

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: P955081

Luminaire Tested: **GALN-SB8A-927-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955081  
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-SB8A-927-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

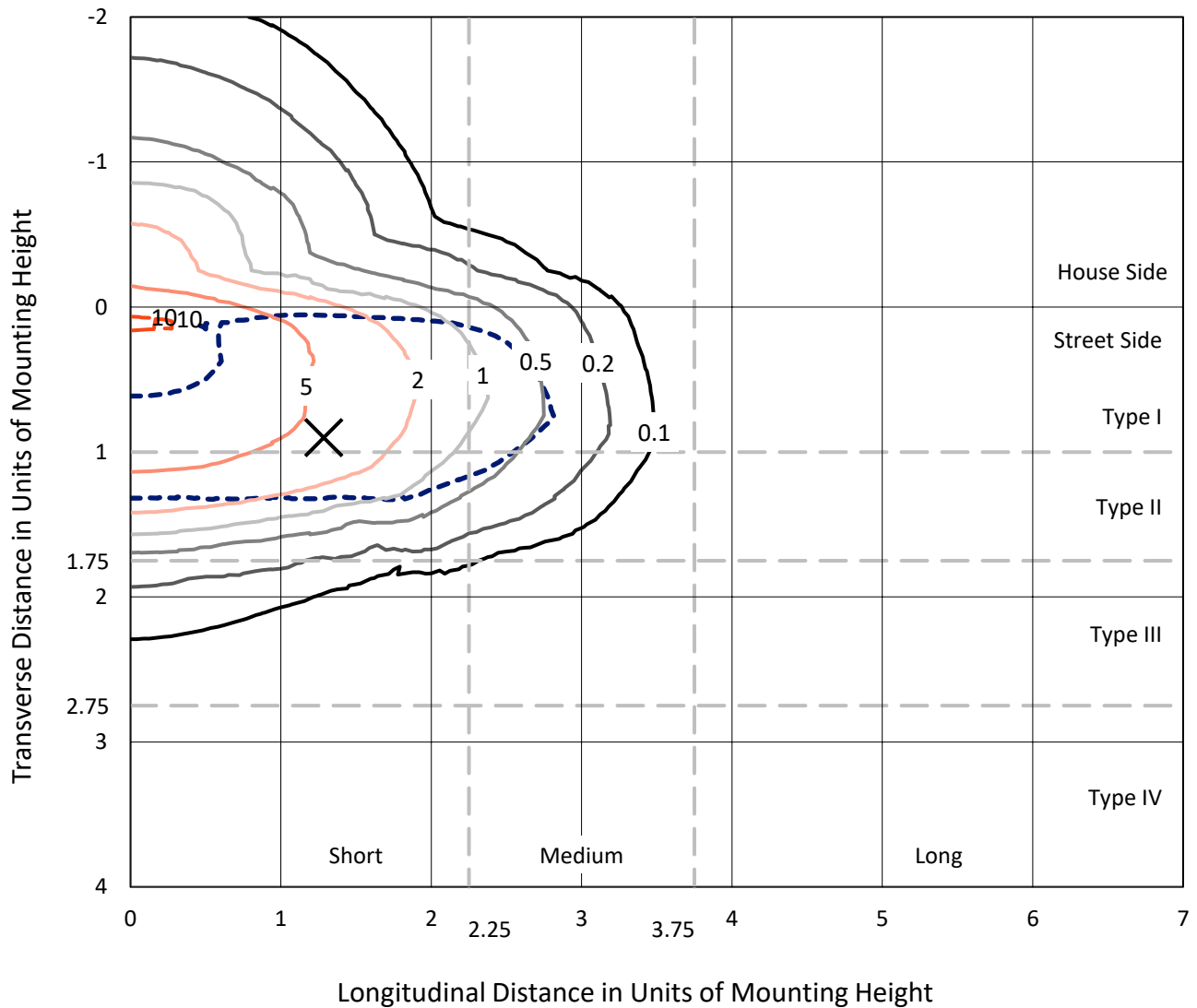
Lumens per Lamp: N/A  
Luminaire Lumens: 22455 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

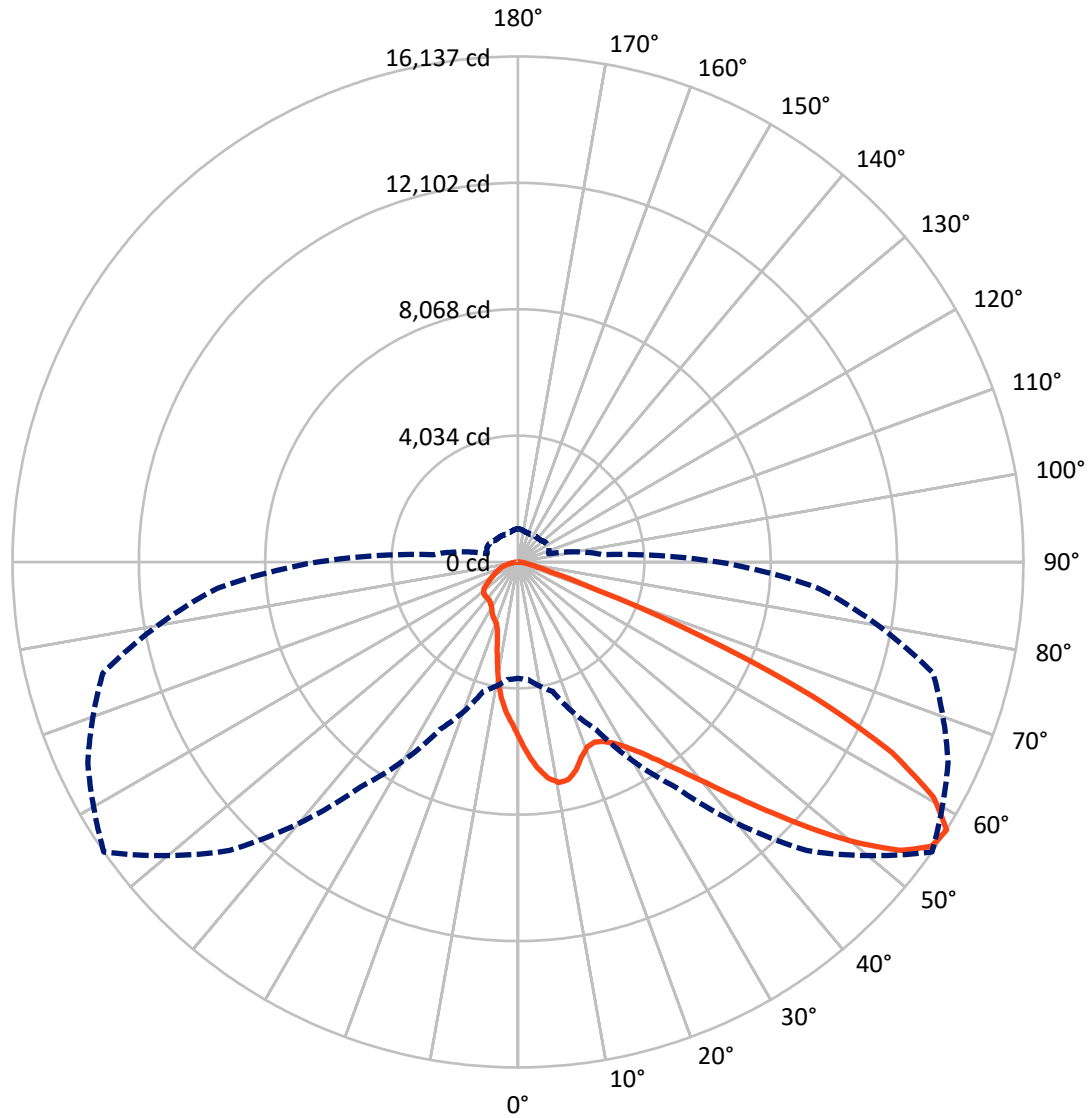
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	4063.1	0.0	4063.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	18391.9	0.0	18391.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	22455.0	0.0	22455.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.1	2.3
10°-20°	1317.8	5.9
20°-30°	2102.9	9.4
30°-40°	3329.4	14.8
40°-50°	5095.9	22.7
50°-60°	5458.2	24.3
60°-70°	3433.8	15.3
70°-80°	1015.4	4.5
80°-90°	179.5	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°	22455.0	100.0
0°-180°	22455.0	100.0

**Coefficient of Utilization**



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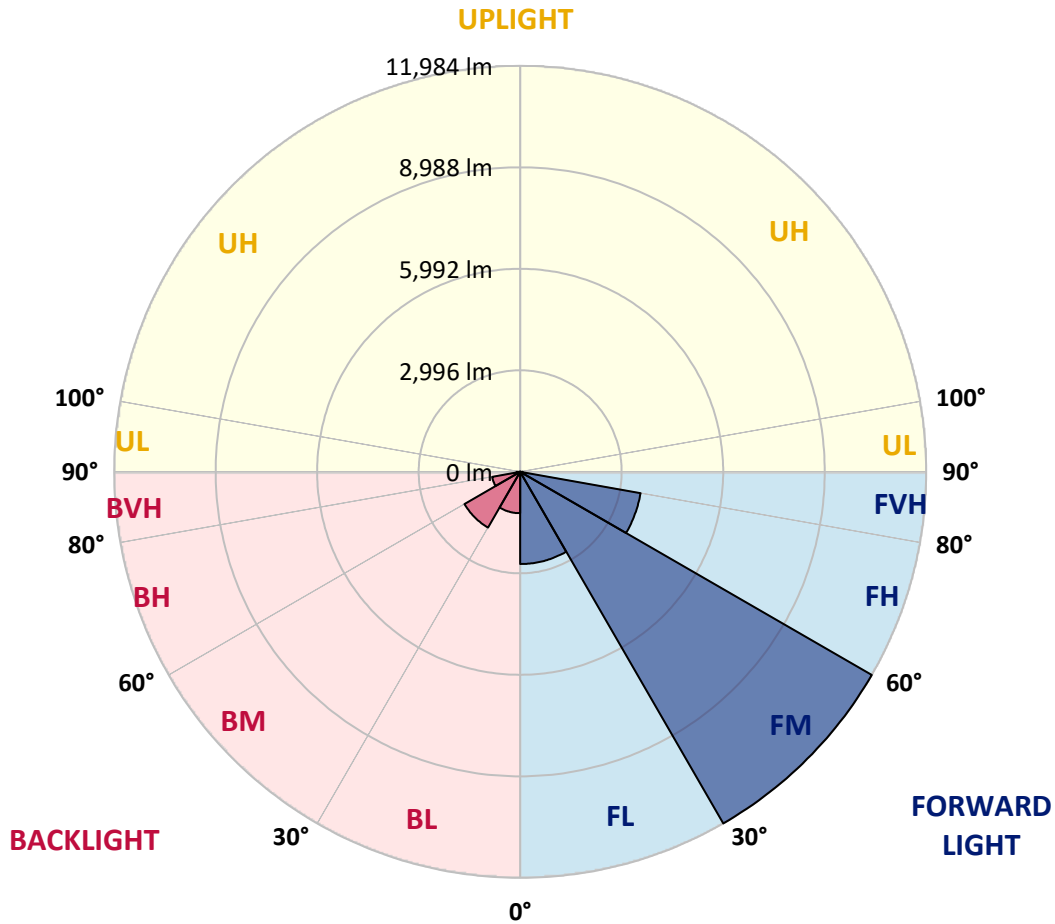
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2721.5	12.1			
FM (30°-60°)	11984.4	53.4			
FH (60°-80°)	3610.1	16.1			G2/5000
FVH (80°-90°)	75.9	0.3			G1/100
BL (0°-30°)	1221.2	5.4	B3/2500		
BM (30°-60°)	1899.1	8.5	B2/2500		
