

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: P948214

Luminaire Tested: **GALN-SB3B-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948214
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-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15440 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

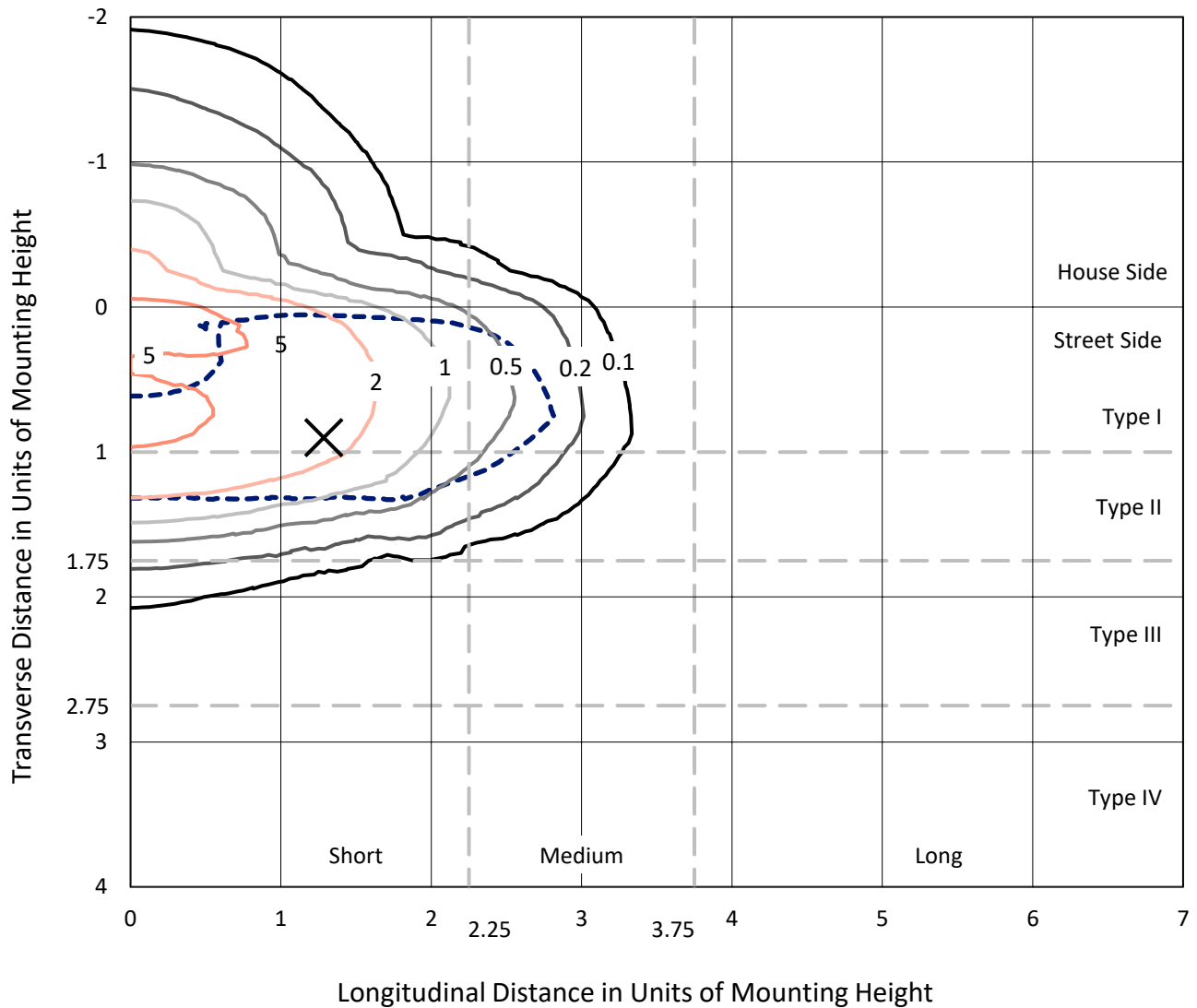
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

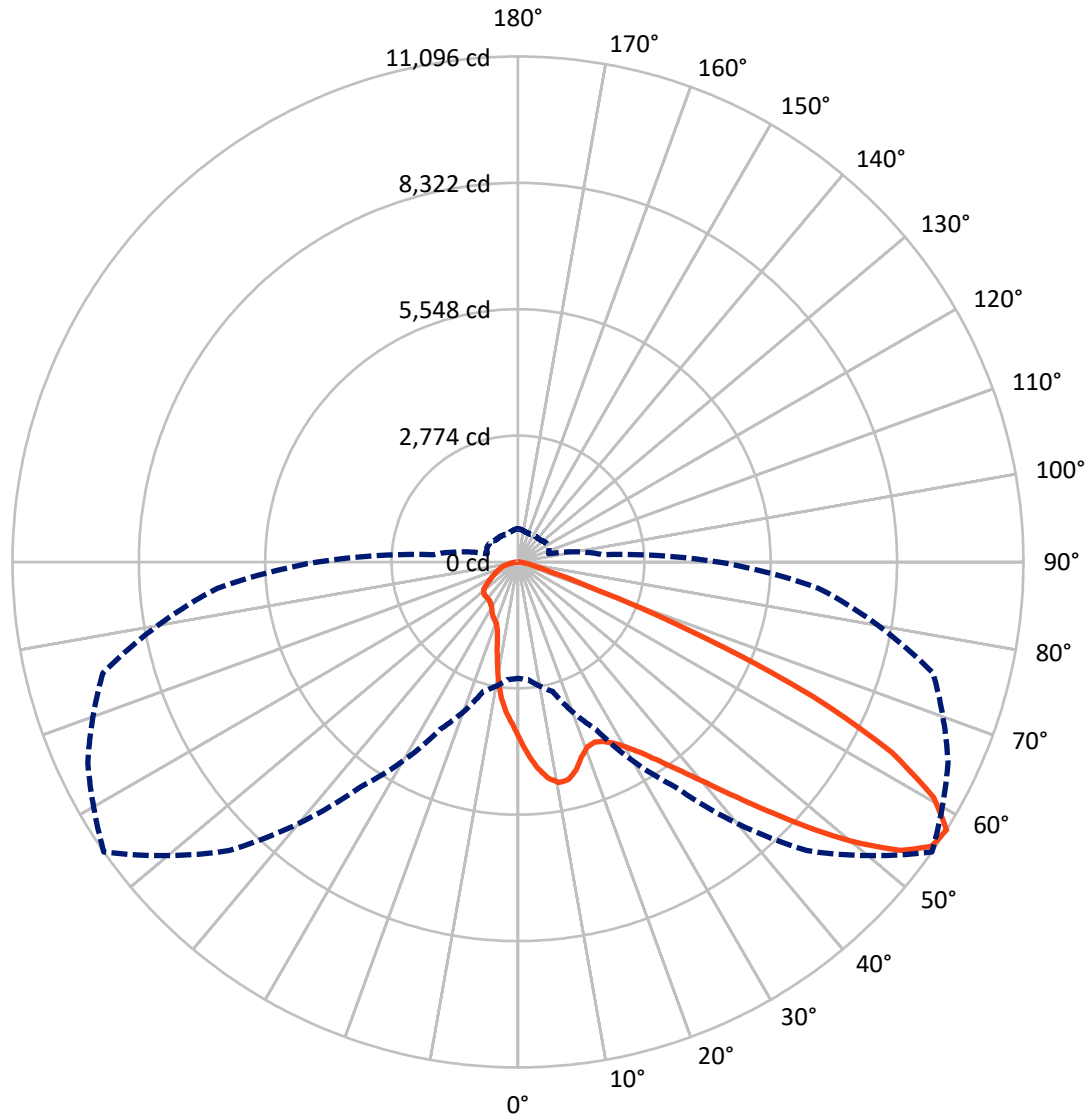
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	2793.8	0.0	2793.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12646.2	0.0	12646.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	15440.0	0.0	15440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.0	2.3
10°-20°	906.1	5.9
20°-30°	1445.9	9.4
30°-40°	2289.3	14.8
40°-50°	3503.9	22.7
50°-60°	3753.0	24.3
60°-70°	2361.1	15.3
70°-80°	698.2	4.5
80°-90°	123.5	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°	15440.0	100.0
0°-180°	15440.0	100.0

Coefficient of Utilization



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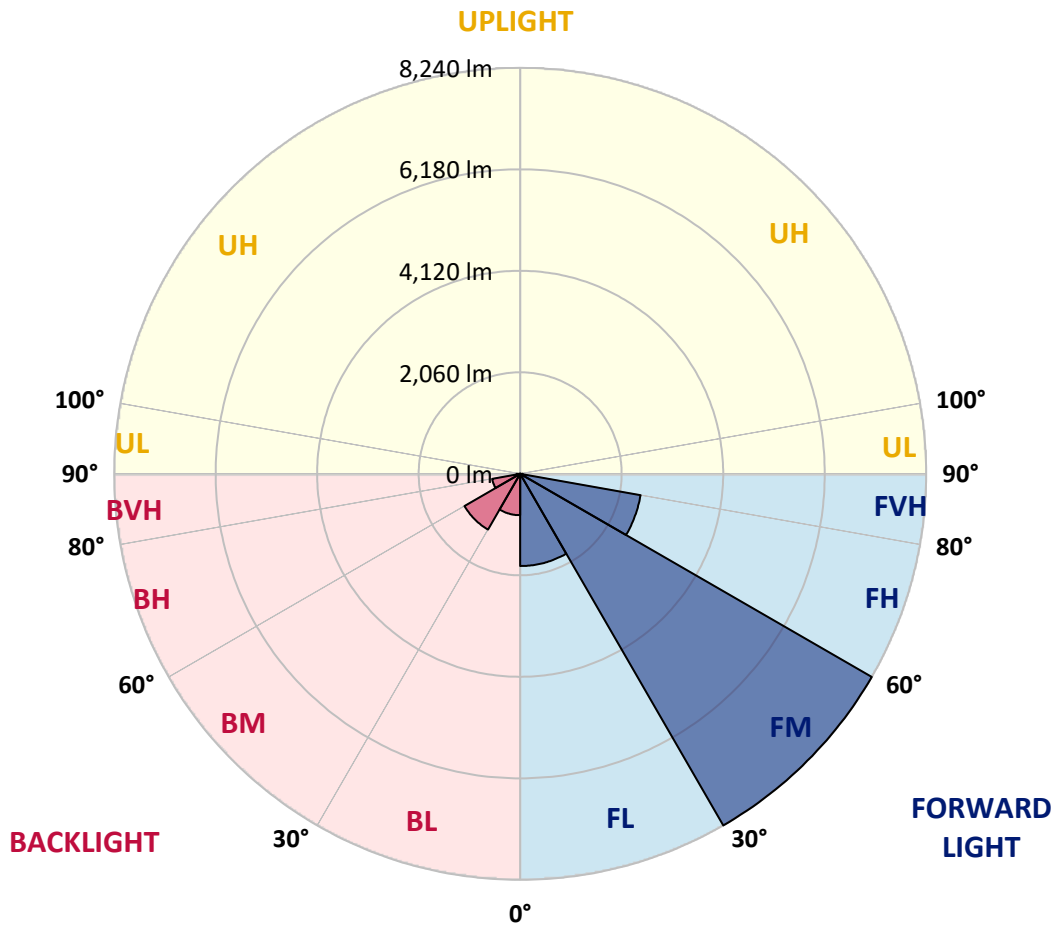
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1871.3	12.1			
FM (30°-60°)	8240.4	53.4			
FH (60°-80°)	2482.3	16.1			G2/5000
FVH (80°-90°)	52.2	0.3			G1/100
BL (0°-30°)	839.7	5.4	B2/1000		
BM (30°-60°)	1305.8	8.5	B2/2500		
BH (60°-80°)	577.0	3.7	B2/1000		G2/1000
