

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: P951049

Luminaire Tested: **GALN-SB5B-827-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951049  
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-827-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

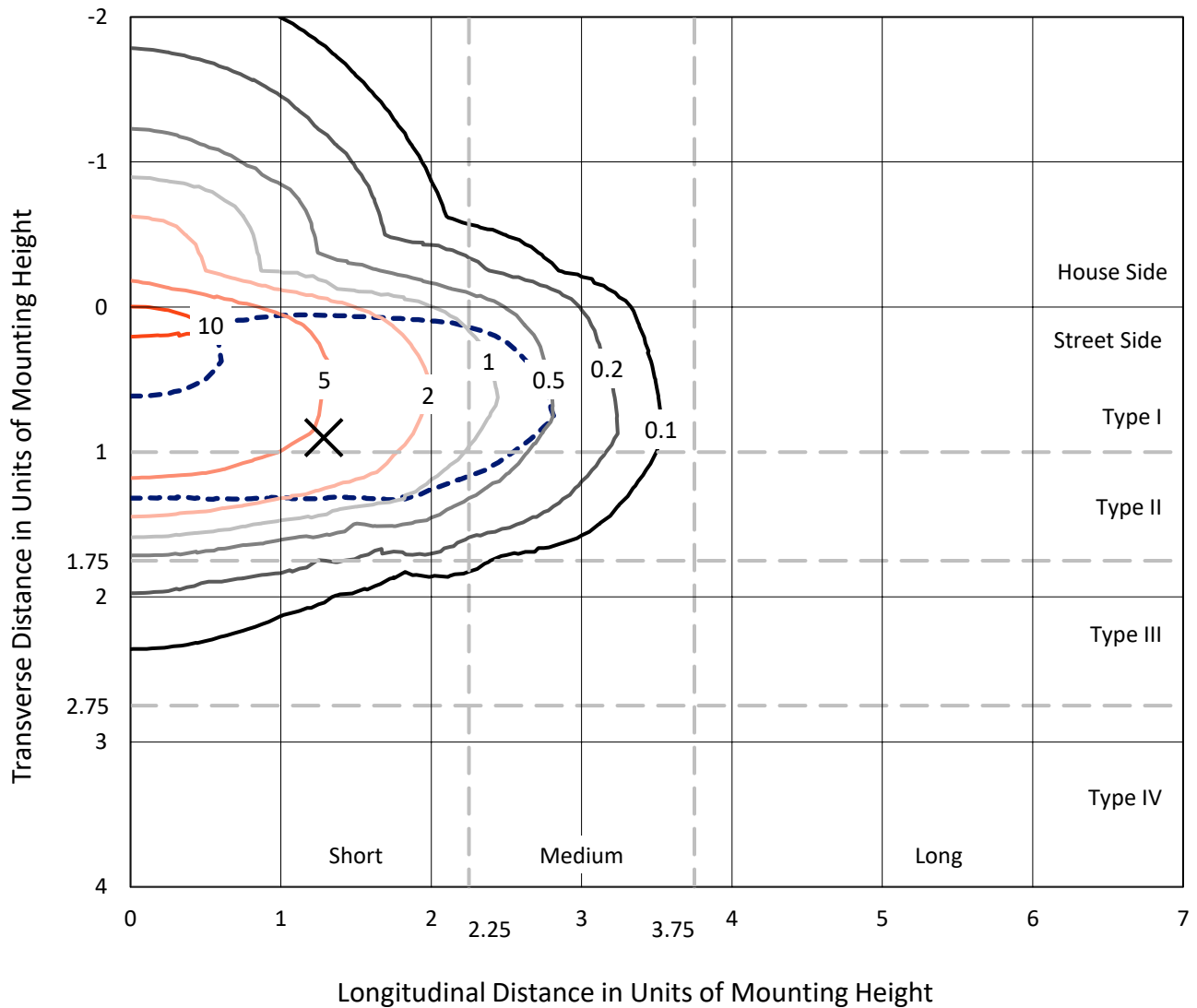
Lumens per Lamp: N/A  
Luminaire Lumens: 25156 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

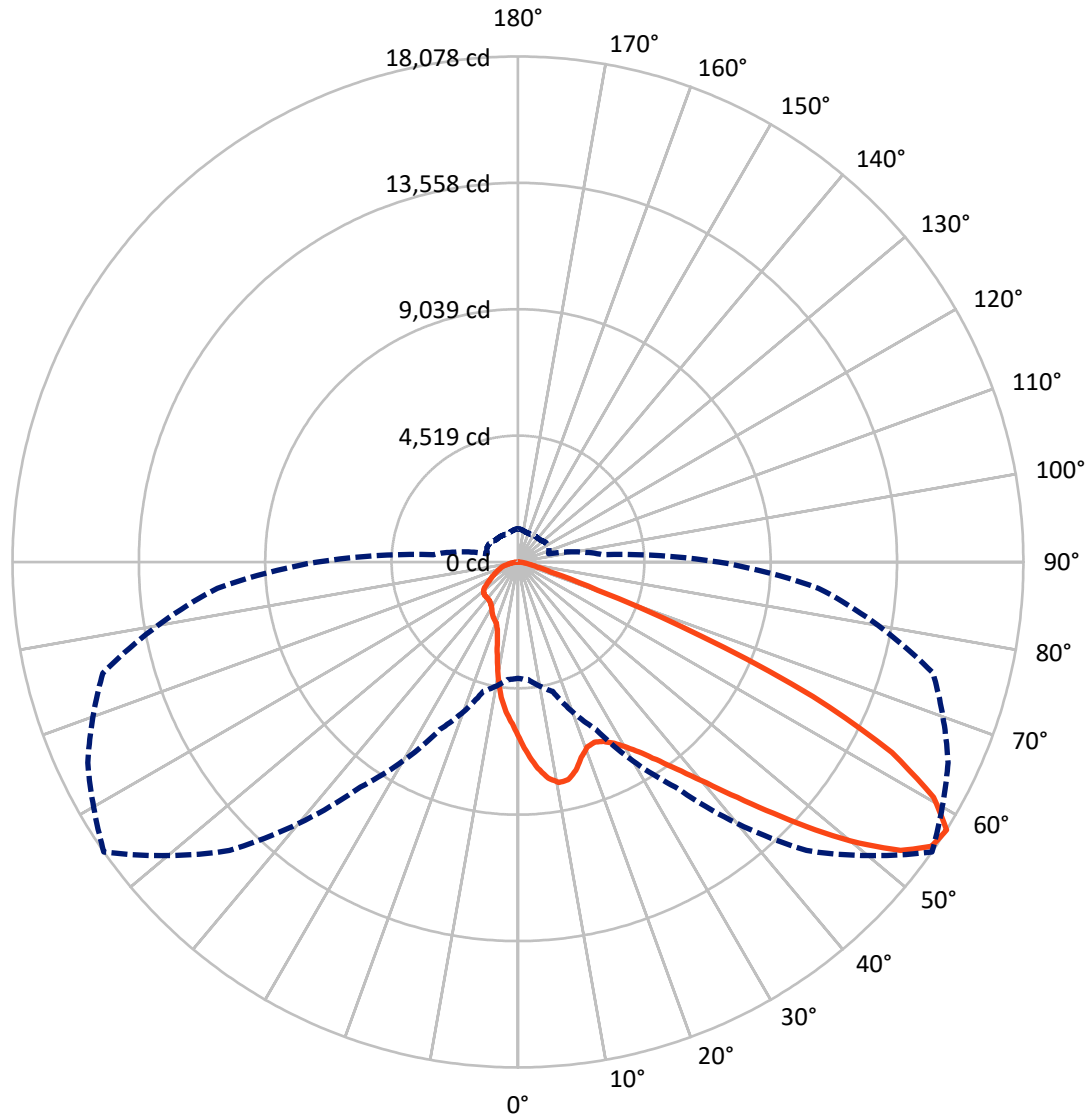
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	4551.9	0.0	4551.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	20604.1	0.0	20604.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	25156.0	0.0	25156.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	584.9	2.3
10°-20°	1476.3	5.9
20°-30°	2355.8	9.4
30°-40°	3729.8	14.8
40°-50°	5708.9	22.7
50°-60°	6114.7	24.3
60°-70°	3846.8	15.3
70°-80°	1137.6	4.5
80°-90°	201.1	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°	25156.0	100.0
0°-180°	25156.0	100.0

**Coefficient of Utilization**



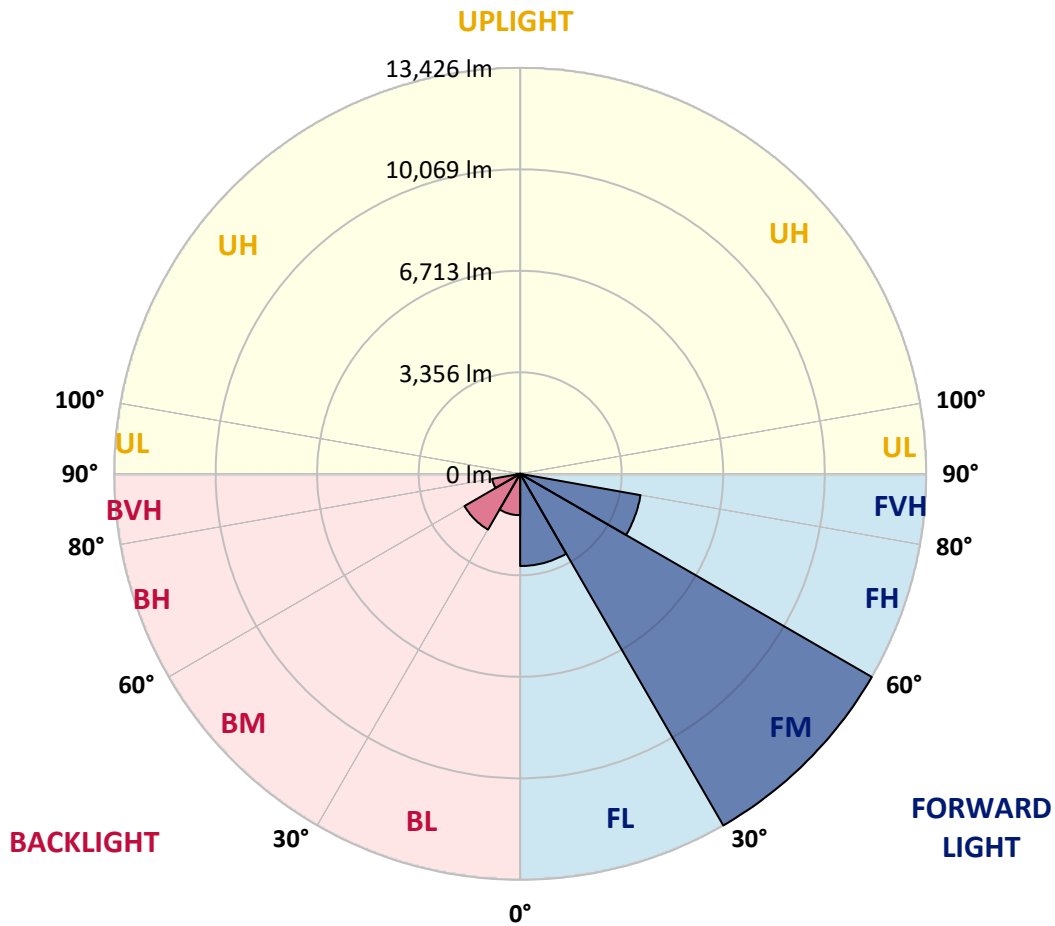
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3048.9	12.1			
FM (30°-60°)	13425.9	53.4			
FH (60°-80°)	4044.3	16.1			G2/5000
FVH (80°-90°)	85.0	0.3			G1/100
BL (0°-30°)	1368.1	5.4	B3/2500		
BM (30°-60°)	2127.5	8.5	B2/2500		
BH (60°-80°)	940.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	116.2	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°	6303.3	6303.3	6303.3	6303.3	6303.3	6303.3	6303.3	6303.3	6303.3	6303.3
