

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: P953632

Luminaire Tested: **GALN-SB7A-850-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953632  
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-SB7A-850-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

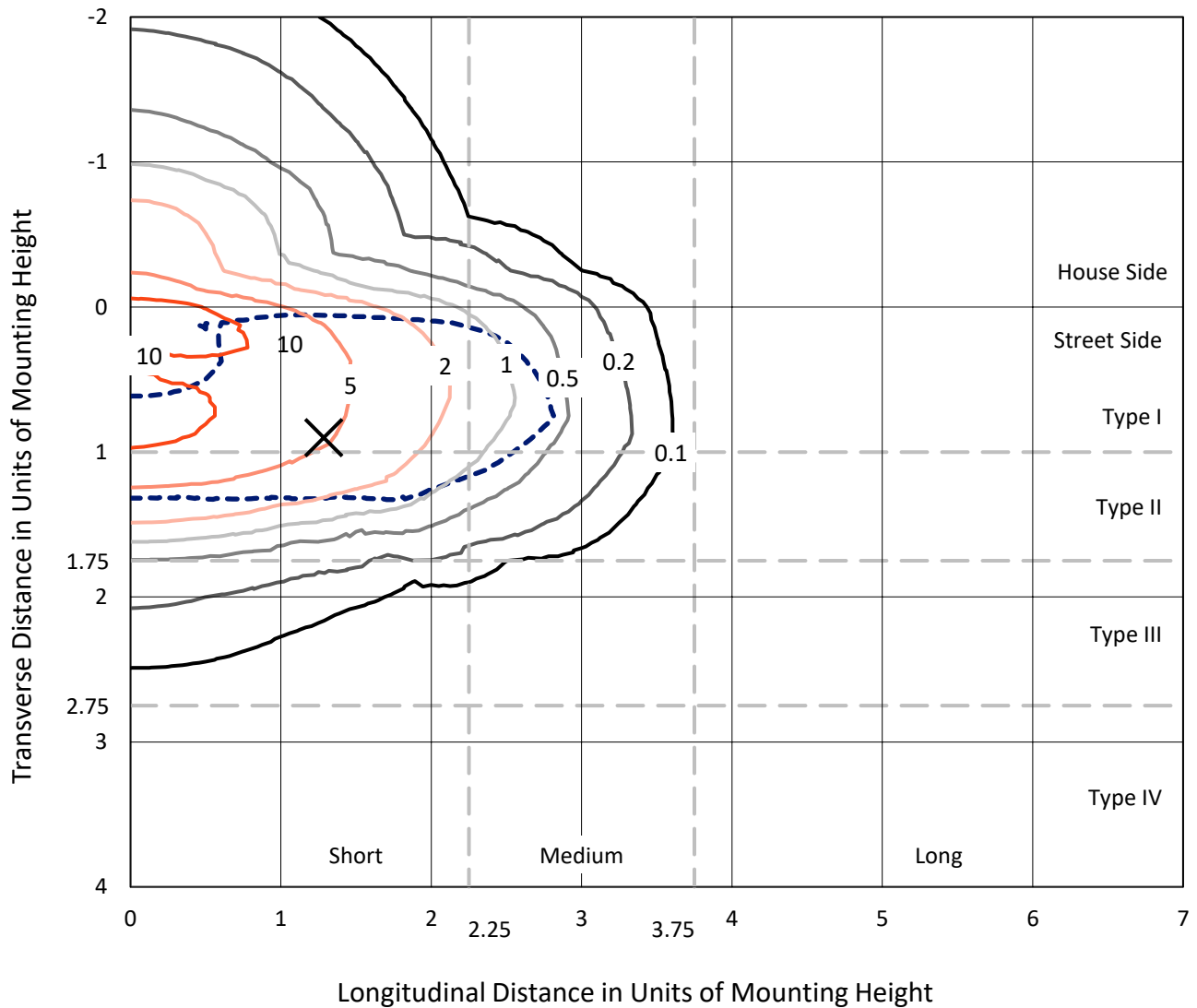
Lumens per Lamp: N/A  
Luminaire Lumens: 31034 lumens  
Efficiency: N/A  
Efficacy: 155.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

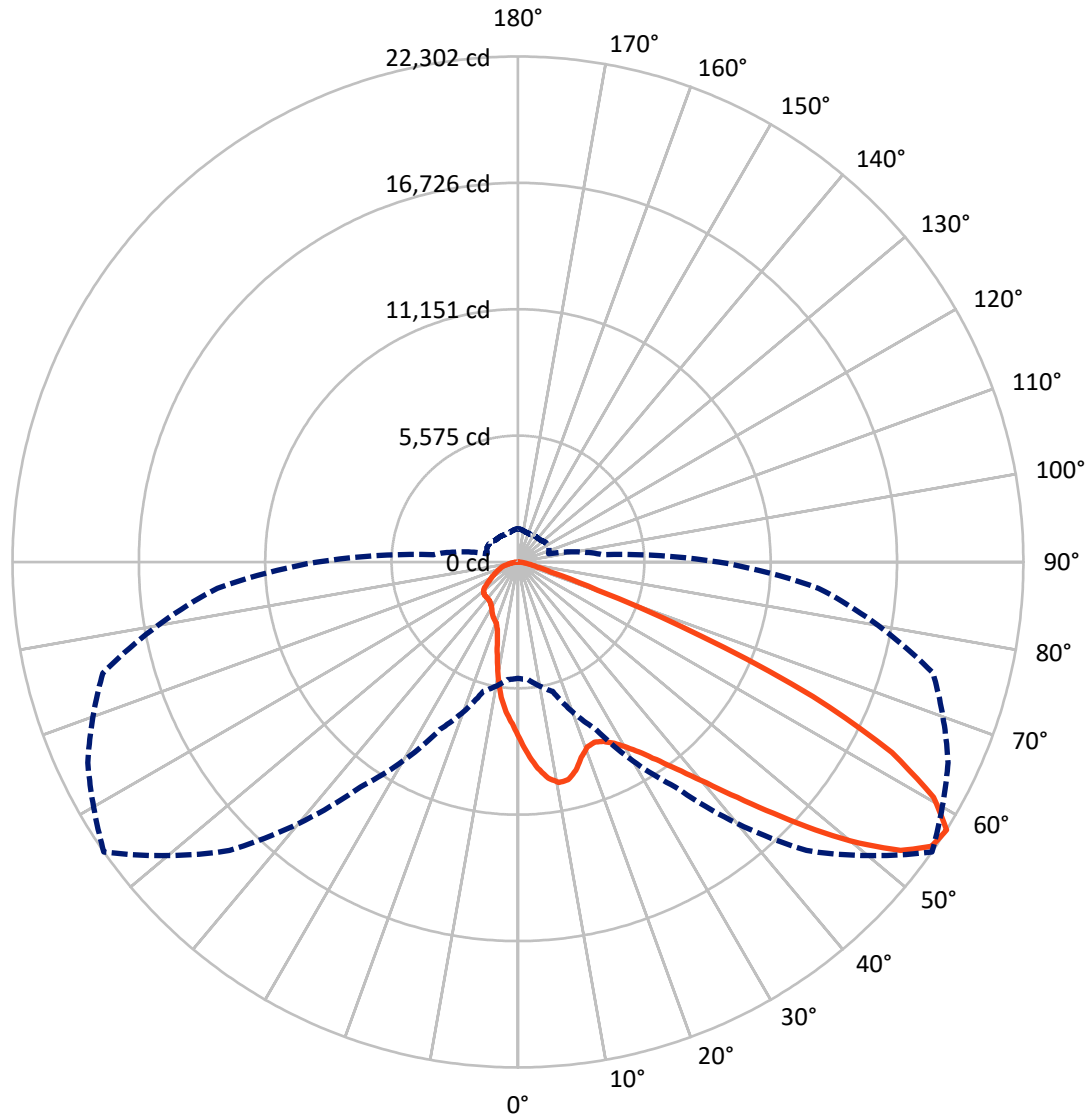
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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
<b>House Side</b>	Lumens	5615.5	0.0	5615.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	25418.5	0.0	25418.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	31034.0	0.0	31034.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	721.6	2.3
10°-20°	1821.3	5.9
20°-30°	2906.3	9.4
30°-40°	4601.3	14.8
40°-50°	7042.8	22.7
50°-60°	7543.5	24.3
60°-70°	4745.7	15.3
70°-80°	1403.4	4.5
80°-90°	248.1	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°	31034.0	100.0
0°-180°	31034.0	100.0

**Coefficient of Utilization**



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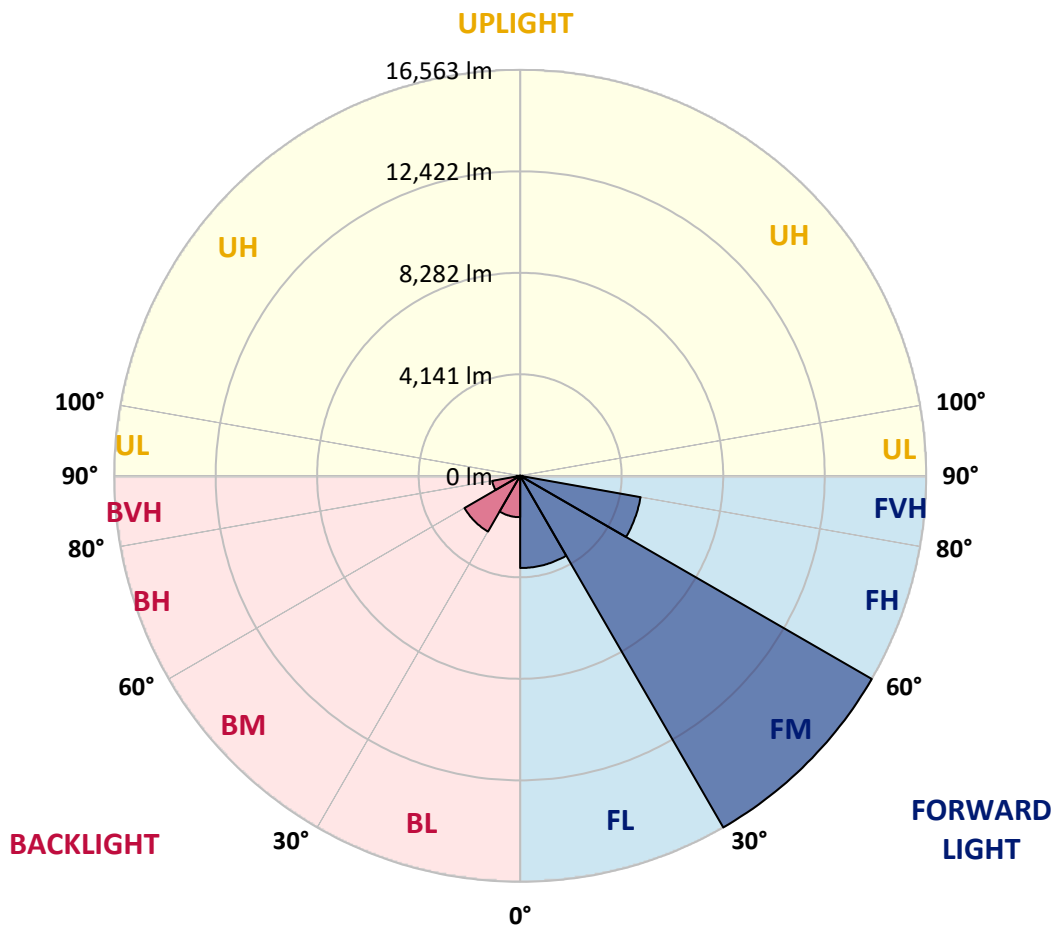
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3761.3	12.1			
FM (30°-60°)	16563.1	53.4			
FH (60°-80°)	4989.3	16.1			G2/5000
FVH (80°-90°)	104.8	0.3			G2/225
BL (0°-30°)	1687.8	5.4	B3/2500		
BM (30°-60°)	2624.6	8.5	B3/5000		