BVH (80°-90°)	71.3	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°	3868.8	3868.8	3868.8	3868.8	3868.8	3868.8	3868.8	3868.8	3868.8	3868.8
2.5°	4438.7	4435.5	4453.0	4393.2	4352.5	4297.4	4224.7	4132.2	4032.4	3927.0
5°	4838.5	4810.6	4829.0	4784.3	4739.6	4656.6	4548.8	4398.0	4213.6	4003.7
7.5°	4775.5	4756.3	4803.4	4843.3	4876.9	4866.5	4787.5	4629.4	4391.6	4086.7
10°	4267.1	4245.5	4311.8	4449.8	4652.6	4829.0	4924.8	4826.6	4573.6	4177.7
12.5°	3818.5	3808.1	3852.0	3963.7	4188.8	4527.3	4907.2	4999.0	4762.7	4285.4
15°	3626.9	3614.1	3642.1	3698.8	3842.4	4157.7	4747.6	5117.1	4948.7	4409.9
17.5°	3584.6	3570.2	3582.2	3611.7	3704.3	3944.6	4506.5	5175.4	5142.7	4548.8
20°	3662.8	3650.9	3652.5	3650.9	3715.5	3906.3	4338.9	5153.0	5311.9	4676.5
22.5°	3852.0	3832.0	3832.8	3790.5	3825.7	3973.3	4295.0	5093.2	5462.7	4788.3
25°	4160.1	4124.2	4131.4	4023.6	4014.0	4123.4	4363.6	5046.9	5612.8	4877.7
27.5°	4581.5	4540.8	4519.3	4358.8	4282.2	4336.5	4503.3	5062.8	5754.9	4955.1
30°	5108.3	5058.8	5014.9	4787.5	4648.6	4628.6	4720.4	5168.2	5922.5	5036.5
32.5°	5754.1	5696.6	5616.8	5315.1	5119.5	5014.9	5001.4	5355.8	6118.8	5140.3
35°	6522.7	6447.7	6334.3	5944.0	5696.6	5482.7	5371.7	5626.3	6387.8	5296.7
37.5°	7314.5	7229.9	7126.1	6661.6	6357.5	6042.2	5823.5	5993.5	6746.2	5509.0
40°	8044.8	7949.8	7853.3	7439.8	7113.4	6733.4	6376.6	6458.0	7184.4	5762.8
42.5°	8475.8	8405.6	8368.9	8145.4	7893.2	7507.7	7064.7	7008.8	7676.9	6055.0
