

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: P949999

Luminaire Tested: **GALN-SB4C-830-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949999  
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-SB4C-830-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

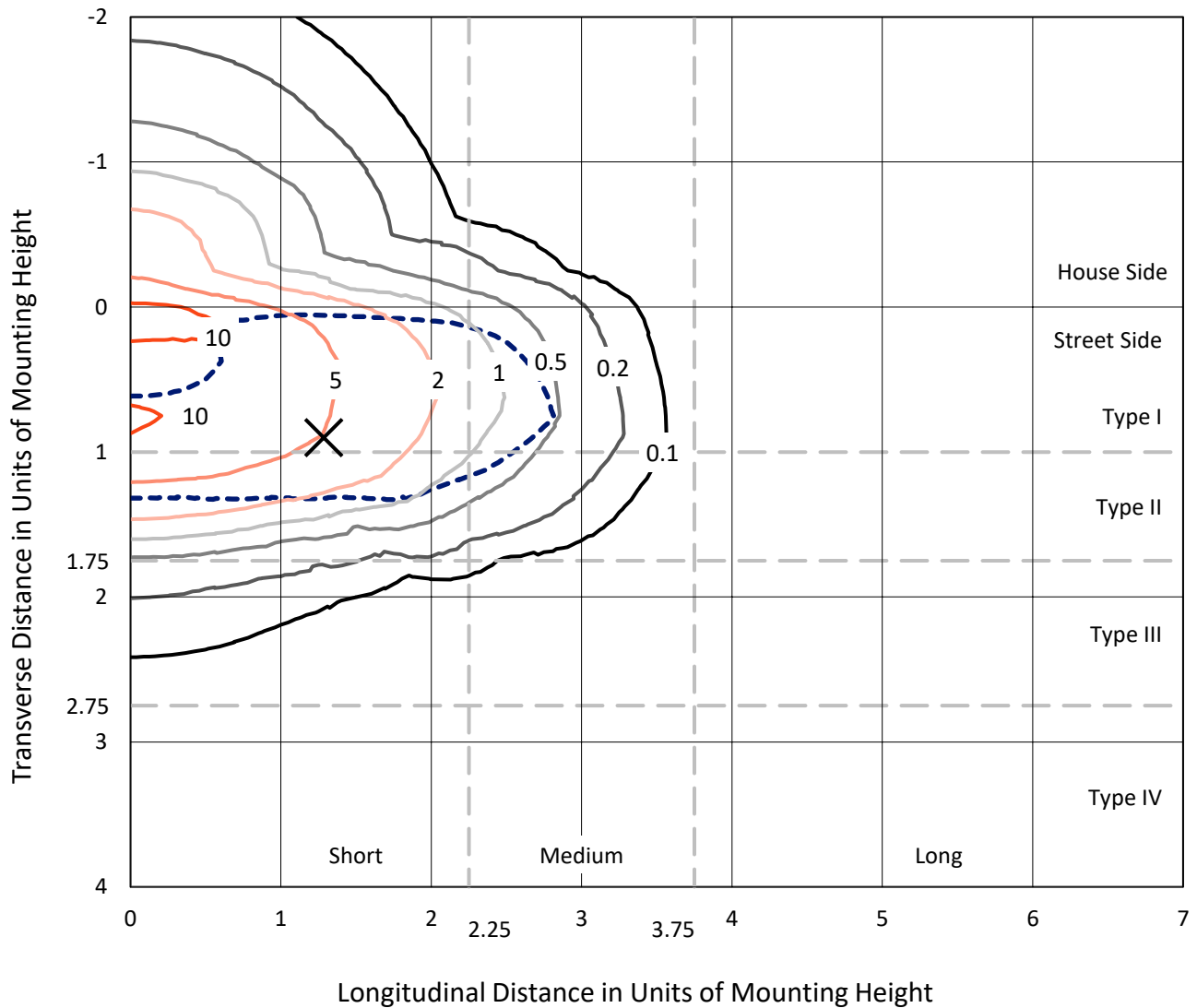
Lumens per Lamp: N/A  
Luminaire Lumens: 27429 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

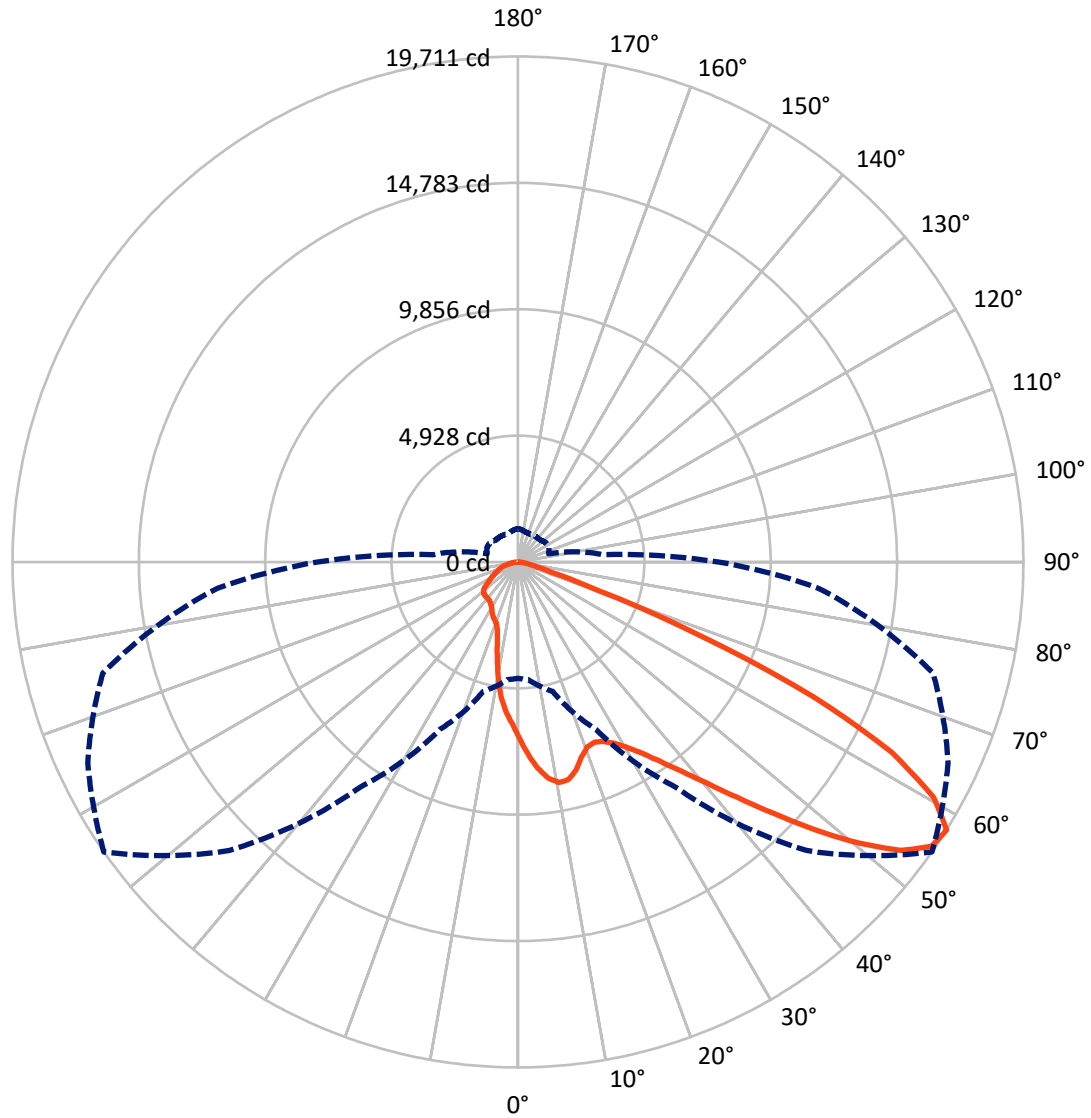
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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	4963.1	0.0	4963.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	22465.8	0.0	22465.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	27429.0	0.0	27429.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	637.8	2.3
10°-20°	1609.7	5.9
20°-30°	2568.7	9.4
30°-40°	4066.8	14.8
40°-50°	6224.7	22.7
50°-60°	6667.2	24.3
60°-70°	4194.4	15.3
70°-80°	1240.4	4.5
80°-90°	219.3	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°	27429.0	100.0
0°-180°	27429.0	100.0

**Coefficient of Utilization**



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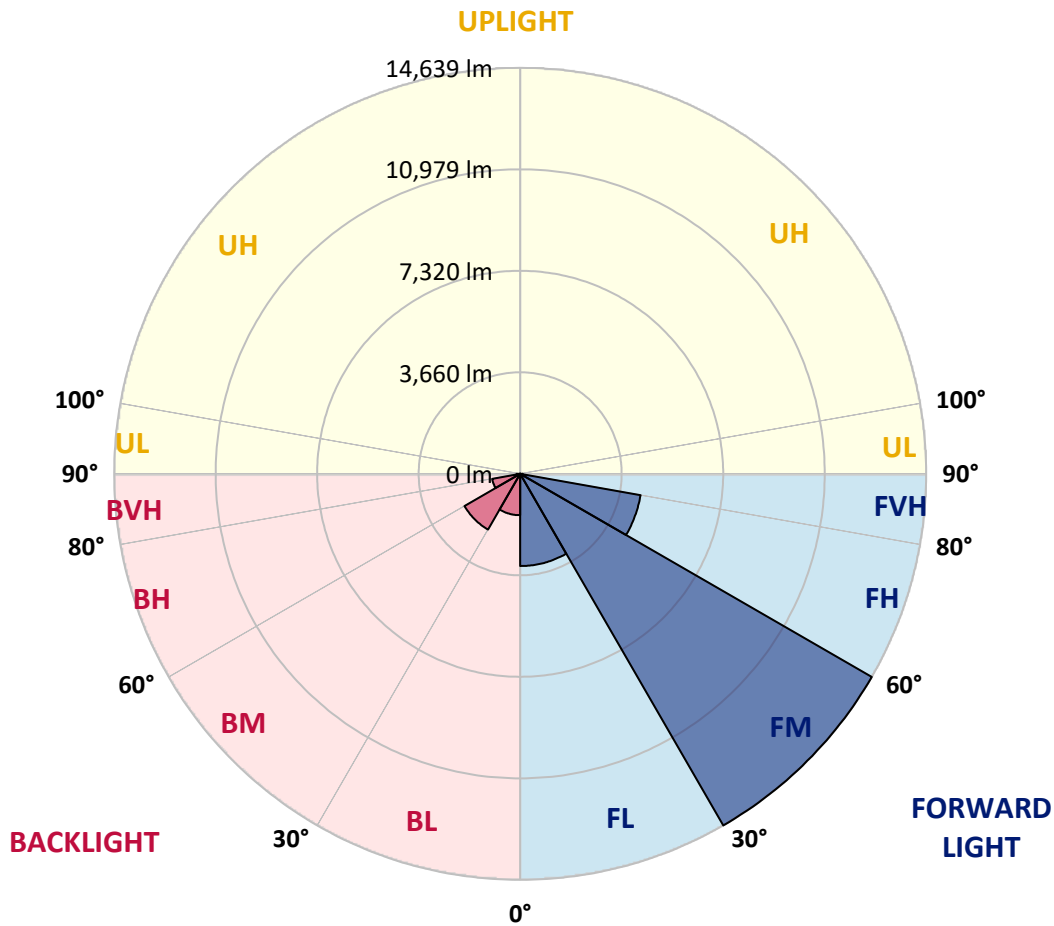
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3324.4	12.1			
FM (30°-60°)	14639.0	53.4			
FH (60°-80°)	4409.7	16.1			G2/5000
FVH (80°-90°)	92.7	0.3			G1/100
BL (0°-30°)	1491.8	5.4	B3/2500		
BM (30°-60°)	2319.7	8.5	B2/2500		
