

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: P950629

Luminaire Tested: **GALN-SB5A-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950629
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-SB5A-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24381 lumens
Efficiency: N/A
Efficacy: 172.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

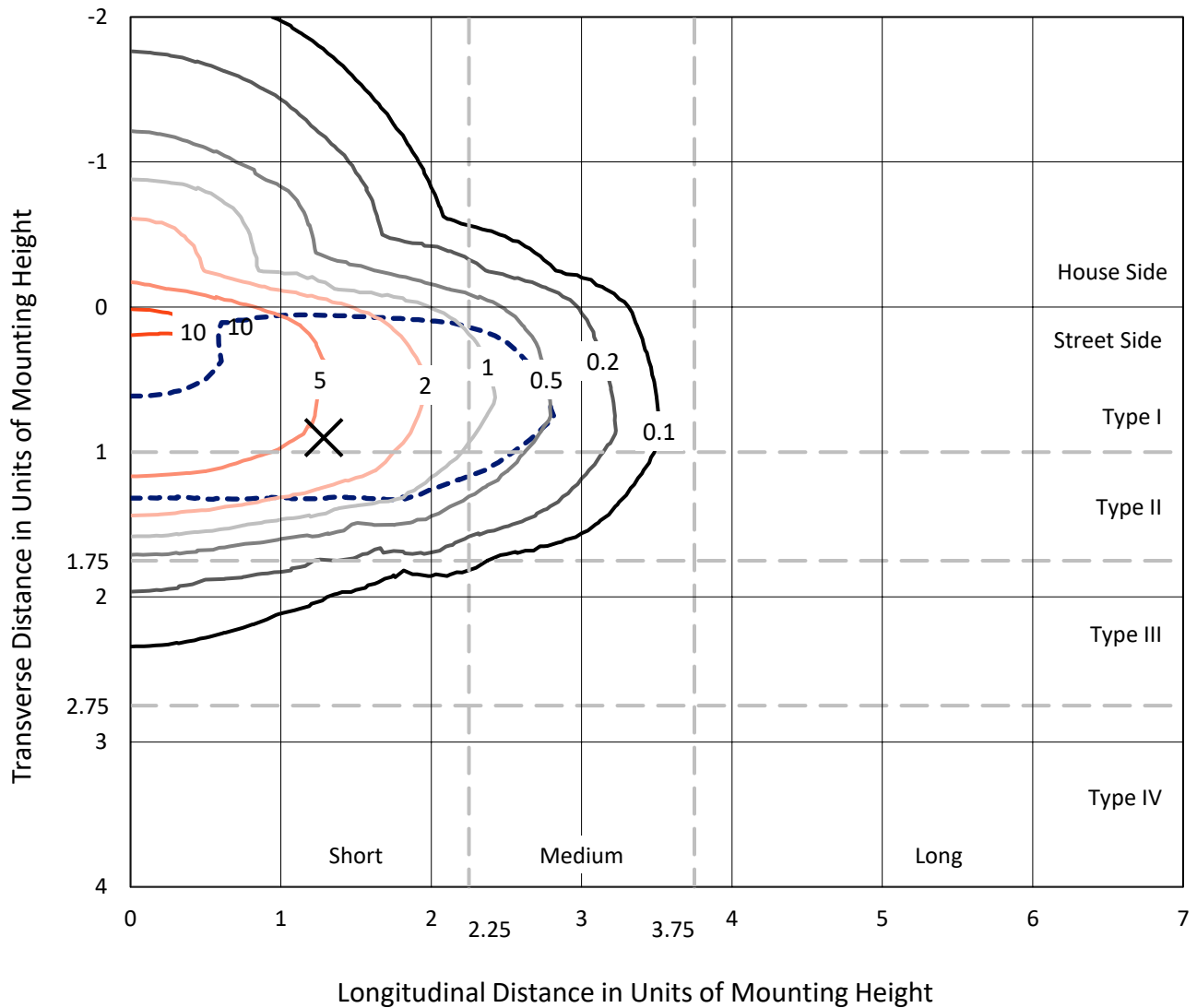
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

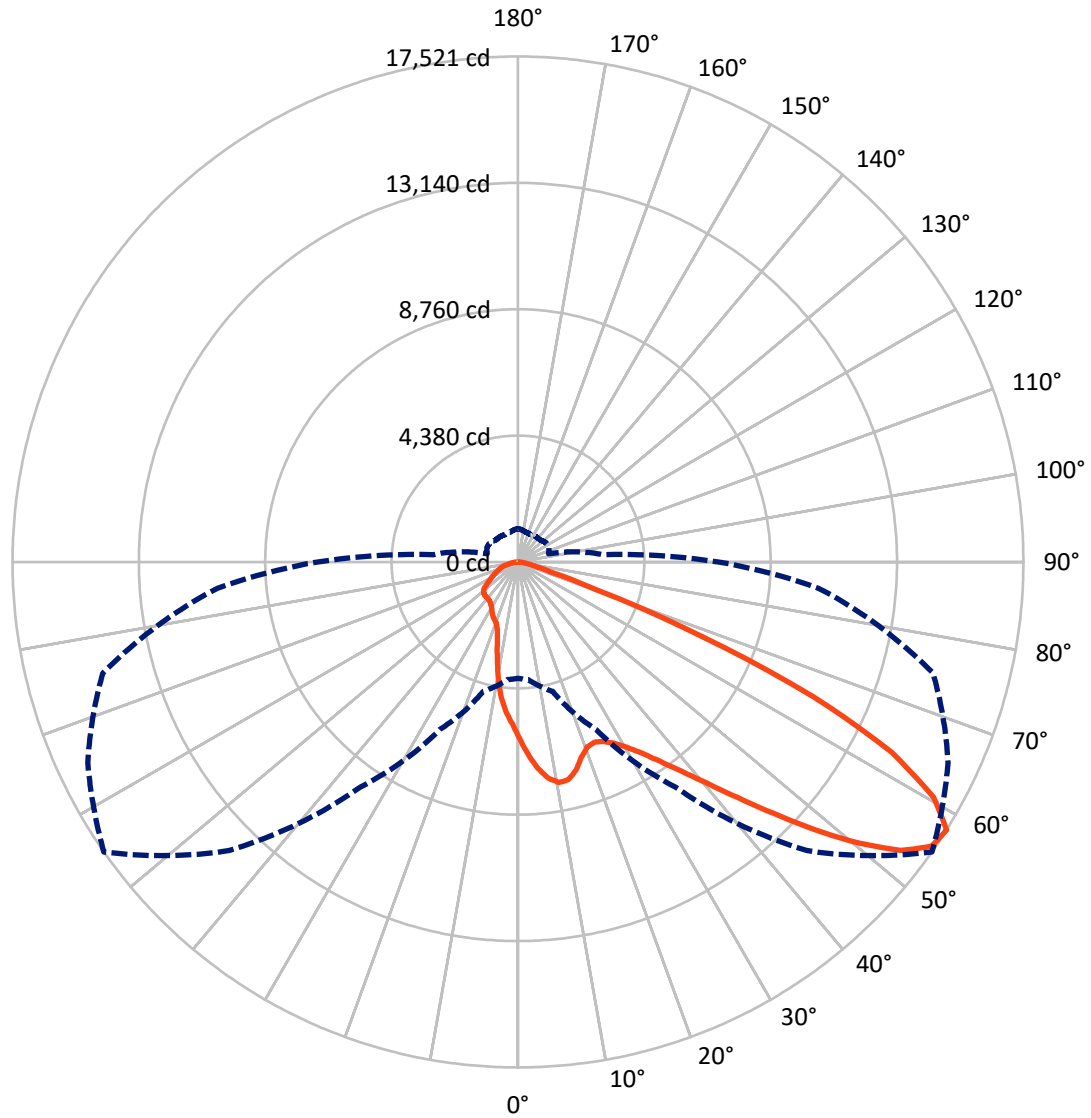
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	4411.6	0.0	4411.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19969.4	0.0	19969.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	24381.0	0.0	24381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.9	2.3
10°-20°	1430.8	5.9
20°-30°	2283.2	9.4
30°-40°	3614.9	14.8
40°-50°	5533.0	22.7
50°-60°	5926.4	24.3
60°-70°	3728.3	15.3
70°-80°	1102.5	4.5
80°-90°	194.9	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°	24381.0	100.0
0°-180°	24381.0	100.0

Coefficient of Utilization



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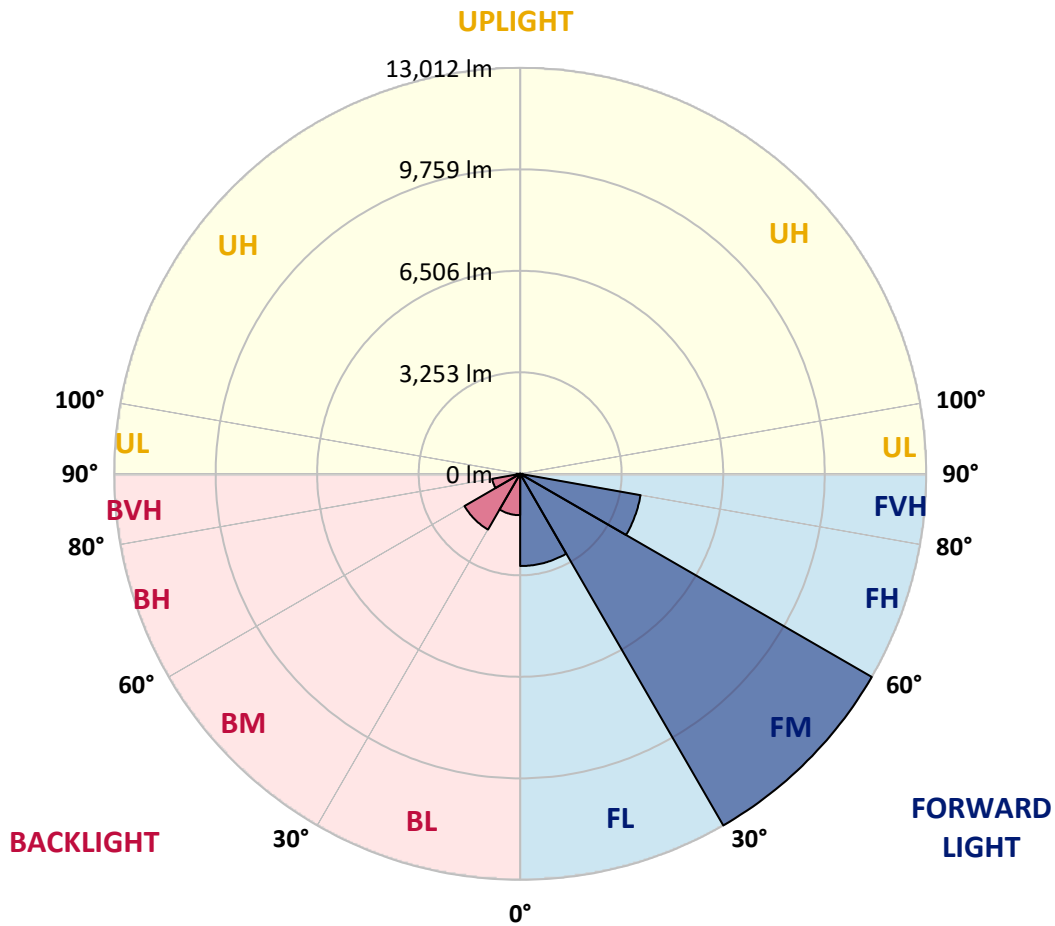
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2955.0	12.1			
FM (30°-60°)	13012.3	53.4			
FH (60°-80°)	3919.7	16.1			G2/5000
FVH (80°-90°)	82.4	0.3			G1/100
BL (0°-30°)	1326.0	5.4	B3/2500		
BM (30°-60°)	2062.0	8.5	B2/2500		