2.5°	7231.8	7226.6	7255.2	7157.7	7091.3	7001.6	6883.3	6732.4	6569.9	6398.2
5°	7883.3	7837.8	7867.7	7794.9	7722.1	7586.8	7411.3	7165.5	6865.1	6523.1
7.5°	7780.6	7749.4	7826.1	7891.1	7945.7	7928.8	7800.1	7542.6	7155.1	6658.3
10°	6952.2	6917.1	7025.0	7250.0	7580.3	7867.7	8023.8	7863.8	7451.6	6806.6
12.5°	6221.3	6204.4	6276.0	6458.0	6824.8	7376.1	7995.2	8144.7	7759.8	6982.1
15°	5909.2	5888.4	5933.9	6026.3	6260.4	6774.0	7735.1	8337.2	8062.8	7185.0
17.5°	5840.3	5816.9	5836.4	5884.5	6035.4	6426.8	7342.3	8432.1	8378.8	7411.3
20°	5967.8	5948.3	5950.9	5948.3	6053.6	6364.4	7069.2	8395.7	8654.5	7619.3
22.5°	6276.0	6243.5	6244.8	6175.8	6233.1	6473.6	6997.7	8298.2	8900.3	7801.4
25°	6777.9	6719.4	6731.1	6555.6	6540.0	6718.1	7109.6	8222.7	9144.8	7947.0
27.5°	7464.6	7398.3	7363.1	7101.8	6976.9	7065.3	7337.1	8248.7	9376.2	8073.2
30°	8322.9	8242.2	8170.7	7800.1	7573.8	7541.3	7690.9	8420.4	9649.3	8205.8
32.5°	9374.9	9281.3	9151.3	8659.7	8341.1	8170.7	8148.6	8726.0	9969.2	8374.9
35°	10627.3	10505.0	10320.4	9684.4	9281.3	8932.8	8752.0	9166.9	10407.5	8629.8
37.5°	11917.3	11779.5	11610.4	10853.5	10358.1	9844.4	9488.1	9765.1	10991.4	8975.7
40°	13107.2	12952.5	12795.1	12121.5	11589.6	10970.6	10389.3	10521.9	11705.3	9389.2
42.5°	13809.5	13695.0	13635.2	13271.1	12860.1	12232.0	11510.3	11419.2	12507.7	9865.2
45°	13778.3	13731.4	13916.1	14067.0	13969.4	13620.9	12823.7	12411.5	13312.7	10277.4
