

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: P947647

Luminaire Tested: **GALN-SB2D-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947647
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-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14998 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

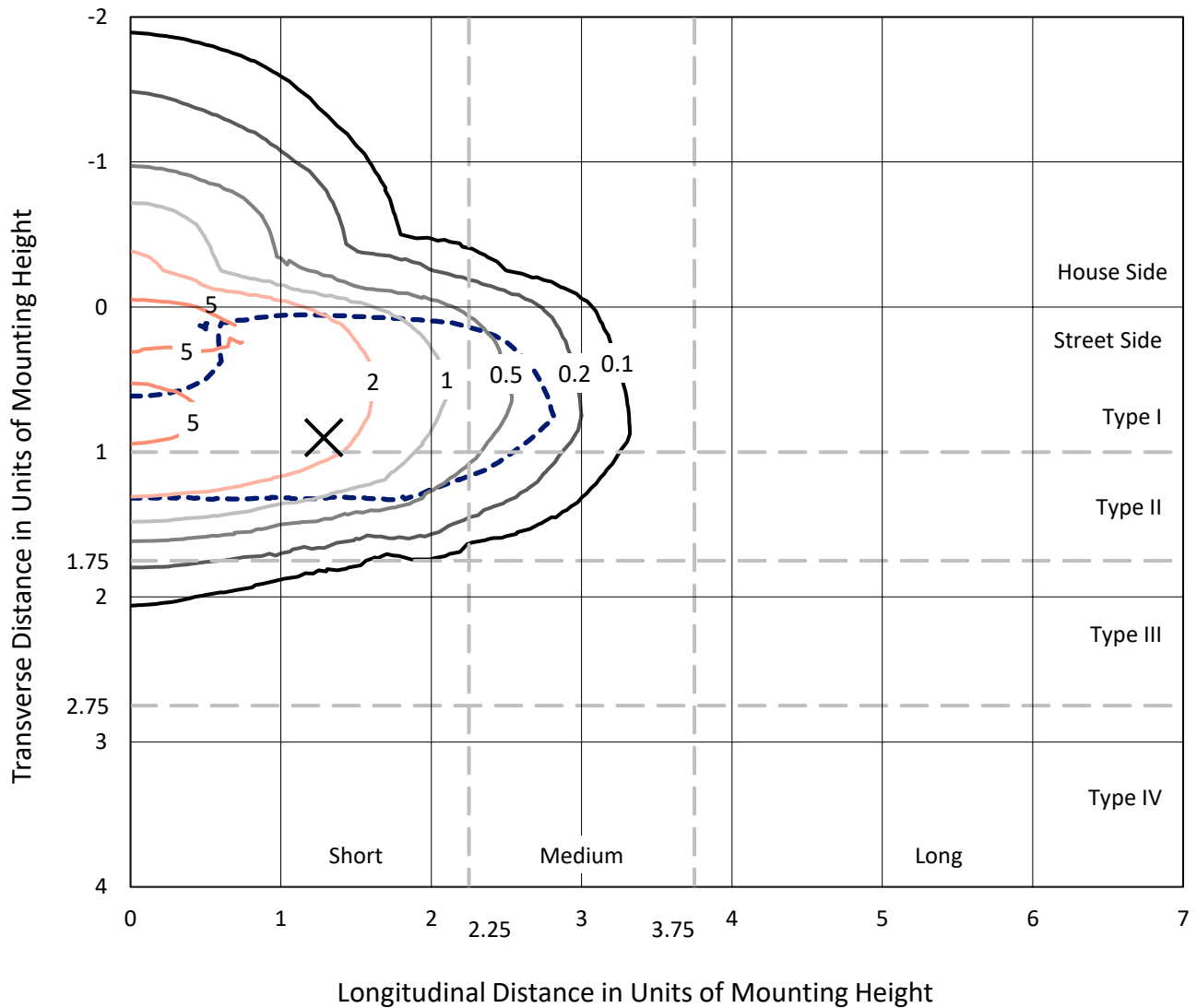
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

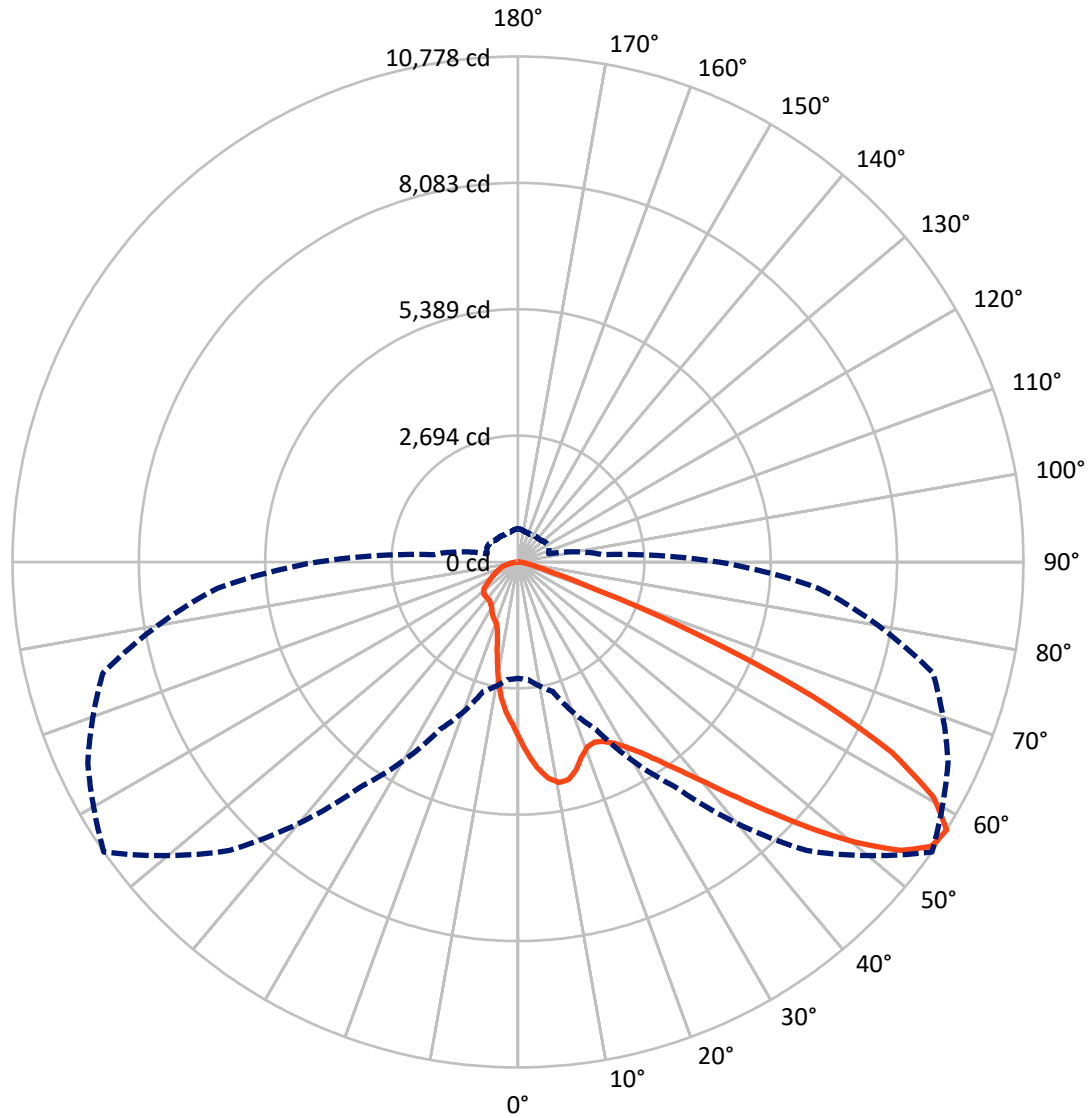
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	2713.8	0.0	2713.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12284.2	0.0	12284.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	14998.0	0.0	14998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.7	2.3
10°-20°	880.2	5.9
20°-30°	1404.5	9.4
30°-40°	2223.7	14.8
40°-50°	3403.6	22.7
50°-60°	3645.6	24.3
60°-70°	2293.5	15.3
70°-80°	678.2	4.5
80°-90°	119.9	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°	14998.0	100.0
0°-180°	14998.0	100.0

Coefficient of Utilization



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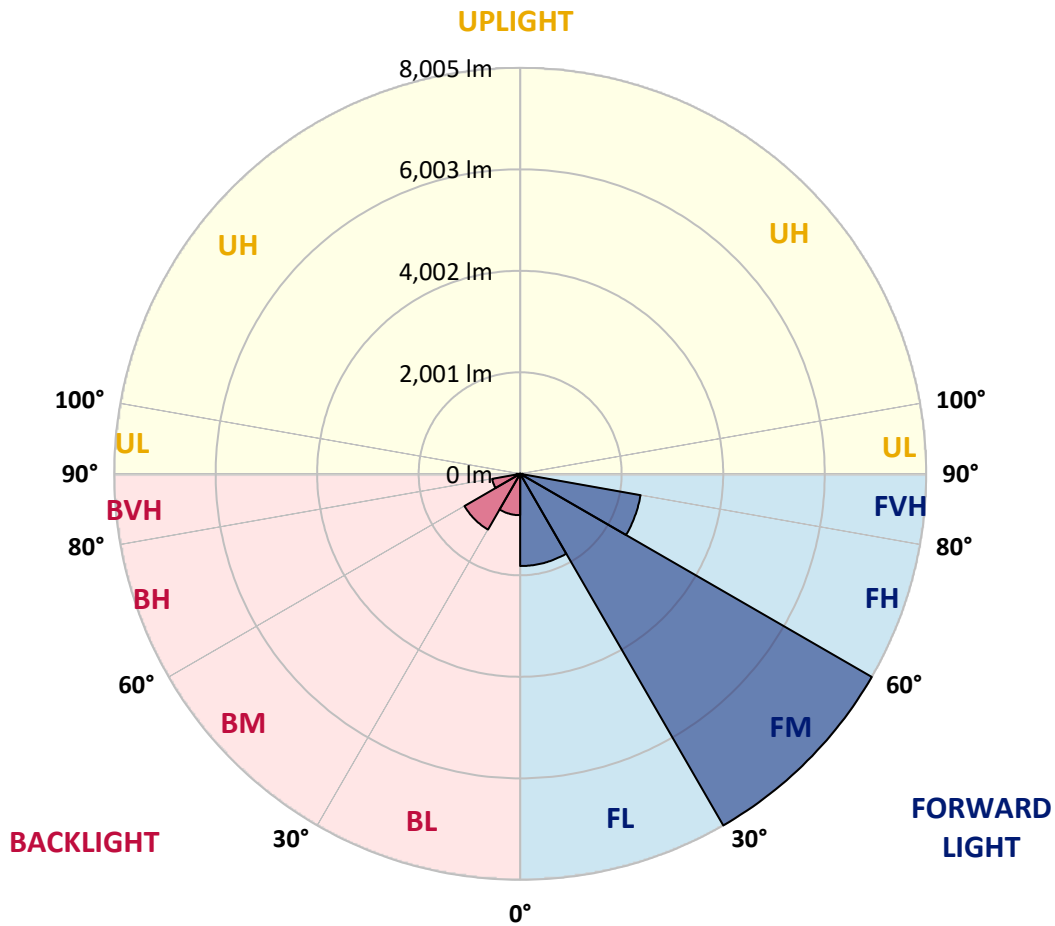
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1817.8	12.1			
FM (30°-60°)	8004.5	53.4			
FH (60°-80°)	2411.2	16.1			G2/5000
FVH (80°-90°)	50.7	0.3			G1/100
BL (0°-30°)	815.7	5.4	B2/1000		
BM (30°-60°)	1268.4	8.5	B2/2500		
