

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: P952204

Luminaire Tested: **GALN-SB6A-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952204
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-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26462 lumens
Efficiency: N/A
Efficacy: 154.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

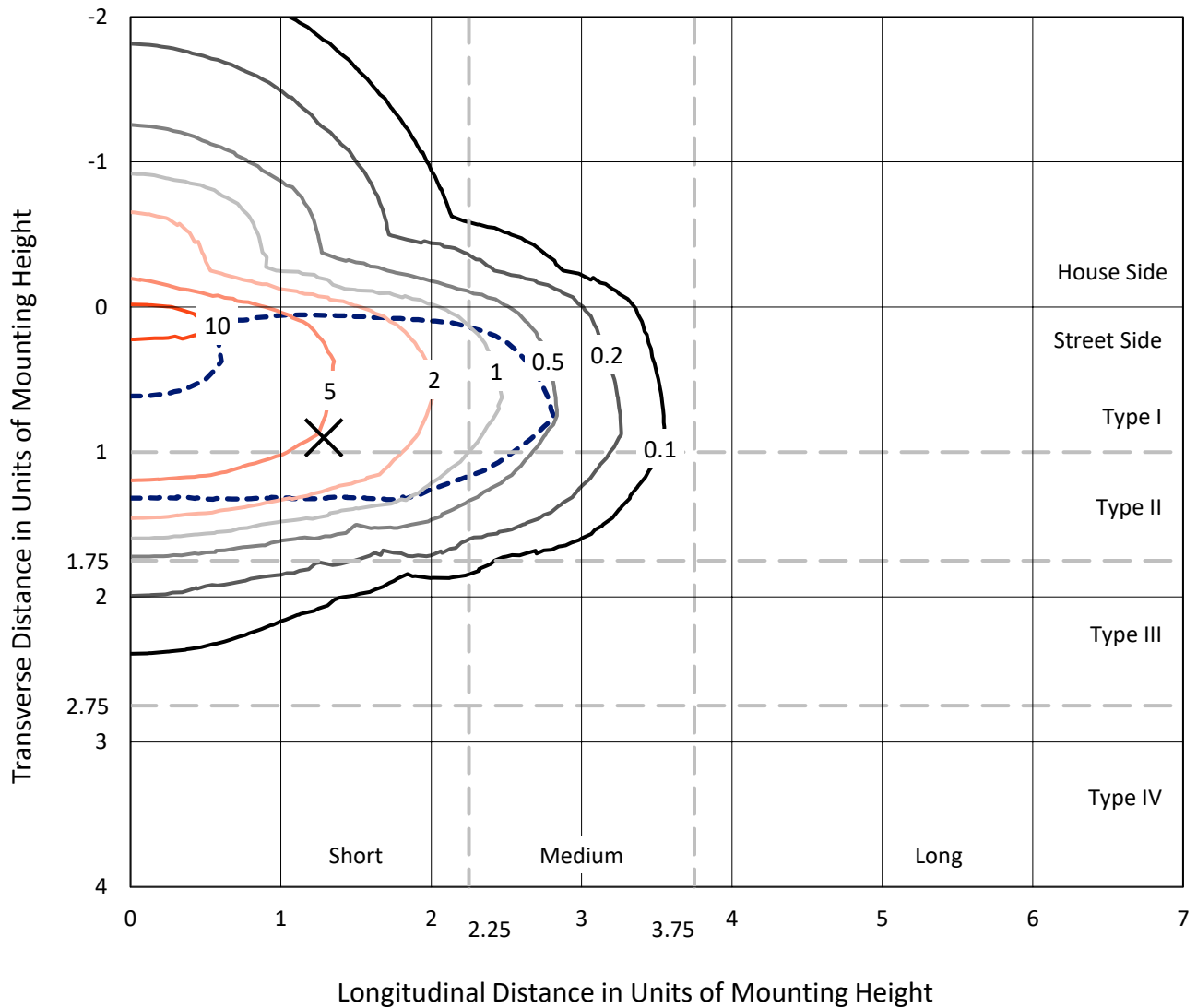
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

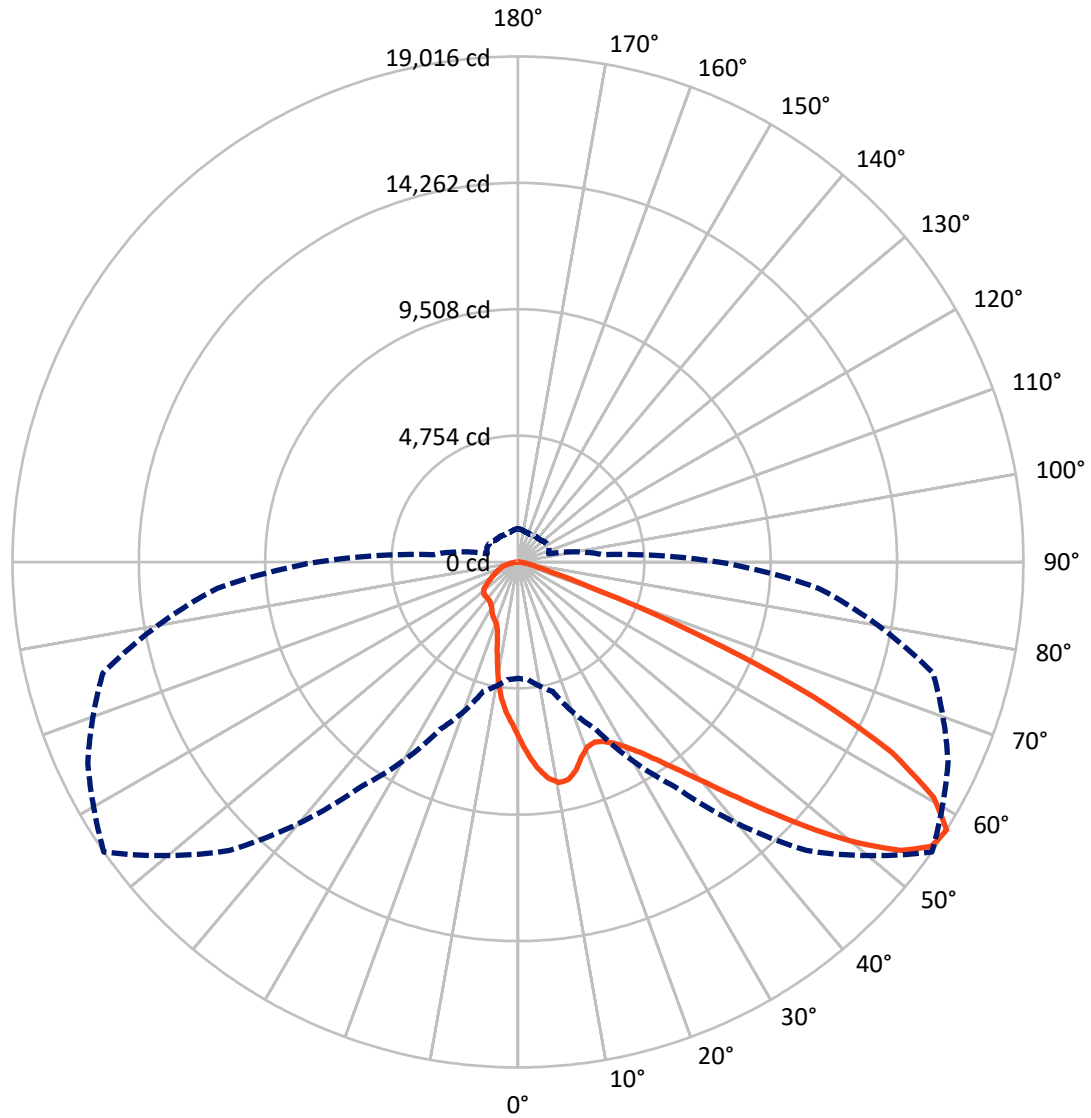
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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	4788.2	0.0	4788.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21673.8	0.0	21673.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	26462.0	0.0	26462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.3	2.3
10°-20°	1553.0	5.9
20°-30°	2478.1	9.4
30°-40°	3923.5	14.8
40°-50°	6005.3	22.7
50°-60°	6432.2	24.3
60°-70°	4046.5	15.3
70°-80°	1196.6	4.5
80°-90°	211.6	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°	26462.0	100.0
0°-180°	26462.0	100.0

Coefficient of Utilization



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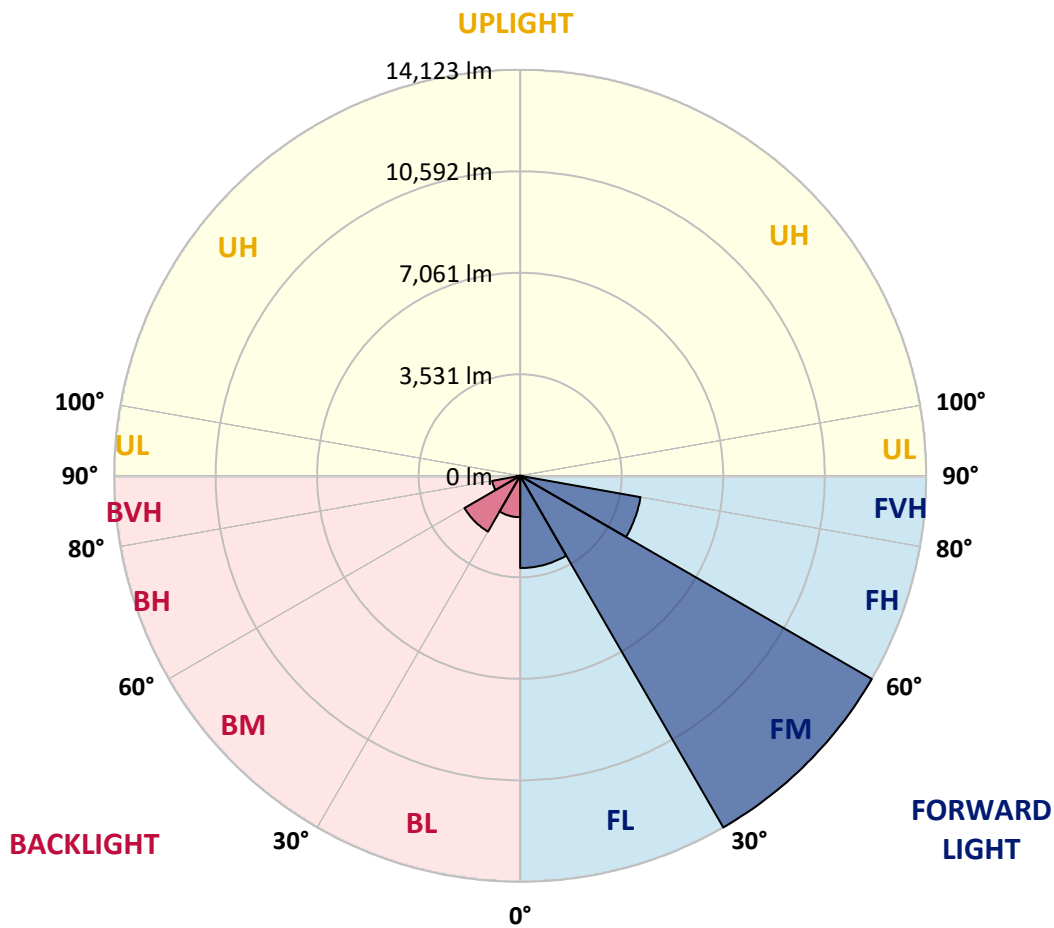
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3207.2	12.1			
FM (30°-60°)	14123.0	53.4			
FH (60°-80°)	4254.3	16.1			G2/5000
FVH (80°-90°)	89.4	0.3			G1/100
BL (0°-30°)	1439.2	5.4	B3/2500		
BM (30°-60°)	2237.9	8.5	B2/2500		
BH (60°-80°)	988.9	3.7	B2/1000		G2/1000
