

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: P952120

Luminaire Tested: **GALN-SB6A-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952120
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-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24057 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

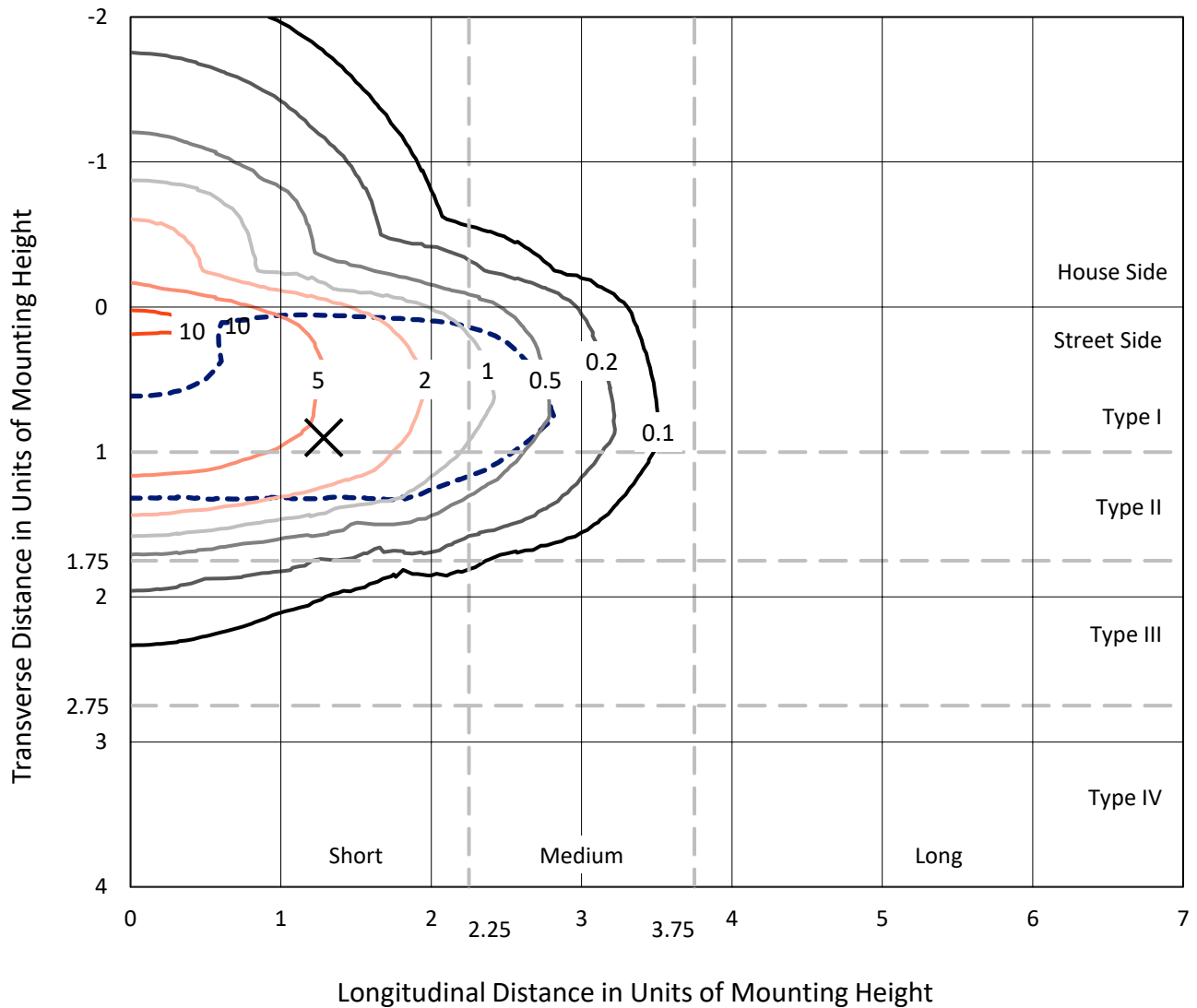
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

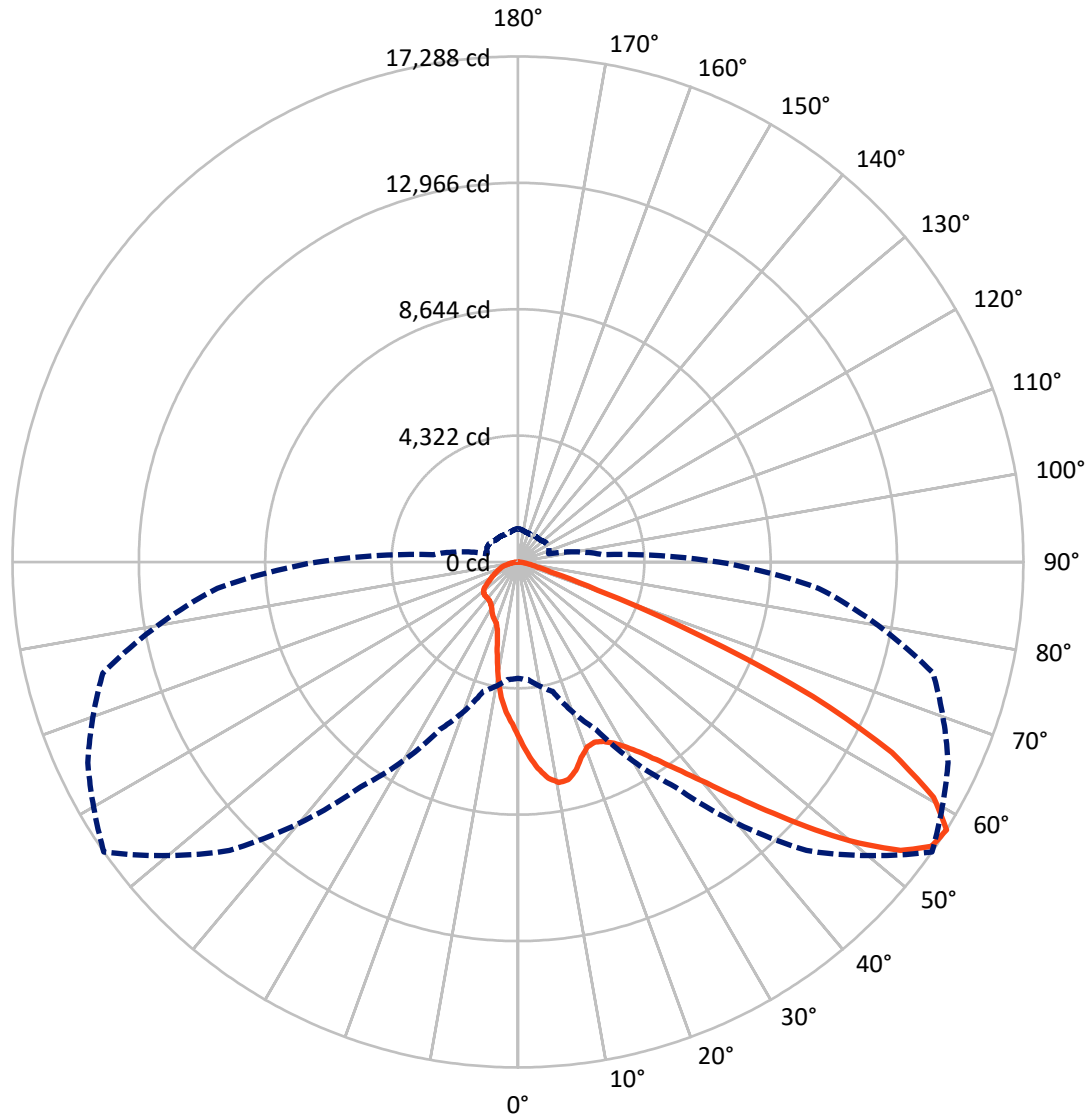
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	4353.0	0.0	4353.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19704.0	0.0	19704.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	24057.0	0.0	24057.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.3	2.3
10°-20°	1411.8	5.9
20°-30°	2252.9	9.4
30°-40°	3566.9	14.8
40°-50°	5459.5	22.7
50°-60°	5847.6	24.3
60°-70°	3678.8	15.3
70°-80°	1087.9	4.5
80°-90°	192.3	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°	24057.0	100.0
0°-180°	24057.0	100.0



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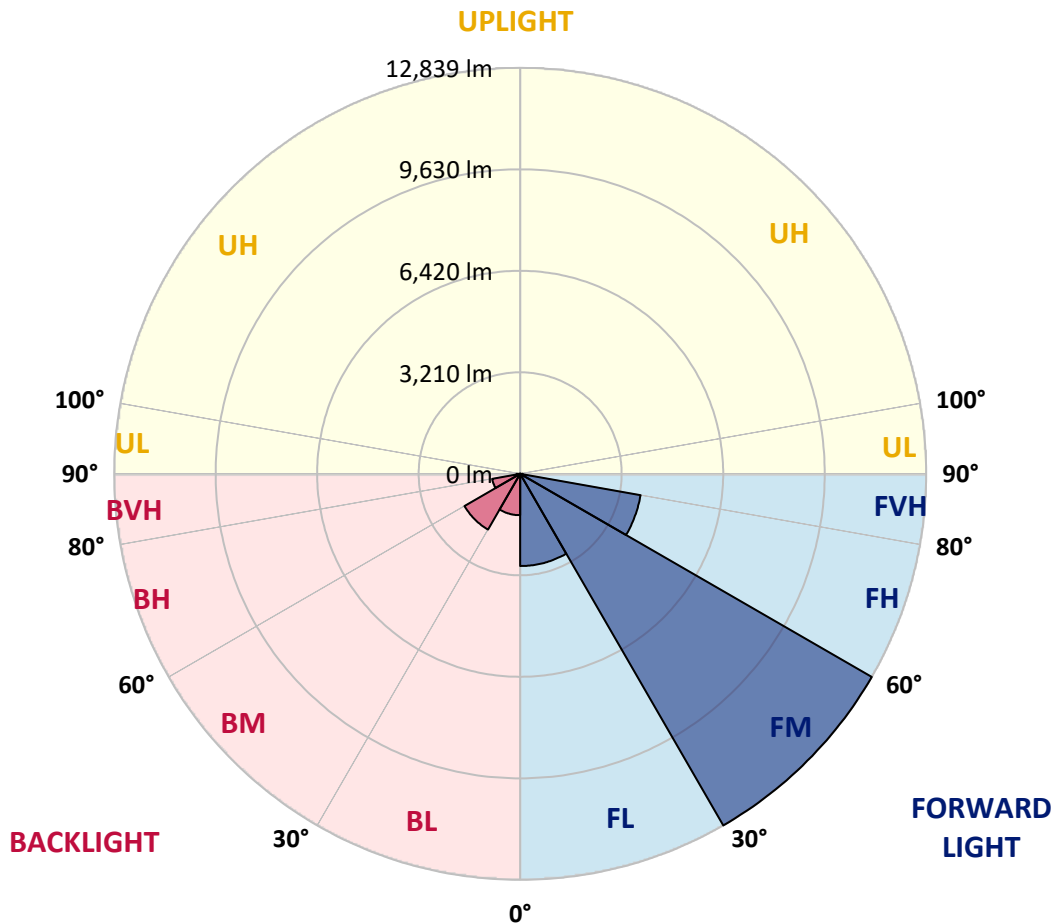
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2915.7	12.1			
FM (30°-60°)	12839.4	53.4			
FH (60°-80°)	3867.6	16.1			G2/5000
FVH (80°-90°)	81.3	0.3			G1/100
BL (0°-30°)	1308.4	5.4	B3/2500		
BM (30°-60°)	2034.6	8.5	B2/2500		
BH (60°-80°)	899.0	3.7	B2/1000		G2/1000
BVH (80°-90°)	111.1	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°	6027.9	6027.9	6027.9	6027.9	6027.9	6027.9	6027.9	6027.9	6027.9	6027.9
