

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: P951217

Luminaire Tested: **GALN-SB5B-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951217
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-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20963 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

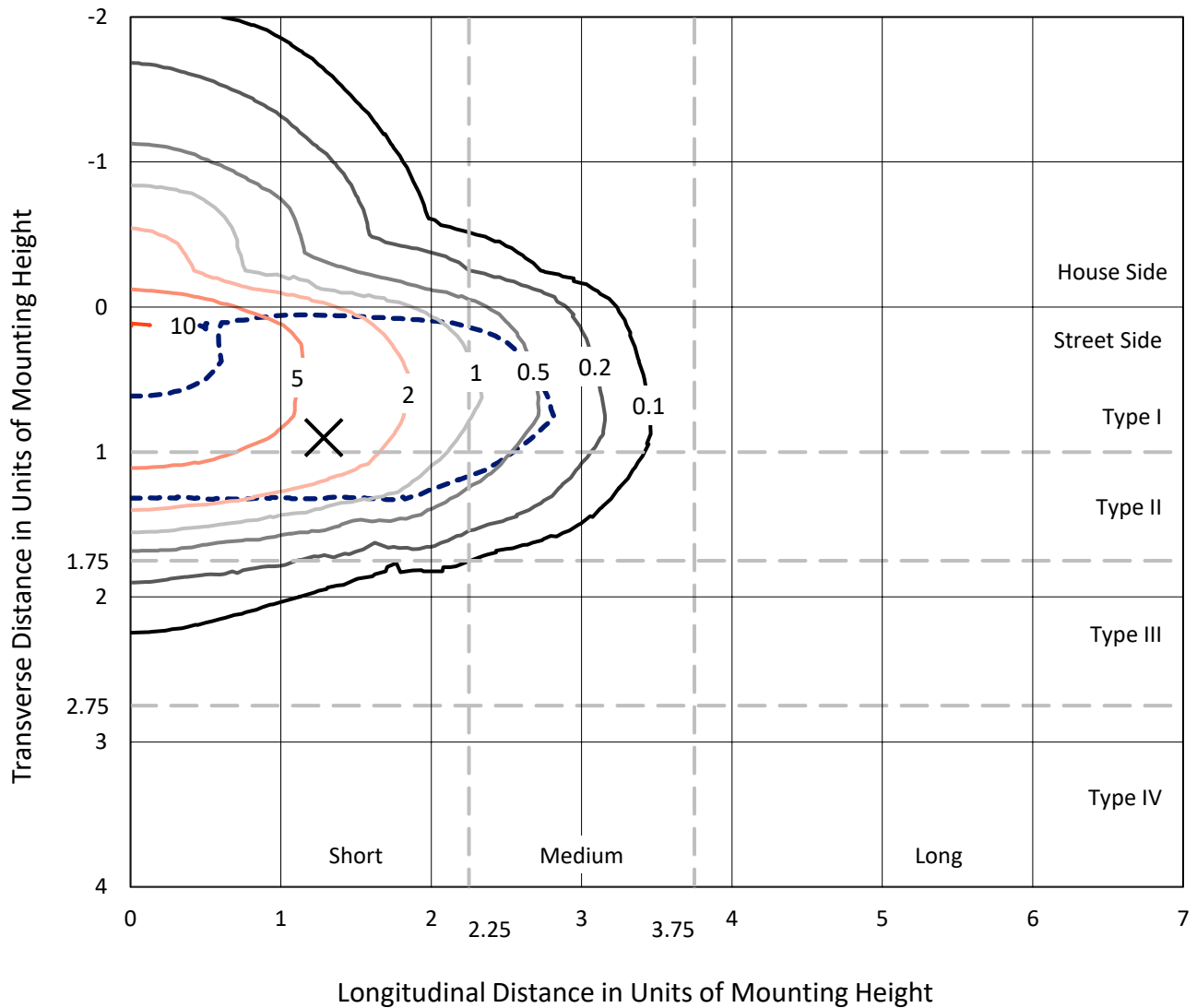
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951217
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Iso-Footcandle Lines of Horizontal Illumination

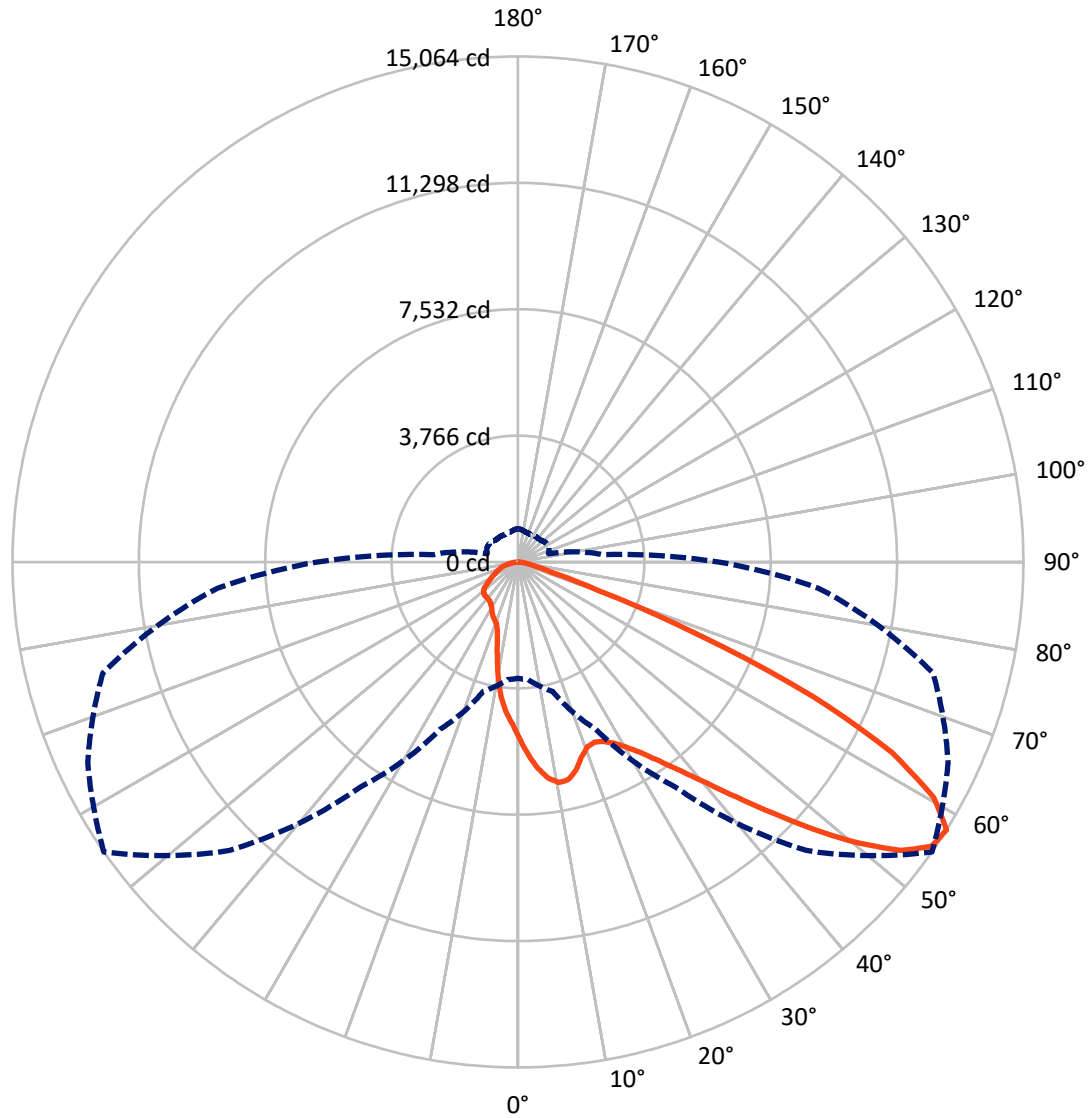
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

REPORT NUMBER: P951217
CATALOG NUMBER: GALN-SB5B-940-U-AFL

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	3793.2	0.0	3793.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17169.8	0.0	17169.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	20963.0	0.0	20963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.4	2.3
10°-20°	1230.3	5.9
20°-30°	1963.1	9.4
30°-40°	3108.1	14.8
40°-50°	4757.3	22.7
50°-60°	5095.5	24.3
60°-70°	3205.6	15.3
70°-80°	948.0	4.5
80°-90°	167.6	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°	20963.0	100.0
0°-180°	20963.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951217

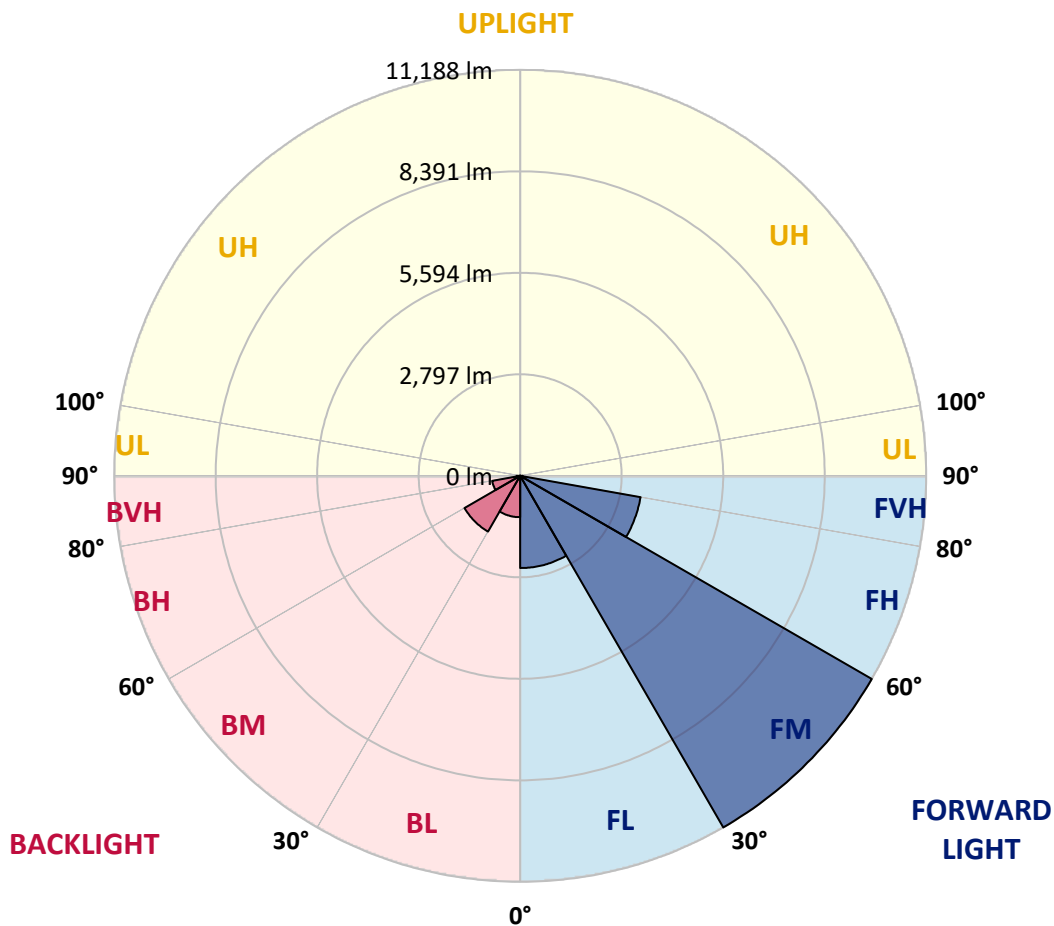
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2540.7	12.1			
FM (30°-60°)	11188.1	53.4			
FH (60°-80°)	3370.2	16.1			G2/5000
FVH (80°-90°)	70.8	0.3			G1/100
BL (0°-30°)	1140.1	5.4	B3/2500		
