

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: P947479

Luminaire Tested: **GALN-SB2D-827-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947479  
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-SB2D-827-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

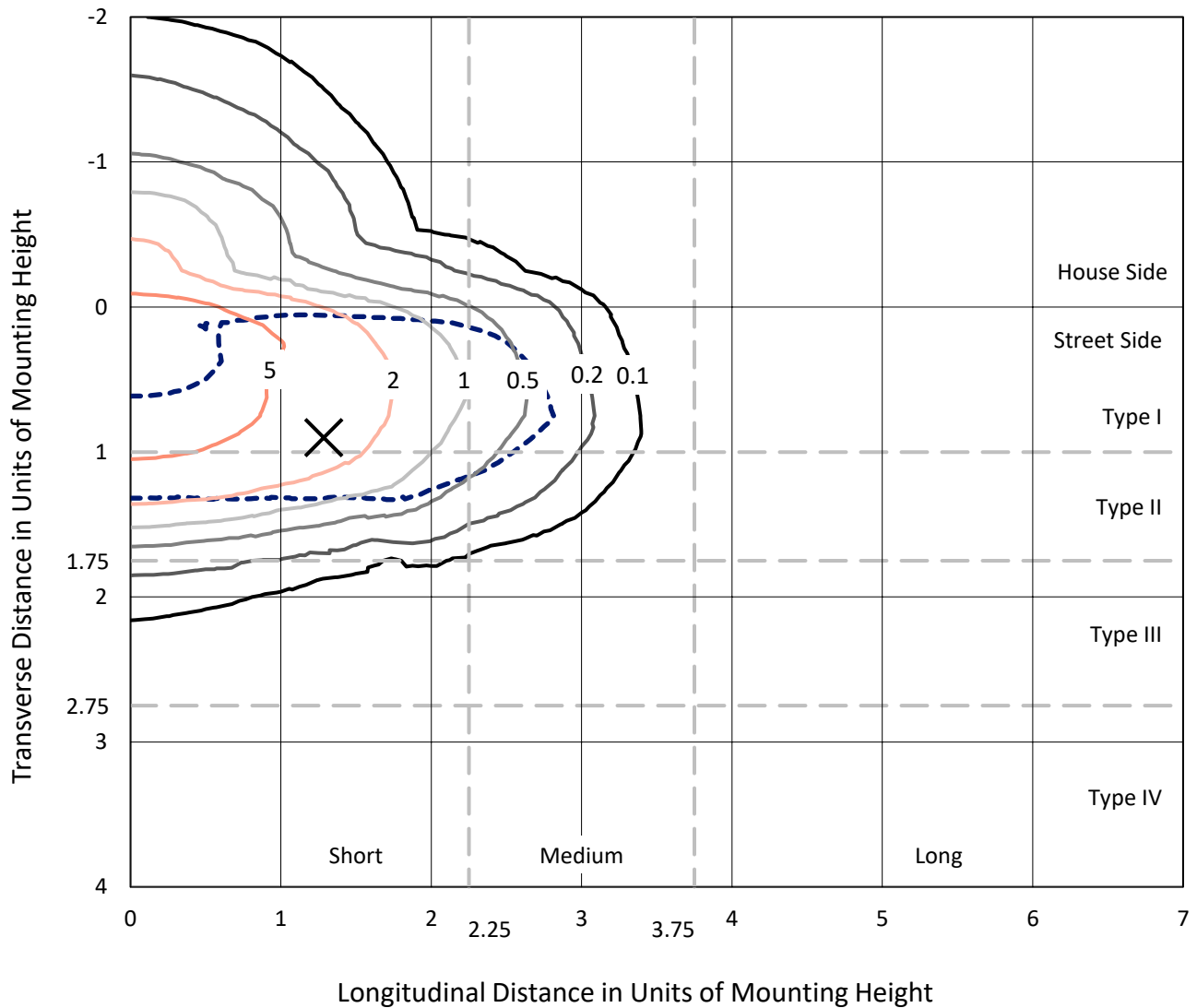
Lumens per Lamp: N/A  
Luminaire Lumens: 17997 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

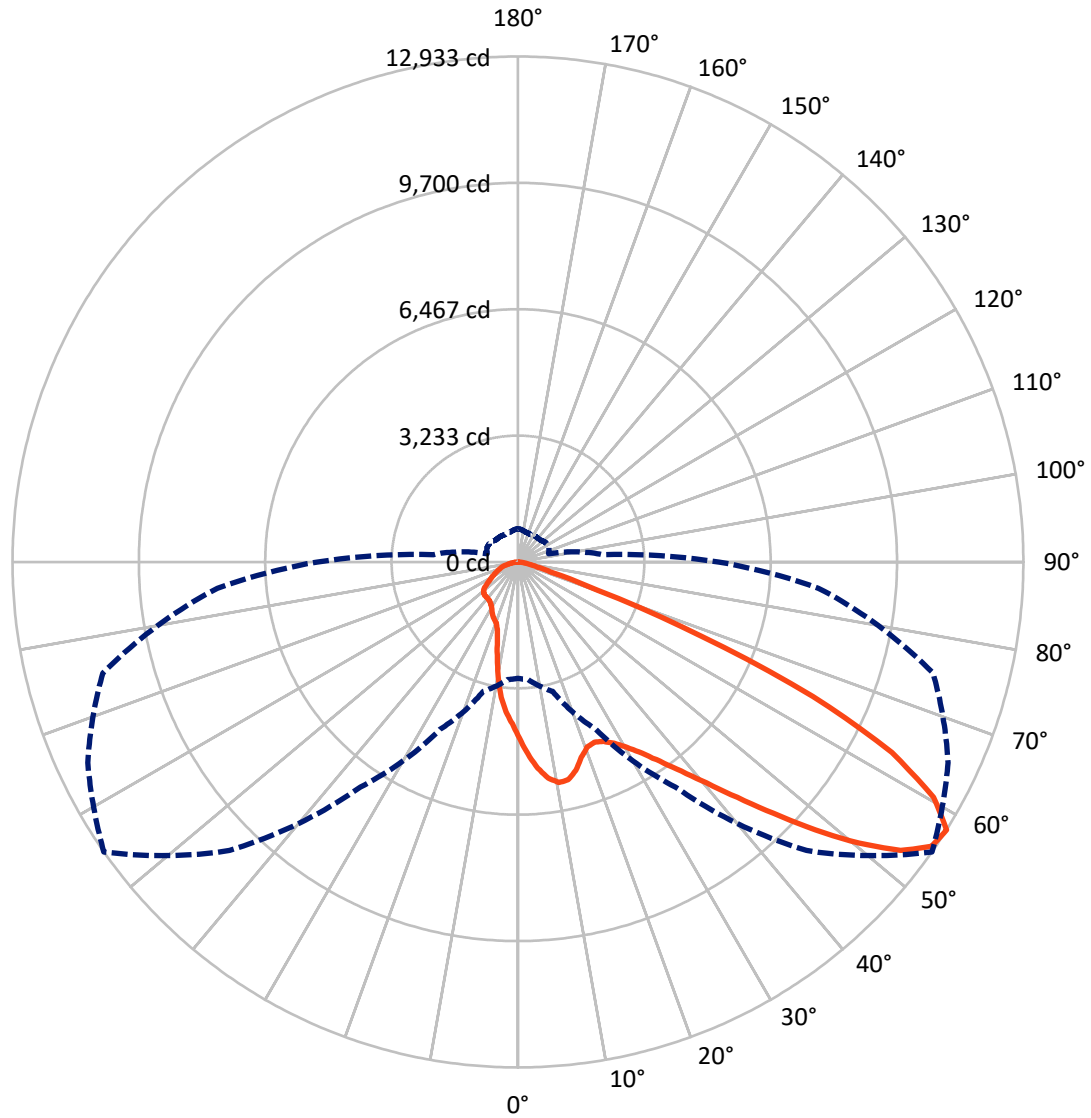
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	3256.5	0.0	3256.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	14740.5	0.0	14740.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	17997.0	0.0	17997.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.4	2.3
10°-20°	1056.2	5.9
20°-30°	1685.4	9.4
30°-40°	2668.4	14.8
40°-50°	4084.2	22.7
50°-60°	4374.6	24.3
60°-70°	2752.1	15.3
70°-80°	813.8	4.5
80°-90°	143.9	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°	17997.0	100.0
0°-180°	17997.0	100.0



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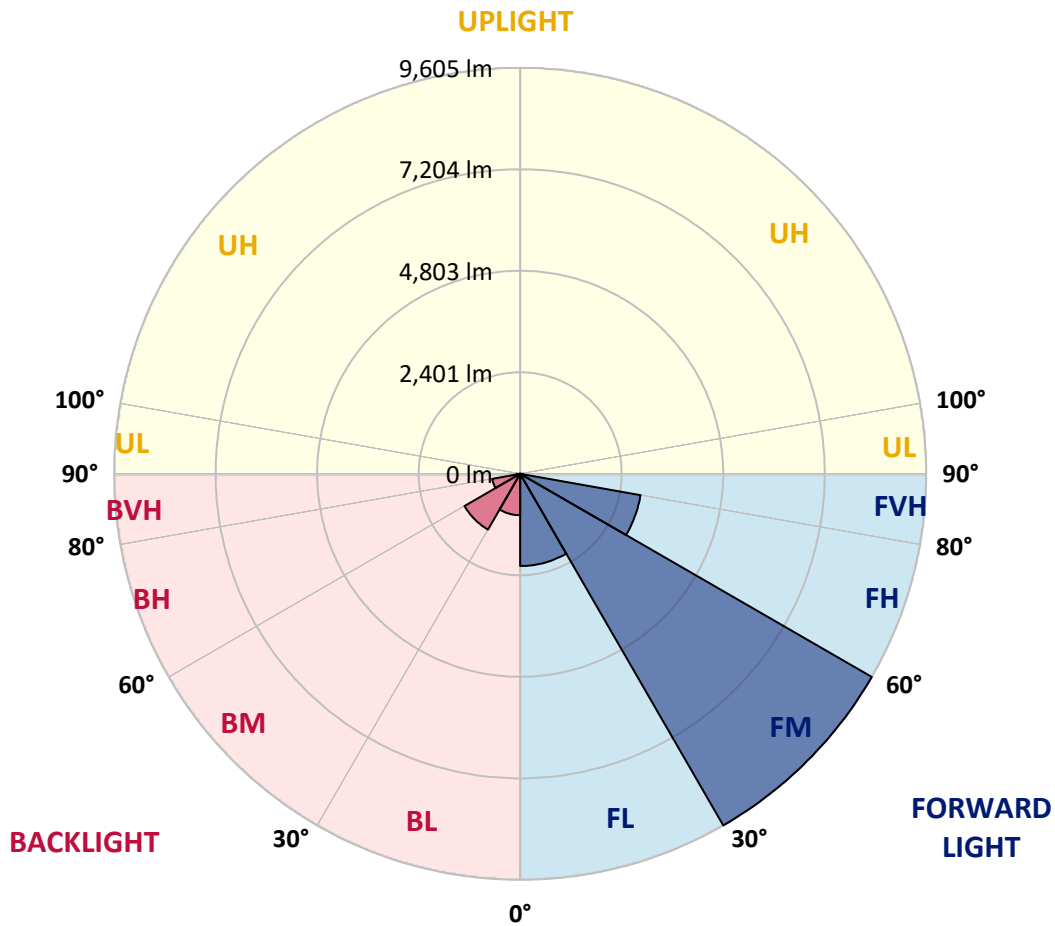
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2181.2	12.1			
FM (30°-60°)	9605.1	53.4			
FH (60°-80°)	2893.4	16.1			G2/5000
FVH (80°-90°)	60.8	0.3			G1/100
BL (0°-30°)	978.8	5.4	B2/1000		
BM (30°-60°)	1522.0	8.5	B2/2500		