BVH (80°-90°)	122.2	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°	6630.5	6630.5	6630.5	6630.5	6630.5	6630.5	6630.5	6630.5	6630.5	6630.5
2.5°	7607.2	7601.8	7631.9	7529.3	7459.5	7365.1	7240.6	7081.9	6911.0	6730.4
5°	8292.6	8244.7	8276.2	8199.6	8123.0	7980.7	7796.0	7537.5	7221.5	6861.7
7.5°	8184.5	8151.7	8232.4	8300.8	8358.3	8340.5	8205.0	7934.2	7526.5	7004.0
10°	7313.1	7276.2	7389.7	7626.4	7973.9	8276.2	8440.3	8272.1	7838.4	7159.9
12.5°	6544.3	6526.6	6601.8	6793.3	7179.1	7759.1	8410.2	8567.6	8162.6	7344.6
15°	6216.0	6194.1	6242.0	6339.1	6585.4	7125.7	8136.6	8770.0	8481.4	7558.0
17.5°	6143.5	6118.9	6139.4	6190.0	6348.7	6760.5	7723.5	8869.9	8813.8	7796.0
20°	6277.6	6257.1	6259.8	6257.1	6367.9	6694.8	7436.2	8831.6	9103.8	8014.9
22.5°	6601.8	6567.6	6569.0	6496.5	6556.6	6809.7	7361.0	8729.0	9362.3	8206.4
25°	7129.8	7068.3	7080.6	6895.9	6879.5	7066.9	7478.7	8649.6	9619.5	8359.6
27.5°	7852.1	7782.3	7745.4	7470.4	7339.1	7432.1	7718.0	8677.0	9863.0	8492.3
30°	8755.0	8670.2	8594.9	8205.0	7967.0	7932.8	8090.1	8857.6	10150.3	8631.8
32.5°	9861.6	9763.2	9626.4	9109.3	8774.1	8594.9	8571.7	9179.0	10486.8	8809.7
35°	11179.0	11050.4	10856.2	10187.2	9763.2	9396.5	9206.4	9642.8	10947.8	9077.8
37.5°	12536.0	12391.0	12213.2	11417.0	10895.8	10355.5	9980.7	10272.0	11562.0	9441.7
40°	13787.7	13624.9	13459.4	12750.8	12191.3	11540.1	10928.7	11068.2	12313.0	9876.7
42.5°	14526.4	14406.0	14343.1	13960.1	13527.8	12867.1	12107.8	12012.1	13157.1	10377.4
