

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: P951133

Luminaire Tested: **GALN-SB5B-850-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951133  
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-850-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

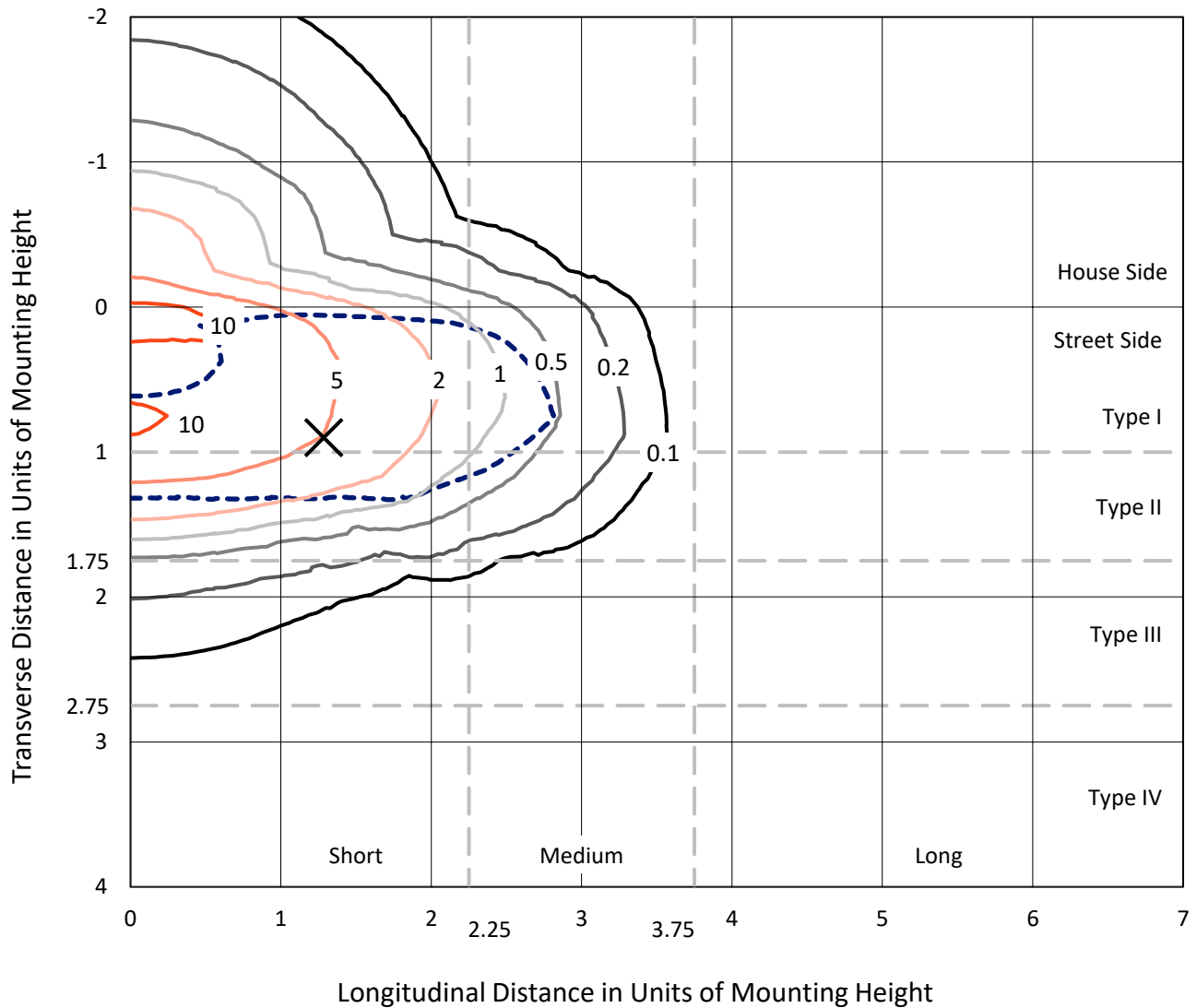
Lumens per Lamp: N/A  
Luminaire Lumens: 27671 lumens  
Efficiency: N/A  
Efficacy: 151.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

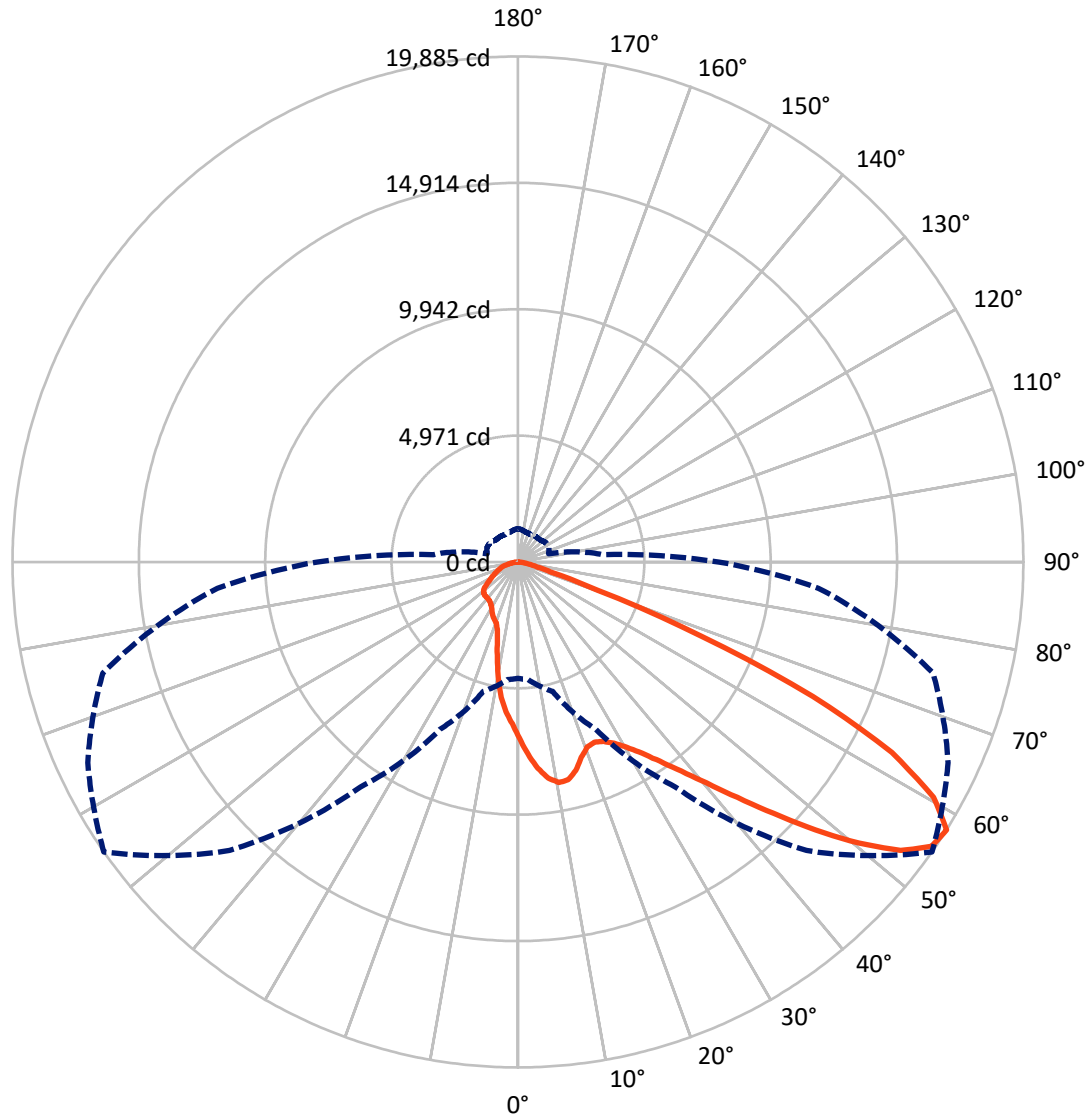
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	5006.9	0.0	5006.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	22664.1	0.0	22664.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	27671.0	0.0	27671.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	643.4	2.3
10°-20°	1623.9	5.9
20°-30°	2591.3	9.4
30°-40°	4102.7	14.8
40°-50°	6279.6	22.7
50°-60°	6726.1	24.3
60°-70°	4231.4	15.3
70°-80°	1251.3	4.5
80°-90°	221.2	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°	27671.0	100.0
0°-180°	27671.0	100.0

**Coefficient of Utilization**



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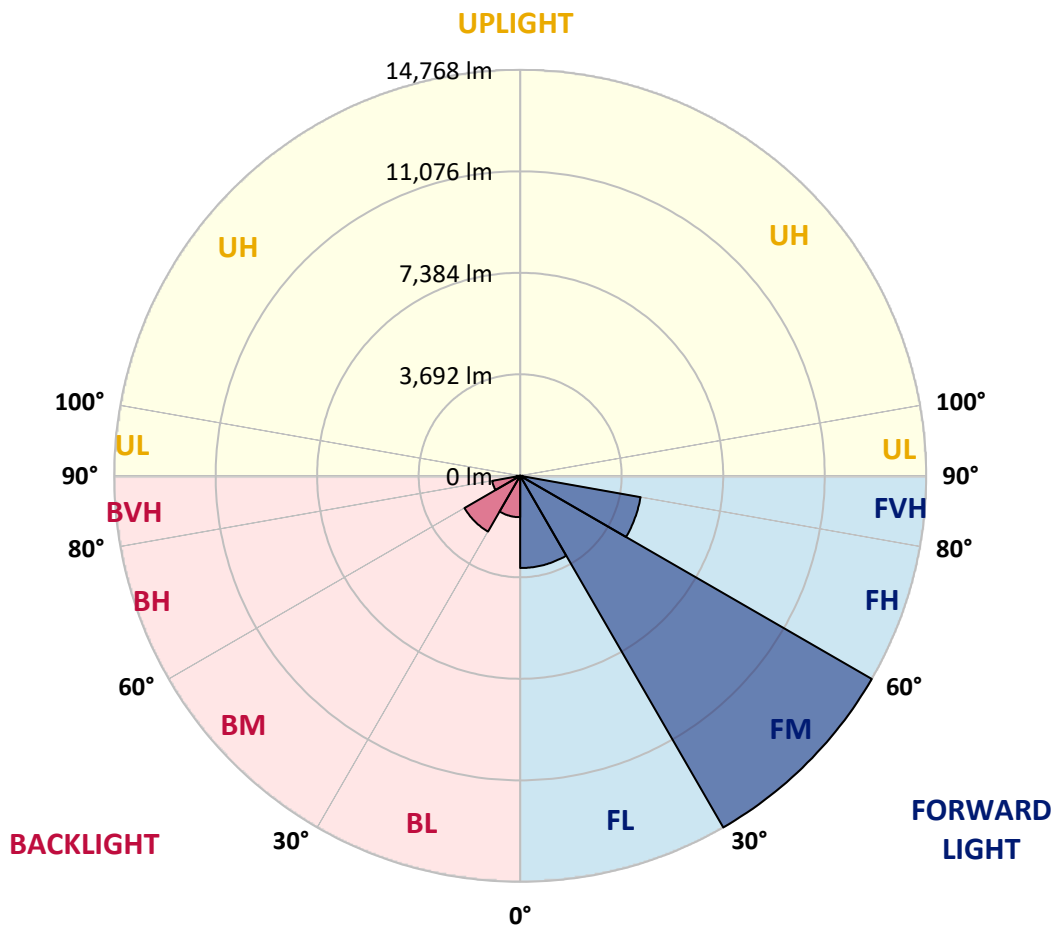
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3353.7	12.1			
FM (30°-60°)	14768.2	53.4			
FH (60°-80°)	4448.7	16.1			G2/5000
FVH (80°-90°)	93.5	0.3			G1/100
BL (0°-30°)	1504.9	5.4	B3/2500		
BM (30°-60°)	2340.2	8.5	B2/2500		
