

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: P949285

Luminaire Tested: **GALN-SB4A-830-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949285  
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-SB4A-830-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

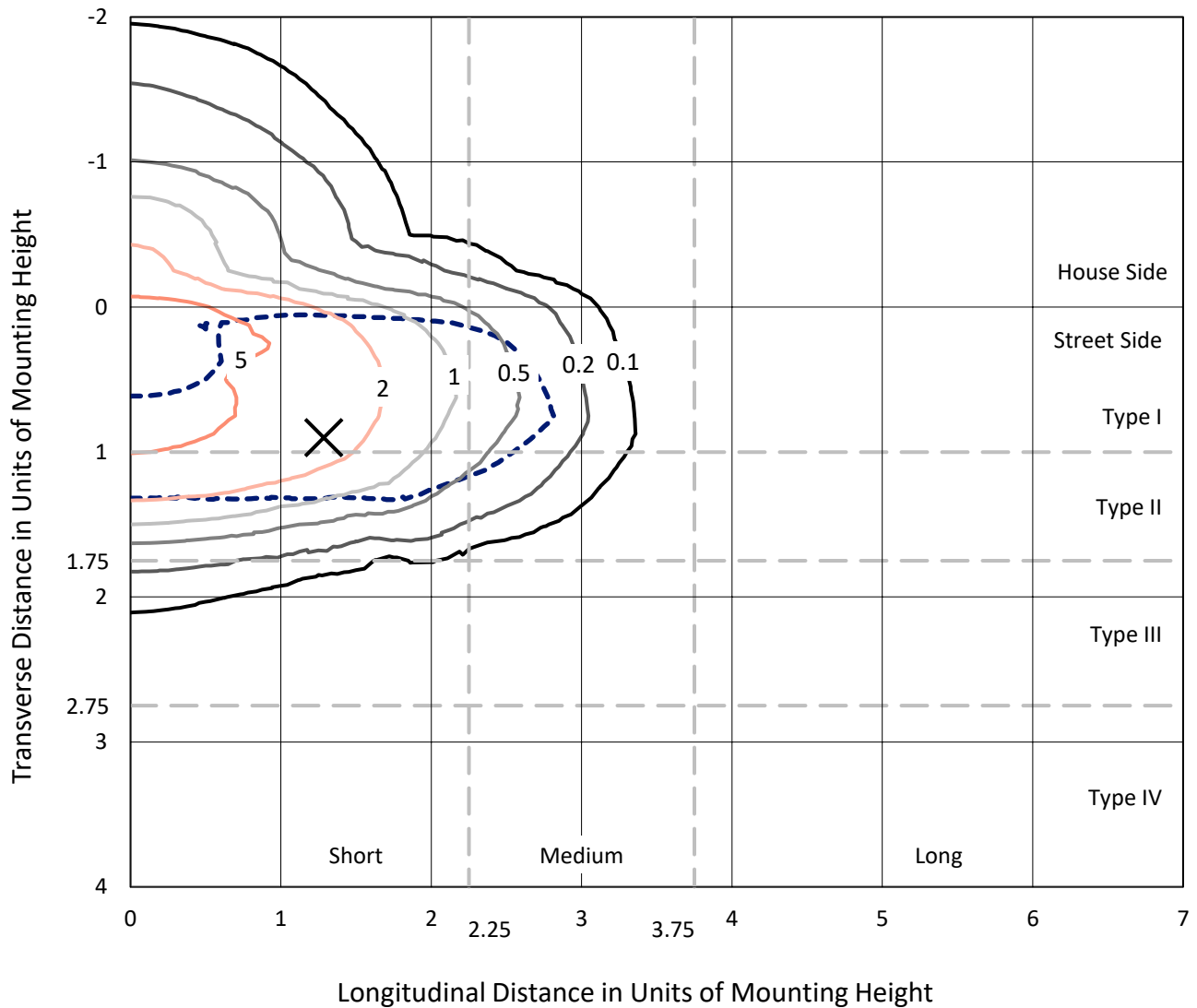
Lumens per Lamp: N/A  
Luminaire Lumens: 16429 lumens  
Efficiency: N/A  
Efficacy: 144.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

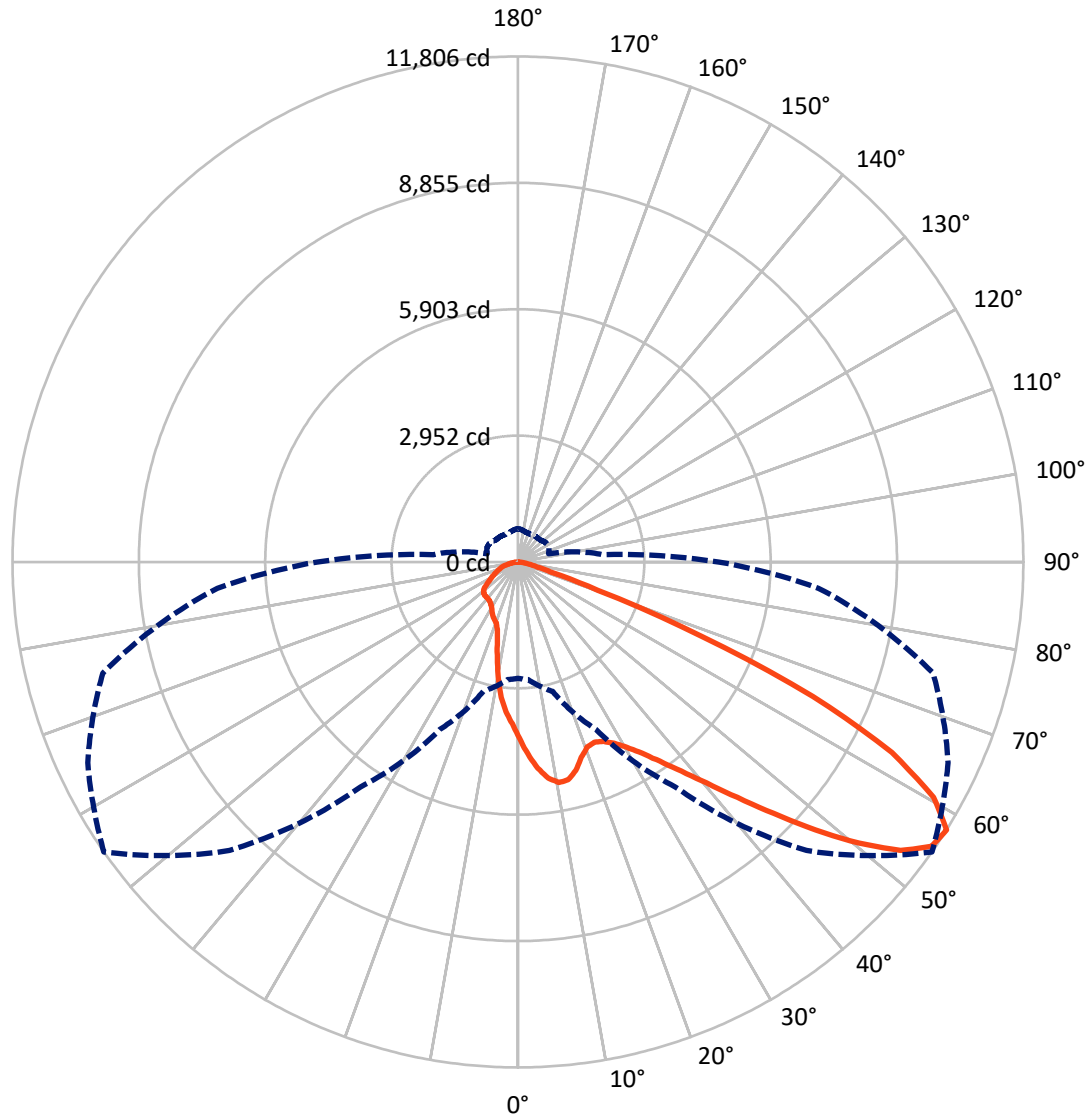
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	2972.8	0.0	2972.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	13456.3	0.0	13456.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	16429.0	0.0	16429.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.0	2.3
10°-20°	964.2	5.9
20°-30°	1538.5	9.4
30°-40°	2435.9	14.8
40°-50°	3728.4	22.7
50°-60°	3993.4	24.3
60°-70°	2512.3	15.3
70°-80°	742.9	4.5
80°-90°	131.4	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°	16429.0	100.0
0°-180°	16429.0	100.0

**Coefficient of Utilization**



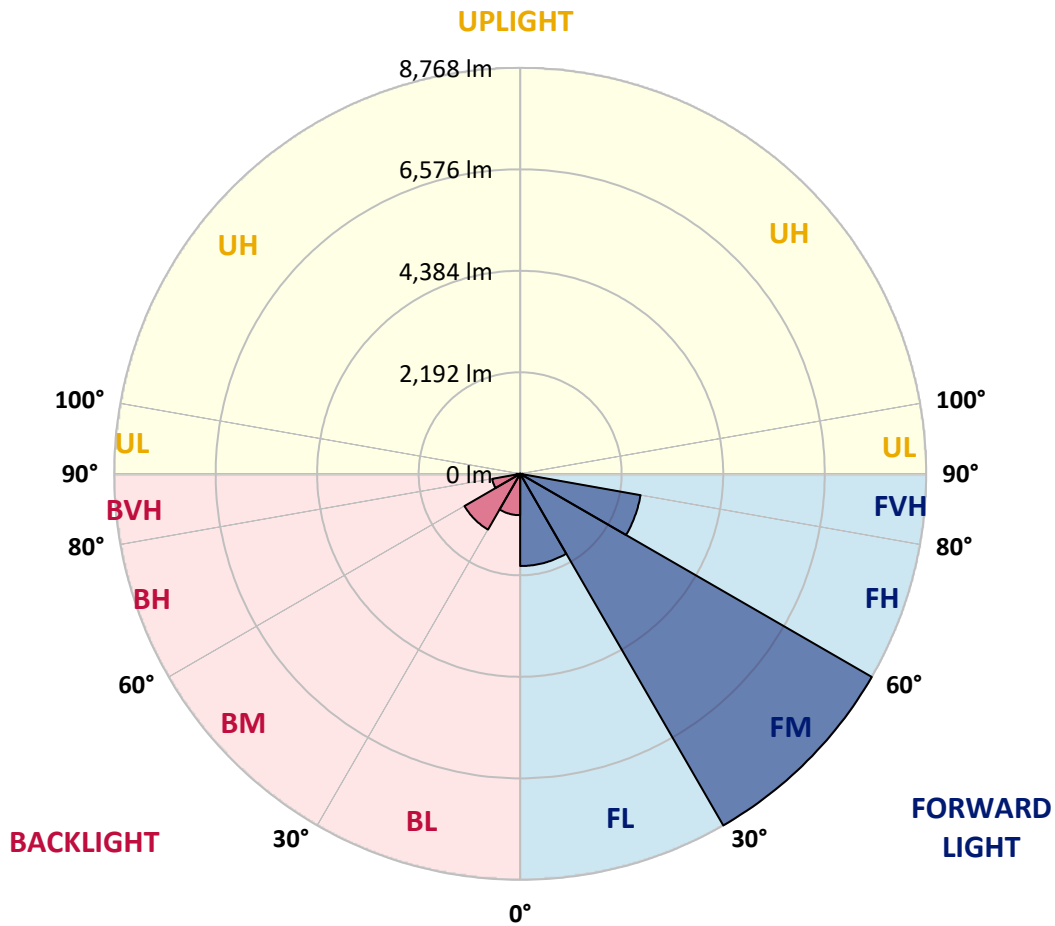
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1991.2	12.1			
FM (30°-60°)	8768.3	53.4			
FH (60°-80°)	2641.3	16.1			G2/5000
FVH (80°-90°)	55.5	0.3			G1/100
BL (0°-30°)	893.5	5.4	B2/1000		
BM (30°-60°)	1389.4	8.5	B2/2500		
BH (60°-80°)	613.9	3.7	B2/1000		G2/1000
