

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: P948277

Luminaire Tested: **GALN-SB3B-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948277
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-SB3B-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16436 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

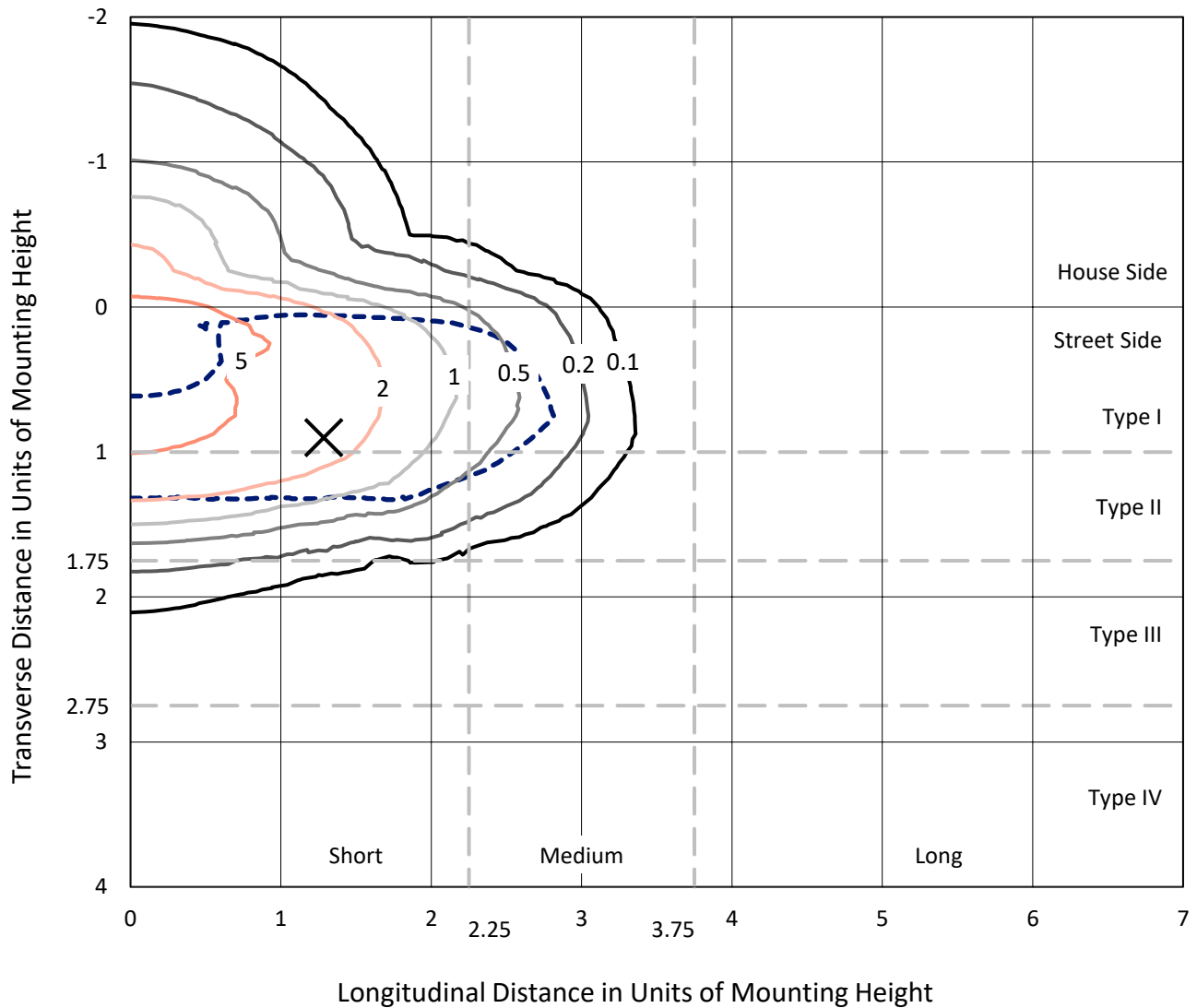
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

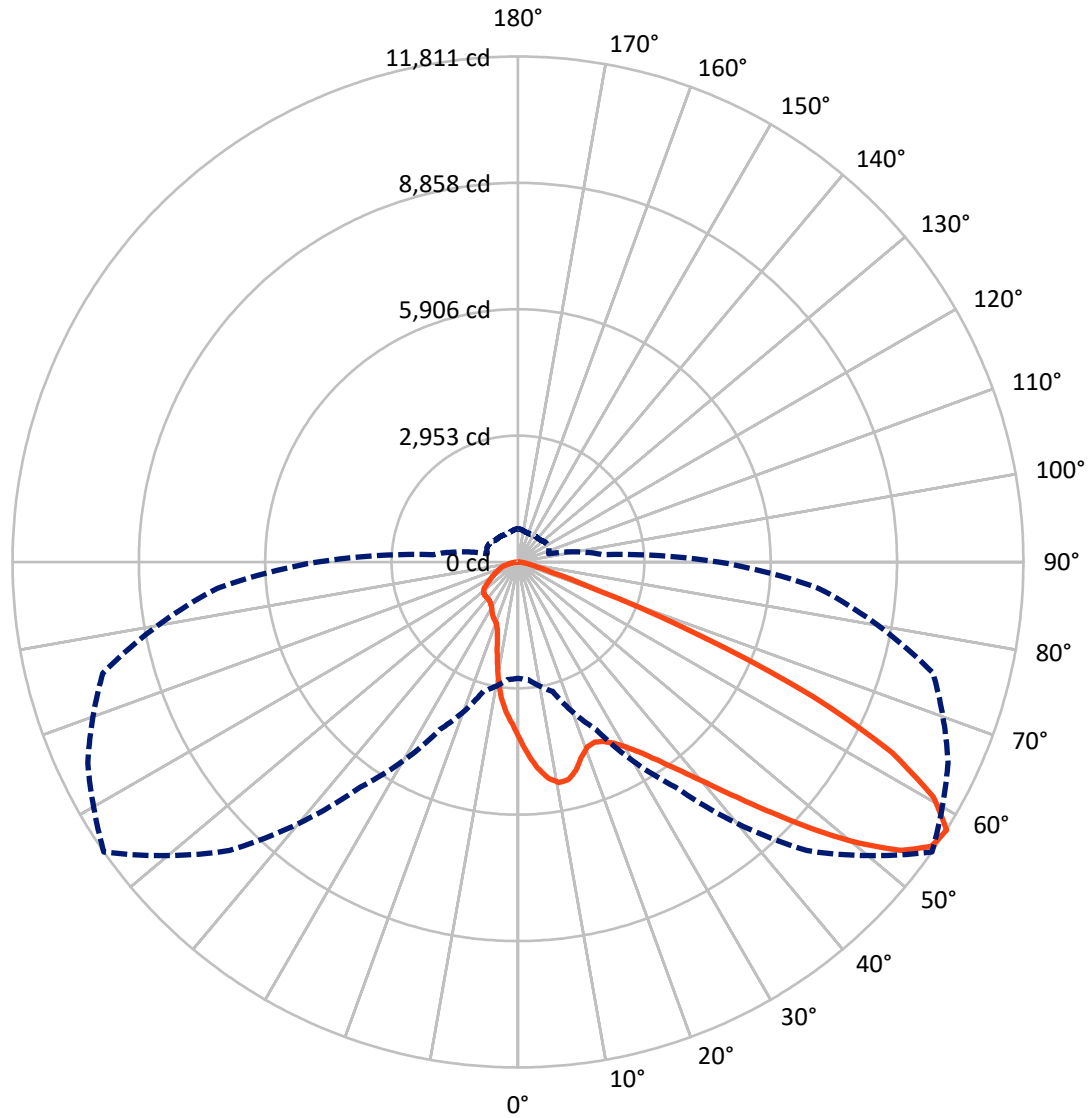
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	2974.0	0.0	2974.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13462.0	0.0	13462.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	16436.0	0.0	16436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.2	2.3
10°-20°	964.6	5.9
20°-30°	1539.2	9.4
30°-40°	2436.9	14.8
40°-50°	3730.0	22.7
50°-60°	3995.1	24.3
60°-70°	2513.4	15.3
70°-80°	743.3	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°	16436.0	100.0
0°-180°	16436.0	100.0

Coefficient of Utilization



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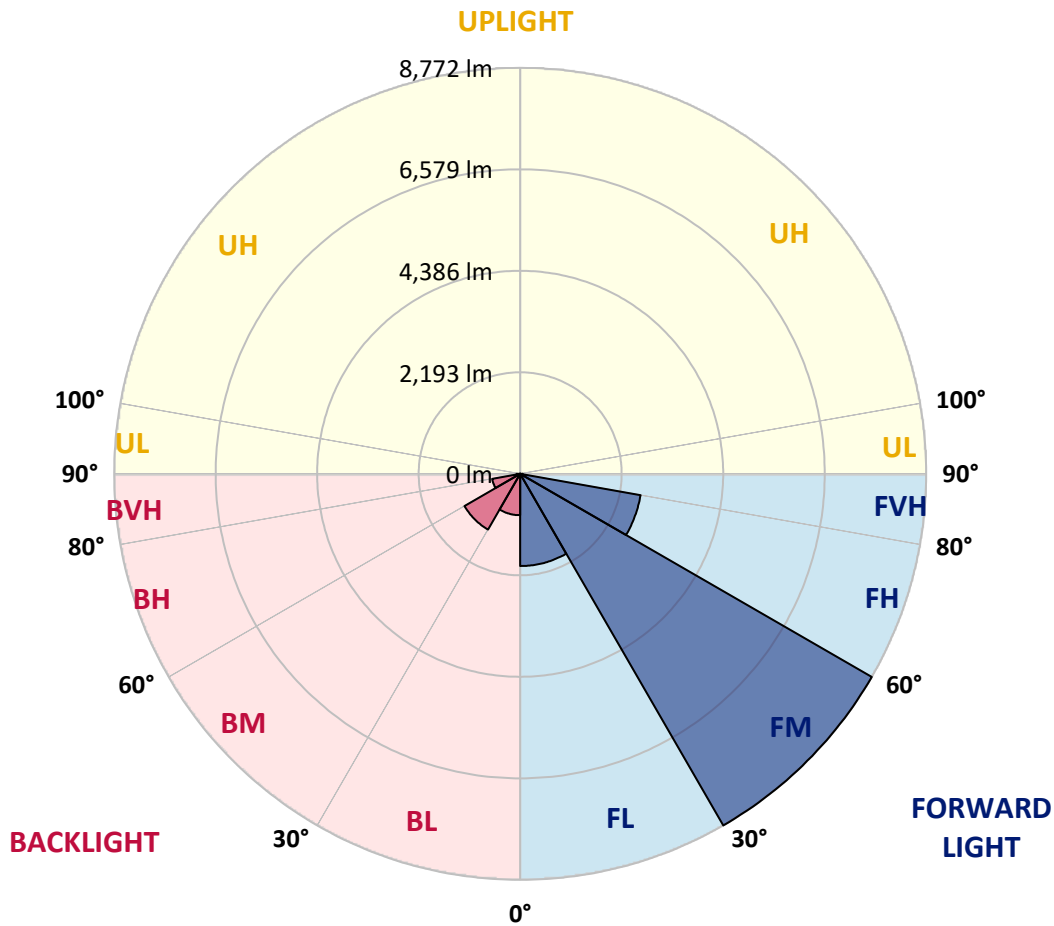
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1992.0	12.1			
FM (30°-60°)	8772.0	53.4			
FH (60°-80°)	2642.4	16.1			G2/5000
FVH (80°-90°)	55.5	0.3			G1/100
BL (0°-30°)	893.9	5.4	B2/1000		
BM (30°-60°)	1390.0	8.5	B2/2500		
