

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: P952141

Luminaire Tested: **GALN-SB6A-830-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952141  
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-830-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

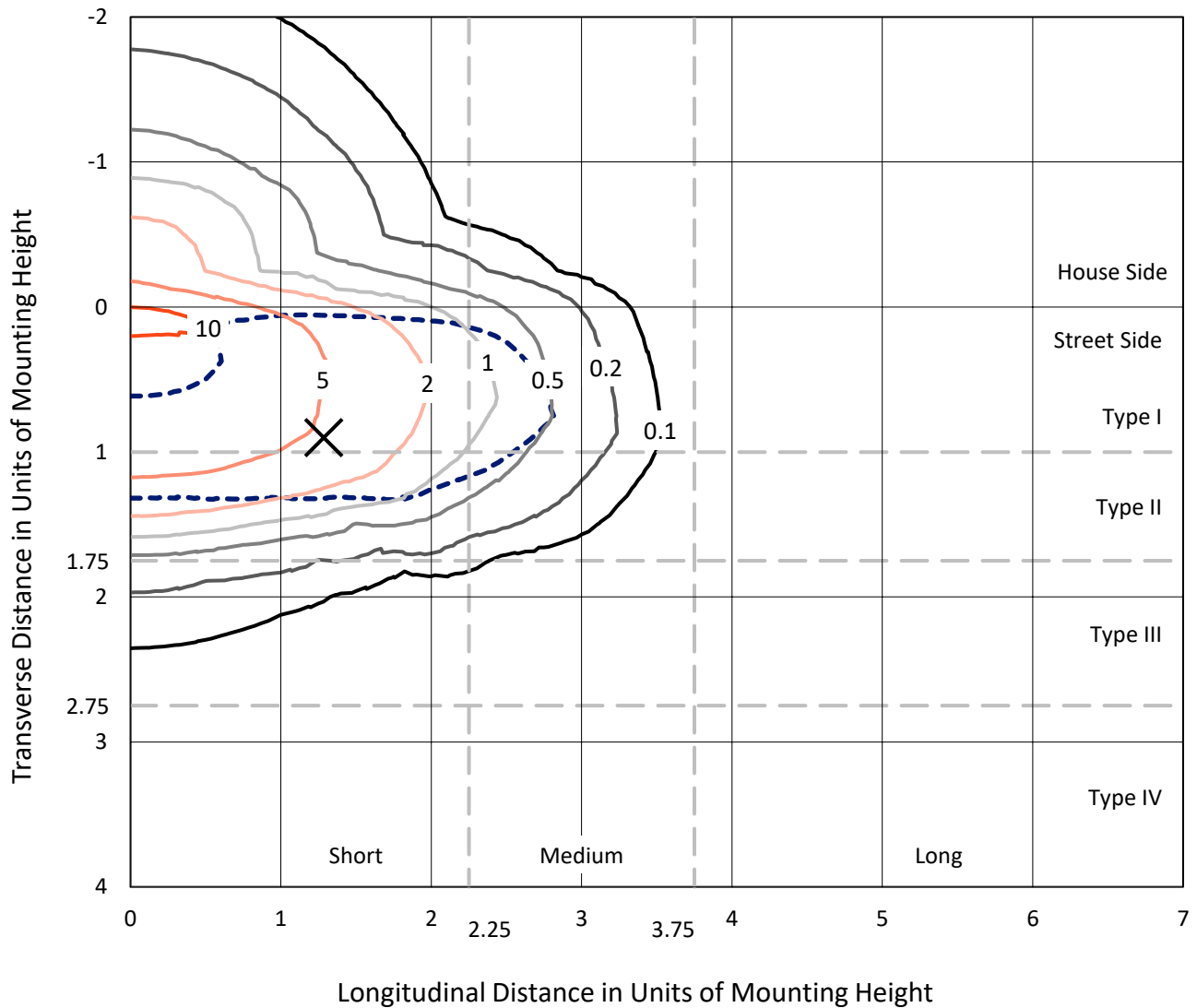
Lumens per Lamp: N/A  
Luminaire Lumens: 24858 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

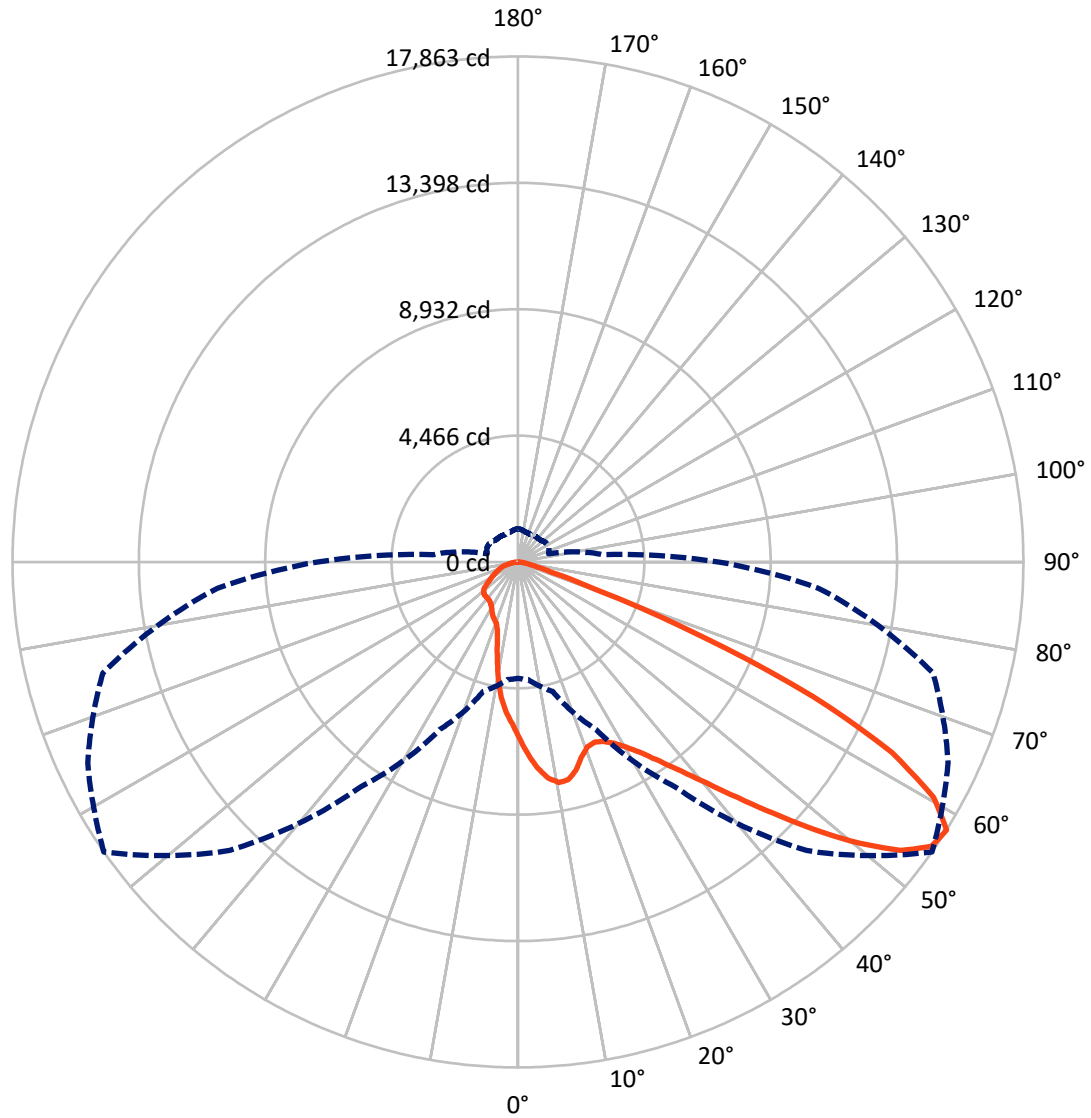
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	4497.9	0.0	4497.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	20360.1	0.0	20360.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	24858.0	0.0	24858.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	578.0	2.3
10°-20°	1458.8	5.9
20°-30°	2327.9	9.4
30°-40°	3685.6	14.8
40°-50°	5641.2	22.7
50°-60°	6042.3	24.3
60°-70°	3801.2	15.3
70°-80°	1124.1	4.5
80°-90°	198.8	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°	24858.0	100.0
0°-180°	24858.0	100.0

**Coefficient of Utilization**



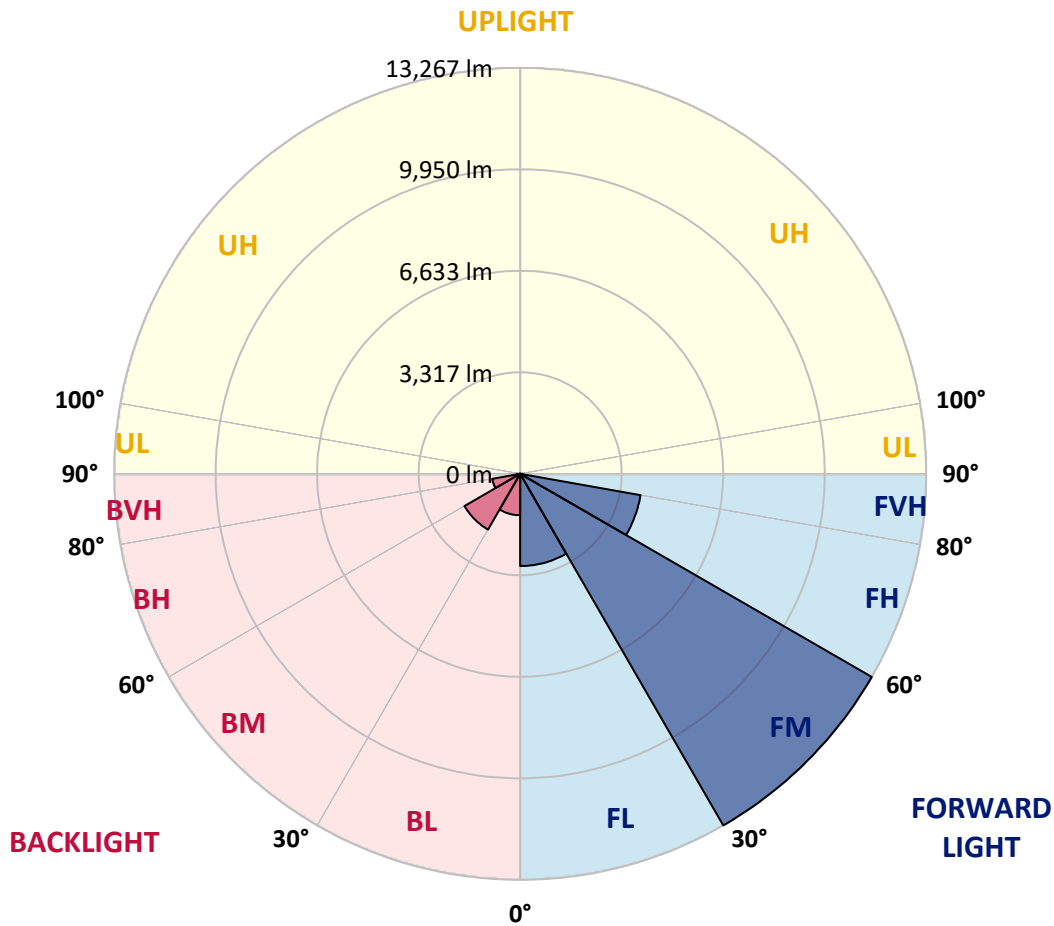
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3012.8	12.1			
FM (30°-60°)	13266.9	53.4			
FH (60°-80°)	3996.4	16.1			G2/5000
FVH (80°-90°)	84.0	0.3			G1/100
BL (0°-30°)	1351.9	5.4	B3/2500		
BM (30°-60°)	2102.3	8.5	B2/2500		
BH (60°-80°)	928.9	3.7	B2/1000		G2/1000
BVH (80°-90°)	114.8	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°	6228.6	6228.6	6228.6	6228.6	6228.6	6228.6	6228.6	6228.6	6228.6	6228.6
