

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: P947794

Luminaire Tested: **GALN-SB3A-750-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947794  
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-SB3A-750-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

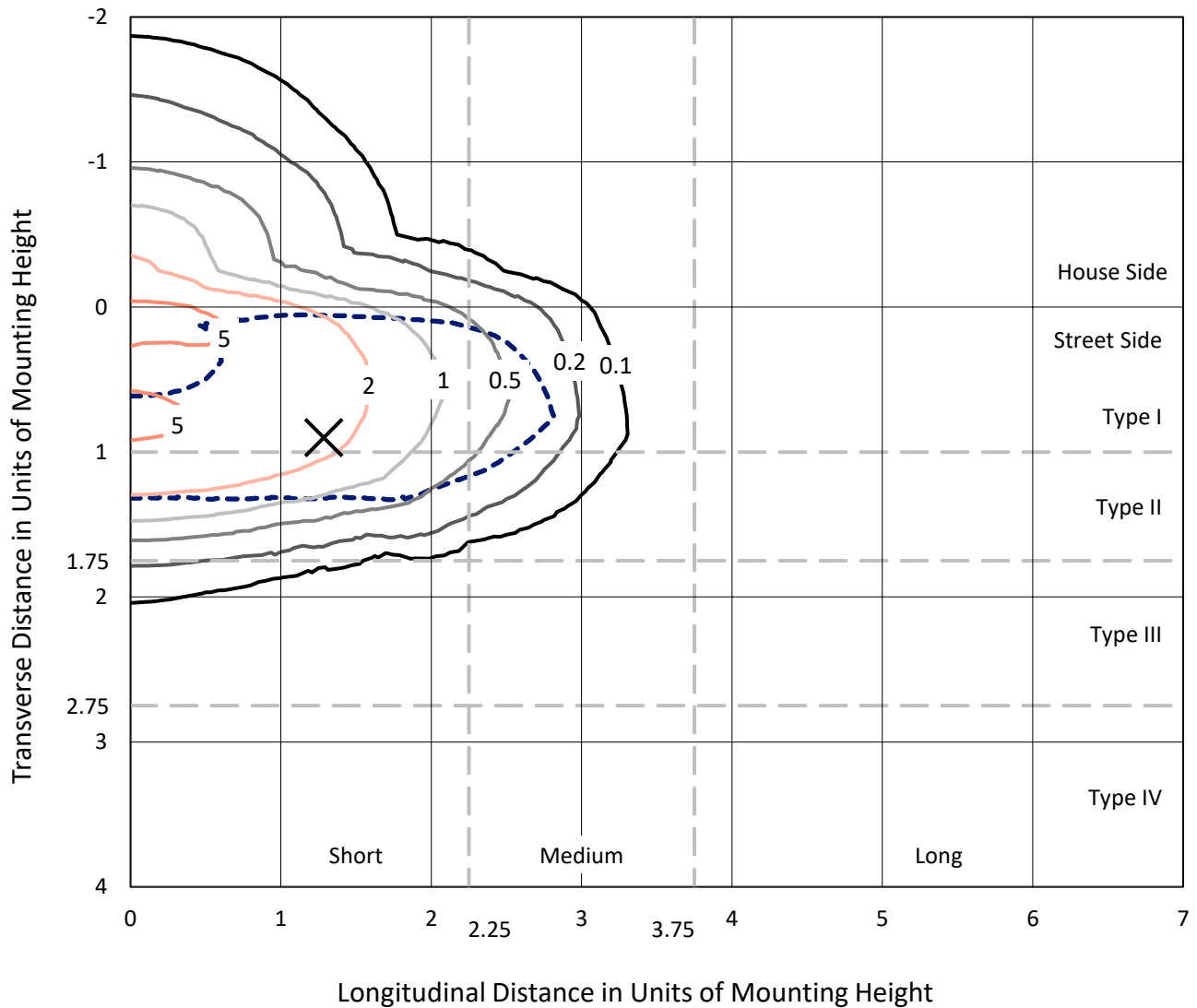
Lumens per Lamp: N/A  
Luminaire Lumens: 14482 lumens  
Efficiency: N/A  
Efficacy: 171.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

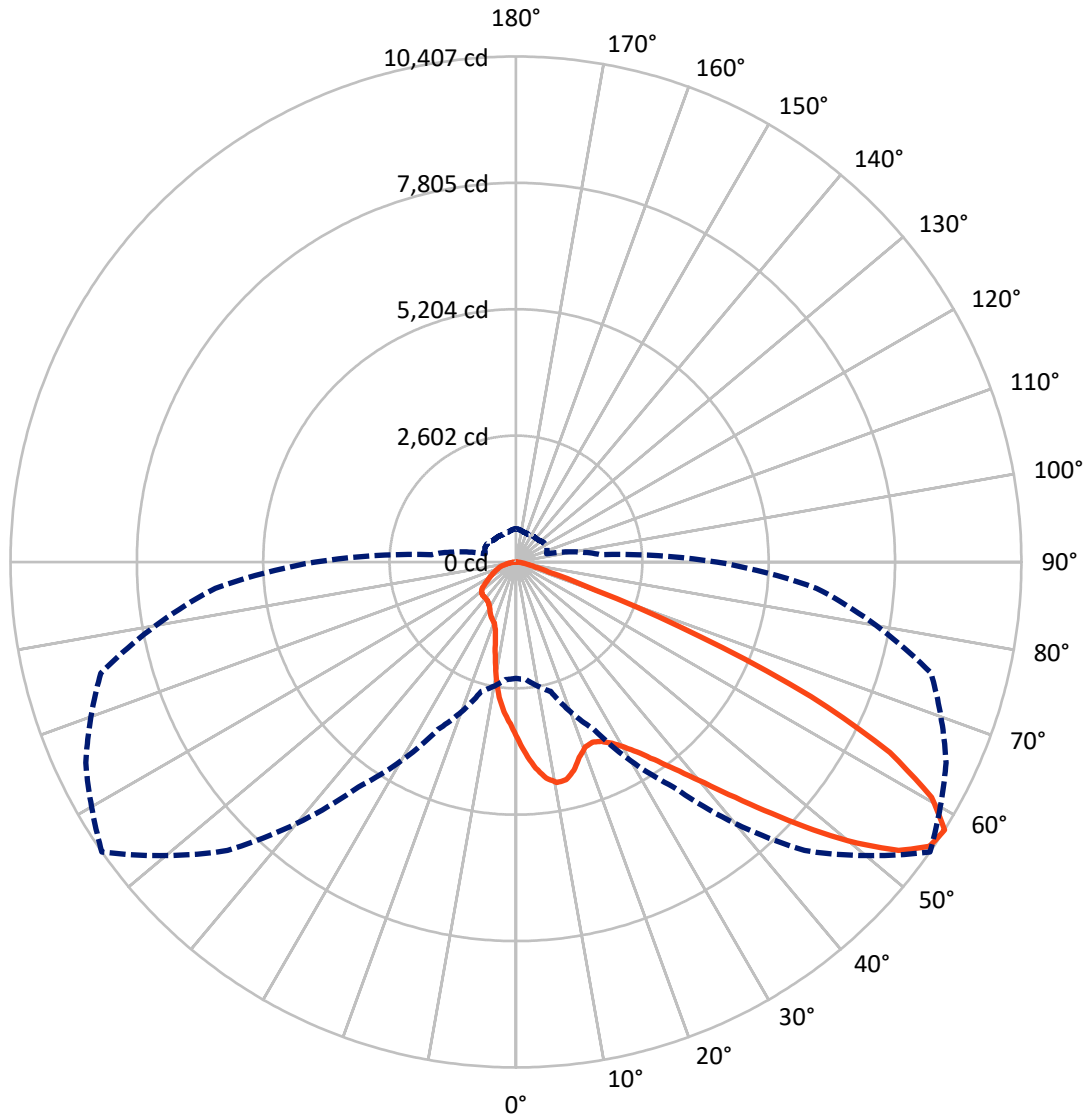
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2620.4	0.0	2620.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	11861.6	0.0	11861.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	14482.0	0.0	14482.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.7	2.3
10°-20°	849.9	5.9
20°-30°	1356.2	9.4
30°-40°	2147.2	14.8
40°-50°	3286.5	22.7
50°-60°	3520.2	24.3
60°-70°	2214.6	15.3
70°-80°	654.9	4.5
80°-90°	115.8	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°	14482.0	100.0
0°-180°	14482.0	100.0

**Coefficient of Utilization**



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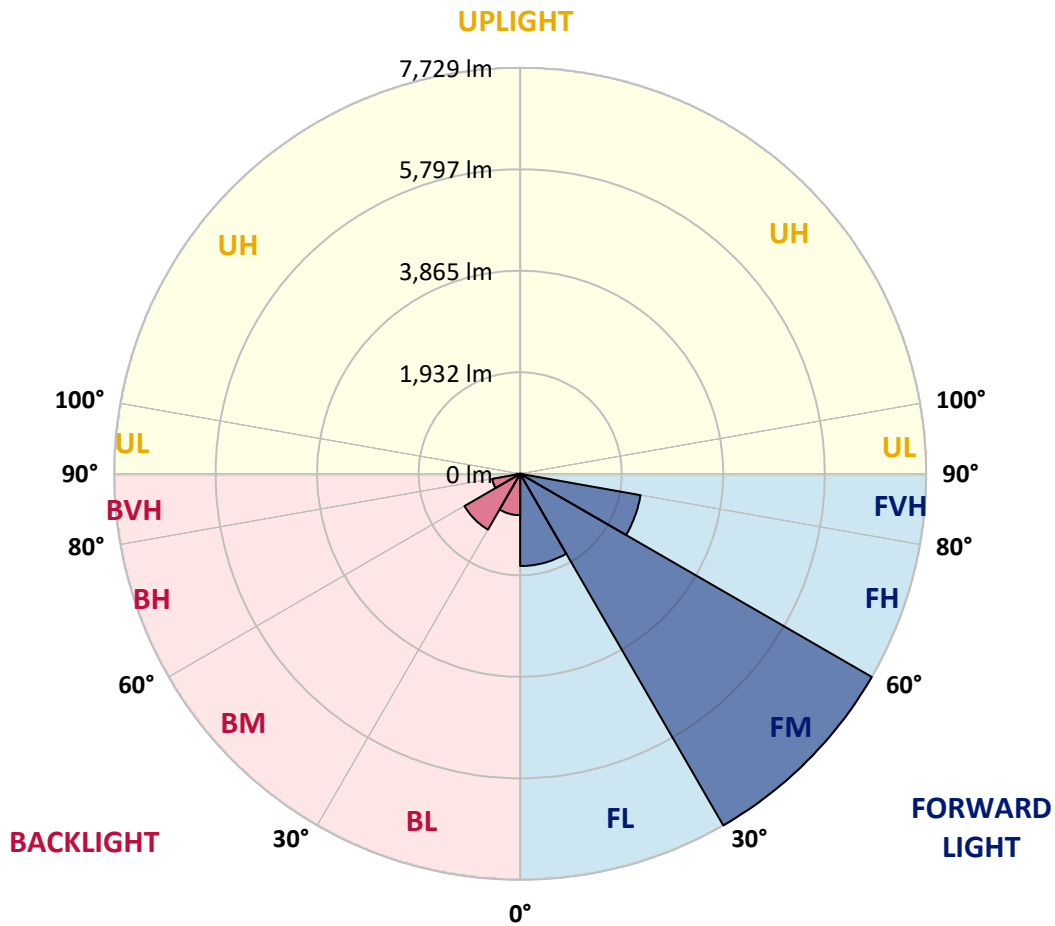
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1755.2	12.1			
FM (30°-60°)	7729.1	53.4			
FH (60°-80°)	2328.3	16.1			G2/5000
FVH (80°-90°)	48.9	0.3			G1/100
BL (0°-30°)	787.6	5.4	B2/1000		
BM (30°-60°)	1224.8	8.5	B2/2500		