BVH (80°-90°)	75.9	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°	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6
2.5°	4723.0	4719.6	4738.3	4674.6	4631.3	4572.7	4495.4	4396.8	4290.7	4178.6
5°	5148.5	5118.8	5138.3	5090.7	5043.2	4954.8	4840.2	4679.7	4483.5	4260.1
7.5°	5081.4	5061.0	5111.1	5153.6	5189.2	5178.2	5094.1	4926.0	4672.9	4348.4
10°	4540.4	4517.4	4587.9	4734.9	4950.6	5138.3	5240.2	5135.7	4866.5	4445.3
12.5°	4063.1	4052.0	4098.7	4217.6	4457.1	4817.2	5221.5	5319.2	5067.8	4559.9
15°	3859.2	3845.6	3875.4	3935.7	4088.5	4424.0	5051.7	5444.9	5265.7	4692.4
17.5°	3814.2	3798.9	3811.7	3843.1	3941.6	4197.3	4795.2	5506.9	5472.1	4840.2
20°	3897.5	3884.7	3886.4	3884.7	3953.5	4156.5	4616.8	5483.1	5652.1	4976.1
22.5°	4098.7	4077.5	4078.4	4033.3	4070.7	4227.8	4570.1	5419.4	5812.6	5095.0
25°	4426.6	4388.4	4396.0	4281.3	4271.1	4387.5	4643.1	5370.1	5972.3	5190.1
27.5°	4875.0	4831.7	4808.8	4638.0	4556.5	4614.3	4791.8	5387.1	6123.5	5272.5
30°	5435.5	5382.9	5336.2	5094.1	4946.3	4925.1	5022.8	5499.2	6301.8	5359.1
32.5°	6122.6	6061.5	5976.5	5655.5	5447.4	5336.2	5321.7	5698.8	6510.8	5469.5
35°	6940.5	6860.7	6740.1	6324.8	6061.5	5833.9	5715.8	5986.7	6797.0	5636.0
37.5°	7783.0	7693.0	7582.6	7088.3	6764.7	6429.2	6196.5	6377.4	7178.3	5861.9
40°	8560.1	8459.1	8356.3	7916.4	7569.0	7164.7	6785.1	6871.7	7644.6	6132.0
42.5°	9018.8	8944.0	8904.9	8667.1	8398.8	7988.5	7517.2	7457.7	8168.6	6442.8
