

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: P949327

Luminaire Tested: **GALN-SB4A-840-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949327
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-840-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17489 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

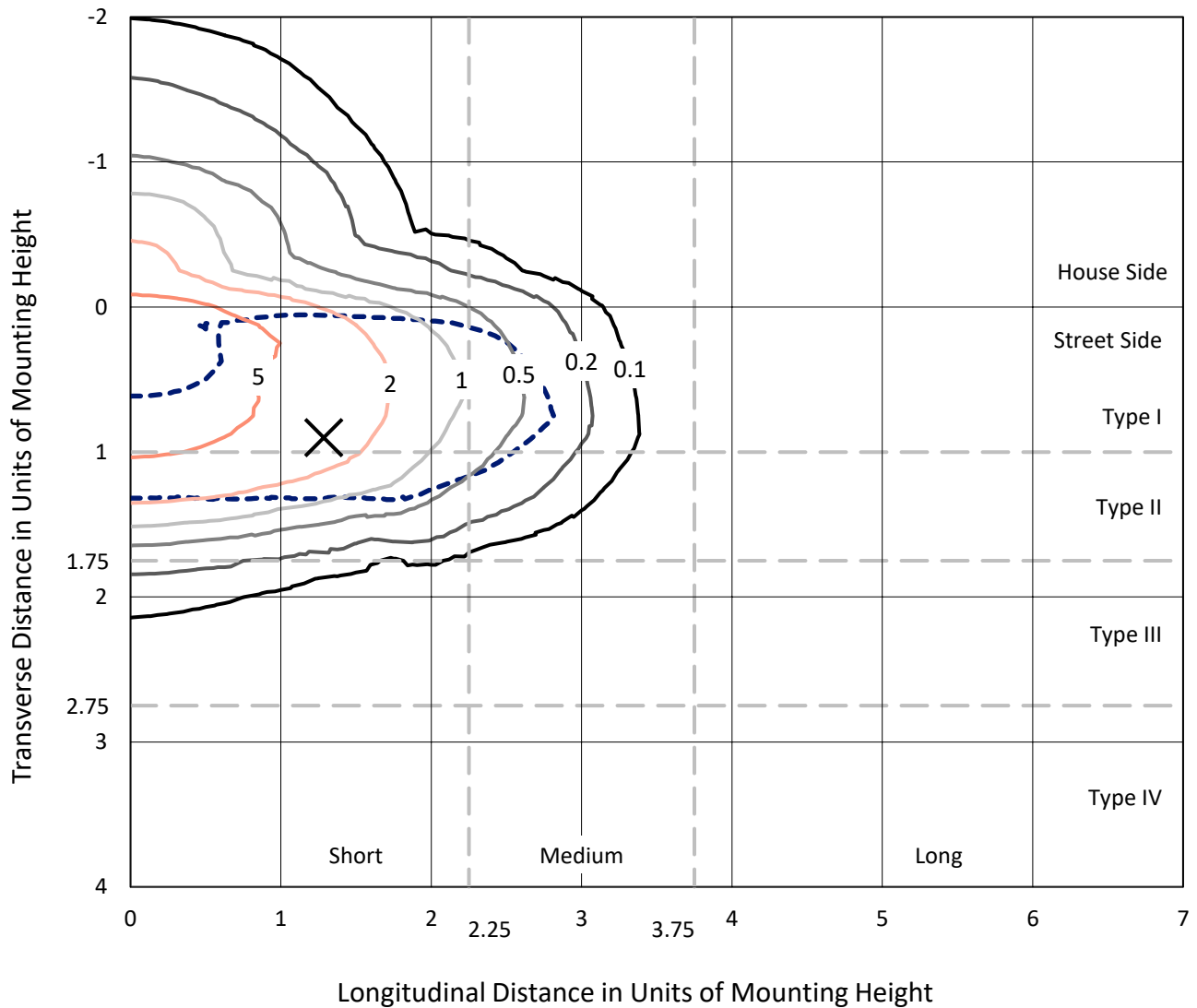
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949327
 CATALOG NUMBER: GALN-SB4A-840-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