47.5°	13042.2	13073.4	13485.7	14333.6	14706.8	14888.8	14319.2	13385.5	14012.3	10585.7
50°	11039.5	11065.5	12020.1	13848.5	14896.6	15922.7	15803.1	14336.2	14554.6	10774.2
52.5°	9454.3	9471.2	9880.8	12410.2	14269.8	16442.9	17139.9	15232.2	14951.3	10826.2
55°	7121.3	7179.8	7638.8	9736.5	12639.1	16030.6	17954.0	16155.5	15202.3	10831.4
57.5°	4160.1	4223.9	4790.9	6608.9	9823.6	14593.6	18077.5	16974.8	15372.6	10789.8
60°	2037.8	2065.1	2312.2	3473.5	6057.5	11825.0	17084.0	17371.4	15467.5	10767.7
62.5°	1373.3	1369.4	1379.8	1714.0	2984.5	7597.2	15013.7	16677.0	15416.8	10683.2
65°	1180.8	1166.5	1127.5	1202.9	1546.2	3474.8	11600.0	14604.0	15030.6	10471.2
67.5°	1020.9	1022.2	1023.5	1000.0	1104.1	1603.5	7088.7	11503.8	13644.3	9467.3
70°	845.3	857.0	862.2	862.2	899.9	1052.1	3026.1	7884.6	10762.5	7423.0
72.5°	769.9	745.2	747.8	734.8	734.8	801.1	1218.5	4469.6	6780.5	4175.7
75°	628.1	643.7	646.3	637.2	607.3	611.2	723.0	1875.2	2901.3	1732.2
77.5°	542.3	542.3	547.5	541.0	517.6	457.8	482.5	727.0	987.0	710.0
80°	435.7	434.4	456.5	469.5	433.0	338.1	308.2	401.8	438.3	312.1
82.5°	212.0	225.0	313.4	357.6	329.0	244.5	188.6	249.7	234.1	137.8
85°	123.5	117.0	140.4	199.0	188.6	135.2	91.0	130.0	122.2	70.2
87.5°	39.0	36.4	28.6	67.6	54.6	37.7	24.7	37.7	33.8	15.6
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°
6303.3	0°	6303.3	6303.3	6303.3	6303.3	6303.3	6303.3	6303.3	6303.3	6303.3	6303.3
