

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: P950776

Luminaire Tested: **GALN-SB5A-850-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950776  
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-SB5A-850-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

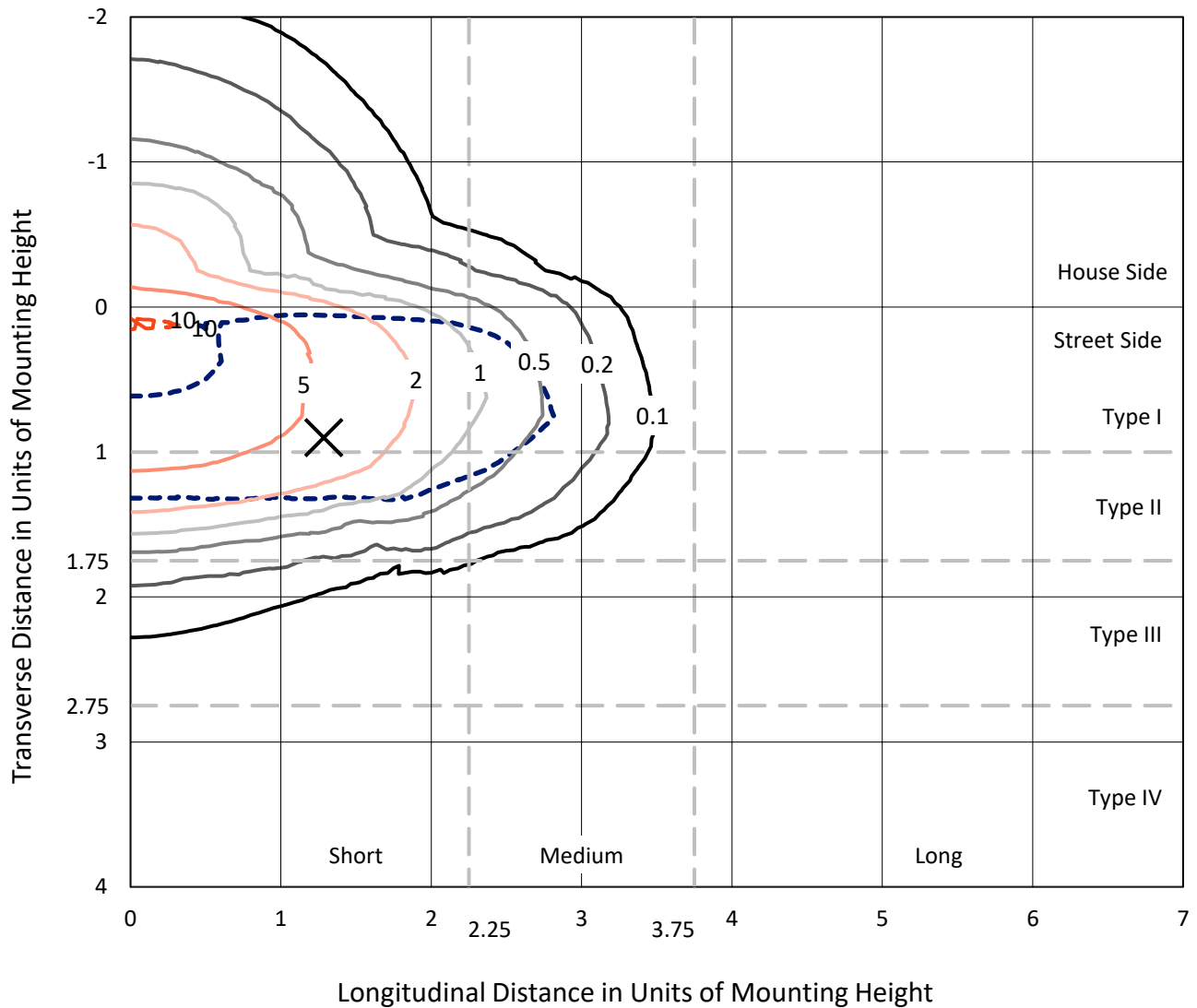
Lumens per Lamp: N/A  
Luminaire Lumens: 22043 lumens  
Efficiency: N/A  
Efficacy: 155.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P950776  
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### Iso-Footcandle Lines of Horizontal Illumination

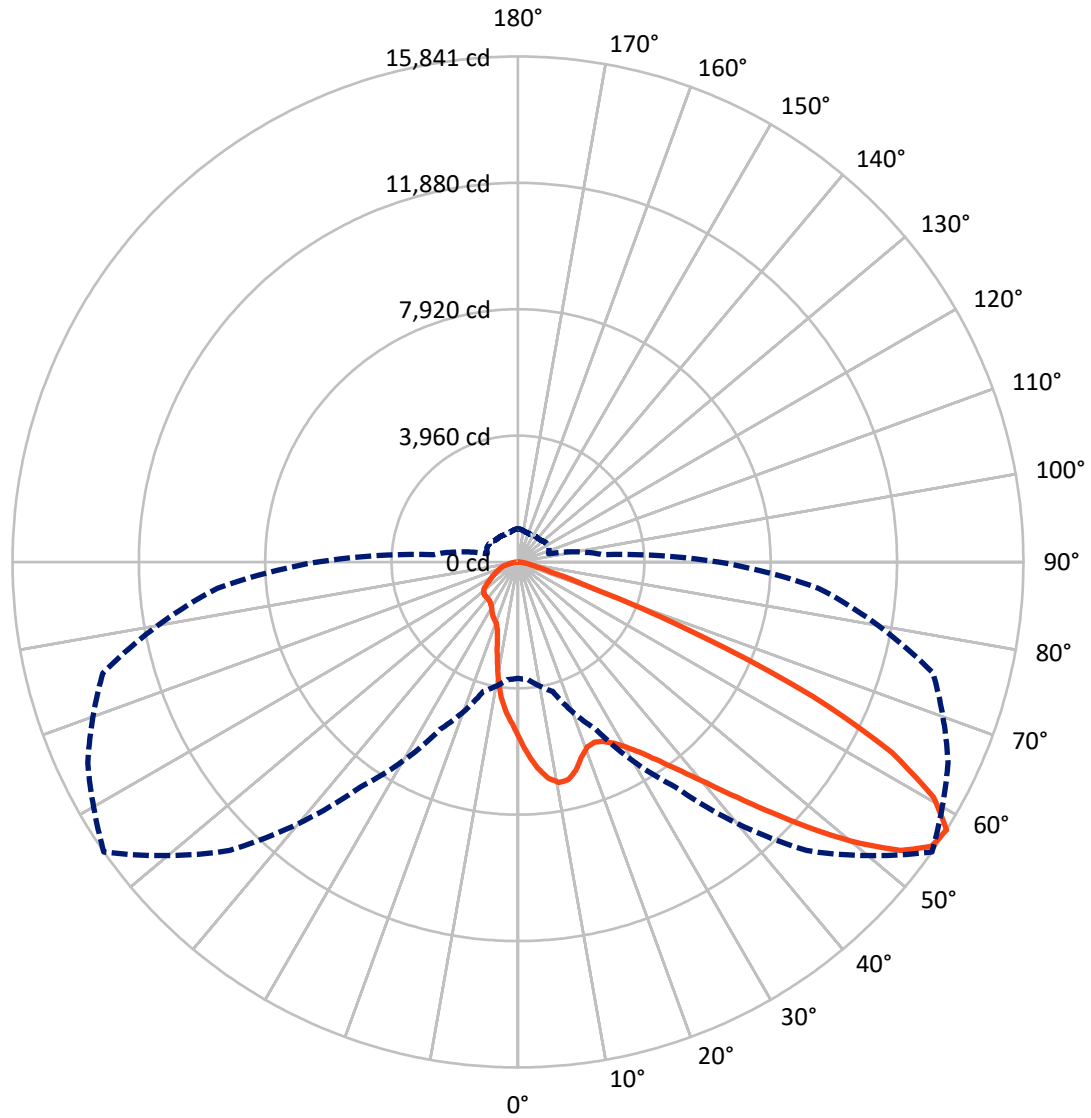
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P950776  
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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	3988.6	0.0	3988.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	18054.4	0.0	18054.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	22043.0	0.0	22043.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	512.5	2.3
10°-20°	1293.6	5.9
20°-30°	2064.3	9.4
30°-40°	3268.3	14.8
40°-50°	5002.4	22.7
50°-60°	5358.1	24.3
60°-70°	3370.8	15.3
70°-80°	996.8	4.5
80°-90°	176.2	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°	22043.0	100.0
0°-180°	22043.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P950776

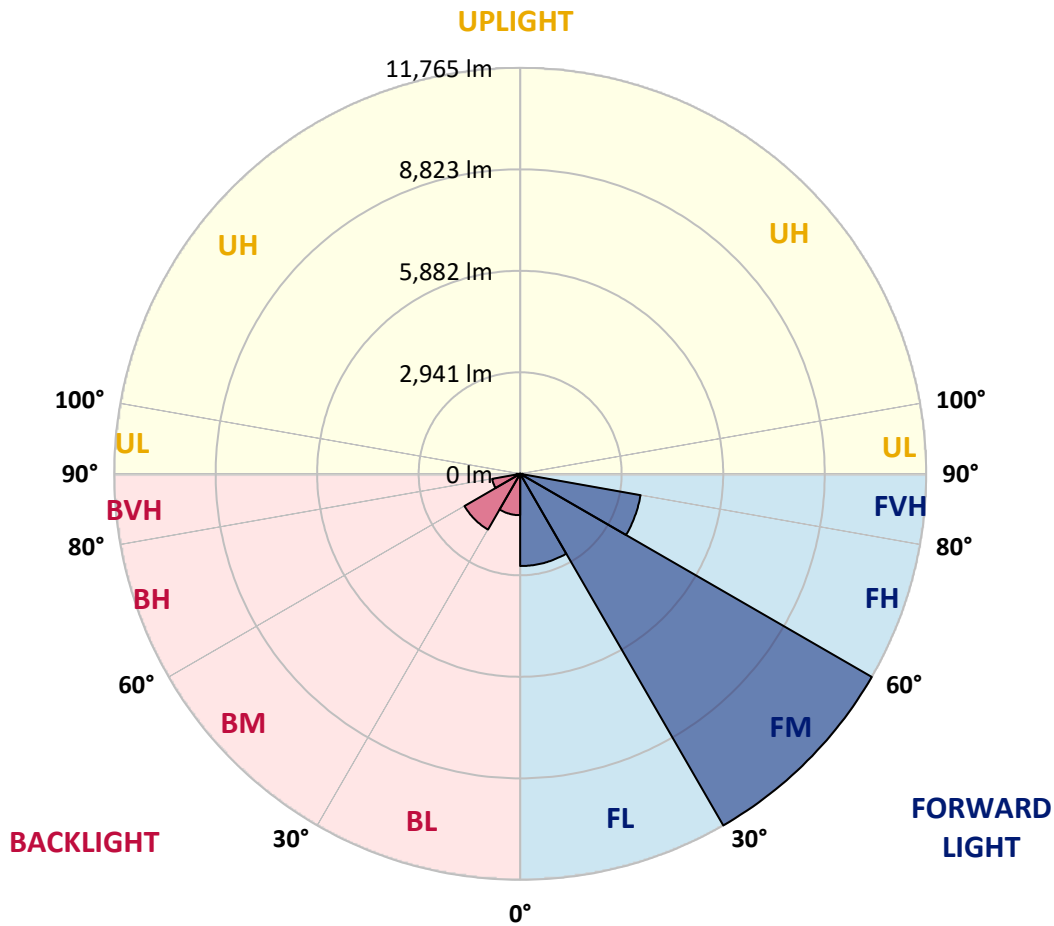
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2671.6	12.1			
FM (30°-60°)	11764.5	53.4			
FH (60°-80°)	3543.8	16.1			G2/5000