2.5°	7146.1	7141.0	7169.3	7072.9	7007.3	6918.7	6801.7	6652.7	6492.0	6322.4
5°	7789.9	7745.0	7774.5	7702.6	7630.6	7496.9	7323.5	7080.6	6783.7	6445.8
7.5°	7688.4	7657.6	7733.4	7797.6	7851.6	7834.9	7707.7	7453.3	7070.3	6579.4
10°	6869.8	6835.1	6941.8	7164.1	7490.5	7774.5	7928.7	7770.7	7363.3	6725.9
12.5°	6147.7	6130.9	6201.6	6381.5	6743.9	7288.8	7900.5	8048.2	7667.9	6899.4
15°	5839.2	5818.7	5863.7	5954.9	6186.2	6693.8	7643.4	8238.4	7967.3	7099.9
17.5°	5771.1	5748.0	5767.3	5814.8	5963.9	6350.7	7255.4	8332.2	8279.5	7323.5
20°	5897.1	5877.8	5880.4	5877.8	5981.9	6289.0	6985.5	8296.2	8552.0	7529.1
22.5°	6201.6	6169.5	6170.8	6102.7	6159.2	6396.9	6914.8	8199.9	8794.8	7709.0
25°	6697.6	6639.8	6651.4	6477.9	6462.5	6638.5	7025.3	8125.3	9036.4	7852.9
27.5°	7376.2	7310.6	7275.9	7017.6	6894.3	6981.6	7250.2	8151.0	9265.2	7977.6
30°	8224.3	8144.6	8073.9	7707.7	7484.1	7452.0	7599.7	8320.7	9535.0	8108.6
32.5°	9263.9	9171.4	9042.9	8557.1	8242.3	8073.9	8052.1	8622.6	9851.1	8275.7
35°	10501.4	10380.6	10198.1	9569.7	9171.4	8827.0	8648.3	9058.3	10284.2	8527.6
37.5°	11776.1	11639.9	11472.9	10725.0	10235.4	9727.8	9375.7	9649.4	10861.2	8869.4
40°	12952.0	12799.0	12643.5	11977.9	11452.3	10840.6	10266.2	10397.3	11566.7	9278.0
42.5°	13645.9	13532.8	13473.7	13113.9	12707.8	12087.1	11373.9	11284.0	12359.6	9748.3
45°	13615.0	13568.8	13751.3	13900.3	13803.9	13459.6	12671.8	12264.5	13155.0	10155.7