BH (60°-80°)	672.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	83.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4509.5	4509.5	4509.5	4509.5	4509.5	4509.5	4509.5	4509.5	4509.5	4509.5
2.5°	5173.7	5170.0	5190.5	5120.7	5073.3	5009.1	4924.4	4816.5	4700.2	4577.4
5°	5639.9	5607.3	5628.7	5576.6	5524.5	5427.7	5302.1	5126.3	4911.4	4666.7
7.5°	5566.4	5544.0	5598.9	5645.4	5684.5	5672.4	5580.3	5396.1	5118.9	4763.5
10°	4973.7	4948.6	5025.8	5186.8	5423.1	5628.7	5740.3	5625.9	5331.0	4869.5
12.5°	4450.9	4438.8	4489.9	4620.2	4882.5	5277.0	5719.9	5826.9	5551.5	4995.1
15°	4227.6	4212.7	4245.2	4311.3	4478.8	4846.3	5533.8	5964.6	5768.2	5140.2
17.5°	4178.3	4161.5	4175.5	4209.9	4317.8	4597.8	5252.8	6032.5	5994.3	5302.1
20°	4269.4	4255.5	4257.3	4255.5	4330.8	4553.2	5057.4	6006.4	6191.6	5451.0
22.5°	4489.9	4466.7	4467.6	4418.3	4459.2	4631.3	5006.3	5936.6	6367.4	5581.2
25°	4849.0	4807.2	4815.6	4690.0	4678.8	4806.2	5086.3	5882.7	6542.3	5685.4
27.5°	5340.3	5292.8	5267.7	5080.7	4991.4	5054.7	5249.1	5901.3	6707.9	5775.7
30°	5954.3	5896.6	5845.5	5580.3	5418.4	5395.2	5502.2	6024.1	6903.3	5870.6
32.5°	6707.0	6640.0	6547.0	6195.3	5967.3	5845.5	5829.6	6242.7	7132.2	5991.5
35°	7602.9	7515.5	7383.4	6928.4	6640.0	6390.7	6261.3	6558.1	7445.7	6173.9
37.5°	8525.8	8427.2	8306.3	7764.8	7410.3	7042.8	6787.9	6986.1	7863.4	6421.4
40°	9377.1	9266.4	9153.8	8671.9	8291.4	7848.5	7432.7	7527.6	8374.2	6717.2
42.5°	9879.5	9797.6	9754.8	9494.3	9200.3	8751.0	8234.6	8169.5	8948.2	7057.7
