

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: P950986

Luminaire Tested: **GALN-SB5B-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950986
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-SB5B-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30606 lumens
Efficiency: N/A
Efficacy: 167.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

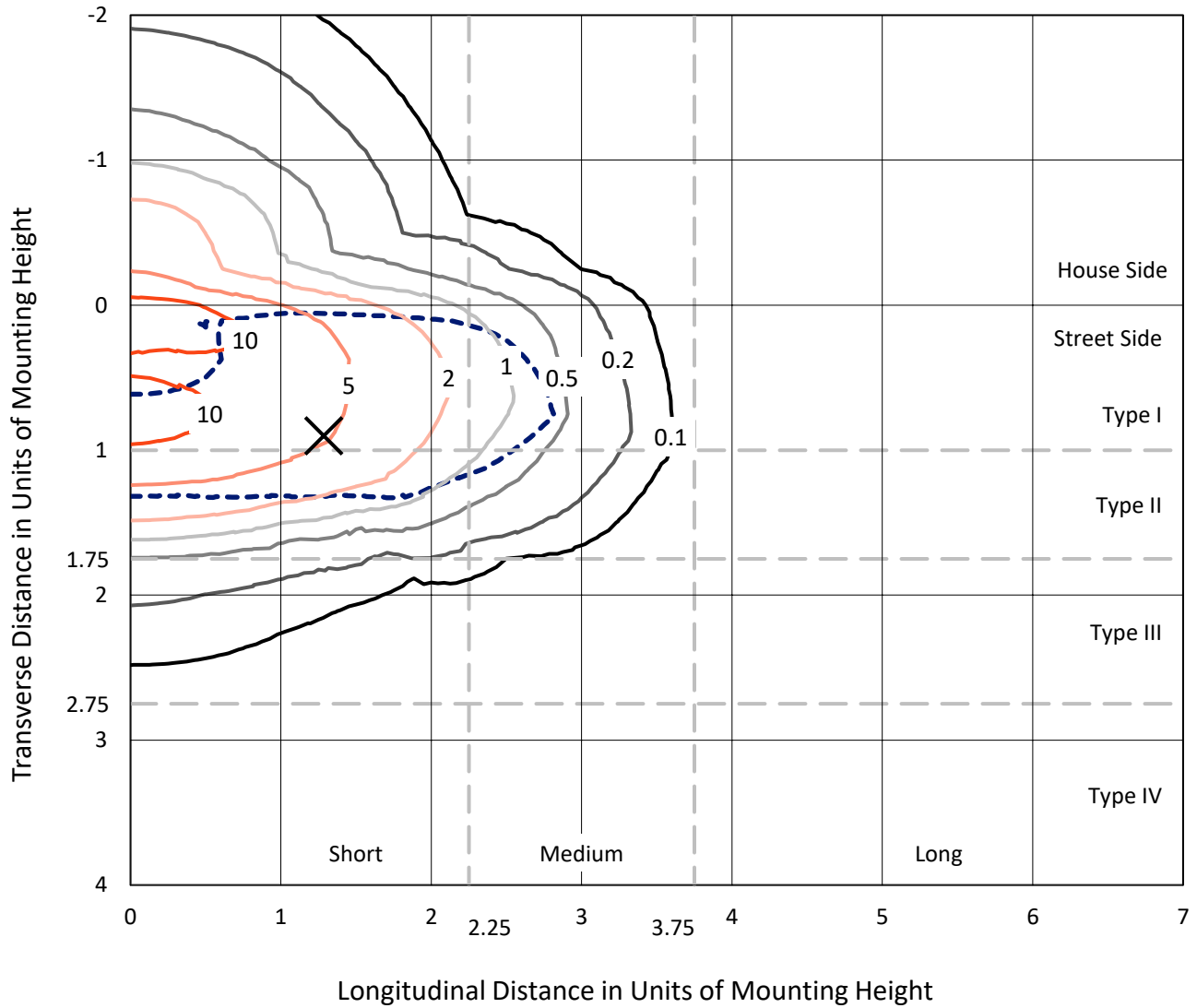
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

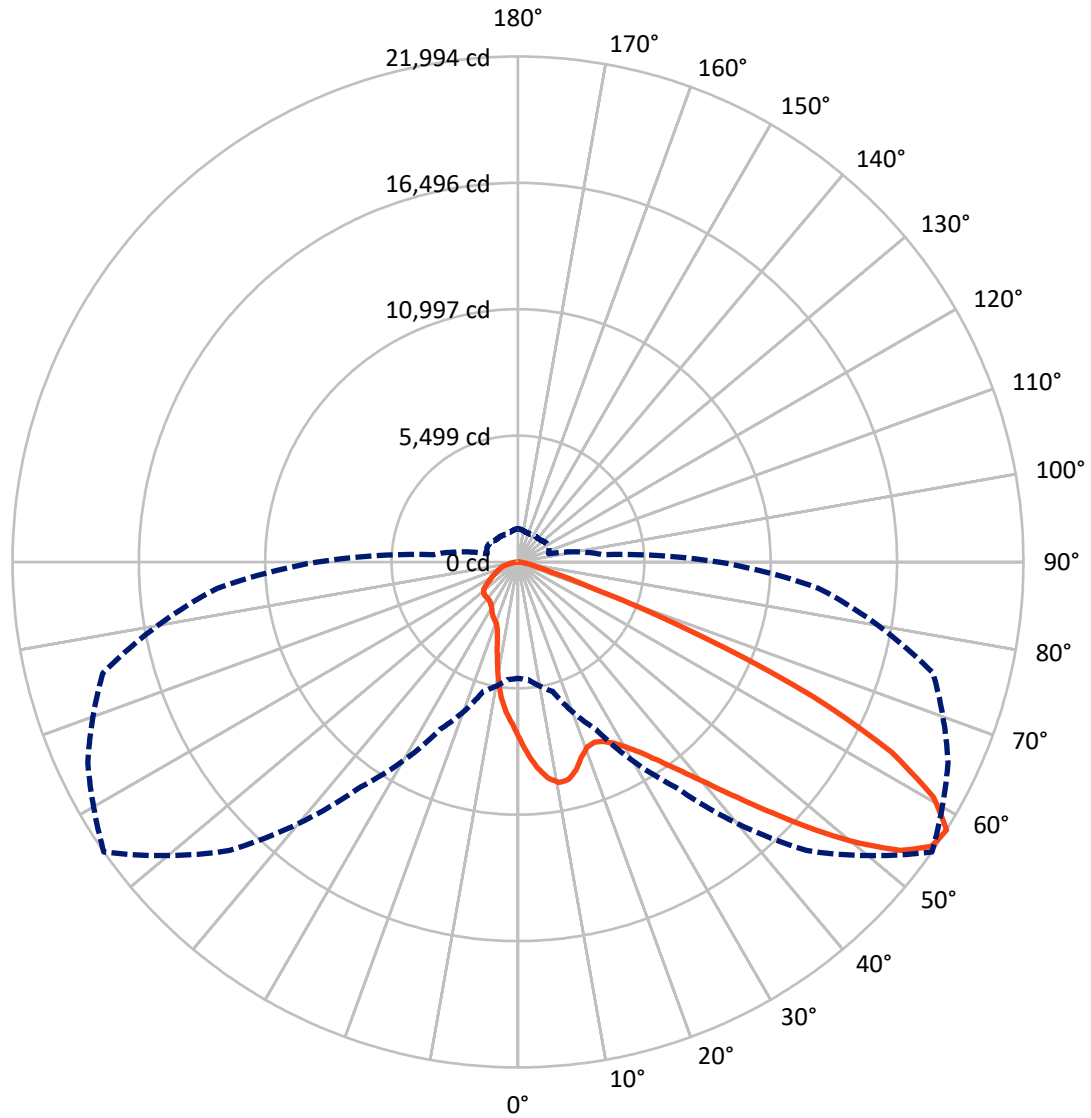
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	5538.0	0.0	5538.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	25068.0	0.0	25068.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	30606.0	0.0	30606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.6	2.3
10°-20°	1796.2	5.9
20°-30°	2866.2	9.4
30°-40°	4537.9	14.8
40°-50°	6945.7	22.7
50°-60°	7439.5	24.3
60°-70°	4680.2	15.3
70°-80°	1384.0	4.5
80°-90°	244.7	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°	30606.0	100.0
0°-180°	30606.0	100.0

Coefficient of Utilization



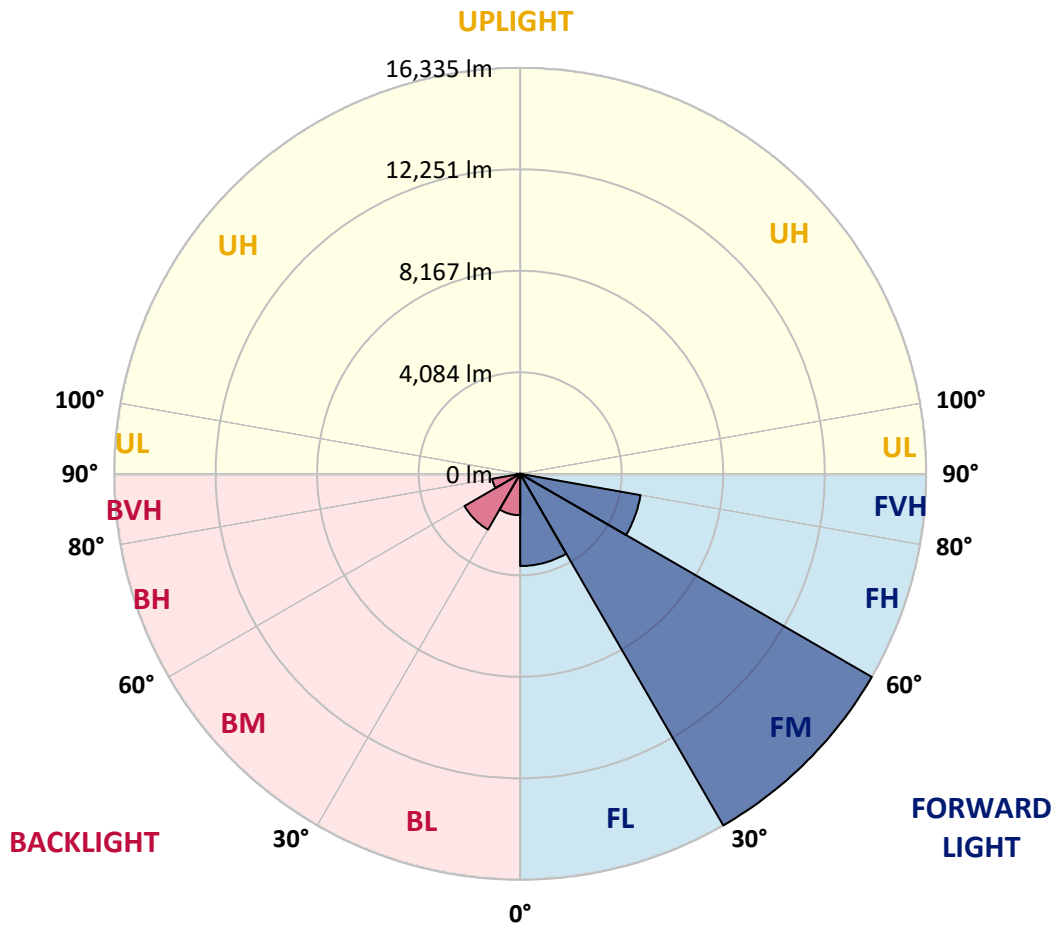
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3709.4	12.1			
FM (30°-60°)	16334.6	53.4			
FH (60°-80°)	4920.5	16.1			G2/5000
FVH (80°-90°)	103.4	0.3			G2/225
BL (0°-30°)	1664.5	5.4	B3/2500		
BM (30°-60°)	2588.4	8.5	B3/5000		
BH (60°-80°)	1143.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	141.3	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°	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9