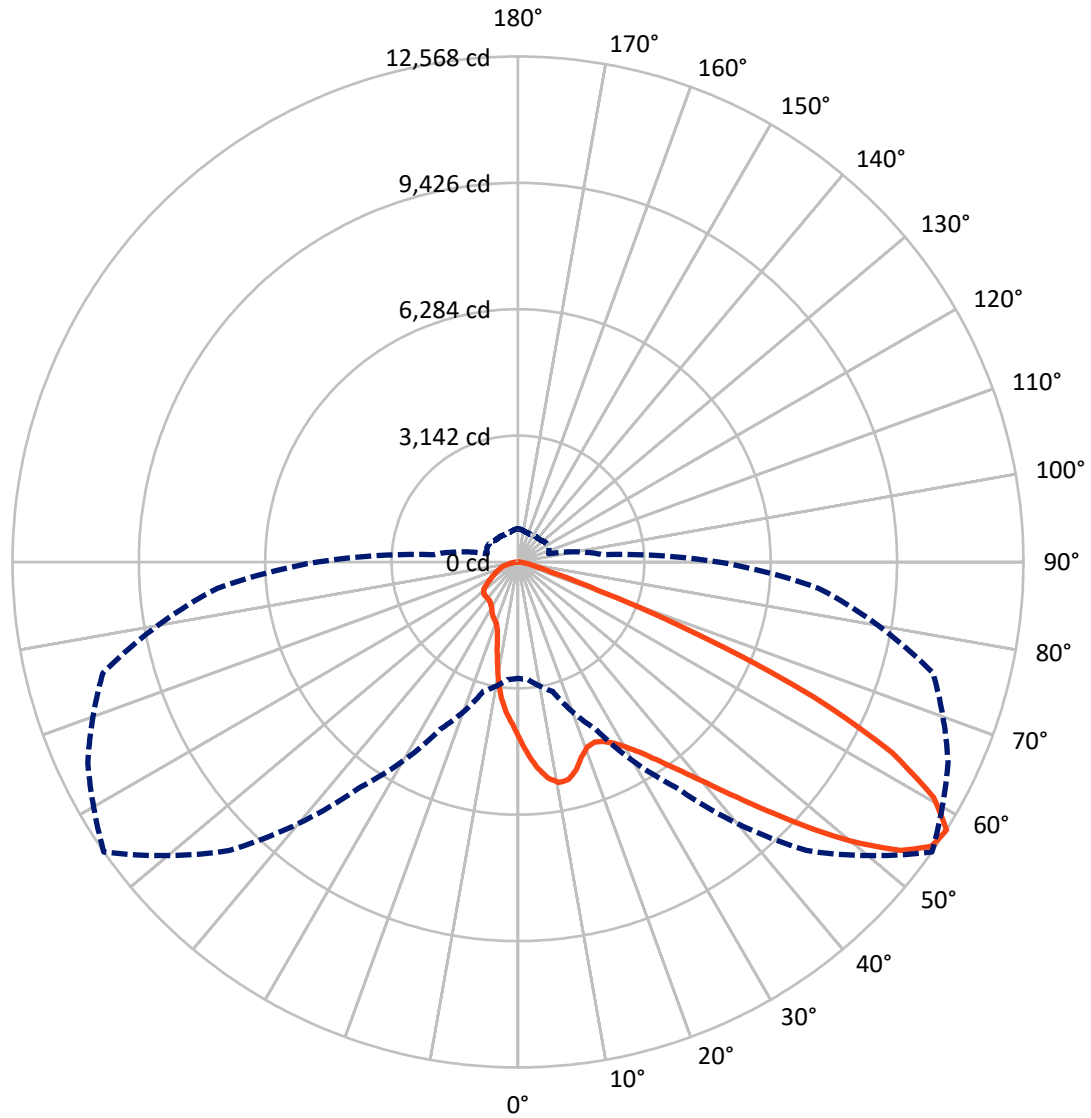
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

REPORT NUMBER: P949327
CATALOG NUMBER: GALN-SB4A-840-U-AFL

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	3164.5	0.0	3164.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14324.4	0.0	14324.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	17489.0	0.0	17489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.6	2.3
10°-20°	1026.4	5.9
20°-30°	1637.8	9.4
30°-40°	2593.1	14.8
40°-50°	3968.9	22.7
50°-60°	4251.1	24.3
60°-70°	2674.4	15.3
70°-80°	790.9	4.5
80°-90°	139.8	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°	17489.0	100.0
0°-180°	17489.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949327