45°	9857.2	9823.7	9955.8	10063.7	9993.9	9744.6	9174.3	8879.4	9524.1	7352.6
47.5°	9330.6	9352.9	9647.9	10254.4	10521.5	10651.7	10244.2	9576.2	10024.6	7573.1
50°	7897.8	7916.4	8599.3	9907.4	10657.3	11391.4	11305.8	10256.3	10412.6	7708.0
52.5°	6763.7	6775.8	7068.9	8878.4	10208.9	11763.5	12262.2	10897.3	10696.4	7745.3
55°	5094.7	5136.5	5464.9	6965.6	9042.2	11468.6	12844.6	11557.9	10875.9	7749.0
57.5°	2976.2	3021.8	3427.5	4728.1	7028.0	10440.5	12933.0	12144.0	10997.8	7719.2
60°	1457.9	1477.4	1654.2	2485.0	4333.6	8459.8	12222.2	12427.8	11065.7	7703.4
62.5°	982.5	979.7	987.1	1226.2	2135.2	5435.2	10741.0	11931.0	11029.4	7642.9
65°	844.8	834.5	806.6	860.6	1106.2	2485.9	8298.8	10448.0	10753.1	7491.3
67.5°	730.3	731.3	732.2	715.4	789.9	1147.1	5071.4	8230.0	9761.4	6773.0
70°	604.7	613.1	616.8	616.8	643.8	752.7	2165.0	5640.8	7699.7	5310.5
72.5°	550.8	533.1	535.0	525.7	525.7	573.1	871.7	3197.7	4850.9	2987.4
75°	449.4	460.5	462.4	455.9	434.5	437.3	517.3	1341.6	2075.6	1239.2
77.5°	388.0	388.0	391.7	387.0	370.3	327.5	345.2	520.1	706.1	508.0
80°	311.7	310.7	326.6	335.9	309.8	241.9	220.5	287.5	313.5	223.3
82.5°	151.6	161.0	224.2	255.8	235.4	174.9	134.9	178.6	167.5	98.6
85°	88.4	83.7	100.5	142.3	134.9	96.8	65.1	93.0	87.5	50.2
87.5°	27.9	26.1	20.5	48.4	39.1	27.0	17.7	27.0	24.2	11.2
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°
4509.5	0°	4509.5	4509.5	4509.5	4509.5	4509.5	4509.5	4509.5	4509.5	4509.5	4509.5