BH (60°-80°)	560.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	69.3	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°	3758.0	3758.0	3758.0	3758.0	3758.0	3758.0	3758.0	3758.0	3758.0	3758.0
2.5°	4311.6	4308.5	4325.6	4267.4	4227.9	4174.4	4103.8	4013.9	3917.0	3814.6
5°	4700.0	4672.9	4690.7	4647.3	4603.9	4523.3	4418.6	4272.1	4093.0	3889.0
7.5°	4638.8	4620.2	4665.9	4704.7	4737.3	4727.2	4650.4	4496.9	4265.9	3969.7
10°	4144.9	4124.0	4188.3	4322.5	4519.4	4690.7	4783.8	4688.4	4442.6	4058.1
12.5°	3709.2	3699.1	3741.7	3850.3	4068.9	4397.7	4766.7	4855.9	4626.4	4162.7
15°	3523.1	3510.7	3537.8	3592.9	3732.4	4038.7	4611.6	4970.6	4807.0	4283.7
17.5°	3482.0	3468.0	3479.7	3508.4	3598.3	3831.7	4377.5	5027.2	4995.4	4418.6
20°	3558.0	3546.3	3547.9	3546.3	3609.1	3794.5	4214.7	5005.5	5159.8	4542.6
22.5°	3741.7	3722.3	3723.1	3682.0	3716.1	3859.6	4172.0	4947.4	5306.3	4651.2
25°	4041.0	4006.1	4013.1	3908.4	3899.1	4005.3	4238.7	4902.4	5452.1	4738.0
27.5°	4450.4	4410.8	4389.9	4234.1	4159.6	4212.4	4374.4	4917.9	5590.1	4813.2
30°	4962.1	4914.0	4871.4	4650.4	4515.5	4496.1	4585.3	5020.2	5752.9	4892.3
32.5°	5589.3	5533.5	5456.0	5162.9	4973.0	4871.4	4858.2	5202.4	5943.7	4993.1
35°	6336.0	6263.1	6153.0	5773.9	5533.5	5325.7	5218.0	5465.3	6204.9	5145.1
37.5°	7105.1	7022.9	6922.1	6470.9	6175.5	5869.2	5656.8	5821.9	6553.1	5351.3
40°	7814.5	7722.3	7628.4	7226.8	6909.7	6540.7	6194.1	6273.2	6978.7	5597.9
42.5°	8233.2	8165.0	8129.3	7912.2	7667.2	7292.7	6862.4	6808.2	7457.1	5881.6