BH (60°-80°)	541.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	66.9	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°	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7
2.5°	4163.3	4160.3	4176.7	4120.6	4082.4	4030.7	3962.6	3875.8	3782.2	3683.4
5°	4538.3	4512.1	4529.3	4487.4	4445.5	4367.6	4266.6	4125.1	3952.1	3755.2
7.5°	4479.2	4461.2	4505.4	4542.8	4574.3	4564.5	4490.4	4342.2	4119.1	3833.1
10°	4002.3	3982.1	4044.2	4173.7	4363.9	4529.3	4619.2	4527.1	4289.8	3918.4
12.5°	3581.6	3571.8	3613.0	3717.8	3928.9	4246.4	4602.7	4688.8	4467.2	4019.5
15°	3401.9	3389.9	3416.1	3469.3	3604.0	3899.7	4453.0	4799.6	4641.6	4136.3
17.5°	3362.2	3348.7	3360.0	3387.7	3474.5	3699.8	4226.9	4854.3	4823.6	4266.6
20°	3435.6	3424.3	3425.8	3424.3	3485.0	3663.9	4069.7	4833.3	4982.3	4386.4
22.5°	3613.0	3594.3	3595.0	3555.4	3588.3	3726.8	4028.5	4777.2	5123.8	4491.2
25°	3902.0	3868.3	3875.0	3774.0	3765.0	3867.5	4092.9	4733.7	5264.5	4575.0
27.5°	4297.3	4259.1	4238.9	4088.4	4016.5	4067.4	4223.9	4748.7	5397.8	4647.6
30°	4791.4	4745.0	4703.8	4490.4	4360.2	4341.4	4427.5	4847.5	5555.0	4724.0
32.5°	5397.0	5343.1	5268.3	4985.3	4801.9	4703.8	4691.1	5023.5	5739.2	4821.3
35°	6118.0	6047.6	5941.3	5575.2	5343.1	5142.5	5038.4	5277.3	5991.5	4968.1
37.5°	6860.7	6781.3	6684.0	6248.3	5963.0	5667.3	5462.2	5621.6	6327.6	5167.2
40°	7545.7	7456.6	7366.0	6978.2	6672.0	6315.6	5981.0	6057.3	6738.6	5405.3
42.5°	7949.9	7884.1	7849.6	7640.0	7403.4	7041.8	6626.3	6573.9	7200.5	5679.3