BH (60°-80°)	1034.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	127.8	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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6933.5	6933.5	6933.5	6933.5	6933.5	6933.5	6933.5	6933.5	6933.5	6933.5
2.5°	7954.8	7949.1	7980.6	7873.3	7800.3	7701.6	7571.4	7405.5	7226.7	7037.9
5°	8671.5	8621.4	8654.3	8574.2	8494.1	8345.3	8152.2	7881.9	7551.4	7175.2
7.5°	8558.5	8524.1	8608.5	8680.0	8740.1	8721.5	8579.9	8296.7	7870.4	7324.0
10°	7647.3	7608.6	7727.4	7974.8	8338.2	8654.3	8826.0	8650.0	8196.6	7487.0
12.5°	6843.3	6824.7	6903.4	7103.7	7507.1	8113.6	8794.5	8959.0	8535.6	7680.2
15°	6500.0	6477.1	6527.2	6628.8	6886.2	7451.3	8508.4	9170.7	8868.9	7903.3
17.5°	6424.2	6398.5	6419.9	6472.8	6638.8	7069.3	8076.4	9275.1	9216.5	8152.2
20°	6564.4	6542.9	6545.8	6542.9	6658.8	7000.7	7776.0	9235.1	9519.7	8381.1
22.5°	6903.4	6867.7	6869.1	6793.3	6856.2	7120.8	7697.3	9127.8	9790.1	8581.3
25°	7455.6	7391.2	7404.1	7211.0	7193.8	7389.8	7820.3	9044.8	10059.0	8741.6
27.5°	8210.9	8137.9	8099.3	7811.8	7674.4	7771.7	8070.7	9073.4	10313.6	8880.3
30°	9155.0	9066.3	8987.6	8579.9	8331.0	8295.3	8459.8	9262.2	10614.0	9026.2
32.5°	10312.2	10209.2	10066.2	9525.5	9175.0	8987.6	8963.3	9598.4	10965.9	9212.2
35°	11689.7	11555.3	11352.2	10652.7	10209.2	9825.9	9627.0	10083.3	11448.0	9492.6
37.5°	13108.8	12957.1	12771.2	11938.6	11393.6	10828.6	10436.7	10741.3	12090.3	9873.1
40°	14417.6	14247.4	14074.3	13333.3	12748.3	12067.4	11428.0	11573.9	12875.6	10327.9
42.5°	15190.1	15064.2	14998.4	14597.9	14145.8	13454.9	12661.0	12560.9	13758.2	10851.5