45°	14493.6	14444.3	14638.6	14797.3	14694.7	14328.0	13489.5	13055.8	14003.8	10811.0
47.5°	13719.3	13752.1	14185.8	15077.7	15470.3	15661.8	15062.6	14080.4	14739.8	11135.2
50°	11612.6	11640.0	12644.1	14567.4	15670.0	16749.3	16623.5	15080.4	15310.2	11333.6
52.5°	9945.1	9962.9	10393.8	13054.5	15010.7	17296.5	18029.8	16023.0	15727.5	11388.3
55°	7491.0	7552.5	8035.4	10241.9	13295.2	16862.9	18886.1	16994.2	15991.5	11393.8
57.5°	4376.1	4443.1	5039.6	6952.0	10333.6	15351.3	19016.1	17856.0	16170.7	11350.0
60°	2143.6	2172.3	2432.2	3653.8	6372.0	12438.9	17970.9	18273.3	16270.6	11326.7
62.5°	1444.6	1440.5	1451.4	1803.0	3139.5	7991.6	15793.1	17542.8	16217.2	11237.8
65°	1242.1	1227.1	1186.0	1265.4	1626.5	3655.2	12202.2	15362.2	15810.9	11014.8
67.5°	1073.9	1075.2	1076.6	1052.0	1161.4	1686.7	7456.8	12101.0	14352.7	9958.8
70°	889.2	901.5	907.0	907.0	946.6	1106.7	3183.3	8294.0	11321.3	7808.3
72.5°	809.8	783.8	786.6	772.9	772.9	842.7	1281.8	4701.7	7132.6	4392.5
75°	660.7	677.1	679.9	670.3	638.8	642.9	760.6	1972.6	3051.9	1822.1
77.5°	570.4	570.4	575.9	569.1	544.4	481.5	507.5	764.7	1038.3	746.9
80°	458.3	456.9	480.2	493.8	455.5	355.7	324.2	422.7	461.0	328.3
82.5°	223.0	236.7	329.7	376.2	346.1	257.2	198.4	262.6	246.2	145.0
85°	130.0	123.1	147.7	209.3	198.4	142.3	95.8	136.8	128.6	73.9
87.5°	41.0	38.3	30.1	71.1	57.5	39.7	26.0	39.7	35.6	16.4
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°
6630.5	0°	6630.5	6630.5	6630.5	6630.5	6630.5	6630.5	6630.5	6630.5	6630.5	6630.5