BH (60°-80°)	911.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	112.6	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6109.1	6109.1	6109.1	6109.1	6109.1	6109.1	6109.1	6109.1	6109.1	6109.1
2.5°	7009.0	7004.0	7031.7	6937.2	6872.9	6785.9	6671.2	6525.0	6367.5	6201.1
5°	7640.5	7596.3	7625.3	7554.7	7484.2	7353.1	7182.9	6944.7	6653.6	6322.1
7.5°	7540.9	7510.6	7585.0	7648.0	7701.0	7684.6	7559.8	7310.2	6934.6	6453.2
10°	6738.0	6704.0	6808.6	7026.6	7346.8	7625.3	7776.6	7621.5	7222.0	6596.9
12.5°	6029.7	6013.3	6082.6	6259.1	6614.5	7148.9	7748.8	7893.8	7520.7	6767.0
15°	5727.2	5707.0	5751.1	5840.6	6067.5	6565.3	7496.8	8080.3	7814.4	6963.6
17.5°	5660.4	5637.7	5656.6	5703.2	5849.4	6228.8	7116.1	8172.3	8120.7	7182.9
20°	5783.9	5765.0	5767.5	5765.0	5867.1	6168.3	6851.5	8137.0	8387.9	7384.6
22.5°	6082.6	6051.1	6052.4	5985.6	6041.0	6274.2	6782.1	8042.5	8626.1	7561.1
25°	6569.1	6512.4	6523.8	6353.6	6338.5	6511.2	6890.5	7969.4	8863.0	7702.2
27.5°	7234.6	7170.3	7136.3	6883.0	6762.0	6847.7	7111.1	7994.6	9087.4	7824.5
30°	8066.5	7988.3	7919.0	7559.8	7340.5	7309.0	7453.9	8161.0	9352.1	7953.0
32.5°	9086.1	8995.4	8869.3	8392.9	8084.1	7919.0	7897.6	8457.2	9662.1	8116.9
35°	10299.9	10181.4	10002.4	9386.1	8995.4	8657.6	8482.4	8884.5	10086.9	8363.9
37.5°	11550.2	11416.6	11252.7	10519.2	10039.0	9541.1	9195.8	9464.2	10652.8	8699.2
40°	12703.4	12553.4	12400.9	11748.1	11232.6	10632.6	10069.2	10197.8	11344.7	9100.0
42.5°	13384.0	13273.1	13215.1	12862.2	12463.9	11855.2	11155.7	11067.4	12122.4	9561.3