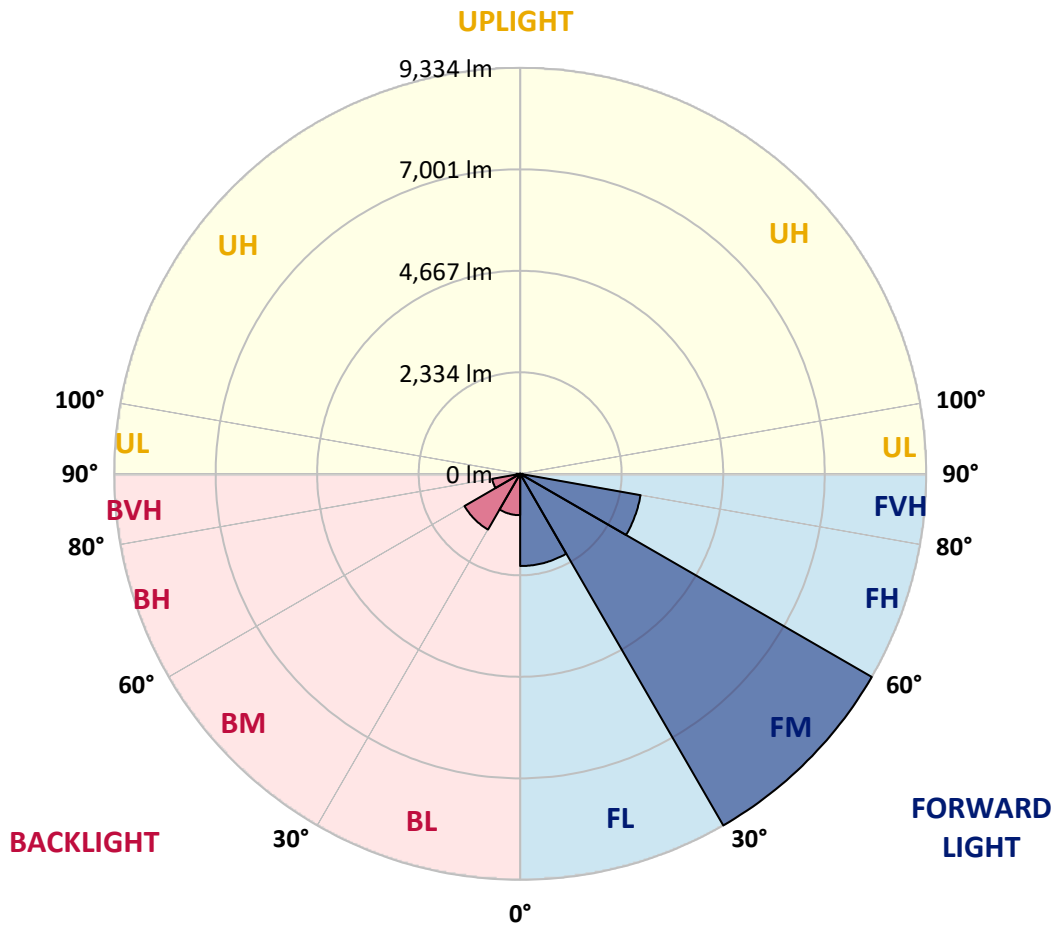
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2119.7	12.1			
FM (30°-60°)	9334.0	53.4			
FH (60°-80°)	2811.7	16.1			G2/5000
FVH (80°-90°)	59.1	0.3			G1/100
BL (0°-30°)	951.2	5.4	B2/1000		
BM (30°-60°)	1479.1	8.5	B2/2500		
BH (60°-80°)	653.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	80.8	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