45°	8456.7	8427.9	8541.3	8633.9	8574.0	8360.1	7870.8	7617.8	8170.9	6308.0
47.5°	8004.9	8024.1	8277.1	8797.5	9026.6	9138.3	8788.7	8215.6	8600.4	6497.2
50°	6775.7	6791.7	7377.5	8499.8	9143.1	9772.9	9699.4	8799.1	8933.2	6612.9
52.5°	5802.7	5813.1	6064.5	7617.0	8758.4	10092.1	10520.0	9349.0	9176.6	6644.8
55°	4370.8	4406.7	4688.5	5975.9	7757.5	9839.1	11019.6	9915.8	9330.7	6648.0
57.5°	2553.4	2592.5	2940.5	4056.3	6029.4	8957.1	11095.5	10418.6	9435.2	6622.5
60°	1250.7	1267.5	1419.2	2131.9	3717.9	7257.8	10485.6	10662.0	9493.5	6608.9
62.5°	842.9	840.5	846.9	1052.0	1831.8	4662.9	9215.0	10235.8	9462.4	6557.0
65°	724.7	716.0	692.0	738.3	949.0	2132.7	7119.7	8963.5	9225.3	6426.9
67.5°	626.6	627.4	628.2	613.8	677.7	984.2	4350.9	7060.7	8374.5	5810.7
70°	518.8	526.0	529.2	529.2	552.3	645.7	1857.4	4839.3	6605.7	4556.0
72.5°	472.5	457.4	459.0	451.0	451.0	491.7	747.9	2743.3	4161.7	2562.9
75°	385.5	395.1	396.7	391.1	372.7	375.1	443.8	1151.0	1780.7	1063.2
77.5°	332.8	332.8	336.0	332.0	317.7	281.0	296.1	446.2	605.8	435.8
80°	267.4	266.6	280.2	288.1	265.8	207.5	189.2	246.6	269.0	191.6
82.5°	130.1	138.1	192.4	219.5	201.9	150.1	115.7	153.2	143.7	84.6
85°	75.8	71.8	86.2	122.1	115.7	83.0	55.9	79.8	75.0	43.1
87.5°	23.9	22.3	17.6	41.5	33.5	23.1	15.2	23.1	20.8	9.6
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°
3868.8	0°	3868.8	3868.8	3868.8	3868.8	3868.8	3868.8	3868.8	3868.8	3868.8	3868.8