47.5°	12887.7	12918.5	13325.9	14163.8	14532.6	14712.5	14149.6	13227.0	13846.3	10460.3
50°	10908.7	10934.4	11877.7	13684.4	14720.2	15734.1	15615.9	14166.3	14382.2	10646.6
52.5°	9342.3	9359.0	9763.8	12263.2	14100.8	16248.1	16936.9	15051.7	14774.2	10698.0
55°	7036.9	7094.7	7548.3	9621.1	12489.3	15840.7	17741.3	15964.1	15022.2	10703.1
57.5°	4110.9	4173.8	4734.1	6530.6	9707.2	14420.8	17863.4	16773.7	15190.5	10662.0
60°	2013.7	2040.6	2284.8	3432.4	5985.7	11684.9	16881.6	17165.6	15284.3	10640.2
62.5°	1357.0	1353.2	1363.4	1693.7	2949.2	7507.2	14835.8	16479.4	15234.2	10556.6
65°	1166.8	1152.7	1114.1	1188.7	1527.9	3433.6	11462.6	14431.0	14852.5	10347.2
67.5°	1008.8	1010.0	1011.3	988.2	1091.0	1584.5	7004.8	11367.5	13482.7	9355.1
70°	835.3	846.8	852.0	852.0	889.3	1039.6	2990.3	7791.2	10635.0	7335.0
72.5°	760.7	736.3	738.9	726.0	726.0	791.6	1204.1	4416.7	6700.2	4126.3
75°	620.7	636.1	638.7	629.7	600.1	604.0	714.5	1853.0	2866.9	1711.7
77.5°	535.9	535.9	541.0	534.6	511.4	452.3	476.8	718.3	975.3	701.6
80°	430.5	429.2	451.1	463.9	427.9	334.1	304.6	397.1	433.1	308.4
82.5°	209.5	222.3	309.7	353.4	325.1	241.6	186.3	246.7	231.3	136.2
85°	122.1	115.7	138.8	196.6	186.3	133.6	90.0	128.5	120.8	69.4
87.5°	38.6	36.0	28.3	66.8	54.0	37.3	24.4	37.3	33.4	15.4
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°
6228.6	0°	6228.6	6228.6	6228.6	6228.6	6228.6	6228.6	6228.6	6228.6	6228.6	6228.6