45°	15155.8	15104.3	15307.4	15473.3	15366.0	14982.7	14105.8	13652.3	14643.7	11304.9
47.5°	14346.1	14380.4	14833.9	15766.6	16177.1	16377.4	15750.8	14723.8	15413.2	11644.0
50°	12143.2	12171.8	13221.8	15233.0	16386.0	17514.6	17383.0	15769.4	16009.7	11851.4
52.5°	10399.5	10418.1	10868.7	13650.9	15696.5	18086.8	18853.5	16755.0	16446.0	11908.6
55°	7833.2	7897.6	8402.5	10709.9	13902.7	17633.3	19749.0	17770.6	16722.1	11914.3
57.5°	4576.1	4646.1	5269.8	7269.6	10805.7	16052.7	19884.9	18671.8	16909.5	11868.6
60°	2241.5	2271.6	2543.4	3820.8	6663.1	13007.2	18792.0	19108.1	17013.9	11844.2
62.5°	1510.6	1506.3	1517.7	1885.4	3282.9	8356.8	16514.7	18344.3	16958.1	11751.3
65°	1298.9	1283.1	1240.2	1323.2	1700.8	3822.2	12759.7	16064.1	16533.3	11518.1
67.5°	1122.9	1124.3	1125.8	1100.0	1214.5	1763.8	7797.5	12653.9	15008.4	10413.8
70°	929.8	942.7	948.4	948.4	989.9	1157.2	3328.7	8672.9	11838.5	8165.1
72.5°	846.8	819.7	822.5	808.2	808.2	881.2	1340.3	4916.5	7458.4	4593.2
75°	690.9	708.1	710.9	700.9	668.0	672.3	795.3	2062.7	3191.4	1905.4
77.5°	596.5	596.5	602.2	595.1	569.3	503.5	530.7	799.6	1085.7	781.0
80°	479.2	477.8	502.1	516.4	476.3	371.9	339.0	442.0	482.1	343.3
82.5°	233.2	247.5	344.7	393.4	361.9	268.9	207.4	274.6	257.5	151.6
85°	135.9	128.7	154.5	218.9	207.4	148.8	100.1	143.0	134.5	77.2
87.5°	42.9	40.1	31.5	74.4	60.1	41.5	27.2	41.5	37.2	17.2
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°