BH (60°-80°)	614.2	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°	4118.3	4118.3	4118.3	4118.3	4118.3	4118.3	4118.3	4118.3	4118.3	4118.3
2.5°	4725.0	4721.6	4740.3	4676.6	4633.2	4574.6	4497.3	4398.7	4292.5	4180.4
5°	5150.7	5120.9	5140.5	5092.9	5045.3	4956.9	4842.2	4681.7	4485.4	4261.9
7.5°	5083.5	5063.2	5113.3	5155.8	5191.5	5180.4	5096.3	4928.1	4674.9	4350.3
10°	4542.3	4519.4	4589.9	4736.9	4952.7	5140.5	5242.4	5137.9	4868.6	4447.1
12.5°	4064.8	4053.8	4100.5	4219.4	4459.0	4819.3	5223.7	5321.5	5070.0	4561.9
15°	3860.9	3847.3	3877.0	3937.3	4090.3	4425.9	5053.8	5447.2	5267.9	4694.4
17.5°	3815.8	3800.6	3813.3	3844.7	3943.3	4199.0	4797.2	5509.2	5474.4	4842.2
20°	3899.1	3886.4	3888.1	3886.4	3955.2	4158.3	4618.8	5485.4	5654.5	4978.2
22.5°	4100.5	4079.2	4080.1	4035.1	4072.4	4229.6	4572.0	5421.7	5815.1	5097.1
25°	4428.5	4390.2	4397.9	4283.2	4273.0	4389.4	4645.1	5372.4	5974.8	5192.3
27.5°	4877.1	4833.7	4810.8	4640.0	4558.5	4616.2	4793.8	5389.4	6126.1	5274.7
30°	5437.9	5385.2	5338.4	5096.3	4948.5	4927.2	5024.9	5501.6	6304.5	5361.4
32.5°	6125.2	6064.1	5979.1	5657.9	5449.8	5338.4	5324.0	5701.3	6513.5	5471.8
35°	6943.5	6863.6	6742.9	6327.5	6064.1	5836.4	5718.2	5989.3	6799.9	5638.4
37.5°	7786.3	7696.3	7585.8	7091.3	6767.6	6432.0	6199.2	6380.1	7181.4	5864.4
40°	8563.8	8462.7	8359.9	7919.7	7572.2	7167.8	6788.0	6874.6	7647.8	6134.6
42.5°	9022.6	8947.8	8908.7	8670.8	8402.3	7992.0	7520.4	7460.9	8172.1	6445.6