6249.2	2.5°	6157.9	6006.3	5855.9	5718.4	5634.9	5580.9	5527.0	5466.6	5443.4	5408.7
6265.9	5°	6096.2	5803.3	5542.4	5317.5	5113.2	4952.6	4790.6	4659.6	4600.5	4640.3
6318.6	7.5°	6060.3	5636.2	5234.0	4821.5	4424.4	4107.0	3830.7	3636.7	3549.3	3571.1
6370.0	10°	6028.1	5447.3	4834.3	4182.8	3612.3	3219.0	2936.3	2788.5	2733.3	2744.9
6439.4	12.5°	5998.6	5235.3	4352.4	3495.3	2888.8	2629.2	2548.2	2549.5	2559.8	2567.5
6549.9	15°	5993.4	4979.5	3814.0	2893.9	2498.1	2481.4	2568.8	2624.1	2653.6	2662.6
6642.4	17.5°	5985.7	4673.7	3265.3	2484.0	2403.0	2516.1	2597.1	2633.1	2656.2	2657.5
6732.3	20°	5954.9	4285.6	2759.0	2288.7	2382.5	2480.1	2530.3	2558.5	2577.8	2584.2
6800.5	22.5°	5859.8	3853.8	2364.5	2201.3	2300.2	2378.6	2437.7	2469.9	2481.4	2489.1
6813.3	25°	5688.9	3370.7	2092.1	2117.8	2185.9	2284.8	2332.4	2338.8	2334.9	2346.5
6781.2	27.5°	5465.3	2852.8	1922.4	2004.7	2092.1	2176.9	2202.6	2198.7	2191.0	2203.9
6725.9	30°	5195.4	2387.6	1814.5	1877.4	1997.0	2074.1	2097.2	2088.2	2072.8	2086.9
6697.6	32.5°	4910.2	2007.2	1725.8	1788.8	1918.6	1994.4	2017.5	2008.5	1997.0	2008.5
6729.8	35°	4644.1	1741.2	1643.6	1729.7	1856.9	1931.4	1961.0	1962.3	1962.3	1976.4
6814.6	37.5°	4400.0	1585.7	1575.5	1692.4	1814.5	1881.3	1923.7	1926.3	1871.0	1874.9
6958.5	40°	4173.8	1520.2	1544.6	1668.0	1773.4	1837.6	1840.2	1696.3	1594.7	1592.2
7123.0	42.5°	3988.8	1507.4	1553.6	1665.4	1743.8	1746.4	1565.2	1453.4	1425.1	1426.4
7274.6	45°	3815.3	1503.5	1574.2	1665.4	1700.1	1508.6	1386.6	1357.0	1359.6	1369.9