FVH (80°-90°)	74.5	0.3			G1/100
BL (0°-30°)	1198.8	5.4	B3/2500		
BM (30°-60°)	1864.2	8.5	B2/2500		
BH (60°-80°)	823.7	3.7	B2/1000		G2/1000
BVH (80°-90°)	101.8	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



REPORT NUMBER: P950776

CATALOG NUMBER: GALN-SB5A-850-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3
2.5°	6336.9	6332.3	6357.4	6271.9	6213.8	6135.2	6031.5	5899.3	5756.9	5606.4
5°	6907.8	6867.9	6894.1	6830.3	6766.5	6648.0	6494.1	6278.8	6015.5	5715.8
7.5°	6817.8	6790.4	6857.6	6914.6	6962.5	6947.7	6834.8	6609.2	6269.6	5834.3
10°	6091.9	6061.1	6155.7	6352.8	6642.3	6894.1	7030.8	6890.7	6529.5	5964.3
12.5°	5451.5	5436.7	5499.3	5658.9	5980.2	6463.4	7005.8	7136.8	6799.5	6118.1
15°	5178.0	5159.8	5199.6	5280.5	5485.7	5935.8	6777.9	7305.5	7065.0	6295.9
17.5°	5117.6	5097.1	5114.2	5156.3	5288.5	5631.5	6433.7	7388.7	7341.9	6494.1
20°	5229.3	5212.2	5214.4	5212.2	5304.5	5576.8	6194.4	7356.8	7583.5	6676.5
22.5°	5499.3	5470.8	5472.0	5411.6	5461.7	5672.5	6131.8	7271.3	7798.9	6836.0
25°	5939.2	5887.9	5898.2	5744.3	5730.7	5886.8	6229.8	7205.2	8013.1	6963.6
27.5°	6540.9	6482.7	6452.0	6222.9	6113.5	6191.0	6429.2	7228.0	8215.9	7074.1
30°	7292.9	7222.3	7159.6	6834.8	6636.6	6608.1	6739.1	7378.4	8455.2	7190.4
32.5°	8214.8	8132.8	8018.8	7588.1	7308.9	7159.6	7140.2	7646.2	8735.6	7338.5
35°	9312.2	9205.1	9043.2	8486.0	8132.8	7827.4	7669.0	8032.5	9119.6	7561.9
37.5°	10442.6	10321.8	10173.6	9510.4	9076.3	8626.2	8313.9	8556.7	9631.2	7865.0
40°	11485.2	11349.6	11211.8	10621.5	10155.4	9613.0	9103.6	9219.9	10256.8	8227.3