4524.3	2.5°	4458.3	4348.5	4239.7	4140.1	4079.6	4040.6	4001.5	3957.8	3941.0	3915.9
4536.4	5°	4413.6	4201.5	4012.7	3849.8	3701.9	3585.6	3468.4	3373.5	3330.7	3359.5
4574.6	7.5°	4387.6	4080.6	3789.4	3490.7	3203.2	2973.4	2773.4	2632.9	2569.7	2585.5
4611.8	10°	4364.3	3943.8	3500.0	3028.3	2615.2	2330.6	2125.9	2018.9	1978.9	1987.3
4662.0	12.5°	4342.9	3790.3	3151.1	2530.6	2091.5	1903.5	1844.9	1845.8	1853.3	1858.9
4742.1	15°	4339.2	3605.2	2761.3	2095.2	1808.6	1796.5	1859.8	1899.8	1921.2	1927.7
4809.0	17.5°	4333.6	3383.7	2364.0	1798.4	1739.8	1821.6	1880.3	1906.3	1923.1	1924.0
4874.2	20°	4311.3	3102.8	1997.5	1657.0	1724.9	1795.6	1831.9	1852.4	1866.3	1871.0
4923.5	22.5°	4242.5	2790.2	1711.9	1593.7	1665.3	1722.1	1764.9	1788.2	1796.5	1802.1
4932.8	25°	4118.7	2440.3	1514.6	1533.2	1582.5	1654.2	1688.6	1693.3	1690.5	1698.8
4909.5	27.5°	3956.8	2065.4	1391.8	1451.4	1514.6	1576.0	1594.6	1591.8	1586.3	1595.6
4869.5	30°	3761.5	1728.6	1313.7	1359.3	1445.8	1501.6	1518.4	1511.8	1500.7	1510.9
4849.0	32.5°	3554.9	1453.2	1249.5	1295.1	1389.0	1443.9	1460.7	1454.2	1445.8	1454.2
4872.3	35°	3362.3	1260.6	1189.9	1252.3	1344.4	1398.3	1419.7	1420.7	1420.7	1430.9
4933.7	37.5°	3185.6	1148.1	1140.6	1225.3	1313.7	1362.0	1392.8	1394.6	1354.6	1357.4
5037.9	40°	3021.8	1100.6	1118.3	1207.6	1283.9	1330.4	1332.3	1228.1	1154.6	1152.7
5157.0	42.5°	2887.8	1091.3	1124.8	1205.7	1262.5	1264.4	1133.2	1052.2	1031.8	1032.7