6933.5	0°	6933.5	6933.5	6933.5	6933.5	6933.5	6933.5	6933.5	6933.5	6933.5	6933.5
6956.3	2.5°	6854.8	6686.0	6518.6	6365.6	6272.6	6212.5	6152.4	6085.2	6059.4	6020.8
6974.9	5°	6786.1	6460.0	6169.6	5919.3	5691.8	5513.0	5332.8	5186.9	5121.1	5165.4
7033.6	7.5°	6746.1	6274.0	5826.3	5367.1	4925.1	4571.8	4264.2	4048.2	3950.9	3975.3
7090.8	10°	6710.3	6063.7	5381.4	4656.2	4021.0	3583.3	3268.6	3104.1	3042.6	3055.5
7168.1	12.5°	6677.4	5827.7	4845.0	3890.9	3215.7	2926.7	2836.6	2838.0	2849.5	2858.1
7291.1	15°	6671.7	5543.0	4245.6	3221.4	2780.8	2762.2	2859.5	2921.0	2953.9	2963.9
7394.1	17.5°	6663.1	5202.6	3634.8	2765.1	2675.0	2800.8	2891.0	2931.0	2956.8	2958.2
7494.2	20°	6628.8	4770.6	3071.2	2547.7	2652.1	2760.8	2816.6	2848.1	2869.5	2876.7
7570.0	22.5°	6522.9	4290.0	2632.1	2450.4	2560.5	2647.8	2713.6	2749.3	2762.2	2770.8
7584.3	25°	6332.7	3752.1	2328.8	2357.4	2433.2	2543.4	2596.3	2603.4	2599.2	2612.0
7548.6	27.5°	6083.8	3175.6	2140.0	2231.5	2328.8	2423.2	2451.8	2447.5	2438.9	2453.2
7487.0	30°	5783.4	2657.8	2019.8	2089.9	2222.9	2308.8	2334.5	2324.5	2307.3	2323.1
7455.6	32.5°	5465.8	2234.4	1921.1	1991.2	2135.7	2220.1	2245.8	2235.8	2222.9	2235.8
7491.3	35°	5169.7	1938.3	1829.6	1925.4	2067.0	2150.0	2182.9	2184.3	2184.3	2200.1
7585.7	37.5°	4897.9	1765.2	1753.7	1883.9	2019.8	2094.2	2141.4	2144.3	2082.8	2087.0
7746.0	40°	4646.1	1692.2	1719.4	1856.7	1974.0	2045.6	2048.4	1888.2	1775.2	1772.3
7929.1	42.5°	4440.2	1677.9	1729.4	1853.9	1941.1	1944.0	1742.3	1617.9	1586.4	1587.8