BH (60°-80°)	839.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	103.7	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°	5626.5	5626.5	5626.5	5626.5	5626.5	5626.5	5626.5	5626.5	5626.5	5626.5
2.5°	6455.3	6450.7	6476.2	6389.2	6330.0	6249.9	6144.2	6009.6	5864.5	5711.2
5°	7036.9	6996.3	7023.0	6958.0	6892.9	6772.2	6615.5	6396.1	6128.0	5822.7
7.5°	6945.2	6917.3	6985.8	7043.9	7092.6	7077.5	6962.6	6732.8	6386.8	5943.4
10°	6205.7	6174.4	6270.7	6471.6	6766.4	7023.0	7162.3	7019.5	6651.5	6075.7
12.5°	5553.4	5538.3	5602.1	5764.6	6092.0	6584.2	7136.7	7270.2	6926.6	6232.4
15°	5274.8	5256.2	5296.8	5379.2	5588.2	6046.7	6904.6	7442.0	7197.1	6413.5
17.5°	5213.2	5192.3	5209.8	5252.7	5387.4	5736.8	6554.0	7526.8	7479.2	6615.5
20°	5327.0	5309.6	5311.9	5309.6	5403.6	5681.1	6310.2	7494.3	7725.3	6801.2
22.5°	5602.1	5573.1	5574.3	5512.7	5563.8	5778.6	6246.4	7407.2	7944.7	6963.8
25°	6050.2	5998.0	6008.4	5851.7	5837.8	5996.8	6346.2	7339.9	8162.9	7093.8
27.5°	6663.1	6603.9	6572.6	6339.2	6227.8	6306.7	6549.3	7363.1	8369.5	7206.4
30°	7429.2	7357.3	7293.4	6962.6	6760.6	6731.6	6865.1	7516.3	8613.3	7324.8
32.5°	8368.4	8284.8	8168.7	7729.9	7445.5	7293.4	7273.7	7789.1	8898.8	7475.7
35°	9486.2	9377.1	9212.3	8644.6	8284.8	7973.7	7812.3	8182.6	9290.0	7703.2
37.5°	10637.8	10514.7	10363.8	9688.2	9245.9	8787.4	8469.3	8716.6	9811.2	8012.0
40°	11699.9	11561.8	11421.3	10820.0	10345.2	9792.7	9273.8	9392.2	10448.5	8381.1
42.5°	12326.7	12224.6	12171.2	11846.2	11479.3	10918.7	10274.4	10193.2	11164.8	8806.0