REPORT NUMBER: P949327

CATALOG NUMBER: GALN-SB4A-840-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4382.2	4382.2	4382.2	4382.2	4382.2	4382.2	4382.2	4382.2	4382.2	4382.2
2.5°	5027.7	5024.1	5044.0	4976.2	4930.1	4867.7	4785.4	4680.5	4567.5	4448.2
5°	5480.7	5449.0	5469.8	5419.2	5368.5	5274.5	5152.5	4981.6	4772.7	4535.0
7.5°	5409.2	5387.5	5440.9	5486.1	5524.1	5512.3	5422.8	5243.8	4974.4	4629.0
10°	4833.3	4808.9	4884.0	5040.4	5270.0	5469.8	5578.3	5467.1	5180.5	4732.1
12.5°	4325.2	4313.5	4363.2	4489.8	4744.7	5128.1	5558.4	5662.4	5394.8	4854.1
15°	4108.2	4093.8	4125.4	4189.6	4352.3	4709.5	5377.6	5796.2	5605.4	4995.2
17.5°	4060.3	4044.0	4057.6	4091.1	4195.9	4468.1	5104.6	5862.2	5825.1	5152.5
20°	4148.9	4135.4	4137.2	4135.4	4208.6	4424.7	4914.7	5836.9	6016.8	5297.1
22.5°	4363.2	4340.6	4341.5	4293.6	4333.4	4500.6	4865.0	5769.1	6187.7	5423.7
25°	4712.2	4671.5	4679.6	4557.6	4546.7	4670.6	4942.7	5716.6	6357.6	5525.0
27.5°	5189.5	5143.4	5119.0	4937.3	4850.5	4912.0	5100.9	5734.7	6518.6	5612.7
30°	5786.2	5730.2	5680.5	5422.8	5265.5	5242.9	5346.9	5854.1	6708.4	5704.9
32.5°	6517.7	6452.6	6362.2	6020.4	5798.9	5680.5	5665.1	6066.5	6930.8	5822.4
35°	7388.3	7303.3	7174.9	6732.8	6452.6	6210.3	6084.6	6373.0	7235.5	5999.6
37.5°	8285.2	8189.3	8071.8	7545.6	7201.2	6844.0	6596.3	6788.9	7641.5	6240.1
40°	9112.4	9004.8	8895.4	8427.1	8057.3	7627.0	7222.9	7315.1	8137.8	6527.6
42.5°	9600.6	9521.1	9479.5	9226.3	8940.7	8504.0	8002.2	7938.9	8695.6	6858.5
45°	9578.9	9546.4	9674.8	9779.7	9711.8	9469.5	8915.3	8628.7	9255.3	7145.1
47.5°	9067.2	9088.9	9375.5	9965.0	10224.5	10351.0	9955.1	9305.9	9741.7	7359.4
50°	7674.9	7693.0	8356.6	9627.8	10356.5	11069.8	10986.6	9966.8	10118.7	7490.5
52.5°	6572.8	6584.6	6869.4	8627.8	9920.7	11431.4	11916.0	10589.7	10394.4	7526.6
55°	4950.9	4991.5	5310.7	6769.0	8787.0	11144.8	12482.0	11231.6	10568.9	7530.3
57.5°	2892.2	2936.5	3330.7	4594.6	6829.6	10145.8	12567.9	11801.2	10687.4	7501.3
60°	1416.7	1435.7	1607.5	2414.9	4211.3	8221.0	11877.2	12077.0	10753.4	7486.0
62.5°	954.7	952.0	959.3	1191.6	2074.9	5281.8	10437.8	11594.2	10718.1	7427.2
65°	820.9	811.0	783.9	836.3	1075.0	2415.8	8064.6	10153.0	10449.6	7279.8
67.5°	709.7	710.6	711.5	695.3	767.6	1114.8	4928.3	7997.7	9485.8	6581.9
70°	587.7	595.8	599.4	599.4	625.6	731.4	2103.8	5481.6	7482.3	5160.6
72.5°	535.2	518.0	519.9	510.8	510.8	556.9	847.1	3107.4	4714.0	2903.1
75°	436.7	447.5	449.3	443.0	422.2	424.9	502.7	1303.7	2017.0	1204.3
77.5°	377.0	377.0	380.6	376.1	359.8	318.2	335.4	505.4	686.2	493.6
80°	302.9	302.0	317.3	326.4	301.1	235.1	214.3	279.4	304.7	217.0
82.5°	147.4	156.4	217.9	248.6	228.7	170.0	131.1	173.6	162.7	95.8
85°	85.9	81.4	97.6	138.3	131.1	94.0	63.3	90.4	85.0	48.8
87.5°	27.1	25.3	19.9	47.0	38.0	26.2	17.2	26.2	23.5	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949327
 CATALOG NUMBER: GALN-SB4A-840-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4382.2	0°	4382.2	4382.2	4382.2	4382.2	4382.2	4382.2	4382.2	4382.2	4382.2	4382.2