BM (30°-60°)	1772.9	8.5	B2/2500		
BH (60°-80°)	783.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	96.8	0.5			G1/100
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°	5252.6	5252.6	5252.6	5252.6	5252.6	5252.6	5252.6	5252.6	5252.6	5252.6
2.5°	6026.4	6022.1	6045.9	5964.6	5909.4	5834.6	5736.0	5610.3	5474.8	5331.8
5°	6569.3	6531.4	6556.3	6495.6	6435.0	6322.2	6176.0	5971.1	5720.8	5435.8
7.5°	6483.7	6457.7	6521.6	6575.8	6621.3	6607.3	6500.0	6285.4	5962.5	5548.5
10°	5793.4	5764.1	5854.1	6041.6	6316.8	6556.3	6686.4	6553.1	6209.5	5672.0
12.5°	5184.4	5170.3	5229.9	5381.6	5687.2	6146.7	6662.5	6787.2	6466.4	5818.3
15°	4924.3	4907.0	4944.9	5021.8	5216.9	5644.9	6445.8	6947.5	6718.9	5987.4
17.5°	4866.9	4847.3	4863.6	4903.7	5029.4	5355.6	6118.5	7026.6	6982.2	6176.0
20°	4973.1	4956.8	4959.0	4956.8	5044.6	5303.6	5890.9	6996.3	7212.0	6349.3
22.5°	5229.9	5202.8	5203.9	5146.4	5194.1	5394.6	5831.3	6915.0	7416.8	6501.1
25°	5648.2	5599.4	5609.2	5462.9	5449.9	5598.3	5924.5	6852.2	7620.5	6622.4
27.5°	6220.4	6165.1	6135.9	5918.0	5814.0	5887.7	6114.2	6873.8	7813.4	6727.5
30°	6935.6	6868.4	6808.8	6500.0	6311.4	6284.3	6408.9	7016.9	8041.0	6838.1
32.5°	7812.3	7734.3	7625.9	7216.3	6950.8	6808.8	6790.4	7271.6	8307.6	6979.0
35°	8855.9	8754.1	8600.2	8070.2	7734.3	7443.9	7293.2	7638.9	8672.8	7191.4
37.5°	9930.9	9816.1	9675.2	9044.5	8631.6	8203.5	7906.6	8137.4	9159.4	7479.6
40°	10922.5	10793.6	10662.4	10101.1	9657.8	9142.0	8657.6	8768.1	9754.3	7824.2
