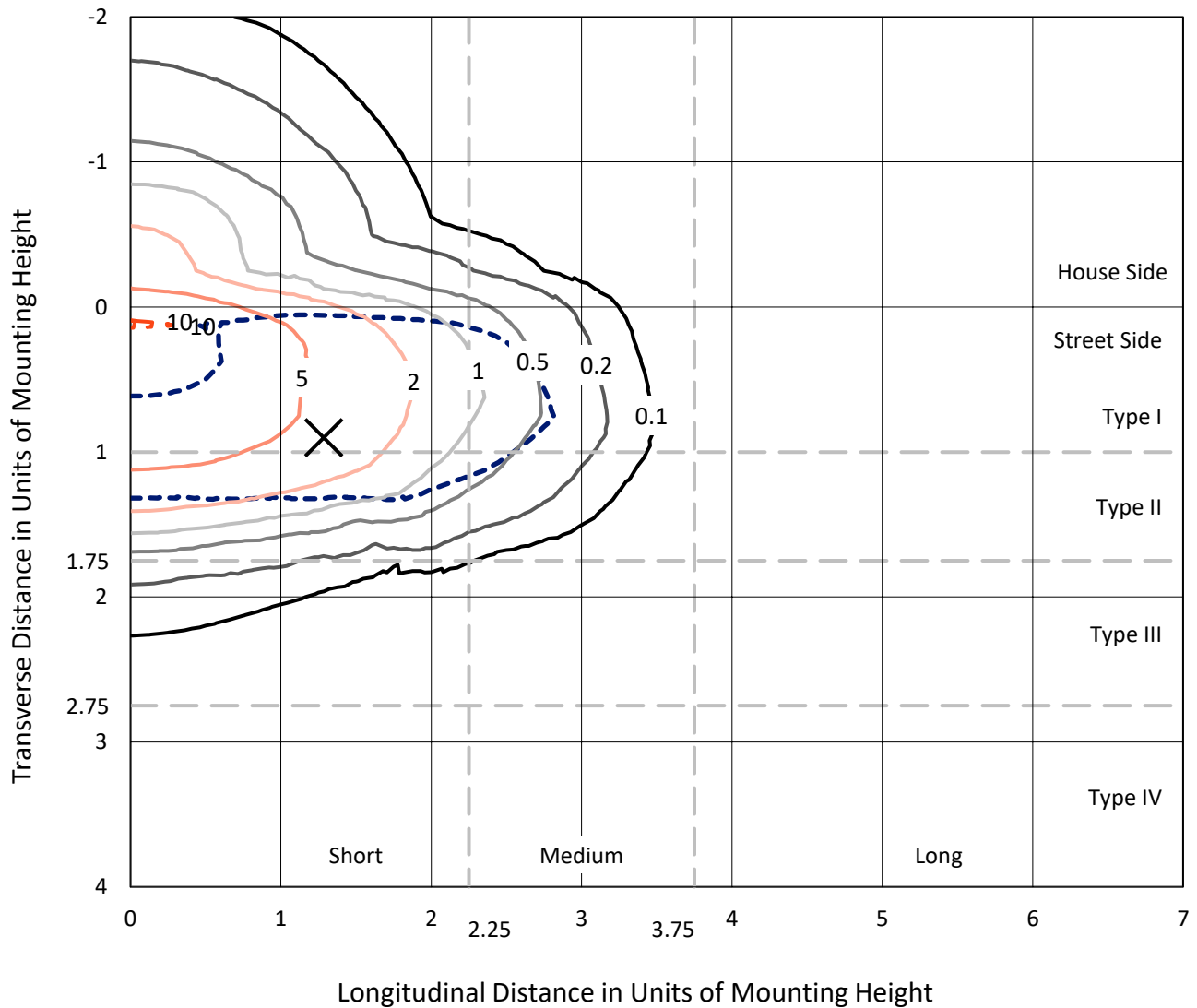
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

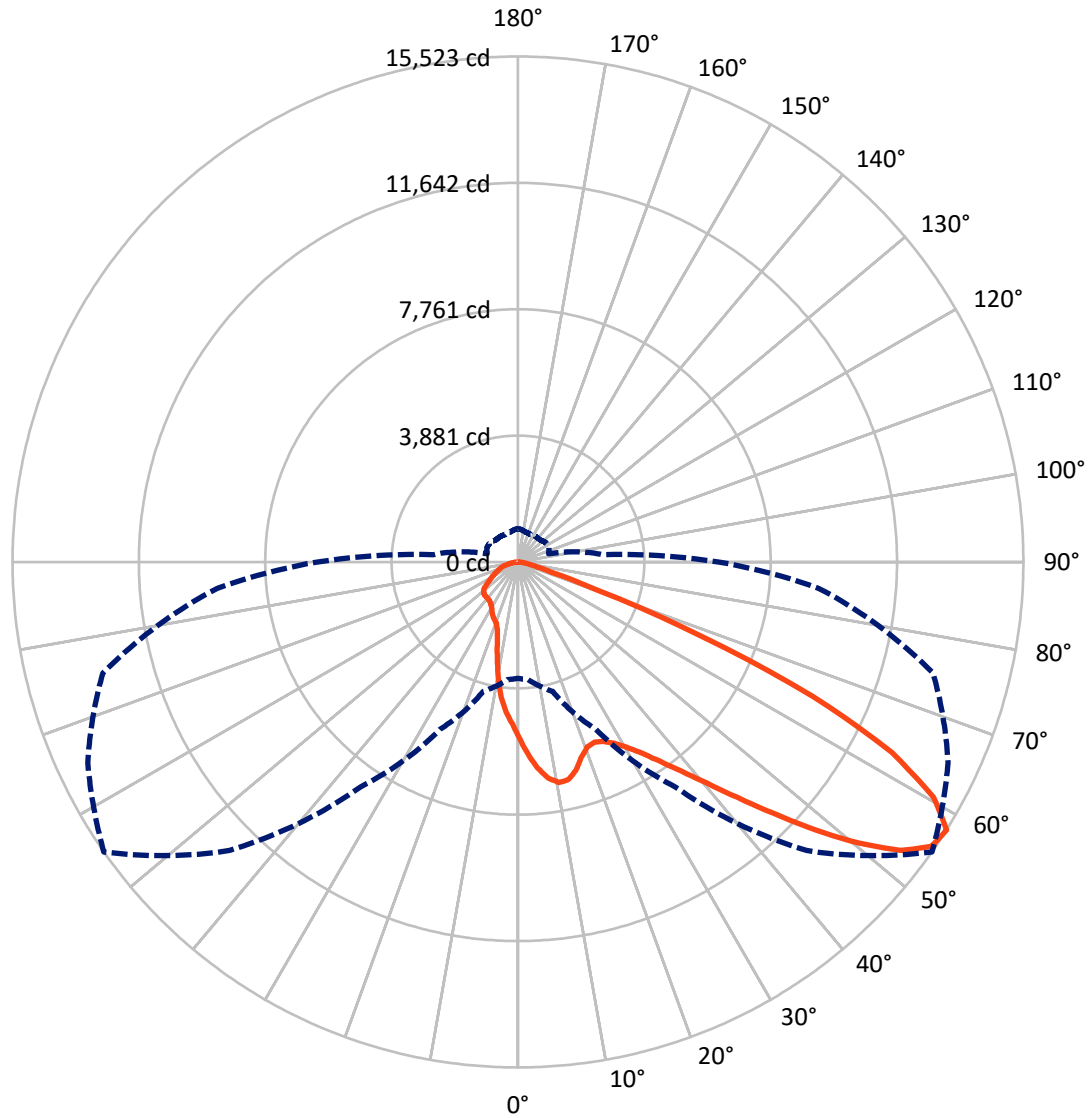
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	3908.6	0.0	3908.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17692.4	0.0	17692.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	21601.0	0.0	21601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.2	2.3
10°-20°	1267.7	5.9
20°-30°	2022.9	9.4
30°-40°	3202.7	14.8
40°-50°	4902.1	22.7
50°-60°	5250.6	24.3
60°-70°	3303.2	15.3
70°-80°	976.8	4.5
80°-90°	172.7	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°	21601.0	100.0
0°-180°	21601.0	100.0

Coefficient of Utilization



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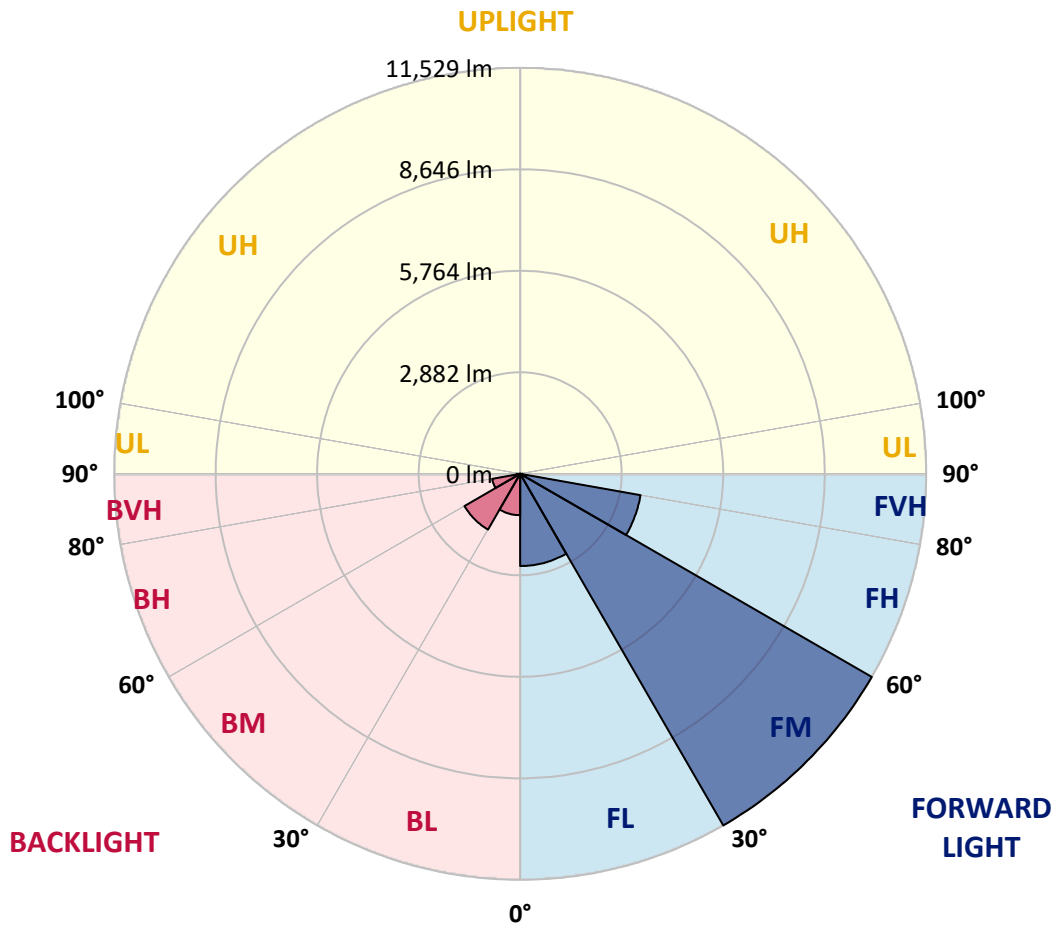
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2618.0	12.1			
FM (30°-60°)	11528.6	53.4			
FH (60°-80°)	3472.8	16.1			G2/5000
FVH (80°-90°)	73.0	0.3			G1/100
BL (0°-30°)	1174.8	5.4	B3/2500		
BM (30°-60°)	1826.8	8.5	B2/2500		
BH (60°-80°)	807.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	99.7	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°	5412.5	5412.5	5412.5	5412.5	5412.5	5412.5	5412.5	5412.5	5412.5	5412.5
2.5°	6209.8	6205.3	6229.9	6146.2	6089.2	6012.2	5910.5	5781.0	5641.4	5494.0
5°	6769.3	6730.2	6755.9	6693.3	6630.8	6514.7	6363.9	6152.9	5894.9	5601.2