45°	13353.8	13308.4	13487.4	13633.6	13539.1	13201.3	12428.7	12029.1	12902.6	9960.8
47.5°	12640.4	12670.7	13070.2	13892.0	14253.7	14430.2	13878.1	12973.1	13580.7	10259.5
50°	10699.4	10724.6	11649.7	13421.8	14437.7	15432.2	15316.2	13894.5	14106.2	10442.3
52.5°	9163.0	9179.4	9576.4	12027.9	13830.2	15936.3	16611.9	14762.9	14490.6	10492.7
55°	6901.9	6958.6	7403.5	9436.5	12249.7	15536.8	17400.9	15657.8	14733.9	10497.7
57.5°	4032.0	4093.7	4643.3	6405.3	9521.0	14144.0	17520.6	16451.8	14899.0	10457.4
60°	1975.0	2001.5	2241.0	3366.5	5870.9	11460.7	16557.7	16836.2	14991.0	10436.0
62.5°	1331.0	1327.2	1337.3	1661.2	2892.6	7363.2	14551.1	16163.2	14941.9	10354.1
65°	1144.4	1130.6	1092.8	1165.9	1498.6	3367.7	11242.6	14154.1	14567.5	10148.6
67.5°	989.4	990.7	991.9	969.2	1070.1	1554.1	6870.4	11149.4	13224.0	9175.6
70°	819.3	830.6	835.6	835.6	872.2	1019.7	2932.9	7641.7	10430.9	7194.3
72.5°	746.1	722.2	724.7	712.1	712.1	776.4	1181.0	4331.9	6571.6	4047.1
75°	608.8	623.9	626.4	617.6	588.6	592.4	700.8	1817.5	2811.9	1678.8
77.5°	525.6	525.6	530.6	524.3	501.6	443.7	467.6	704.6	956.6	688.2
80°	422.2	421.0	442.4	455.0	419.7	327.7	298.7	389.5	424.7	302.5
82.5°	205.4	218.0	303.8	346.6	318.9	237.0	182.8	242.0	226.9	133.6
85°	119.7	113.4	136.1	192.8	182.8	131.1	88.2	126.0	118.5	68.1
87.5°	37.8	35.3	27.7	65.5	52.9	36.6	23.9	36.6	32.8	15.1
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°
6109.1	0°	6109.1	6109.1	6109.1	6109.1	6109.1	6109.1	6109.1	6109.1	6109.1	6109.1