42.5°	11507.7	11412.3	11362.5	11059.1	10716.6	10193.2	9591.7	9515.9	10422.9	8220.9
45°	11481.7	11442.7	11596.6	11722.3	11641.0	11350.6	10686.3	10342.7	11093.7	8564.4
47.5°	10868.3	10894.3	11237.9	11944.4	12255.5	12407.2	11932.5	11154.4	11676.8	8821.2
50°	9199.4	9221.1	10016.6	11540.2	12413.7	13268.7	13169.0	11946.6	12128.7	8978.4
52.5°	7878.4	7892.5	8233.9	10341.7	11891.3	13702.2	14283.0	12693.3	12459.2	9021.7
55°	5934.3	5983.1	6365.6	8113.6	10532.4	13358.7	14961.4	13462.7	12668.3	9026.1
57.5°	3466.7	3519.8	3992.3	5507.3	8186.2	12161.2	15064.4	14145.4	12810.3	8991.4
60°	1698.1	1720.9	1926.8	2894.5	5047.8	9854.0	14236.4	14475.9	12889.4	8973.0
62.5°	1144.4	1141.1	1149.8	1428.3	2487.1	6330.9	12511.2	13897.2	12847.1	8902.5
65°	984.0	972.1	939.6	1002.4	1288.5	2895.6	9666.5	12169.8	12525.3	8725.9
67.5°	850.7	851.8	852.9	833.4	920.1	1336.2	5907.2	9586.3	11370.1	7889.3
70°	704.4	714.2	718.5	718.5	749.9	876.7	2521.7	6570.4	8968.6	6185.7
72.5°	641.5	621.0	623.1	612.3	612.3	667.6	1015.4	3724.6	5650.4	3479.7
75°	523.4	536.4	538.6	531.0	506.1	509.3	602.5	1562.7	2417.7	1443.5
77.5°	451.9	451.9	456.2	450.8	431.3	381.5	402.0	605.8	822.5	591.7
80°	363.0	362.0	380.4	391.2	360.9	281.8	256.8	334.9	365.2	260.1
82.5°	176.6	187.5	261.2	298.0	274.2	203.7	157.1	208.1	195.1	114.9
85°	103.0	97.5	117.0	165.8	157.1	112.7	75.9	108.4	101.9	58.5
87.5°	32.5	30.3	23.8	56.4	45.5	31.4	20.6	31.4	28.2	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951217