2.5°	6915.9	6910.9	6938.2	6845.0	6781.5	6695.7	6582.6	6438.3	6282.8	6118.7
5°	7538.9	7495.4	7524.0	7454.4	7384.7	7255.4	7087.5	6852.4	6565.2	6238.1
7.5°	7440.7	7410.8	7484.2	7546.4	7598.6	7582.4	7459.3	7213.1	6842.5	6367.4
10°	6648.5	6614.9	6718.1	6933.3	7249.2	7524.0	7673.2	7520.3	7126.0	6509.2
12.5°	5949.6	5933.4	6001.8	6175.9	6526.6	7053.9	7645.9	7788.9	7420.8	6677.1
15°	5651.1	5631.2	5674.7	5763.0	5986.9	6478.1	7397.1	7972.9	7710.5	6871.1
17.5°	5585.2	5562.8	5581.4	5627.5	5771.7	6146.0	7021.6	8063.7	8012.7	7087.5
20°	5707.0	5688.4	5690.9	5688.4	5789.1	6086.4	6760.4	8028.9	8276.4	7286.5
22.5°	6001.8	5970.7	5971.9	5906.0	5960.7	6190.8	6692.0	7935.6	8511.4	7460.6
25°	6481.8	6425.9	6437.1	6269.2	6254.2	6424.6	6799.0	7863.5	8745.2	7599.9
27.5°	7138.5	7075.0	7041.5	6791.5	6672.1	6756.7	7016.6	7888.4	8966.6	7720.5
30°	7959.3	7882.2	7813.8	7459.3	7242.9	7211.8	7354.9	8052.5	9227.8	7847.3
32.5°	8965.4	8875.8	8751.5	8281.4	7976.7	7813.8	7792.6	8344.8	9533.7	8009.0
35°	10163.0	10046.1	9869.5	9261.4	8875.8	8542.5	8369.7	8766.4	9952.8	8252.8
37.5°	11396.7	11264.9	11103.2	10379.4	9905.6	9414.3	9073.6	9338.5	10511.2	8583.6
40°	12534.6	12386.6	12236.1	11591.9	11083.3	10491.3	9935.4	10062.3	11194.0	8979.1
42.5°	13206.2	13096.7	13039.5	12691.3	12298.3	11697.6	11007.4	10920.4	11961.3	9434.2
45°	13176.3	13131.6	13308.1	13452.4	13359.1	13025.8	12263.5	11869.3	12731.1	9828.5