BH (60°-80°)	1025.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	126.6	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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6872.8	6872.8	6872.8	6872.8	6872.8	6872.8	6872.8	6872.8	6872.8	6872.8
2.5°	7885.2	7879.6	7910.8	7804.4	7732.1	7634.3	7505.2	7340.7	7163.5	6976.3
5°	8595.6	8546.0	8578.6	8499.2	8419.8	8272.3	8080.9	7812.9	7485.4	7112.5
7.5°	8483.6	8449.6	8533.2	8604.1	8663.7	8645.3	8504.9	8224.1	7801.6	7259.9
10°	7580.4	7542.1	7659.8	7905.1	8265.2	8578.6	8748.8	8574.4	8124.9	7421.6
12.5°	6783.5	6765.1	6843.0	7041.6	7441.4	8042.6	8717.6	8880.6	8460.9	7613.0
15°	6443.2	6420.5	6470.1	6570.8	6826.0	7386.1	8434.0	9090.5	8791.3	7834.2
17.5°	6368.0	6342.5	6363.8	6416.2	6580.7	7007.5	8005.8	9194.0	9135.9	8080.9
20°	6507.0	6485.7	6488.6	6485.7	6600.6	6939.5	7708.0	9154.3	9436.5	8307.8
22.5°	6843.0	6807.6	6809.0	6733.9	6796.2	7058.6	7630.0	9048.0	9704.5	8506.3
25°	7390.4	7326.6	7339.3	7147.9	7130.9	7325.1	7751.9	8965.7	9971.0	8665.1
27.5°	8139.0	8066.7	8028.4	7743.4	7607.3	7703.7	8000.1	8994.1	10223.4	8802.7
30°	9074.9	8987.0	8909.0	8504.9	8258.2	8222.7	8385.8	9181.2	10521.2	8947.3
32.5°	10222.0	10119.9	9978.1	9442.1	9094.7	8909.0	8884.9	9514.5	10870.0	9131.6
35°	11587.5	11454.2	11252.9	10559.5	10119.9	9739.9	9542.8	9995.1	11347.9	9409.5
37.5°	12994.1	12843.8	12659.5	11834.2	11294.0	10733.9	10345.4	10647.4	11984.5	9786.7
40°	14291.5	14122.8	13951.2	13216.7	12636.8	11961.8	11328.0	11472.7	12763.0	10237.6
42.5°	15057.2	14932.5	14867.2	14470.2	14022.1	13337.3	12550.3	12451.0	13637.9	10756.6