45°	12298.9	12257.1	12421.9	12556.6	12469.5	12158.4	11446.8	11078.9	11883.3	9174.0
47.5°	11641.9	11669.7	12037.7	12794.6	13127.7	13290.2	12781.8	11948.3	12507.8	9449.1
50°	9854.2	9877.4	10729.5	12361.6	13297.2	14213.1	14106.3	12796.9	12991.9	9617.4
52.5°	8439.2	8454.3	8819.9	11077.7	12737.7	14677.4	15299.6	13596.7	13345.9	9663.8
55°	6356.6	6408.9	6818.7	8691.1	11282.0	14309.4	16026.3	14420.9	13570.0	9668.5
57.5°	3713.5	3770.3	4276.5	5899.3	8768.8	13026.7	16136.6	15152.2	13722.1	9631.3
60°	1819.0	1843.4	2063.9	3100.5	5407.1	10555.3	15249.7	15506.2	13806.8	9611.6
62.5°	1225.8	1222.3	1231.6	1530.0	2664.1	6781.5	13401.7	14886.4	13761.5	9536.1
65°	1054.0	1041.3	1006.4	1073.8	1380.2	3101.7	10354.5	13036.0	13416.8	9346.9
67.5°	911.2	912.4	913.6	892.7	985.5	1431.3	6327.6	10268.6	12179.3	8450.8
70°	754.5	765.0	769.6	769.6	803.3	939.1	2701.2	7038.1	9606.9	6626.0
72.5°	687.2	665.1	667.5	655.9	655.9	715.1	1087.7	3989.7	6052.5	3727.4
75°	560.7	574.6	576.9	568.8	542.1	545.6	645.4	1673.9	2589.8	1546.2
77.5°	484.1	484.1	488.7	482.9	462.0	408.6	430.7	648.9	881.1	633.8
80°	388.9	387.7	407.4	419.1	386.6	301.8	275.1	358.7	391.2	278.6
82.5°	189.2	200.8	279.8	319.2	293.7	218.2	168.3	222.9	208.9	123.0
85°	110.3	104.5	125.4	177.6	168.3	120.7	81.3	116.1	109.1	62.7
87.5°	34.8	32.5	25.5	60.4	48.8	33.7	22.1	33.7	30.2	13.9
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°
5626.5	0°	5626.5	5626.5	5626.5	5626.5	5626.5	5626.5	5626.5	5626.5	5626.5	5626.5