42.5°	12100.6	12000.3	11947.9	11628.8	11268.7	10718.3	10085.9	10006.1	10959.9	8644.4
45°	12073.2	12032.2	12194.0	12326.2	12240.7	11935.3	11236.8	10875.6	11665.3	9005.6
47.5°	11428.3	11455.6	11816.8	12559.8	12886.8	13046.4	12547.3	11729.1	12278.3	9275.7
50°	9673.4	9696.2	10532.6	12134.8	13053.2	13952.3	13847.5	12562.1	12753.5	9440.9
52.5°	8284.3	8299.1	8658.1	10874.5	12504.0	14408.1	15018.9	13347.2	13101.1	9486.5
55°	6240.0	6291.3	6693.5	8531.6	11075.0	14046.9	15732.2	14156.3	13321.0	9491.1
57.5°	3645.3	3701.2	4198.0	5791.0	8607.9	12787.7	15840.5	14874.2	13470.3	9454.6
60°	1785.6	1809.6	2026.1	3043.7	5307.9	10361.7	14969.9	15221.7	13553.5	9435.2
62.5°	1203.3	1199.9	1209.0	1501.9	2615.2	6657.1	13155.8	14613.2	13509.0	9361.2
65°	1034.7	1022.2	988.0	1054.1	1354.9	3044.8	10164.5	12796.8	13170.6	9175.4
67.5°	894.5	895.7	896.8	876.3	967.5	1405.0	6211.5	10080.2	11955.9	8295.7
70°	740.7	750.9	755.5	755.5	788.5	921.9	2651.7	6908.9	9430.7	6504.4
72.5°	674.6	652.9	655.2	643.8	643.8	701.9	1067.7	3916.5	5941.5	3659.0
75°	550.4	564.1	566.3	558.4	532.2	535.6	633.6	1643.2	2542.3	1517.8
77.5°	475.2	475.2	479.7	474.0	453.5	401.1	422.8	637.0	864.9	622.2
80°	381.7	380.6	400.0	411.4	379.5	296.3	270.1	352.1	384.0	273.5
82.5°	185.7	197.1	274.6	313.4	288.3	214.2	165.2	218.8	205.1	120.8
85°	108.3	102.6	123.1	174.3	165.2	118.5	79.8	114.0	107.1	61.5
87.5°	34.2	31.9	25.1	59.3	47.9	33.0	21.7	33.0	29.6	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950776  