45°	15023.2	14972.2	15173.5	15338.0	15231.6	14851.6	13982.4	13532.9	14515.6	11206.1
47.5°	14220.6	14254.7	14704.2	15628.7	16035.6	16234.1	15613.1	14595.0	15278.4	11542.1
50°	12037.0	12065.4	13106.1	15099.8	16242.6	17361.4	17231.0	15631.5	15869.7	11747.7
52.5°	10308.5	10327.0	10773.6	13531.5	15559.2	17928.6	18688.6	16608.5	16302.2	11804.5
55°	7764.7	7828.5	8329.1	10616.2	13781.1	17479.1	19576.3	17615.2	16575.9	11810.1
57.5°	4536.0	4605.5	5223.7	7206.0	10711.2	15912.3	19711.0	18508.5	16761.6	11764.8
60°	2221.9	2251.7	2521.1	3787.4	6604.8	12893.4	18627.6	18941.0	16865.1	11740.6
62.5°	1497.4	1493.1	1504.4	1868.9	3254.2	8283.7	16370.3	18183.8	16809.8	11648.5
65°	1287.5	1271.9	1229.4	1311.6	1685.9	3788.8	12648.1	15923.6	16388.7	11417.4
67.5°	1113.1	1114.5	1115.9	1090.4	1203.8	1748.3	7729.3	12543.2	14877.2	10322.7
70°	921.7	934.4	940.1	940.1	981.2	1147.1	3299.6	8597.0	11735.0	8093.7
72.5°	839.4	812.5	815.3	801.1	801.1	873.5	1328.6	4873.5	7393.2	4553.0
75°	684.9	701.9	704.7	694.8	662.2	666.4	788.4	2044.7	3163.5	1888.7
77.5°	591.3	591.3	597.0	589.9	564.3	499.1	526.1	792.6	1076.2	774.2
80°	475.0	473.6	497.7	511.9	472.2	368.7	336.1	438.1	477.9	340.3
82.5°	231.1	245.3	341.7	389.9	358.7	266.6	205.6	272.2	255.2	150.3
85°	134.7	127.6	153.1	216.9	205.6	147.5	99.3	141.8	133.3	76.6
87.5°	42.5	39.7	31.2	73.7	59.6	41.1	26.9	41.1	36.9	17.0
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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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