45°	9002.2	8971.6	9092.3	9190.8	9127.1	8899.4	8378.6	8109.2	8698.0	6714.9
47.5°	8521.3	8541.7	8811.0	9365.0	9608.9	9727.8	9355.7	8745.6	9155.1	6916.3
50°	7212.8	7229.8	7853.5	9048.1	9732.9	10403.3	10325.1	9366.7	9509.5	7039.5
52.5°	6177.1	6188.1	6455.8	8108.4	9323.4	10743.2	11198.6	9952.1	9768.6	7073.5
55°	4652.8	4691.0	4990.9	6361.4	8257.9	10473.8	11730.5	10555.4	9932.6	7076.9
57.5°	2718.1	2759.7	3130.2	4318.0	6418.4	9534.9	11811.2	11090.7	10043.9	7049.7
60°	1331.4	1349.3	1510.7	2269.5	3957.7	7726.0	11162.1	11349.8	10105.9	7035.2
62.5°	897.2	894.7	901.5	1119.9	1950.0	4963.7	9809.4	10896.1	10072.8	6980.0
65°	771.5	762.1	736.7	785.9	1010.3	2270.3	7579.0	9541.7	9820.4	6841.5
67.5°	667.0	667.8	668.7	653.4	721.4	1047.6	4631.5	7516.1	8914.7	6185.6
70°	552.3	559.9	563.3	563.3	588.0	687.4	1977.2	5151.5	7031.8	4849.9
72.5°	503.0	486.9	488.6	480.1	480.1	523.4	796.1	2920.3	4430.2	2728.3
75°	410.4	420.6	422.3	416.3	396.8	399.3	472.4	1225.2	1895.6	1131.8
77.5°	354.3	354.3	357.7	353.5	338.2	299.1	315.2	475.0	644.9	463.9
80°	284.6	283.8	298.2	306.7	282.9	220.9	201.4	262.5	286.3	203.9
82.5°	138.5	147.0	204.8	233.7	215.0	159.7	123.2	163.1	152.9	90.1
85°	80.7	76.5	91.8	130.0	123.2	88.4	59.5	85.0	79.9	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°
4118.3	0°	4118.3	4118.3	4118.3	4118.3	4118.3	4118.3	4118.3	4118.3	4118.3	4118.3