6652.4	2.5°	6555.3	6393.9	6233.8	6087.4	5998.5	5941.1	5883.6	5819.3	5794.7	5757.8
6670.2	5°	6489.6	6177.7	5900.0	5660.6	5443.1	5272.1	5099.8	4960.2	4897.3	4939.7
6726.3	7.5°	6451.3	5999.9	5571.7	5132.6	4709.9	4372.0	4077.9	3871.3	3778.3	3801.6
6781.0	10°	6417.1	5798.8	5146.3	4452.7	3845.3	3426.7	3125.8	2968.5	2909.7	2922.0
6854.9	12.5°	6385.7	5573.1	4633.3	3720.9	3075.2	2798.9	2712.7	2714.0	2725.0	2733.2
6972.5	15°	6380.2	5300.9	4060.1	3080.7	2659.3	2641.5	2734.6	2793.4	2824.8	2834.4
7071.0	17.5°	6372.0	4975.3	3476.0	2644.3	2558.1	2678.5	2764.7	2803.0	2827.6	2828.9
7166.8	20°	6339.1	4562.2	2937.0	2436.3	2536.2	2640.2	2693.5	2723.6	2744.1	2751.0
7239.3	22.5°	6237.9	4102.5	2517.1	2343.3	2448.7	2532.1	2595.0	2629.2	2641.5	2649.7
7252.9	25°	6056.0	3588.2	2227.0	2254.4	2326.9	2432.2	2482.9	2489.7	2485.6	2497.9
7218.7	27.5°	5817.9	3036.9	2046.5	2134.0	2227.0	2317.3	2344.7	2340.6	2332.4	2346.1
7159.9	30°	5530.7	2541.7	1931.6	1998.6	2125.8	2207.9	2232.5	2222.9	2206.5	2221.6
7129.8	32.5°	5227.0	2136.8	1837.2	1904.2	2042.4	2123.1	2147.7	2138.1	2125.8	2138.1
7164.0	35°	4943.8	1853.6	1749.6	1841.3	1976.7	2056.0	2087.5	2088.9	2088.9	2103.9
7254.3	37.5°	4683.9	1688.1	1677.1	1801.6	1931.6	2002.7	2047.8	2050.6	1991.8	1995.9
7407.5	40°	4443.1	1618.3	1644.3	1775.6	1887.8	1956.2	1958.9	1805.7	1697.6	1694.9
7582.6	42.5°	4246.2	1604.6	1653.9	1772.9	1856.3	1859.1	1666.2	1547.2	1517.1	1518.4