6872.8	0°	6872.8	6872.8	6872.8	6872.8	6872.8	6872.8	6872.8	6872.8	6872.8	6872.8
6895.5	2.5°	6794.8	6627.5	6461.6	6309.9	6217.7	6158.2	6098.6	6032.0	6006.4	5968.2
6913.9	5°	6726.8	6403.5	6115.6	5867.5	5642.0	5464.8	5286.1	5141.5	5076.3	5120.2
6972.1	7.5°	6687.1	6219.1	5775.3	5320.2	4882.0	4531.8	4226.9	4012.8	3916.4	3940.5
7028.8	10°	6651.6	6010.7	5334.3	4615.4	3985.9	3552.0	3240.0	3077.0	3016.0	3028.7
7105.4	12.5°	6619.0	5776.7	4802.6	3856.8	3187.6	2901.1	2811.8	2813.2	2824.6	2833.1
7227.3	15°	6613.3	5494.6	4208.5	3193.2	2756.5	2738.1	2834.5	2895.5	2928.1	2938.0
7329.4	17.5°	6604.8	5157.1	3603.0	2740.9	2651.6	2776.4	2865.7	2905.4	2930.9	2932.3
7428.7	20°	6570.8	4728.9	3044.3	2525.4	2628.9	2736.6	2791.9	2823.1	2844.4	2851.5
7503.8	22.5°	6465.9	4252.4	2609.0	2429.0	2538.1	2624.6	2689.9	2725.3	2738.1	2746.6
7518.0	25°	6277.3	3719.3	2308.4	2336.8	2411.9	2521.1	2573.6	2580.7	2576.4	2589.2
7482.5	27.5°	6030.6	3147.9	2121.3	2212.0	2308.4	2402.0	2430.4	2426.1	2417.6	2431.8
7421.6	30°	5732.8	2634.6	2002.1	2071.6	2203.5	2288.6	2314.1	2304.2	2287.2	2302.8
7390.4	32.5°	5418.0	2214.8	1904.3	1973.8	2117.0	2200.7	2226.2	2216.3	2203.5	2216.3
7425.8	35°	5124.5	1921.3	1813.6	1908.6	2048.9	2131.2	2163.8	2165.2	2165.2	2180.8
7519.4	37.5°	4855.1	1749.8	1738.4	1867.4	2002.1	2075.9	2122.7	2125.5	2064.5	2068.8
7678.2	40°	4605.5	1677.4	1704.4	1840.5	1956.8	2027.7	2030.5	1871.7	1759.7	1756.8
7859.7	42.5°	4401.3	1663.3	1714.3	1837.7	1924.2	1927.0	1727.1	1603.7	1572.5	1573.9