45°	8998.4	8967.8	9088.4	9186.9	9123.2	8895.6	8375.0	8105.8	8694.3	6712.0
47.5°	8517.7	8538.0	8807.3	9361.0	9604.8	9723.7	9351.7	8741.9	9151.2	6913.3
50°	7209.7	7226.7	7850.1	9044.2	9728.8	10398.9	10320.7	9362.7	9505.4	7036.5
52.5°	6174.4	6185.5	6453.0	8104.9	9319.4	10738.6	11193.8	9947.9	9764.4	7070.5
55°	4650.8	4689.0	4988.8	6358.7	8254.4	10469.4	11725.5	10550.9	9928.4	7073.8
57.5°	2716.9	2758.5	3128.8	4316.2	6415.6	9530.9	11806.2	11086.0	10039.6	7046.7
60°	1330.9	1348.7	1510.1	2268.5	3956.1	7722.7	11157.3	11345.0	10101.6	7032.2
62.5°	896.9	894.3	901.1	1119.4	1949.2	4961.6	9805.2	10891.5	10068.5	6977.0
65°	771.2	761.8	736.3	785.6	1009.8	2269.3	7575.8	9537.7	9816.2	6838.6
67.5°	666.7	667.6	668.4	653.1	721.1	1047.2	4629.6	7512.9	8910.9	6182.9
70°	552.0	559.7	563.1	563.1	587.7	687.1	1976.3	5149.3	7028.8	4847.8
72.5°	502.8	486.7	488.3	479.9	479.9	523.2	795.8	2919.1	4428.3	2727.1
75°	410.2	420.4	422.1	416.2	396.6	399.2	472.2	1224.7	1894.8	1131.3
77.5°	354.2	354.2	357.6	353.3	338.0	299.0	315.1	474.8	644.6	463.7
80°	284.5	283.7	298.1	306.6	282.8	220.8	201.3	262.4	286.2	203.8
82.5°	138.4	146.9	204.7	233.6	214.9	159.7	123.1	163.1	152.9	90.0
85°	80.7	76.4	91.7	129.9	123.1	88.3	59.5	84.9	79.8	45.9
87.5°	25.5	23.8	18.7	44.2	35.7	24.6	16.1	24.6	22.1	10.2
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°
4116.6	0°	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6