2.5°	8798.6	8792.2	8827.0	8708.4	8627.7	8518.5	8374.5	8191.0	7993.2	7784.4
5°	9591.2	9535.9	9572.2	9483.6	9395.0	9230.5	9016.9	8717.9	8352.4	7936.3
7.5°	9466.2	9428.3	9521.6	9600.7	9667.2	9646.6	9490.0	9176.7	8705.2	8100.8
10°	8458.4	8415.7	8547.0	8820.7	9222.6	9572.2	9762.1	9567.5	9065.9	8281.2
12.5°	7569.2	7548.6	7635.6	7857.2	8303.3	8974.2	9727.3	9909.2	9440.9	8494.8
15°	7189.5	7164.2	7219.5	7331.9	7616.7	8241.6	9410.9	10143.4	9809.6	8741.6
17.5°	7105.6	7077.1	7100.9	7159.4	7342.9	7819.2	8933.0	10258.9	10194.0	9016.9
20°	7260.7	7236.9	7240.1	7236.9	7365.1	7743.2	8600.8	10214.6	10529.5	9270.0
22.5°	7635.6	7596.1	7597.7	7513.8	7583.4	7876.1	8513.8	10095.9	10828.5	9491.6
25°	8246.4	8175.2	8189.4	7975.8	7956.8	8173.6	8649.8	10004.2	11126.0	9668.8
27.5°	9081.8	9001.1	8958.4	8640.3	8488.4	8596.0	8926.7	10035.8	11407.6	9822.2
30°	10126.0	10027.9	9940.9	9490.0	9214.7	9175.1	9357.1	10244.7	11739.8	9983.6
32.5°	11406.0	11292.1	11133.9	10535.8	10148.2	9940.9	9914.0	10616.5	12129.1	10189.3
35°	12929.6	12780.9	12556.3	11782.6	11292.1	10868.1	10648.1	11152.9	12662.3	10499.4
37.5°	14499.2	14331.5	14125.8	13204.9	12602.1	11977.2	11543.7	11880.7	13372.7	10920.3
40°	15946.9	15758.6	15567.2	14747.6	14100.5	13347.3	12640.1	12801.5	14241.3	11423.4
42.5°	16801.3	16662.0	16589.3	16146.2	15646.3	14882.1	14004.0	13893.2	15217.5	12002.5