3881.5	2.5°	3824.9	3730.7	3637.3	3551.9	3500.0	3466.5	3433.0	3395.4	3381.1	3359.5
3891.9	5°	3786.6	3604.6	3442.5	3302.9	3175.9	3076.2	2975.6	2894.2	2857.5	2882.2
3924.6	7.5°	3764.2	3500.8	3251.0	2994.8	2748.1	2551.0	2379.4	2258.8	2204.6	2218.1
3956.6	10°	3744.2	3383.5	3002.7	2598.1	2243.7	1999.4	1823.8	1732.0	1697.7	1704.9
3999.7	12.5°	3725.9	3251.8	2703.4	2171.0	1794.3	1633.1	1582.8	1583.6	1590.0	1594.8
4068.3	15°	3722.7	3092.9	2369.0	1797.5	1551.7	1541.3	1595.6	1629.9	1648.2	1653.8
4125.8	17.5°	3717.9	2903.0	2028.2	1542.9	1492.6	1562.8	1613.1	1635.5	1649.8	1650.6
4181.6	20°	3698.8	2661.9	1713.7	1421.6	1479.8	1540.5	1571.6	1589.2	1601.1	1605.1
4224.0	22.5°	3639.7	2393.7	1468.6	1367.3	1428.7	1477.4	1514.1	1534.1	1541.3	1546.1
4231.9	25°	3533.5	2093.6	1299.4	1315.4	1357.7	1419.2	1448.7	1452.7	1450.3	1457.5
4212.0	27.5°	3394.6	1772.0	1194.1	1245.2	1299.4	1352.1	1368.1	1365.7	1360.9	1368.9
4177.7	30°	3227.0	1483.0	1127.0	1166.1	1240.4	1288.3	1302.6	1297.0	1287.5	1296.2
4160.1	32.5°	3049.8	1246.8	1072.0	1111.1	1191.7	1238.8	1253.1	1247.6	1240.4	1247.6
4180.1	35°	2884.6	1081.5	1020.9	1074.3	1153.4	1199.7	1218.0	1218.8	1218.8	1227.6
4232.7	37.5°	2733.0	985.0	978.6	1051.2	1127.0	1168.5	1194.9	1196.5	1162.1	1164.5
4322.1	40°	2592.5	944.2	959.4	1036.0	1101.5	1141.4	1143.0	1053.6	990.5	988.9
4424.3	42.5°	2477.5	936.3	965.0	1034.4	1083.1	1084.7	972.2	902.7	885.2	886.0