47.5°	12472.4	12502.3	12896.5	13707.4	14064.3	14238.4	13693.7	12800.7	13400.2	10123.2
50°	10557.2	10582.1	11494.9	13243.5	14245.8	15227.1	15112.7	13709.8	13918.8	10303.5
52.5°	9041.2	9057.4	9449.1	11868.0	13646.4	15724.5	16391.1	14566.7	14298.1	10353.3
55°	6810.2	6866.1	7305.1	9311.1	12086.9	15330.3	17169.6	15449.7	14538.1	10358.2
57.5°	3978.4	4039.3	4581.6	6320.2	9394.4	13956.1	17287.8	16233.2	14701.0	10318.4
60°	1948.8	1974.9	2211.2	3321.8	5792.9	11308.4	16337.6	16612.5	14791.8	10297.3
62.5°	1313.3	1309.5	1319.5	1639.1	2854.1	7265.3	14357.8	15948.4	14743.3	10216.5
65°	1129.2	1115.5	1078.2	1150.4	1478.7	3323.0	11093.2	13966.0	14373.9	10013.8
67.5°	976.3	977.5	978.7	956.4	1055.8	1533.4	6779.1	11001.2	13048.2	9053.7
70°	808.4	819.6	824.5	824.5	860.6	1006.1	2893.9	7540.2	10292.3	7098.7
72.5°	736.2	712.6	715.1	702.7	702.7	766.1	1165.3	4274.4	6484.3	3993.3
75°	600.7	615.6	618.1	609.4	580.8	584.5	691.5	1793.3	2774.6	1656.5
77.5°	518.6	518.6	523.6	517.4	495.0	437.8	461.4	695.2	943.9	679.0
80°	416.6	415.4	436.5	449.0	414.1	323.3	294.7	384.3	419.1	298.5
82.5°	202.7	215.1	299.7	342.0	314.6	233.8	180.3	238.8	223.9	131.8
85°	118.1	111.9	134.3	190.3	180.3	129.3	87.1	124.4	116.9	67.2
87.5°	37.3	34.8	27.4	64.7	52.2	36.1	23.6	36.1	32.3	14.9
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°
6027.9	0°	6027.9	6027.9	6027.9	6027.9	6027.9	6027.9	6027.9	6027.9	6027.9	6027.9