 CATALOG NUMBER: GALN-SB5B-940-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5252.6	0°	5252.6	5252.6	5252.6	5252.6	5252.6	5252.6	5252.6	5252.6	5252.6	5252.6
5270.0	2.5°	5193.0	5065.2	4938.4	4822.4	4752.0	4706.5	4661.0	4610.0	4590.5	4561.3
5284.1	5°	5141.0	4893.9	4674.0	4484.3	4312.0	4176.5	4040.0	3929.5	3879.6	3913.2
5328.5	7.5°	5110.7	4753.1	4413.9	4066.0	3731.1	3463.5	3230.5	3066.8	2993.2	3011.6
5371.9	10°	5083.6	4593.8	4076.8	3527.4	3046.3	2714.6	2476.2	2351.6	2305.0	2314.8
5430.4	12.5°	5058.7	4415.0	3670.5	2947.6	2436.1	2217.2	2149.0	2150.0	2158.7	2165.2
5523.6	15°	5054.3	4199.3	3216.4	2440.5	2106.7	2092.6	2166.3	2212.9	2237.8	2245.4
5601.6	17.5°	5047.8	3941.4	2753.7	2094.8	2026.5	2121.9	2190.1	2220.5	2240.0	2241.1
5677.5	20°	5021.8	3614.1	2326.7	1930.1	2009.2	2091.5	2133.8	2157.6	2173.9	2179.3
5734.9	22.5°	4941.6	3250.0	1994.0	1856.4	1939.8	2005.9	2055.8	2082.9	2092.6	2099.1
5745.7	25°	4797.5	2842.5	1764.2	1785.9	1843.4	1926.8	1966.9	1972.3	1969.1	1978.8
5718.6	27.5°	4608.9	2405.8	1621.2	1690.6	1764.2	1835.8	1857.4	1854.2	1847.7	1858.5
5672.0	30°	4381.4	2013.5	1530.2	1583.3	1684.1	1749.1	1768.6	1761.0	1748.0	1759.9
5648.2	32.5°	4140.8	1692.7	1455.4	1508.5	1617.9	1681.9	1701.4	1693.8	1684.1	1693.8
5675.3	35°	3916.5	1468.4	1386.0	1458.6	1565.9	1628.8	1653.7	1654.8	1654.8	1666.7
5746.8	37.5°	3710.6	1337.3	1328.6	1427.2	1530.2	1586.5	1622.3	1624.5	1577.9	1581.1
5868.2	40°	3519.8	1282.0	1302.6	1406.6	1495.5	1549.7	1551.8	1430.5	1344.9	1342.7
6006.9	42.5°	3363.8	1271.2	1310.2	1404.5	1470.6	1472.7	1319.9	1225.7	1201.8	1202.9