4130.2	2.5°	4069.9	3969.6	3870.3	3779.4	3724.2	3688.5	3652.9	3612.9	3597.6	3574.7
4141.2	5°	4029.1	3835.5	3663.0	3514.4	3379.4	3273.2	3166.2	3079.6	3040.5	3066.8
4176.0	7.5°	4005.3	3725.0	3459.2	3186.6	2924.2	2714.4	2531.8	2403.5	2345.8	2360.2
4210.0	10°	3984.1	3600.2	3195.1	2764.5	2387.4	2127.5	1940.7	1843.0	1806.5	1814.1
4255.9	12.5°	3964.5	3460.1	2876.6	2310.1	1909.2	1737.7	1684.2	1685.0	1691.8	1696.9
4328.9	15°	3961.2	3291.1	2520.7	1912.6	1651.0	1640.0	1697.8	1734.3	1753.8	1759.8
4390.0	17.5°	3956.1	3088.9	2158.1	1641.7	1588.2	1662.9	1716.4	1740.2	1755.5	1756.4
4449.5	20°	3935.7	2832.4	1823.5	1512.6	1574.6	1639.2	1672.3	1691.0	1703.7	1707.9
4494.5	22.5°	3872.8	2547.1	1562.7	1454.9	1520.3	1572.1	1611.1	1632.4	1640.0	1645.1
4503.0	25°	3759.9	2227.7	1382.7	1399.7	1444.7	1510.1	1541.5	1545.7	1543.2	1550.8
4481.8	27.5°	3612.1	1885.5	1270.6	1324.9	1382.7	1438.7	1455.7	1453.2	1448.1	1456.6
4445.3	30°	3433.7	1578.0	1199.2	1240.8	1319.8	1370.8	1386.1	1380.1	1369.9	1379.3
4426.6	32.5°	3245.2	1326.6	1140.6	1182.2	1268.0	1318.1	1333.4	1327.5	1319.8	1327.5
4447.8	35°	3069.4	1150.8	1086.3	1143.2	1227.2	1276.5	1296.0	1296.9	1296.9	1306.2
4503.9	37.5°	2908.0	1048.0	1041.2	1118.5	1199.2	1243.4	1271.4	1273.1	1236.6	1239.1
4599.0	40°	2758.5	1004.7	1020.9	1102.4	1172.0	1214.5	1216.2	1121.1	1054.0	1052.3
4707.7	42.5°	2636.2	996.2	1026.8	1100.7	1152.5	1154.2	1034.5	960.6	941.9	942.7