45°	8214.6	8186.7	8296.8	8386.7	8328.6	8120.8	7645.5	7399.7	7937.0	6127.4
47.5°	7775.8	7794.4	8040.1	8545.7	8768.2	8876.7	8537.1	7980.4	8354.2	6311.2
50°	6581.8	6597.3	7166.4	8256.5	8881.4	9493.1	9421.8	8547.2	8677.5	6423.6
52.5°	5636.6	5646.7	5890.9	7398.9	8507.7	9803.2	10218.8	9081.4	8913.9	6454.6
55°	4245.7	4280.6	4554.3	5804.9	7535.4	9557.5	10704.2	9631.9	9063.6	6457.7
57.5°	2480.3	2518.3	2856.3	3940.2	5856.8	8700.7	10777.8	10120.3	9165.1	6432.9
60°	1214.9	1231.2	1378.5	2070.9	3611.5	7050.1	10185.5	10356.8	9221.7	6419.7
62.5°	818.7	816.4	822.6	1021.9	1779.4	4529.5	8951.2	9942.8	9191.5	6369.3
65°	704.0	695.5	672.2	717.2	921.9	2071.7	6915.9	8706.9	8961.2	6242.9
67.5°	608.6	609.4	610.2	596.2	658.3	956.0	4226.3	6858.5	8134.7	5644.4
70°	504.0	510.9	514.0	514.0	536.5	627.2	1804.2	4700.8	6416.6	4425.6
72.5°	459.0	444.3	445.8	438.1	438.1	477.6	726.5	2664.8	4042.6	2489.6
75°	374.5	383.8	385.3	379.9	362.1	364.4	431.1	1118.0	1729.8	1032.7
77.5°	323.3	323.3	326.4	322.5	308.6	272.9	287.6	433.4	588.5	423.3
80°	259.7	259.0	272.1	279.9	258.2	201.6	183.8	239.6	261.3	186.1
82.5°	126.4	134.1	186.9	213.2	196.2	145.8	112.4	148.9	139.6	82.2
85°	73.7	69.8	83.7	118.6	112.4	80.6	54.3	77.5	72.9	41.9
87.5°	23.3	21.7	17.1	40.3	32.6	22.5	14.7	22.5	20.2	9.3
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°
3758.0	0°	3758.0	3758.0	3758.0	3758.0	3758.0	3758.0	3758.0	3758.0	3758.0	3758.0