45°	7932.0	7905.0	8011.3	8098.2	8042.0	7841.4	7382.5	7145.1	7664.0	5916.6
47.5°	7508.2	7526.2	7763.5	8251.6	8466.5	8571.3	8243.4	7705.9	8066.7	6094.0
50°	6355.3	6370.3	6919.8	7972.4	8575.8	9166.5	9097.6	8253.1	8378.9	6202.6
52.5°	5442.7	5452.4	5688.3	7144.4	8215.0	9466.0	9867.2	8769.0	8607.3	6232.5
55°	4099.6	4133.3	4397.6	5605.2	7276.2	9228.6	10335.9	9300.5	8751.7	6235.5
57.5°	2394.9	2431.6	2758.0	3804.7	5655.3	8401.4	10407.0	9772.2	8849.8	6211.6
60°	1173.1	1188.9	1331.1	1999.7	3487.2	6807.5	9835.0	10000.5	8904.5	6198.8
62.5°	790.6	788.3	794.3	986.7	1718.2	4373.6	8643.2	9600.7	8875.3	6150.2
65°	679.8	671.5	649.1	692.5	890.1	2000.4	6678.0	8407.4	8652.9	6028.2
67.5°	587.7	588.4	589.2	575.7	635.6	923.1	4080.9	6622.6	7854.9	5450.2
70°	486.6	493.4	496.4	496.4	518.1	605.7	1742.1	4539.1	6195.8	4273.3
72.5°	443.2	429.0	430.5	423.0	423.0	461.2	701.5	2573.1	3903.5	2403.9
75°	361.6	370.6	372.1	366.8	349.6	351.9	416.3	1079.6	1670.2	997.2
77.5°	312.2	312.2	315.2	311.4	298.0	263.5	277.8	418.5	568.2	408.8
80°	250.8	250.0	262.8	270.3	249.3	194.6	177.4	231.3	252.3	179.7
82.5°	122.0	129.5	180.4	205.9	189.4	140.7	108.6	143.7	134.8	79.4
85°	71.1	67.4	80.9	114.5	108.6	77.9	52.4	74.9	70.4	40.4
87.5°	22.5	21.0	16.5	38.9	31.4	21.7	14.2	21.7	19.5	9.0
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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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3628.7	0°	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7