 CATALOG NUMBER: GALN-SB5A-850-U-AFL

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5523.3	0°	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3	5523.3
5541.5	2.5°	5460.6	5326.1	5192.8	5070.9	4996.8	4948.9	4901.1	4847.5	4827.0	4796.2
5556.3	5°	5405.9	5146.1	4914.8	4715.3	4534.2	4391.7	4248.1	4131.9	4079.5	4114.8
5603.0	7.5°	5374.0	4997.9	4641.3	4275.5	3923.4	3641.9	3396.9	3224.8	3147.4	3166.7
5648.6	10°	5345.5	4830.4	4286.9	3709.1	3203.2	2854.5	2603.8	2472.8	2423.8	2434.0
5710.1	12.5°	5319.3	4642.4	3859.6	3099.5	2561.6	2331.5	2259.7	2260.8	2269.9	2276.8
5808.1	15°	5314.7	4415.6	3382.1	2566.2	2215.2	2200.4	2277.9	2326.9	2353.1	2361.1
5890.2	17.5°	5307.9	4144.4	2895.5	2202.7	2130.9	2231.2	2303.0	2334.9	2355.4	2356.5
5970.0	20°	5280.5	3800.3	2446.6	2029.5	2112.7	2199.3	2243.7	2268.8	2285.9	2291.6
6030.3	22.5°	5196.2	3417.4	2096.7	1952.0	2039.7	2109.3	2161.7	2190.2	2200.4	2207.3
6041.7	25°	5044.7	2989.0	1855.1	1877.9	1938.3	2026.1	2068.2	2073.9	2070.5	2080.8
6013.3	27.5°	4846.4	2529.7	1704.7	1777.7	1855.1	1930.3	1953.1	1949.7	1942.9	1954.3
5964.3	30°	4607.1	2117.2	1609.0	1664.8	1770.8	1839.2	1859.7	1851.7	1838.0	1850.6
5939.2	32.5°	4354.1	1779.9	1530.4	1586.2	1701.3	1768.5	1789.0	1781.1	1770.8	1781.1
5967.7	35°	4118.2	1544.1	1457.4	1533.8	1646.6	1712.7	1738.9	1740.0	1740.0	1752.6
6042.9	37.5°	3901.7	1406.2	1397.1	1500.7	1609.0	1668.3	1705.9	1708.1	1659.1	1662.6
6170.5	40°	3701.2	1348.1	1369.7	1479.1	1572.5	1629.5	1631.8	1504.2	1414.1	1411.9