6324.1	2.5°	6231.8	6078.3	5926.1	5787.0	5702.5	5647.9	5593.2	5532.1	5508.7	5473.6
6341.0	5°	6169.3	5872.8	5608.8	5381.3	5174.5	5011.9	4848.1	4715.4	4655.6	4695.9
6394.3	7.5°	6132.9	5703.8	5296.7	4879.3	4477.4	4156.2	3876.6	3680.3	3591.8	3613.9
6446.3	10°	6100.4	5512.6	4892.3	4233.0	3655.6	3257.6	2971.5	2822.0	2766.1	2777.8
6516.6	12.5°	6070.5	5298.0	4404.6	3537.2	2923.4	2660.7	2578.8	2580.1	2590.5	2598.3
6628.4	15°	6065.3	5039.2	3859.7	2928.6	2528.1	2511.2	2599.6	2655.5	2685.4	2694.5
6722.0	17.5°	6057.5	4729.7	3304.4	2513.8	2431.8	2546.3	2628.2	2664.6	2688.0	2689.3
6813.1	20°	6026.3	4337.0	2792.1	2316.1	2411.0	2509.9	2560.6	2589.2	2608.7	2615.2
6882.0	22.5°	5930.0	3900.0	2392.8	2227.7	2327.8	2407.1	2467.0	2499.5	2511.2	2519.0
6895.0	25°	5757.1	3411.1	2117.1	2143.1	2212.1	2312.2	2360.3	2366.8	2362.9	2374.6
6862.5	27.5°	5530.8	2887.0	1945.5	2028.7	2117.1	2203.0	2229.0	2225.1	2217.3	2230.3
6806.6	30°	5257.7	2416.2	1836.2	1900.0	2020.9	2098.9	2122.3	2113.2	2097.6	2111.9
6777.9	32.5°	4969.0	2031.3	1746.5	1810.2	1941.6	2018.3	2041.7	2032.6	2020.9	2032.6
6810.5	35°	4699.8	1762.1	1663.3	1750.4	1879.1	1954.6	1984.5	1985.8	1985.8	2000.1
6896.3	37.5°	4452.7	1604.8	1594.4	1712.7	1836.2	1903.9	1946.8	1949.4	1893.5	1897.4
7041.9	40°	4223.9	1538.4	1563.1	1688.0	1794.6	1859.6	1862.2	1716.6	1613.9	1611.3
7208.4	42.5°	4036.6	1525.4	1572.2	1685.4	1764.7	1767.3	1583.9	1470.8	1442.2	1443.5
7361.8	45°	3861.0	1521.5	1593.1	1685.4	1720.5	1526.7	1403.2	1373.3	1375.9	1386.3