4807.9	45°	2521.6	993.7	1040.4	1100.7	1123.6	997.1	916.4	896.9	898.6	905.4
4852.9	47.5°	2393.3	983.5	1042.9	1085.4	1040.4	886.7	862.9	854.4	851.0	852.7
4842.7	50°	2253.2	947.0	1010.7	1054.8	897.7	839.1	809.4	806.8	811.1	813.6
4785.8	52.5°	2105.4	887.5	955.5	999.6	832.3	797.5	764.4	770.3	789.0	794.9
4726.4	55°	2008.6	817.9	882.4	889.2	786.5	758.4	730.4	744.0	778.8	789.9
4690.7	57.5°	1983.1	744.0	799.2	791.6	727.9	724.5	707.5	719.4	763.5	779.7
4689.0	60°	1975.5	677.7	717.7	711.7	670.9	687.1	682.8	688.8	704.1	709.2
4672.0	62.5°	1916.0	625.1	644.6	636.1	620.0	648.0	658.2	645.5	657.4	663.3
4555.7	65°	1764.9	582.6	573.3	567.3	574.1	599.6	620.0	594.5	605.6	622.5
4107.2	67.5°	1515.2	524.9	499.4	506.2	527.4	541.0	567.3	538.5	547.8	576.7
3308.0	70°	1225.5	451.8	428.9	448.4	468.8	496.8	501.1	481.6	503.6	535.9
2018.8	72.5°	867.1	377.9	361.8	401.7	408.5	445.0	435.7	426.4	456.9	468.0
997.9	75°	601.3	304.9	295.6	326.1	350.8	382.2	375.4	386.4	451.0	456.1
498.5	77.5°	380.5	237.0	231.0	250.5	284.5	319.3	330.4	456.1	770.3	800.9
259.0	80°	220.8	176.7	169.9	185.1	214.9	247.1	318.5	559.7	507.9	501.9
116.4	82.5°	123.1	121.5	113.0	117.2	143.5	178.4	450.1	394.1	320.2	330.4
46.7	85°	57.8	71.3	61.1	58.6	80.7	208.9	300.7	225.1	149.5	146.1
10.2	87.5°	15.3	13.6	13.6	15.3	34.0	180.1	119.8	96.0	56.9	55.2
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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