7.5°	6681.0	6654.2	6720.1	6776.0	6822.9	6808.3	6697.8	6476.7	6143.9	5717.4
10°	5969.7	5939.6	6032.3	6225.4	6509.1	6755.9	6889.9	6752.5	6398.5	5844.7
12.5°	5342.2	5327.6	5389.1	5545.4	5860.3	6333.8	6865.3	6993.7	6663.2	5995.4
15°	5074.2	5056.3	5095.4	5174.7	5375.7	5816.7	6642.0	7159.0	6923.4	6169.6
17.5°	5015.0	4994.9	5011.6	5052.9	5182.5	5518.6	6304.7	7240.5	7194.7	6363.9
20°	5124.4	5107.7	5109.9	5107.7	5198.1	5465.0	6070.2	7209.2	7431.5	6542.6
22.5°	5389.1	5361.1	5362.3	5303.1	5352.2	5558.8	6008.8	7125.5	7642.5	6698.9
25°	5820.1	5769.8	5779.9	5629.1	5615.7	5768.7	6104.8	7060.7	7852.4	6824.0
27.5°	6409.7	6352.7	6322.6	6098.1	5990.9	6066.9	6300.3	7083.1	8051.2	6932.3
30°	7146.7	7077.5	7016.1	6697.8	6503.5	6475.6	6604.0	7230.5	8285.7	7046.2
32.5°	8050.1	7969.7	7858.0	7435.9	7162.3	7016.1	6997.1	7492.9	8560.4	7191.4
35°	9125.4	9020.5	8861.9	8315.9	7969.7	7670.4	7515.2	7871.4	8936.7	7410.2
37.5°	10233.2	10114.8	9969.6	9319.7	8894.3	8453.2	8147.2	8385.1	9438.1	7707.3
40°	11254.9	11122.1	10986.9	10408.5	9951.8	9420.2	8921.1	9035.0	10051.2	8062.4
42.5°	11857.9	11759.7	11708.3	11395.6	11042.8	10503.4	9883.7	9805.5	10740.2	8471.1
45°	11831.1	11790.9	11949.5	12079.0	11995.3	11696.0	11011.5	10657.5	11431.4	8825.1
47.5°	11199.1	11225.9	11579.9	12308.0	12628.4	12784.8	12295.7	11493.9	12032.1	9089.7
50°	9479.4	9501.8	10321.4	11891.4	12791.5	13672.5	13569.8	12310.2	12497.8	9251.6