6129.3	2.5°	6039.8	5891.0	5743.6	5608.7	5526.8	5473.9	5420.9	5361.7	5339.0	5305.0
6145.6	5°	5979.3	5691.9	5436.0	5215.5	5015.1	4857.5	4698.7	4570.2	4512.2	4551.3
6197.3	7.5°	5944.0	5528.0	5133.5	4729.0	4339.5	4028.2	3757.2	3566.9	3481.2	3502.6
6247.7	10°	5912.5	5342.8	4741.6	4102.6	3542.9	3157.3	2880.0	2735.0	2680.8	2692.2
6315.8	12.5°	5883.5	5134.8	4268.9	3428.2	2833.3	2578.7	2499.3	2500.6	2510.7	2518.2
6424.2	15°	5878.4	4884.0	3740.8	2838.4	2450.2	2433.8	2519.5	2573.7	2602.7	2611.5
6514.9	17.5°	5870.9	4584.0	3202.6	2436.3	2356.9	2467.8	2547.2	2582.5	2605.2	2606.5
6603.2	20°	5840.6	4203.4	2706.0	2244.7	2336.8	2432.5	2481.7	2509.4	2528.3	2534.6
6670.0	22.5°	5747.4	3779.9	2319.1	2159.0	2256.1	2333.0	2391.0	2422.5	2433.8	2441.4
6682.6	25°	5579.7	3306.0	2051.9	2077.1	2143.9	2241.0	2287.6	2293.9	2290.1	2301.5
6651.1	27.5°	5360.4	2798.1	1885.5	1966.2	2051.9	2135.1	2160.3	2156.5	2149.0	2161.6
6596.9	30°	5095.7	2341.8	1779.7	1841.4	1958.6	2034.3	2056.9	2048.1	2033.0	2046.9
6569.1	32.5°	4815.9	1968.7	1692.7	1754.5	1881.8	1956.1	1978.8	1970.0	1958.6	1970.0
6600.6	35°	4555.0	1707.8	1612.0	1696.5	1821.3	1894.4	1923.3	1924.6	1924.6	1938.5
6683.8	37.5°	4315.6	1555.3	1545.2	1659.9	1779.7	1845.2	1886.8	1889.3	1835.1	1838.9
6825.0	40°	4093.7	1491.0	1515.0	1636.0	1739.3	1802.4	1804.9	1663.7	1564.1	1561.6
6986.3	42.5°	3912.2	1478.4	1523.8	1633.5	1710.3	1712.9	1535.1	1425.5	1397.8	1399.0