5645.1	2.5°	5562.6	5425.7	5289.9	5165.6	5090.2	5041.4	4992.7	4938.1	4917.2	4885.9
5660.2	5°	5506.9	5242.3	5006.6	4803.5	4618.9	4473.8	4327.5	4209.1	4155.7	4191.7
5707.8	7.5°	5474.4	5091.4	4728.0	4355.4	3996.7	3710.0	3460.4	3285.1	3206.2	3225.9
5754.2	10°	5445.4	4920.7	4367.0	3778.5	3263.1	2907.9	2652.5	2519.0	2469.1	2479.5
5816.9	12.5°	5418.7	4729.2	3931.7	3157.4	2609.5	2375.0	2301.9	2303.1	2312.4	2319.3
5916.7	15°	5414.1	4498.2	3445.3	2614.2	2256.6	2241.5	2320.5	2370.4	2397.1	2405.2
6000.3	17.5°	5407.1	4221.9	2949.6	2243.9	2170.7	2272.9	2346.0	2378.5	2399.4	2400.6
6081.5	20°	5379.2	3871.3	2492.3	2067.4	2152.2	2240.4	2285.7	2311.2	2328.6	2334.4
6143.1	22.5°	5293.3	3481.3	2135.9	1988.5	2077.9	2148.7	2202.1	2231.1	2241.5	2248.5
6154.7	25°	5138.9	3044.8	1889.8	1913.0	1974.6	2063.9	2106.9	2112.7	2109.2	2119.7
6125.6	27.5°	4937.0	2577.0	1736.6	1810.9	1889.8	1966.4	1989.6	1986.2	1979.2	1990.8
6075.7	30°	4693.2	2156.8	1639.1	1696.0	1803.9	1873.6	1894.5	1886.3	1872.4	1885.2
6050.2	32.5°	4435.5	1813.2	1559.0	1615.9	1733.1	1801.6	1822.5	1814.4	1803.9	1814.4
6079.2	35°	4195.2	1572.9	1484.7	1562.5	1677.4	1744.7	1771.4	1772.6	1772.6	1785.3
6155.8	37.5°	3974.6	1432.5	1423.2	1528.8	1639.1	1699.4	1737.7	1740.1	1690.2	1693.6
6285.8	40°	3770.3	1373.2	1395.3	1506.7	1601.9	1660.0	1662.3	1532.3	1440.6	1438.3
6434.4	42.5°	3603.2	1361.6	1403.4	1504.4	1575.2	1577.6	1413.9	1312.9	1287.3	1288.5