6316.4	42.5°	3537.1	1336.7	1377.7	1476.8	1546.3	1548.6	1387.9	1288.8	1263.7	1264.9
6450.8	45°	3383.2	1333.2	1395.9	1476.8	1507.6	1337.8	1229.5	1203.3	1205.6	1214.7
6511.2	47.5°	3211.2	1319.6	1399.3	1456.3	1395.9	1189.7	1157.8	1146.4	1141.8	1144.1
6497.6	50°	3023.2	1270.6	1356.0	1415.3	1204.5	1125.8	1086.0	1082.5	1088.2	1091.7
6421.2	52.5°	2824.9	1190.8	1282.0	1341.2	1116.7	1070.0	1025.6	1033.5	1058.6	1066.6
6341.4	55°	2695.0	1097.4	1184.0	1193.1	1055.2	1017.6	980.0	998.2	1044.9	1059.8
6293.6	57.5°	2660.8	998.2	1072.3	1062.0	976.6	972.0	949.2	965.2	1024.4	1046.1
6291.3	60°	2650.5	909.3	962.9	954.9	900.2	921.9	916.2	924.2	944.7	951.5
6268.5	62.5°	2570.8	838.7	864.9	853.5	831.9	869.5	883.1	866.0	882.0	890.0
6112.4	65°	2367.9	781.7	769.2	761.2	770.3	804.5	831.9	797.7	812.5	835.3
5510.7	67.5°	2032.9	704.2	670.0	679.2	707.6	725.9	761.2	722.5	735.0	773.7
4438.4	70°	1644.3	606.2	575.5	601.7	629.0	666.6	672.3	646.1	675.7	719.0
2708.6	72.5°	1163.5	507.1	485.4	539.0	548.1	597.1	584.6	572.0	613.1	627.9
1338.9	75°	806.8	409.1	396.6	437.6	470.6	512.8	503.7	518.5	605.1	611.9
668.9	77.5°	510.5	317.9	309.9	336.2	381.7	428.5	443.3	611.9	1033.5	1074.6
347.6	80°	296.3	237.0	227.9	248.4	288.3	331.6	427.3	750.9	681.4	673.5
156.1	82.5°	165.2	163.0	151.6	157.3	192.6	239.3	603.9	528.7	429.6	443.3
62.7	85°	77.5	95.7	82.0	78.6	108.3	280.3	403.4	302.0	200.6	196.0
13.7	87.5°	20.5	18.2	18.2	20.5	45.6	241.6	160.7	128.8	76.3	74.1
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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