4396.6	2.5°	4332.5	4225.8	4120.0	4023.2	3964.5	3926.5	3888.5	3846.0	3829.8	3805.4
4408.4	5°	4289.1	4082.9	3899.4	3741.2	3597.4	3484.4	3370.5	3278.3	3236.7	3264.7
4445.5	7.5°	4263.7	3965.4	3682.4	3392.2	3112.8	2889.5	2695.1	2558.6	2497.1	2512.5
4481.6	10°	4241.1	3832.5	3401.2	2942.8	2541.4	2264.8	2065.9	1961.9	1923.0	1931.2
4530.4	12.5°	4220.3	3683.3	3062.2	2459.2	2032.4	1849.8	1792.8	1793.7	1801.0	1806.4
4608.2	15°	4216.7	3503.4	2683.4	2036.0	1757.6	1745.8	1807.3	1846.2	1867.0	1873.3
4673.3	17.5°	4211.3	3288.2	2297.3	1747.6	1690.7	1770.2	1827.2	1852.5	1868.8	1869.7
4736.6	20°	4189.6	3015.2	1941.1	1610.2	1676.2	1744.9	1780.2	1800.1	1813.6	1818.1
4784.5	22.5°	4122.7	2711.4	1663.5	1548.7	1618.3	1673.5	1715.1	1737.7	1745.8	1751.2
4793.5	25°	4002.5	2371.5	1471.9	1490.0	1537.9	1607.5	1640.9	1645.5	1642.8	1650.9
4770.9	27.5°	3845.1	2007.1	1352.5	1410.4	1471.9	1531.5	1549.6	1546.9	1541.5	1550.5
4732.1	30°	3655.3	1679.8	1276.6	1320.9	1405.0	1459.2	1475.5	1469.2	1458.3	1468.3
4712.2	32.5°	3454.6	1412.2	1214.2	1258.5	1349.8	1403.2	1419.4	1413.1	1405.0	1413.1
4734.8	35°	3267.4	1225.1	1156.3	1216.9	1306.4	1358.9	1379.7	1380.6	1380.6	1390.5
4794.4	37.5°	3095.6	1115.7	1108.4	1190.7	1276.6	1323.6	1353.4	1355.2	1316.4	1319.1
4895.7	40°	2936.5	1069.6	1086.7	1173.5	1247.7	1292.9	1294.7	1193.4	1122.0	1120.2
5011.4	42.5°	2806.3	1060.5	1093.1	1171.7	1226.9	1228.7	1101.2	1022.5	1002.6	1003.6
5118.1	45°	2684.3	1057.8	1107.5	1171.7	1196.1	1061.4	975.5	954.7	956.5	963.8
5166.0	47.5°	2547.8	1046.9	1110.2	1155.4	1107.5	943.9	918.6	909.5	905.9	907.7
5155.2	50°	2398.6	1008.1	1075.9	1122.9	955.6	893.3	861.6	858.9	863.4	866.1
5094.6	52.5°	2241.3	944.8	1017.1	1064.1	886.0	849.0	813.7	820.0	839.9	846.2
5031.3	55°	2138.2	870.6	939.4	946.6	837.2	807.4	777.5	792.0	829.1	840.8
4993.3	57.5°	2111.1	792.0	850.8	842.6	774.8	771.2	753.1	765.8	812.8	830.0
4991.5	60°	2102.9	721.5	764.0	757.6	714.2	731.4	726.9	733.2	749.5	754.9
4973.5	62.5°	2039.7	665.4	686.2	677.2	660.0	689.8	700.7	687.1	699.8	706.1
4849.6	65°	1878.7	620.2	610.3	603.9	611.2	638.3	660.0	632.9	644.6	662.7
4372.2	67.5°	1612.9	558.7	531.6	538.8	561.4	575.9	603.9	573.2	583.1	613.9
3521.5	70°	1304.6	481.0	456.6	477.4	499.1	528.9	533.4	512.6	536.1	570.5
2149.0	72.5°	923.1	402.3	385.1	427.6	434.9	473.7	463.8	453.9	486.4	498.2
1062.3	75°	640.1	324.6	314.6	347.2	373.4	406.8	399.6	411.4	480.1	485.5
530.7	77.5°	405.0	252.2	245.9	266.7	302.9	339.9	351.7	485.5	820.0	852.6
275.8	80°	235.1	188.1	180.8	197.1	228.7	263.1	339.0	595.8	540.7	534.3
123.9	82.5°	131.1	129.3	120.2	124.8	152.8	189.9	479.2	419.5	340.8	351.7
49.7	85°	61.5	75.9	65.1	62.4	85.9	222.4	320.1	239.6	159.1	155.5
10.8	87.5°	16.3	14.5	14.5	16.3	36.2	191.7	127.5	102.2	60.6	58.8
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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