52.5°	8118.2	8132.7	8484.5	10656.4	12253.2	14119.2	14717.7	13079.6	12838.4	9296.3
55°	6114.9	6165.1	6559.3	8360.5	10852.9	13765.2	15416.8	13872.4	13053.9	9300.8
57.5°	3572.2	3627.0	4113.8	5674.9	8435.3	12531.3	15522.9	14575.9	13200.2	9265.0
60°	1749.8	1773.3	1985.4	2982.6	5201.5	10153.9	14669.7	14916.5	13281.7	9246.0
62.5°	1179.2	1175.9	1184.8	1471.8	2562.8	6523.6	12892.0	14320.2	13238.1	9173.5
65°	1013.9	1001.7	968.2	1032.9	1327.7	2983.7	9960.7	12540.2	12906.5	8991.4
67.5°	876.6	877.7	878.8	858.7	948.1	1376.9	6087.0	9878.1	11716.1	8129.4
70°	725.8	735.9	740.4	740.4	772.7	903.4	2598.5	6770.4	9241.6	6374.0
72.5°	661.1	639.9	642.1	630.9	630.9	687.9	1046.3	3838.0	5822.3	3585.6
75°	539.4	552.8	555.0	547.2	521.5	524.8	620.9	1610.2	2491.3	1487.4
77.5°	465.7	465.7	470.1	464.5	444.4	393.1	414.3	624.2	847.6	609.7
80°	374.1	373.0	392.0	403.1	371.9	290.3	264.7	345.1	376.3	268.0
82.5°	182.0	193.2	269.1	307.1	282.5	209.9	161.9	214.4	201.0	118.4
85°	106.1	100.5	120.6	170.9	161.9	116.1	78.2	111.7	105.0	60.3
87.5°	33.5	31.3	24.6	58.1	46.9	32.4	21.2	32.4	29.0	13.4
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°
5412.5	0°	5412.5	5412.5	5412.5	5412.5	5412.5	5412.5	5412.5	5412.5	5412.5	5412.5
5430.4	2.5°	5351.1	5219.3	5088.7	4969.2	4896.6	4849.7	4802.8	4750.3	4730.2	4700.1
5444.9	5°	5297.5	5042.9	4816.2	4620.8	4443.2	4303.7	4163.0	4049.1	3997.7	4032.3