6047.8	2.5°	5959.5	5812.8	5667.2	5534.2	5453.3	5401.1	5348.9	5290.4	5268.0	5234.5
6064.0	5°	5899.8	5616.3	5363.8	5146.2	4948.4	4793.0	4636.3	4509.4	4452.2	4490.8
6115.0	7.5°	5865.0	5454.6	5065.3	4666.1	4281.8	3974.7	3707.3	3519.5	3434.9	3456.1
6164.7	10°	5833.9	5271.8	4678.6	4048.0	3495.9	3115.3	2841.7	2698.7	2645.2	2656.4
6231.9	12.5°	5805.3	5066.6	4212.2	3382.7	2795.7	2544.5	2466.1	2467.4	2477.3	2484.8
6338.8	15°	5800.3	4819.1	3691.1	2800.7	2417.6	2401.5	2486.0	2539.5	2568.1	2576.8
6428.4	17.5°	5792.9	4523.1	3160.1	2403.9	2325.6	2435.0	2513.4	2548.2	2570.6	2571.8
6515.4	20°	5763.0	4147.5	2670.1	2214.9	2305.7	2400.2	2448.7	2476.1	2494.7	2501.0
6581.3	22.5°	5671.0	3729.7	2288.3	2130.3	2226.1	2302.0	2359.2	2390.3	2401.5	2408.9
6593.8	25°	5505.6	3262.1	2024.6	2049.5	2115.4	2211.2	2257.2	2263.4	2259.7	2270.9
6562.7	27.5°	5289.2	2760.9	1860.5	1940.1	2024.6	2106.7	2131.6	2127.9	2120.4	2132.8
6509.2	30°	5028.0	2310.7	1756.0	1817.0	1932.6	2007.2	2029.6	2020.9	2006.0	2019.7
6481.8	32.5°	4751.9	1942.6	1670.2	1731.1	1856.7	1930.1	1952.5	1943.8	1932.6	1943.8
6512.9	35°	4494.5	1685.1	1590.6	1673.9	1797.1	1869.2	1897.8	1899.0	1899.0	1912.7
6595.0	37.5°	4258.2	1534.6	1524.7	1637.9	1756.0	1820.7	1861.7	1864.2	1810.7	1814.5
6734.3	40°	4039.3	1471.2	1494.9	1614.2	1716.2	1778.4	1780.9	1641.6	1543.4	1540.9
6893.5	42.5°	3860.2	1458.8	1503.6	1611.8	1687.6	1690.1	1514.7	1406.6	1379.2	1380.4