4131.9	2.5°	4071.6	3971.3	3871.9	3781.0	3725.8	3690.1	3654.4	3614.5	3599.2	3576.2
4143.0	5°	4030.8	3837.1	3664.6	3515.9	3380.8	3274.6	3167.6	3080.9	3041.8	3068.1
4177.8	7.5°	4007.0	3726.6	3460.7	3187.9	2925.4	2715.5	2532.9	2404.6	2346.8	2361.2
4211.8	10°	3985.8	3601.7	3196.4	2765.7	2388.4	2128.4	1941.5	1843.8	1807.2	1814.9
4257.7	12.5°	3966.2	3461.5	2877.8	2311.1	1910.0	1738.4	1684.9	1685.7	1692.5	1697.6
4330.7	15°	3962.8	3292.5	2521.8	1913.4	1651.7	1640.7	1698.5	1735.0	1754.6	1760.5
4391.9	17.5°	3957.7	3090.2	2159.0	1642.4	1588.9	1663.6	1717.2	1741.0	1756.3	1757.1
4451.4	20°	3937.3	2833.6	1824.2	1513.3	1575.3	1639.9	1673.0	1691.7	1704.4	1708.7
4496.4	22.5°	3874.5	2548.1	1563.4	1455.5	1520.9	1572.7	1611.8	1633.1	1640.7	1645.8
4504.9	25°	3761.5	2228.7	1383.3	1400.2	1445.3	1510.7	1542.1	1546.4	1543.8	1551.5
4483.7	27.5°	3613.6	1886.3	1271.1	1325.5	1383.3	1439.3	1456.3	1453.8	1448.7	1457.2
4447.1	30°	3435.2	1578.7	1199.7	1241.4	1320.4	1371.4	1386.7	1380.7	1370.5	1379.9
4428.5	32.5°	3246.6	1327.2	1141.1	1182.7	1268.6	1318.7	1334.0	1328.0	1320.4	1328.0
4449.7	35°	3070.7	1151.3	1086.7	1143.6	1227.8	1277.0	1296.6	1297.4	1297.4	1306.8
4505.8	37.5°	2909.3	1048.5	1041.7	1119.0	1199.7	1243.9	1271.9	1273.6	1237.1	1239.7
4600.9	40°	2759.7	1005.2	1021.3	1102.9	1172.5	1215.0	1216.7	1121.6	1054.4	1052.7
4709.7	42.5°	2637.4	996.7	1027.2	1101.2	1153.0	1154.7	1034.9	961.0	942.3	943.1