4518.5	45°	2369.8	933.9	977.8	1034.4	1056.0	937.1	861.2	842.9	844.5	850.9
4560.8	47.5°	2249.3	924.3	980.2	1020.1	977.8	833.3	810.9	803.0	799.8	801.4
4551.2	50°	2117.6	890.0	949.8	991.3	843.7	788.6	760.7	758.3	762.3	764.7
4497.7	52.5°	1978.7	834.1	897.9	939.5	782.2	749.5	718.4	723.9	741.5	747.1
4441.9	55°	1887.7	768.6	829.3	835.7	739.1	712.8	686.4	699.2	731.9	742.3
4408.3	57.5°	1863.7	699.2	751.1	743.9	684.0	680.8	664.9	676.1	717.6	732.7
4406.7	60°	1856.6	636.9	674.5	668.9	630.6	645.7	641.7	647.3	661.7	666.5
4390.8	62.5°	1800.7	587.5	605.8	597.8	582.7	609.0	618.6	606.6	617.8	623.4
4281.4	65°	1658.6	547.5	538.8	533.2	539.6	563.5	582.7	558.7	569.1	585.1
3860.0	67.5°	1423.9	493.3	469.3	475.7	495.7	508.4	533.2	506.0	514.8	542.0
3108.9	70°	1151.8	424.6	403.1	421.4	440.6	466.9	470.9	452.6	473.3	503.6
1897.3	72.5°	814.9	355.2	340.0	377.5	383.9	418.2	409.5	400.7	429.4	439.8
937.9	75°	565.1	286.5	277.8	306.5	329.6	359.2	352.8	363.2	423.8	428.6
468.5	77.5°	357.6	222.7	217.1	235.5	267.4	300.1	310.5	428.6	723.9	752.7
243.4	80°	207.5	166.0	159.6	174.0	201.9	232.3	299.3	526.0	477.3	471.7
109.4	82.5°	115.7	114.1	106.2	110.1	134.9	167.6	423.0	370.4	300.9	310.5
43.9	85°	54.3	67.0	57.5	55.1	75.8	196.4	282.6	211.5	140.5	137.3
9.6	87.5°	14.4	12.8	12.8	14.4	31.9	169.2	112.5	90.2	53.5	51.9
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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