5266.8	45°	2762.2	1088.5	1139.7	1205.7	1230.9	1092.2	1003.9	982.5	984.3	991.8
5316.1	47.5°	2621.8	1077.4	1142.5	1189.0	1139.7	971.3	945.2	935.9	932.2	934.1
5304.9	50°	2468.3	1037.4	1107.1	1155.5	983.4	919.2	886.6	883.8	888.5	891.3
5242.6	52.5°	2306.4	972.2	1046.7	1095.0	911.8	873.6	837.3	843.8	864.3	870.8
5177.5	55°	2200.3	895.9	966.6	974.1	861.5	830.8	800.1	815.0	853.1	865.2
5138.4	57.5°	2172.4	815.0	875.5	867.1	797.3	793.6	775.0	788.0	836.4	854.1
5136.5	60°	2164.0	742.4	786.2	779.6	735.0	752.7	748.0	754.5	771.3	776.9
5117.9	62.5°	2098.9	684.7	706.1	696.8	679.2	709.9	721.0	707.1	720.1	726.6
4990.5	65°	1933.3	638.2	628.0	621.5	628.9	656.8	679.2	651.3	663.3	682.0
4499.2	67.5°	1659.8	575.0	547.1	554.5	577.8	592.6	621.5	589.8	600.1	631.7
3623.8	70°	1342.5	495.0	469.8	491.2	513.6	544.3	548.9	527.5	551.7	587.1
2211.5	72.5°	949.9	414.0	396.3	440.1	447.5	487.5	477.3	467.0	500.5	512.6
1093.2	75°	658.7	334.0	323.8	357.3	384.2	418.7	411.2	423.3	494.0	499.6
546.1	77.5°	416.8	259.6	253.1	274.5	311.7	349.8	361.9	499.6	843.8	877.3
283.8	80°	241.9	193.5	186.1	202.8	235.4	270.7	348.9	613.1	556.4	549.8
127.5	82.5°	134.9	133.0	123.7	128.4	157.2	195.4	493.1	431.7	350.7	361.9
51.2	85°	63.3	78.2	67.0	64.2	88.4	228.9	329.3	246.5	163.7	160.0
11.2	87.5°	16.7	14.9	14.9	16.7	37.2	197.2	131.2	105.1	62.3	60.5
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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