6134.8	45°	3217.5	1267.9	1327.5	1404.5	1433.7	1272.3	1169.3	1144.4	1146.5	1155.2
6192.2	47.5°	3053.8	1254.9	1330.8	1385.0	1327.5	1131.4	1101.0	1090.2	1085.9	1088.0
6179.2	50°	2875.0	1208.3	1289.6	1345.9	1145.5	1070.7	1032.8	1029.5	1034.9	1038.2
6106.6	52.5°	2686.5	1132.5	1219.2	1275.5	1062.0	1017.6	975.3	982.9	1006.7	1014.3
6030.7	55°	2562.9	1043.6	1126.0	1134.6	1003.5	967.7	932.0	949.3	993.7	1007.8
5985.2	57.5°	2530.4	949.3	1019.8	1010.0	928.7	924.4	902.7	917.9	974.2	994.8
5983.1	60°	2520.7	864.8	915.7	908.1	856.1	876.7	871.3	878.9	898.4	904.9
5961.4	62.5°	2444.8	797.6	822.5	811.7	791.1	826.9	839.9	823.6	838.8	846.4
5812.9	65°	2251.9	743.4	731.5	723.9	732.6	765.1	791.1	758.6	772.7	794.3
5240.7	67.5°	1933.3	669.7	637.2	645.9	673.0	690.3	723.9	687.1	699.0	735.8
4221.0	70°	1563.8	576.5	547.3	572.2	598.2	634.0	639.4	614.5	642.6	683.8
2575.9	72.5°	1106.4	482.2	461.7	512.6	521.3	567.9	555.9	544.0	583.0	597.1
1273.3	75°	767.3	389.0	377.1	416.1	447.6	487.7	479.0	493.1	575.4	581.9
636.1	77.5°	485.5	302.3	294.8	319.7	363.0	407.5	421.6	581.9	982.9	1021.9
330.5	80°	281.8	225.4	216.7	236.2	274.2	315.4	406.4	714.2	648.0	640.5
148.5	82.5°	157.1	155.0	144.1	149.5	183.1	227.6	574.4	502.8	408.6	421.6
59.6	85°	73.7	91.0	78.0	74.8	103.0	266.6	383.6	287.2	190.7	186.4
13.0	87.5°	19.5	17.3	17.3	19.5	43.3	229.7	152.8	122.5	72.6	70.4
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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