7135.0	45°	3742.1	1474.7	1544.0	1633.5	1667.5	1479.7	1360.0	1331.0	1333.5	1343.6
7201.8	47.5°	3551.8	1459.5	1547.8	1610.8	1544.0	1315.8	1280.6	1267.9	1262.9	1265.4
7186.7	50°	3343.8	1405.3	1499.9	1565.4	1332.2	1245.3	1201.1	1197.4	1203.7	1207.4
7102.3	52.5°	3124.5	1317.1	1417.9	1483.5	1235.2	1183.5	1134.3	1143.2	1170.9	1179.7
7014.0	55°	2980.8	1213.8	1309.5	1319.6	1167.1	1125.5	1083.9	1104.1	1155.8	1172.2
6961.1	57.5°	2943.0	1104.1	1186.0	1174.7	1080.2	1075.1	1049.9	1067.5	1133.1	1157.0
6958.6	60°	2931.7	1005.8	1065.0	1056.2	995.7	1019.7	1013.3	1022.2	1044.9	1052.4
6933.4	62.5°	2843.4	927.6	956.6	944.0	920.1	961.7	976.8	957.9	975.5	984.4
6760.7	65°	2619.1	864.6	850.8	841.9	852.0	889.8	920.1	882.3	898.7	923.9
6095.2	67.5°	2248.5	778.9	741.1	751.2	782.7	802.9	841.9	799.1	812.9	855.8
4909.2	70°	1818.7	670.5	636.5	665.5	695.7	737.3	743.6	714.6	747.4	795.3
2995.9	72.5°	1286.9	560.9	536.9	596.2	606.2	660.4	646.6	632.7	678.1	694.5
1481.0	75°	892.4	452.5	438.6	484.0	520.5	567.2	557.1	573.5	669.3	676.8
739.8	77.5°	564.7	351.6	342.8	371.8	422.2	473.9	490.3	676.8	1143.2	1188.5
384.4	80°	327.7	262.2	252.1	274.8	318.9	366.8	472.6	830.6	753.7	744.9
172.7	82.5°	182.8	180.2	167.6	173.9	213.0	264.7	668.0	584.8	475.2	490.3
69.3	85°	85.7	105.9	90.7	87.0	119.7	310.1	446.2	334.0	221.8	216.8
15.1	87.5°	22.7	20.2	20.2	22.7	50.4	267.2	177.7	142.4	84.4	81.9
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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