BH (60°-80°)	1159.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	143.3	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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1
2.5°	8921.6	8915.2	8950.5	8830.1	8748.3	8637.6	8491.6	8305.5	8105.0	7893.2
5°	9725.4	9669.2	9706.1	9616.3	9526.4	9359.6	9143.0	8839.8	8469.2	8047.2
7.5°	9598.6	9560.1	9654.8	9735.0	9802.4	9781.5	9622.7	9305.0	8826.9	8214.1
10°	8576.7	8533.3	8666.5	8944.1	9351.6	9706.1	9898.6	9701.3	9192.7	8397.0
12.5°	7675.0	7654.2	7742.4	7967.0	8419.4	9099.7	9863.3	10047.8	9572.9	8613.6
15°	7290.0	7264.3	7320.5	7434.4	7723.2	8356.9	9542.5	10285.3	9946.8	8863.8
17.5°	7205.0	7176.1	7200.2	7259.5	7445.6	7928.5	9058.0	10402.4	10336.6	9143.0
20°	7362.2	7338.1	7341.3	7338.1	7468.1	7851.5	8721.1	10357.5	10676.7	9399.7
22.5°	7742.4	7702.3	7703.9	7618.9	7689.5	7986.3	8632.8	10237.1	10979.9	9624.3
25°	8361.7	8289.5	8303.9	8087.4	8068.1	8287.9	8770.8	10144.1	11281.5	9804.0
27.5°	9208.8	9126.9	9083.6	8761.2	8607.1	8716.2	9051.5	10176.2	11567.1	9959.6
30°	10267.6	10168.1	10079.9	9622.7	9343.5	9303.4	9487.9	10387.9	11904.0	10123.2
32.5°	11565.5	11450.0	11289.6	10683.1	10290.1	10079.9	10052.6	10765.0	12298.7	10331.8
35°	13110.5	12959.7	12731.8	11947.3	11450.0	11020.0	10797.0	11308.8	12839.3	10646.2
37.5°	14701.9	14531.9	14323.3	13389.6	12778.4	12144.7	11705.1	12046.8	13559.7	11073.0
40°	16169.9	15979.0	15784.9	14953.8	14297.7	13534.0	12816.9	12980.5	14440.4	11583.2