45°	16763.3	16706.3	16931.0	17114.5	16995.9	16571.8	15602.0	15100.4	16196.9	12504.0
47.5°	15867.8	15905.7	16407.3	17438.9	17893.0	18114.5	17421.5	16285.5	17048.1	12879.0
50°	13431.2	13462.8	14624.2	16848.7	18124.0	19372.3	19226.8	17442.1	17707.9	13108.4
52.5°	11502.5	11523.1	12021.5	15098.8	17361.4	20005.2	20853.3	18532.2	18190.4	13171.7
55°	8664.1	8735.3	9293.8	11845.8	15377.3	19503.6	21843.7	19655.5	18495.8	13178.1
57.5°	5061.4	5138.9	5828.8	8040.7	11951.9	17755.3	21994.0	20652.3	18703.1	13127.4
60°	2479.3	2512.5	2813.1	4226.0	7369.8	14386.8	20785.2	21134.9	18818.6	13100.5
62.5°	1670.8	1666.0	1678.7	2085.3	3631.1	9243.1	18266.4	20290.0	18756.9	12997.7
65°	1436.6	1419.2	1371.8	1463.5	1881.2	4227.6	14113.1	17768.0	18286.9	12739.8
67.5°	1242.0	1243.6	1245.2	1216.7	1343.3	1950.8	8624.5	13996.0	16600.3	11518.3
70°	1028.4	1042.7	1049.0	1049.0	1094.9	1280.0	3681.8	9592.8	13094.2	9031.1
72.5°	936.7	906.6	909.8	893.9	893.9	974.6	1482.5	5438.0	8249.5	5080.4
75°	764.2	783.2	786.3	775.3	738.9	743.6	879.7	2281.5	3529.9	2107.5
77.5°	659.8	659.8	666.1	658.2	629.7	556.9	587.0	884.4	1200.9	863.9
80°	530.0	528.5	555.3	571.2	526.9	411.4	375.0	488.9	533.2	379.7
82.5°	257.9	273.7	381.3	435.1	400.3	297.5	229.4	303.8	284.8	167.7
85°	150.3	142.4	170.9	242.1	229.4	164.5	110.8	158.2	148.7	85.4
87.5°	47.5	44.3	34.8	82.3	66.5	45.9	30.1	45.9	41.1	19.0
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°
7668.9	0°	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9	7668.9