3640.7	2.5°	3587.5	3499.2	3411.6	3331.5	3282.8	3251.4	3220.0	3184.8	3171.3	3151.1
3650.4	5°	3551.6	3380.9	3228.9	3097.9	2978.9	2885.3	2791.0	2714.6	2680.2	2703.4
3681.1	7.5°	3530.6	3283.6	3049.3	2808.9	2577.6	2392.7	2231.7	2118.7	2067.8	2080.5
3711.1	10°	3511.9	3173.5	2816.4	2436.9	2104.5	1875.4	1710.7	1624.6	1592.4	1599.1
3751.5	12.5°	3494.7	3050.0	2535.7	2036.3	1683.0	1531.7	1484.6	1485.3	1491.3	1495.8
3815.9	15°	3491.7	2901.0	2222.0	1686.0	1455.4	1445.6	1496.6	1528.7	1546.0	1551.2
3869.8	17.5°	3487.2	2722.8	1902.3	1447.1	1400.0	1465.9	1513.0	1534.0	1547.5	1548.2
3922.2	20°	3469.3	2496.8	1607.4	1333.4	1388.0	1444.9	1474.1	1490.6	1501.8	1505.5
3961.9	22.5°	3413.9	2245.2	1377.5	1282.4	1340.1	1385.8	1420.2	1438.9	1445.6	1450.1
3969.4	25°	3314.3	1963.7	1218.8	1233.8	1273.5	1331.1	1358.8	1362.5	1360.3	1367.0
3950.6	27.5°	3184.0	1662.0	1120.0	1167.9	1218.8	1268.2	1283.2	1280.9	1276.5	1283.9
3918.4	30°	3026.8	1391.0	1057.1	1093.8	1163.4	1208.3	1221.8	1216.6	1207.6	1215.8
3902.0	32.5°	2860.6	1169.4	1005.4	1042.1	1117.7	1161.9	1175.4	1170.1	1163.4	1170.1
3920.7	35°	2705.6	1014.4	957.5	1007.7	1081.8	1125.2	1142.4	1143.2	1143.2	1151.4
3970.1	37.5°	2563.4	923.8	917.8	986.0	1057.1	1096.0	1120.7	1122.2	1090.0	1092.3
4054.0	40°	2431.6	885.7	899.9	971.8	1033.1	1070.6	1072.1	988.2	929.1	927.6
4149.8	42.5°	2323.8	878.2	905.1	970.3	1015.9	1017.4	911.9	846.7	830.3	831.0