7744.0	45°	4061.5	1600.5	1675.8	1772.9	1809.8	1606.0	1476.0	1444.6	1447.3	1458.2
7816.5	47.5°	3854.9	1584.1	1679.9	1748.3	1675.8	1428.2	1389.9	1376.2	1370.7	1373.4
7800.1	50°	3629.2	1525.3	1627.9	1699.0	1445.9	1351.5	1303.7	1299.6	1306.4	1310.5
7708.5	52.5°	3391.2	1429.5	1539.0	1610.1	1340.6	1284.5	1231.2	1240.7	1270.8	1280.4
7612.7	55°	3235.2	1317.3	1421.3	1432.3	1266.7	1221.6	1176.4	1198.3	1254.4	1272.2
7555.3	57.5°	3194.2	1198.3	1287.3	1274.9	1172.3	1166.9	1139.5	1158.7	1229.8	1255.8
7552.5	60°	3181.9	1091.6	1155.9	1146.4	1080.7	1106.7	1099.8	1109.4	1134.0	1142.2
7525.2	62.5°	3086.1	1006.8	1038.3	1024.6	998.6	1043.8	1060.2	1039.7	1058.8	1068.4
7337.8	65°	2842.6	938.4	923.4	913.8	924.7	965.8	998.6	957.6	975.4	1002.7
6615.5	67.5°	2440.4	845.4	804.4	815.3	849.5	871.4	913.8	867.3	882.3	928.8
5328.2	70°	1974.0	727.8	690.8	722.3	755.1	800.3	807.1	775.6	811.2	863.2
3251.6	72.5°	1396.7	608.7	582.8	647.0	658.0	716.8	701.8	686.7	736.0	753.7
1607.4	75°	968.5	491.1	476.1	525.3	565.0	615.6	604.6	622.4	726.4	734.6
803.0	77.5°	612.8	381.7	372.1	403.5	458.3	514.4	532.1	734.6	1240.7	1290.0
417.2	80°	355.7	284.5	273.6	298.2	346.1	398.1	513.0	901.5	818.0	808.5
187.4	82.5°	198.4	195.6	181.9	188.8	231.2	287.3	725.0	634.7	515.7	532.1
75.2	85°	93.0	114.9	98.5	94.4	130.0	336.5	484.3	362.5	240.8	235.3
16.4	87.5°	24.6	21.9	21.9	24.6	54.7	290.0	192.9	154.6	91.7	88.9
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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