5490.7	7.5°	5266.2	4897.7	4548.2	4189.8	3844.7	3568.9	3328.8	3160.2	3084.2	3103.2
5535.3	10°	5238.3	4733.6	4200.9	3634.8	3139.0	2797.3	2551.6	2423.2	2375.2	2385.2
5595.6	12.5°	5212.6	4549.3	3782.2	3037.3	2510.3	2284.7	2214.4	2215.5	2224.4	2231.1
5691.7	15°	5208.2	4327.1	3314.3	2514.7	2170.8	2156.3	2232.2	2280.2	2305.9	2313.7
5772.1	17.5°	5201.5	4061.3	2837.5	2158.5	2088.2	2186.4	2256.8	2288.1	2308.2	2309.3
5850.2	20°	5174.7	3724.1	2397.5	1988.8	2070.3	2155.2	2198.7	2223.3	2240.0	2245.6
5909.4	22.5°	5092.0	3348.9	2054.7	1912.9	1998.8	2067.0	2118.3	2146.2	2156.3	2163.0
5920.6	25°	4943.5	2929.0	1817.9	1840.3	1899.5	1985.4	2026.8	2032.3	2029.0	2039.0
5892.7	27.5°	4749.2	2479.0	1670.5	1742.0	1817.9	1891.6	1914.0	1910.6	1903.9	1915.1
5844.7	30°	4514.7	2074.8	1576.7	1631.5	1735.3	1802.3	1822.4	1814.6	1801.2	1813.5
5820.1	32.5°	4266.8	1744.2	1499.7	1554.4	1667.2	1733.1	1753.2	1745.4	1735.3	1745.4
5848.0	35°	4035.7	1513.1	1428.2	1503.0	1613.6	1678.4	1704.0	1705.2	1705.2	1717.4
5921.7	37.5°	3823.5	1378.0	1369.0	1470.7	1576.7	1634.8	1671.7	1673.9	1625.9	1629.2
6046.8	40°	3627.0	1321.0	1342.2	1449.4	1541.0	1596.8	1599.1	1474.0	1385.8	1383.6
6189.7	42.5°	3466.2	1309.9	1350.1	1447.2	1515.3	1517.6	1360.1	1263.0	1238.4	1239.5
6321.5	45°	3315.4	1306.5	1367.9	1447.2	1477.4	1311.0	1204.9	1179.2	1181.4	1190.4