7040.2	45°	3692.4	1455.1	1523.5	1611.8	1645.3	1460.0	1341.9	1313.3	1315.8	1325.7
7106.1	47.5°	3504.6	1440.1	1527.2	1589.4	1523.5	1298.4	1263.5	1251.1	1246.1	1248.6
7091.2	50°	3299.4	1386.7	1479.9	1544.6	1314.5	1228.7	1185.2	1181.5	1187.7	1191.4
7007.9	52.5°	3083.0	1299.6	1399.1	1463.8	1218.8	1167.8	1119.3	1128.0	1155.3	1164.0
6920.8	55°	2941.2	1197.6	1292.1	1302.1	1151.6	1110.6	1069.5	1089.4	1140.4	1156.6
6868.6	57.5°	2903.9	1089.4	1170.3	1159.1	1065.8	1060.8	1035.9	1053.4	1118.0	1141.7
6866.1	60°	2892.7	992.4	1050.9	1042.2	982.5	1006.1	999.9	1008.6	1031.0	1038.4
6841.2	62.5°	2805.6	915.3	943.9	931.5	907.9	948.9	963.8	945.2	962.6	971.3
6670.9	65°	2584.3	853.1	839.5	830.7	840.7	878.0	907.9	870.5	886.7	911.6
6014.2	67.5°	2218.6	768.6	731.3	741.2	772.3	792.2	830.7	788.5	802.1	844.4
4844.0	70°	1794.6	661.6	628.0	656.6	686.5	727.5	733.7	705.1	737.5	784.7
2956.1	72.5°	1269.8	553.4	529.8	588.2	598.2	651.7	638.0	624.3	669.1	685.2
1461.3	75°	880.5	446.5	432.8	477.6	513.6	559.6	549.7	565.9	660.4	667.8
730.0	77.5°	557.1	347.0	338.3	366.9	416.6	467.6	483.8	667.8	1128.0	1172.7
379.3	80°	323.3	258.7	248.7	271.1	314.6	361.9	466.4	819.6	743.7	735.0
170.4	82.5°	180.3	177.8	165.4	171.6	210.2	261.2	659.1	577.0	468.9	483.8
68.4	85°	84.6	104.5	89.5	85.8	118.1	305.9	440.2	329.6	218.9	213.9
14.9	87.5°	22.4	19.9	19.9	22.4	49.7	263.7	175.4	140.5	83.3	80.8
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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