7430.8	47.5°	3664.7	1505.9	1597.0	1662.0	1593.1	1357.7	1321.3	1308.3	1303.1	1305.7
7415.2	50°	3450.1	1450.0	1547.5	1615.2	1374.6	1284.8	1239.3	1235.4	1241.9	1245.8
7328.0	52.5°	3223.8	1359.0	1463.0	1530.6	1274.4	1221.1	1170.4	1179.5	1208.1	1217.2
7237.0	55°	3075.6	1252.3	1351.2	1361.6	1204.2	1161.3	1118.4	1139.2	1192.5	1209.4
7182.4	57.5°	3036.5	1139.2	1223.7	1212.0	1114.5	1109.3	1083.3	1101.5	1169.1	1193.8
7179.8	60°	3024.8	1037.8	1098.9	1089.8	1027.4	1052.1	1045.6	1054.7	1078.1	1085.9
7153.8	62.5°	2933.8	957.1	987.0	974.0	949.3	992.2	1007.8	988.3	1006.5	1015.7
6975.6	65°	2702.3	892.1	877.8	868.7	879.1	918.1	949.3	910.3	927.2	953.2
6289.0	67.5°	2320.0	803.7	764.7	775.1	807.6	828.4	868.7	824.5	838.8	883.0
5065.2	70°	1876.5	691.8	656.7	686.6	717.8	760.8	767.3	737.4	771.2	820.6
3091.2	72.5°	1327.8	578.7	554.0	615.1	625.5	681.4	667.1	652.8	699.6	716.5
1528.0	75°	920.7	466.9	452.6	499.4	537.1	585.2	574.8	591.7	690.5	698.3
763.4	77.5°	582.6	362.8	353.7	383.6	435.7	489.0	505.9	698.3	1179.5	1226.3
396.6	80°	338.1	270.5	260.1	283.5	329.0	378.4	487.7	857.0	777.7	768.6
178.2	82.5°	188.6	186.0	173.0	179.5	219.8	273.1	689.2	603.4	490.3	505.9
71.5	85°	88.4	109.2	93.6	89.7	123.5	319.9	460.4	344.6	228.9	223.7
15.6	87.5°	23.4	20.8	20.8	23.4	52.0	275.7	183.4	147.0	87.1	84.5
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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