7342.7	47.5°	3621.3	1488.1	1578.0	1642.3	1574.2	1341.6	1305.6	1292.8	1287.6	1290.2
7327.3	50°	3409.2	1432.8	1529.2	1596.0	1358.3	1269.6	1224.6	1220.8	1227.2	1231.1
7241.2	52.5°	3185.6	1342.9	1445.7	1512.5	1259.3	1206.7	1156.5	1165.5	1193.8	1202.8
7151.3	55°	3039.1	1237.5	1335.2	1345.4	1190.0	1147.5	1105.1	1125.7	1178.4	1195.1
7097.3	57.5°	3000.6	1125.7	1209.2	1197.7	1101.3	1096.1	1070.4	1088.4	1155.3	1179.7
7094.7	60°	2989.0	1025.5	1085.9	1076.9	1015.2	1039.6	1033.2	1042.2	1065.3	1073.0
7069.0	62.5°	2899.1	945.8	975.3	962.5	938.1	980.5	995.9	976.6	994.6	1003.6
6893.0	65°	2670.3	881.5	867.4	858.4	868.7	907.2	938.1	899.5	916.2	941.9
6214.5	67.5°	2292.5	794.2	755.6	765.9	798.0	818.6	858.4	814.7	828.9	872.5
5005.2	70°	1854.3	683.6	648.9	678.5	709.3	751.8	758.2	728.6	762.0	810.9
3054.5	72.5°	1312.0	571.8	547.4	607.8	618.1	673.4	659.2	645.1	691.4	708.1
1509.9	75°	909.8	461.3	447.2	493.5	530.7	578.3	568.0	584.7	682.4	690.1
754.3	77.5°	575.7	358.5	349.5	379.1	430.5	483.2	499.9	690.1	1165.5	1211.8
391.9	80°	334.1	267.3	257.0	280.1	325.1	373.9	481.9	846.8	768.5	759.5
176.1	82.5°	186.3	183.8	170.9	177.3	217.2	269.9	681.1	596.3	484.5	499.9
70.7	85°	87.4	107.9	92.5	88.7	122.1	316.1	454.9	340.5	226.2	221.0
15.4	87.5°	23.1	20.6	20.6	23.1	51.4	272.4	181.2	145.2	86.1	83.5
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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