3770.4	2.5°	3715.4	3623.9	3533.2	3450.2	3399.8	3367.2	3334.7	3298.2	3284.3	3263.4
3780.5	5°	3678.2	3501.4	3344.0	3208.3	3085.0	2988.1	2890.4	2811.3	2775.7	2799.7
3812.3	7.5°	3656.4	3400.6	3157.9	2909.0	2669.5	2477.9	2311.3	2194.2	2141.5	2154.6
3843.3	10°	3637.1	3286.6	2916.8	2523.7	2179.4	1942.2	1771.6	1682.5	1649.1	1656.1
3885.2	12.5°	3619.2	3158.7	2626.0	2108.9	1742.9	1586.3	1537.5	1538.2	1544.5	1549.1
3951.8	15°	3616.1	3004.4	2301.2	1746.0	1507.2	1497.2	1549.9	1583.2	1601.1	1606.5
4007.7	17.5°	3611.5	2819.9	1970.1	1498.7	1449.9	1518.1	1566.9	1588.6	1602.6	1603.4
4061.9	20°	3592.9	2585.7	1664.6	1380.9	1437.5	1496.4	1526.6	1543.7	1555.3	1559.2
4103.0	22.5°	3535.5	2325.2	1426.6	1328.1	1387.8	1435.1	1470.8	1490.2	1497.2	1501.8
4110.8	25°	3432.4	2033.7	1262.2	1277.7	1318.8	1378.5	1407.2	1411.1	1408.8	1415.7
4091.4	27.5°	3297.5	1721.2	1159.9	1209.5	1262.2	1313.4	1328.9	1326.6	1321.9	1329.7
4058.1	30°	3134.6	1440.6	1094.8	1132.8	1204.9	1251.4	1265.3	1259.9	1250.6	1259.1
4041.0	32.5°	2962.5	1211.1	1041.3	1079.3	1157.6	1203.3	1217.3	1211.8	1204.9	1211.8
4060.4	35°	2802.0	1050.6	991.6	1043.6	1120.3	1165.3	1183.1	1183.9	1183.9	1192.5
4111.6	37.5°	2654.7	956.8	950.6	1021.1	1094.8	1135.1	1160.7	1162.2	1128.9	1131.2
4198.4	40°	2518.3	917.2	931.9	1006.4	1070.0	1108.7	1110.3	1023.4	962.2	960.6
4297.6	42.5°	2406.6	909.5	937.4	1004.8	1052.1	1053.7	944.3	876.9	859.8	860.6