4238.1	45°	2222.7	875.9	917.1	970.3	990.5	878.9	807.8	790.6	792.1	798.1
4277.8	47.5°	2109.7	866.9	919.3	956.8	917.1	781.6	760.6	753.1	750.1	751.6
4268.8	50°	1986.2	834.7	890.9	929.8	791.3	739.7	713.5	711.2	715.0	717.2
4218.7	52.5°	1855.9	782.3	842.2	881.2	733.7	703.0	673.8	679.0	695.5	700.7
4166.3	55°	1770.6	721.0	777.9	783.8	693.3	668.5	643.8	655.8	686.5	696.2
4134.8	57.5°	1748.1	655.8	704.5	697.7	641.6	638.6	623.6	634.1	673.0	687.3
4133.3	60°	1741.4	597.4	632.6	627.4	591.4	605.7	601.9	607.2	620.6	625.1
4118.3	62.5°	1689.0	551.0	568.2	560.7	546.5	571.2	580.2	569.0	579.5	584.7
4015.8	65°	1555.7	513.6	505.3	500.1	506.1	528.5	546.5	524.1	533.8	548.8
3620.5	67.5°	1335.6	462.7	440.2	446.2	464.9	476.9	500.1	474.6	482.9	508.3
2916.0	70°	1080.3	398.3	378.1	395.3	413.3	438.0	441.7	424.5	444.0	472.4
1779.5	72.5°	764.4	333.2	318.9	354.1	360.1	392.3	384.1	375.8	402.8	412.5
879.7	75°	530.0	268.8	260.5	287.5	309.2	336.9	330.9	340.6	397.5	402.0
439.5	77.5°	335.4	208.9	203.6	220.9	250.8	281.5	291.2	402.0	679.0	706.0
228.3	80°	194.6	155.7	149.7	163.2	189.4	217.9	280.7	493.4	447.7	442.5
102.6	82.5°	108.6	107.1	99.6	103.3	126.5	157.2	396.8	347.4	282.2	291.2
41.2	85°	50.9	62.9	53.9	51.7	71.1	184.2	265.0	198.4	131.8	128.8
9.0	87.5°	13.5	12.0	12.0	13.5	29.9	158.7	105.6	84.6	50.2	48.7
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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