6380.7	47.5°	3146.8	1293.1	1371.3	1427.1	1367.9	1165.8	1134.5	1123.4	1118.9	1121.1
6367.3	50°	2962.5	1245.1	1328.8	1386.9	1180.3	1103.3	1064.2	1060.8	1066.4	1069.8
6292.4	52.5°	2768.2	1166.9	1256.3	1314.3	1094.3	1048.6	1005.0	1012.8	1037.4	1045.2
6214.3	55°	2640.9	1075.4	1160.2	1169.2	1034.0	997.2	960.3	978.2	1024.0	1038.5
6167.4	57.5°	2607.4	978.2	1050.8	1040.7	957.0	952.5	930.2	945.8	1003.9	1025.1
6165.1	60°	2597.4	891.1	943.6	935.8	882.2	903.4	897.8	905.6	925.7	932.4
6142.8	62.5°	2519.2	821.9	847.6	836.4	815.2	852.0	865.4	848.7	864.3	872.1
5989.8	65°	2320.4	766.0	753.8	745.9	754.9	788.4	815.2	781.7	796.2	818.5
5400.2	67.5°	1992.1	690.1	656.6	665.5	693.5	711.3	745.9	708.0	720.3	758.2
4349.4	70°	1611.4	594.1	563.9	589.6	616.4	653.3	658.8	633.2	662.2	704.6
2654.3	72.5°	1140.1	496.9	475.7	528.2	537.1	585.1	572.9	560.6	600.8	615.3
1312.1	75°	790.6	400.9	388.6	428.8	461.2	502.5	493.6	508.1	593.0	599.7
655.5	77.5°	500.3	311.6	303.7	329.4	374.1	419.9	434.4	599.7	1012.8	1053.0
340.6	80°	290.3	232.3	223.3	243.4	282.5	325.0	418.8	735.9	667.8	660.0
153.0	82.5°	161.9	159.7	148.5	154.1	188.7	234.5	591.8	518.1	421.0	434.4
61.4	85°	75.9	93.8	80.4	77.1	106.1	274.7	395.3	295.9	196.5	192.1
13.4	87.5°	20.1	17.9	17.9	20.1	44.7	236.7	157.5	126.2	74.8	72.6
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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