7694.2	2.5°	7581.8	7395.2	7210.0	7040.7	6937.9	6871.4	6805.0	6730.6	6702.2	6659.4
7714.8	5°	7505.9	7145.2	6824.0	6547.1	6295.5	6097.8	5898.4	5737.0	5664.2	5713.3
7779.6	7.5°	7461.6	6939.5	6444.3	5936.4	5447.5	5056.7	4716.5	4477.6	4370.0	4396.9
7842.9	10°	7422.0	6706.9	5952.2	5150.0	4447.5	3963.4	3615.3	3433.4	3365.3	3379.6
7928.3	12.5°	7385.7	6445.8	5358.9	4303.6	3556.8	3237.2	3137.5	3139.1	3151.7	3161.2
8064.4	15°	7379.3	6131.0	4695.9	3563.1	3075.8	3055.2	3162.8	3230.8	3267.2	3278.3
8178.3	17.5°	7369.8	5754.4	4020.3	3058.4	2958.7	3097.9	3197.6	3241.9	3270.4	3272.0
8289.1	20°	7331.9	5276.6	3397.0	2817.9	2933.4	3053.6	3115.3	3150.1	3173.9	3181.8
8372.9	22.5°	7214.8	4745.0	2911.2	2710.3	2832.1	2928.6	3001.4	3041.0	3055.2	3064.7
8388.8	25°	7004.4	4150.1	2575.8	2607.4	2691.3	2813.1	2871.7	2879.6	2874.8	2889.1
8349.2	27.5°	6729.0	3512.5	2367.0	2468.2	2575.8	2680.2	2711.9	2707.1	2697.6	2713.5
8281.2	30°	6396.8	2939.7	2234.1	2311.6	2458.7	2553.7	2582.1	2571.1	2552.1	2569.5
8246.4	32.5°	6045.5	2471.4	2124.9	2202.4	2362.2	2455.6	2484.0	2473.0	2458.7	2473.0
8285.9	35°	5718.0	2143.9	2023.6	2129.6	2286.3	2378.0	2414.4	2416.0	2416.0	2433.4
8390.3	37.5°	5417.4	1952.4	1939.8	2083.7	2234.1	2316.3	2368.5	2371.7	2303.7	2308.4
8567.6	40°	5138.9	1871.7	1901.8	2053.7	2183.4	2262.5	2265.7	2088.5	1963.5	1960.3
8770.1	42.5°	4911.1	1855.9	1912.9	2050.5	2147.0	2150.2	1927.1	1789.5	1754.6	1756.2
8956.8	45°	4697.5	1851.2	1938.2	2050.5	2093.2	1857.5	1707.2	1670.8	1674.0	1686.6