4810.0	45°	2522.7	994.1	1040.8	1101.2	1124.1	997.5	916.8	897.2	898.9	905.7
4855.0	47.5°	2394.4	983.9	1043.4	1085.9	1040.8	887.1	863.3	854.8	851.4	853.1
4844.8	50°	2254.2	947.4	1011.1	1055.3	898.1	839.5	809.7	807.2	811.4	814.0
4787.9	52.5°	2106.3	887.9	955.9	1000.1	832.7	797.8	764.7	770.6	789.3	795.3
4728.4	55°	2009.5	818.2	882.8	889.6	786.8	758.8	730.7	744.3	779.1	790.2
4692.7	57.5°	1984.0	744.3	799.5	791.9	728.2	724.8	707.8	719.7	763.8	780.0
4691.0	60°	1976.3	678.0	718.0	712.0	671.2	687.4	683.1	689.1	704.4	709.5
4674.0	62.5°	1916.8	625.4	644.9	636.4	620.3	648.3	658.5	645.7	657.6	663.6
4557.6	65°	1765.6	582.9	573.5	567.6	574.4	599.9	620.3	594.8	605.8	622.8
4109.0	67.5°	1515.8	525.1	499.6	506.4	527.6	541.2	567.6	538.7	548.0	576.9
3309.4	70°	1226.1	452.0	429.1	448.6	469.0	497.1	501.3	481.8	503.9	536.1
2019.7	72.5°	867.5	378.1	362.0	401.9	408.7	445.2	435.9	426.5	457.1	468.2
998.4	75°	601.6	305.0	295.7	326.3	350.9	382.3	375.6	386.6	451.2	456.3
498.8	77.5°	380.7	237.1	231.1	250.7	284.6	319.5	330.5	456.3	770.6	801.2
259.1	80°	220.9	176.7	169.9	185.2	215.0	247.3	318.6	559.9	508.1	502.2
116.4	82.5°	123.2	121.5	113.0	117.3	143.6	178.4	450.3	394.2	320.3	330.5
46.7	85°	57.8	71.4	61.2	58.6	80.7	209.0	300.8	225.2	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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