8027.0	45°	4209.9	1659.0	1737.0	1837.7	1876.0	1664.7	1530.0	1497.4	1500.2	1511.5
8102.2	47.5°	3995.8	1642.0	1741.2	1812.1	1737.0	1480.3	1440.6	1426.5	1420.8	1423.6
8085.2	50°	3761.8	1581.0	1687.4	1761.1	1498.8	1400.9	1351.3	1347.1	1354.1	1358.4
7990.2	52.5°	3515.1	1481.8	1595.2	1668.9	1389.6	1331.5	1276.2	1286.1	1317.3	1327.2
7890.9	55°	3353.5	1365.5	1473.3	1484.6	1313.0	1266.2	1219.4	1242.1	1300.3	1318.7
7831.4	57.5°	3310.9	1242.1	1334.3	1321.5	1215.2	1209.5	1181.2	1201.0	1274.7	1301.7
7828.5	60°	3298.2	1131.5	1198.2	1188.2	1120.2	1147.1	1140.0	1150.0	1175.5	1184.0
7800.2	62.5°	3198.9	1043.6	1076.2	1062.0	1035.1	1081.9	1098.9	1077.6	1097.5	1107.4
7605.9	65°	2946.5	972.7	957.1	947.2	958.5	1001.1	1035.1	992.6	1011.0	1039.4
6857.2	67.5°	2529.6	876.3	833.8	845.1	880.5	903.2	947.2	899.0	914.6	962.8
5522.9	70°	2046.1	754.4	716.1	748.7	782.7	829.5	836.6	804.0	840.8	894.7
3370.5	72.5°	1447.7	631.0	604.0	670.7	682.0	743.0	727.4	711.8	762.9	781.3
1666.1	75°	1003.9	509.0	493.4	544.5	585.6	638.1	626.7	645.2	752.9	761.4
832.3	77.5°	635.2	395.6	385.7	418.3	475.0	533.2	551.6	761.4	1286.1	1337.1
432.5	80°	368.7	294.9	283.6	309.1	358.7	412.6	531.7	934.4	847.9	838.0
194.3	82.5°	205.6	202.8	188.6	195.7	239.6	297.8	751.5	657.9	534.6	551.6
78.0	85°	96.4	119.1	102.1	97.8	134.7	348.8	502.0	375.8	249.6	243.9
17.0	87.5°	25.5	22.7	22.7	25.5	56.7	300.6	199.9	160.2	95.0	92.2
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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