6571.4	45°	3446.5	1358.2	1422.0	1504.4	1535.8	1362.8	1252.5	1225.8	1228.1	1237.4
6632.9	47.5°	3271.2	1344.2	1425.5	1483.5	1422.0	1211.9	1179.4	1167.8	1163.1	1165.5
6619.0	50°	3079.7	1294.3	1381.4	1441.7	1227.0	1146.9	1106.3	1102.8	1108.6	1112.1
6541.2	52.5°	2877.7	1213.1	1305.9	1366.3	1137.6	1090.0	1044.7	1052.9	1078.4	1086.5
6460.0	55°	2745.3	1117.9	1206.1	1215.4	1074.9	1036.6	998.3	1016.9	1064.5	1079.6
6411.2	57.5°	2710.5	1016.9	1092.3	1081.9	994.8	990.2	967.0	983.2	1043.6	1065.6
6408.9	60°	2700.1	926.3	980.9	972.8	917.0	939.1	933.3	941.4	962.3	969.3
6385.7	62.5°	2618.8	854.4	881.1	869.5	847.4	885.7	899.6	882.2	898.5	906.6
6226.6	65°	2412.2	796.3	783.6	775.4	784.7	819.5	847.4	812.6	827.7	850.9
5613.7	67.5°	2070.9	717.4	682.6	691.8	720.9	739.4	775.4	736.0	748.7	788.2
4521.4	70°	1675.1	617.6	586.2	612.9	640.8	679.1	684.9	658.2	688.4	732.5
2759.3	72.5°	1185.2	516.6	494.5	549.1	558.4	608.3	595.5	582.7	624.5	639.6
1364.0	75°	821.9	416.7	404.0	445.8	479.4	522.4	513.1	528.2	616.4	623.4
681.4	77.5°	520.0	323.9	315.7	342.4	388.9	436.5	451.6	623.4	1052.9	1094.7
354.1	80°	301.8	241.5	232.2	253.1	293.7	337.8	435.3	765.0	694.2	686.0
159.0	82.5°	168.3	166.0	154.4	160.2	196.2	243.8	615.2	538.6	437.6	451.6
63.8	85°	78.9	97.5	83.6	80.1	110.3	285.6	410.9	307.6	204.3	199.7
13.9	87.5°	20.9	18.6	18.6	20.9	46.4	246.1	163.7	131.2	77.8	75.5
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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