42.5°	17036.2	16895.0	16821.2	16372.0	15865.1	15090.2	14199.8	14087.5	15430.3	12170.3
45°	16997.7	16940.0	17167.8	17353.9	17233.5	16803.6	15820.1	15311.6	16423.4	12678.9
47.5°	16089.7	16128.2	16636.7	17682.8	18143.2	18367.8	17665.1	16513.2	17286.5	13059.1
50°	13619.0	13651.1	14828.7	17084.3	18377.4	19643.2	19495.6	17686.0	17955.5	13291.7
52.5°	11663.4	11684.2	12189.6	15310.0	17604.1	20285.0	21144.9	18791.3	18444.8	13355.9
55°	8785.2	8857.4	9423.7	12011.5	15592.3	19776.4	22149.2	19930.4	18754.4	13362.3
57.5°	5132.2	5210.8	5910.3	8153.1	12119.0	18003.6	22301.6	20941.1	18964.6	13311.0
60°	2514.0	2547.7	2852.5	4285.1	7472.9	14588.0	21075.9	21430.4	19081.7	13283.7
62.5°	1694.2	1689.3	1702.2	2114.5	3681.9	9372.4	18521.8	20573.7	19019.2	13179.4
65°	1456.7	1439.1	1390.9	1484.0	1907.5	4286.7	14310.5	18016.5	18542.7	12917.9
67.5°	1259.4	1261.0	1262.6	1233.7	1362.1	1978.1	8745.1	14191.8	16832.5	11679.4
70°	1042.8	1057.2	1063.7	1063.7	1110.2	1297.9	3733.2	9727.0	13277.3	9157.4
72.5°	949.8	919.3	922.5	906.4	906.4	988.3	1503.2	5514.0	8364.9	5151.5
75°	774.9	794.1	797.3	786.1	749.2	754.0	892.0	2313.4	3579.2	2136.9
77.5°	669.0	669.0	675.4	667.4	638.5	564.7	595.2	896.8	1217.7	876.0
80°	537.4	535.8	563.1	579.2	534.2	417.1	380.2	495.7	540.7	385.0
82.5°	261.5	277.5	386.6	441.2	405.9	301.6	232.6	308.0	288.8	170.1
85°	152.4	144.4	173.3	245.5	232.6	166.8	112.3	160.4	150.8	86.6
87.5°	48.1	44.9	35.3	83.4	67.4	46.5	30.5	46.5	41.7	19.3
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°