8097.9	45°	4247.0	1673.6	1752.3	1853.9	1892.5	1679.4	1543.5	1510.6	1513.4	1524.9
8173.7	47.5°	4031.0	1656.5	1756.6	1828.1	1752.3	1493.4	1453.4	1439.0	1433.3	1436.2
8156.5	50°	3795.0	1595.0	1702.3	1776.6	1512.0	1413.3	1363.2	1358.9	1366.1	1370.4
8060.7	52.5°	3546.1	1494.8	1609.3	1683.7	1401.9	1343.2	1287.4	1297.4	1328.9	1338.9
7960.5	55°	3383.0	1377.5	1486.3	1497.7	1324.6	1277.4	1230.2	1253.1	1311.7	1330.3
7900.4	57.5°	3340.1	1253.1	1346.1	1333.2	1225.9	1220.2	1191.6	1211.6	1286.0	1313.2
7897.6	60°	3327.3	1141.5	1208.7	1198.7	1130.1	1157.2	1150.1	1160.1	1185.9	1194.4
7869.0	62.5°	3227.1	1052.8	1085.7	1071.4	1044.2	1091.4	1108.6	1087.2	1107.2	1117.2
7673.0	65°	2972.5	981.3	965.6	955.5	967.0	1009.9	1044.2	1001.3	1019.9	1048.5
6917.7	67.5°	2551.9	884.0	841.1	852.6	888.3	911.2	955.5	906.9	922.6	971.3
5571.7	70°	2064.2	761.0	722.4	755.3	789.6	836.8	844.0	811.1	848.3	902.6
3400.2	72.5°	1460.5	636.6	609.4	676.6	688.1	749.6	733.8	718.1	769.6	788.2
1680.8	75°	1012.8	513.5	497.8	549.3	590.8	643.7	632.3	650.9	759.6	768.2
839.7	77.5°	640.8	399.1	389.1	422.0	479.2	537.9	556.5	768.2	1297.4	1348.9
436.3	80°	371.9	297.5	286.1	311.8	361.9	416.3	536.4	942.7	855.4	845.4
196.0	82.5°	207.4	204.6	190.3	197.4	241.7	300.4	758.1	663.7	539.3	556.5
78.7	85°	97.3	120.2	103.0	98.7	135.9	351.9	506.4	379.1	251.8	246.0
17.2	87.5°	25.7	22.9	22.9	25.7	57.2	303.3	201.7	161.6	95.8	93.0
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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