4389.1	45°	2301.9	907.1	949.8	1004.8	1025.8	910.2	836.6	818.7	820.3	826.5
4430.2	47.5°	2184.9	897.8	952.1	990.9	949.8	809.4	787.7	780.0	776.9	778.4
4420.9	50°	2056.9	864.5	922.6	963.0	819.5	766.0	738.9	736.6	740.4	742.8
4369.0	52.5°	1922.0	810.2	872.2	912.6	759.8	728.0	697.8	703.2	720.3	725.7
4314.7	55°	1833.6	746.6	805.6	811.8	718.0	692.4	666.8	679.2	711.0	721.1
4282.1	57.5°	1810.4	679.2	729.6	722.6	664.5	661.4	645.8	656.7	697.0	711.8
4280.6	60°	1803.4	618.7	655.2	649.7	612.5	627.2	623.4	628.8	642.7	647.4
4265.1	62.5°	1749.1	570.6	588.5	580.7	566.0	591.6	600.9	589.2	600.1	605.5
4158.9	65°	1611.1	531.9	523.3	517.9	524.1	547.4	566.0	542.7	552.8	568.3
3749.5	67.5°	1383.2	479.2	455.9	462.1	481.5	493.9	517.9	491.6	500.1	526.4
3019.9	70°	1118.8	412.5	391.5	409.4	428.0	453.6	457.4	439.6	459.8	489.2
1843.0	72.5°	791.6	345.0	330.3	366.7	372.9	406.3	397.7	389.2	417.1	427.2
911.0	75°	548.9	278.3	269.8	297.7	320.2	348.9	342.7	352.8	411.7	416.4
455.1	77.5°	347.3	216.3	210.9	228.7	259.7	291.5	301.6	416.4	703.2	731.1
236.5	80°	201.6	161.3	155.1	169.0	196.2	225.6	290.7	510.9	463.6	458.2
106.2	82.5°	112.4	110.9	103.1	107.0	131.0	162.8	410.9	359.8	292.3	301.6
42.6	85°	52.7	65.1	55.8	53.5	73.7	190.7	274.5	205.5	136.5	133.4
9.3	87.5°	14.0	12.4	12.4	14.0	31.0	164.4	109.3	87.6	51.9	50.4
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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