7776.1	0°	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1
7801.8	2.5°	7687.9	7498.6	7310.9	7139.2	7034.9	6967.5	6900.2	6824.8	6795.9	6752.6
7822.6	5°	7610.9	7245.1	6919.4	6638.7	6383.6	6183.0	5980.9	5817.2	5743.4	5793.2
7888.4	7.5°	7565.9	7036.5	6534.4	6019.4	5523.7	5127.4	4782.5	4540.2	4431.1	4458.4
7952.6	10°	7525.8	6800.7	6035.4	5222.0	4509.7	4018.8	3665.9	3481.4	3412.4	3426.8
8039.2	12.5°	7488.9	6536.0	5433.8	4363.7	3606.5	3282.4	3181.4	3183.0	3195.8	3205.4
8177.2	15°	7482.5	6216.7	4761.6	3612.9	3118.8	3097.9	3207.0	3276.0	3312.9	3324.1
8292.7	17.5°	7472.9	5834.9	4076.6	3101.1	3000.1	3141.2	3242.3	3287.2	3316.1	3317.7
8405.0	20°	7434.4	5350.4	3444.5	2857.3	2974.4	3096.3	3158.9	3194.2	3218.3	3226.3
8490.0	22.5°	7315.7	4811.3	2951.9	2748.2	2871.7	2969.6	3043.4	3083.5	3097.9	3107.6
8506.1	25°	7102.3	4208.1	2611.8	2643.9	2728.9	2852.5	2911.8	2919.9	2915.0	2929.5
8466.0	27.5°	6823.2	3561.6	2400.1	2502.7	2611.8	2717.7	2749.8	2745.0	2735.4	2751.4
8397.0	30°	6486.2	2980.8	2265.3	2343.9	2493.1	2589.4	2618.2	2607.0	2587.8	2605.4
8361.7	32.5°	6130.1	2505.9	2154.6	2233.2	2395.2	2489.9	2518.8	2507.5	2493.1	2507.5
8401.8	35°	5798.0	2173.8	2051.9	2159.4	2318.2	2411.3	2448.2	2449.8	2449.8	2467.4
8507.7	37.5°	5493.2	1979.7	1966.9	2112.9	2265.3	2348.7	2401.7	2404.9	2335.9	2340.7
8687.4	40°	5210.8	1897.9	1928.4	2082.4	2214.0	2294.2	2297.4	2117.7	1991.0	1987.7
8892.7	42.5°	4979.8	1881.9	1939.6	2079.2	2177.1	2180.3	1954.1	1814.5	1779.2	1780.8