9040.6	47.5°	4458.6	1832.2	1942.9	2022.0	1938.2	1651.8	1607.5	1591.7	1585.4	1588.5
9021.6	50°	4197.5	1764.1	1882.8	1965.1	1672.4	1563.2	1507.8	1503.1	1511.0	1515.7
8915.6	52.5°	3922.2	1653.4	1780.0	1862.2	1550.5	1485.7	1424.0	1435.0	1469.9	1480.9
8804.9	55°	3741.9	1523.6	1643.9	1656.6	1465.1	1412.9	1360.7	1386.0	1450.9	1471.4
8738.4	57.5°	3694.4	1386.0	1488.8	1474.6	1355.9	1349.6	1318.0	1340.1	1422.4	1452.4
8735.3	60°	3680.2	1262.6	1336.9	1325.9	1249.9	1280.0	1272.1	1283.2	1311.6	1321.1
8703.6	62.5°	3569.4	1164.5	1200.9	1185.1	1155.0	1207.2	1226.2	1202.5	1224.6	1235.7
8486.9	65°	3287.8	1085.4	1068.0	1056.9	1069.6	1117.0	1155.0	1107.5	1128.1	1159.7
7651.5	67.5°	2822.6	977.8	930.3	943.0	982.5	1007.9	1056.9	1003.1	1020.5	1074.3
6162.6	70°	2283.1	841.7	799.0	835.4	873.4	925.6	933.5	897.1	938.2	998.4
3760.9	72.5°	1615.4	704.1	674.0	748.4	761.0	829.1	811.7	794.3	851.2	871.8
1859.1	75°	1120.2	568.0	550.6	607.6	653.4	712.0	699.3	719.9	840.1	849.6
928.7	77.5°	708.8	441.4	430.4	466.7	530.0	594.9	615.5	849.6	1435.0	1492.0
482.6	80°	411.4	329.1	316.4	344.9	400.3	460.4	593.3	1042.7	946.1	935.1
216.8	82.5°	229.4	226.3	210.4	218.3	267.4	332.3	838.6	734.1	596.5	615.5
87.0	85°	107.6	132.9	113.9	109.2	150.3	389.2	560.1	419.3	278.5	272.1
19.0	87.5°	28.5	25.3	25.3	28.5	63.3	335.4	223.1	178.8	106.0	102.8
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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