9082.0	45°	4763.2	1877.0	1965.3	2079.2	2122.5	1883.5	1731.1	1694.2	1697.4	1710.2
9167.1	47.5°	4521.0	1857.8	1970.1	2050.3	1965.3	1674.9	1630.0	1613.9	1607.5	1610.7
9147.8	50°	4256.2	1788.8	1909.1	1992.6	1695.8	1585.1	1528.9	1524.1	1532.1	1536.9
9040.3	52.5°	3977.1	1676.5	1804.9	1888.3	1572.2	1506.5	1443.9	1455.1	1490.4	1501.6
8928.0	55°	3794.2	1545.0	1666.9	1679.7	1485.6	1432.7	1379.7	1405.4	1471.2	1492.0
8860.6	57.5°	3746.1	1405.4	1509.7	1495.2	1374.9	1368.5	1336.4	1358.9	1442.3	1472.8
8857.4	60°	3731.6	1280.2	1355.6	1344.4	1267.4	1297.9	1289.9	1301.1	1330.0	1339.6
8825.3	62.5°	3619.3	1180.8	1217.7	1201.6	1171.1	1224.1	1243.3	1219.3	1241.7	1253.0
8605.5	65°	3333.8	1100.6	1082.9	1071.7	1084.5	1132.6	1171.1	1123.0	1143.9	1176.0
7758.5	67.5°	2862.1	991.5	943.3	956.2	996.3	1021.9	1071.7	1017.1	1034.8	1089.3
6248.8	70°	2315.0	853.5	810.2	847.1	885.6	938.5	946.5	909.6	951.4	1012.3
3813.5	72.5°	1638.0	713.9	683.4	758.8	771.7	840.7	823.0	805.4	863.1	884.0
1885.1	75°	1135.9	575.9	558.3	616.1	662.6	721.9	709.1	730.0	851.9	861.5
941.7	77.5°	718.7	447.6	436.4	473.3	537.4	603.2	624.1	861.5	1455.1	1512.9
489.3	80°	417.1	333.7	320.9	349.7	405.9	466.9	601.6	1057.2	959.4	948.1
219.8	82.5°	232.6	229.4	213.4	221.4	271.1	336.9	850.3	744.4	604.8	624.1
88.2	85°	109.1	134.8	115.5	110.7	152.4	394.7	567.9	425.1	282.4	275.9
19.3	87.5°	28.9	25.7	25.7	28.9	64.2	340.1	226.2	181.3	107.5	104.3
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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