

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: P949306

Luminaire Tested: **GALN-SB4A-835-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949306
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-835-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16959 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

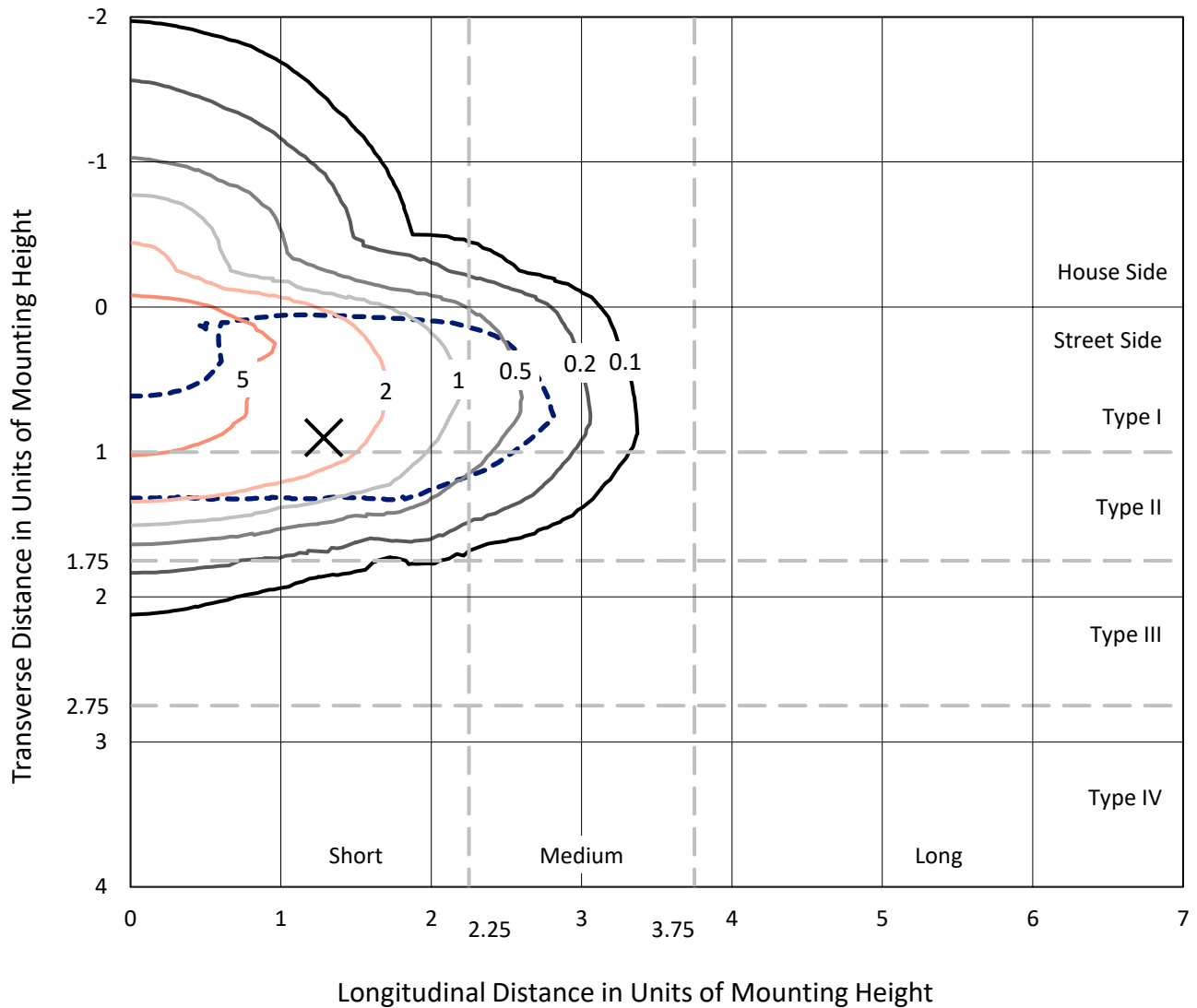
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

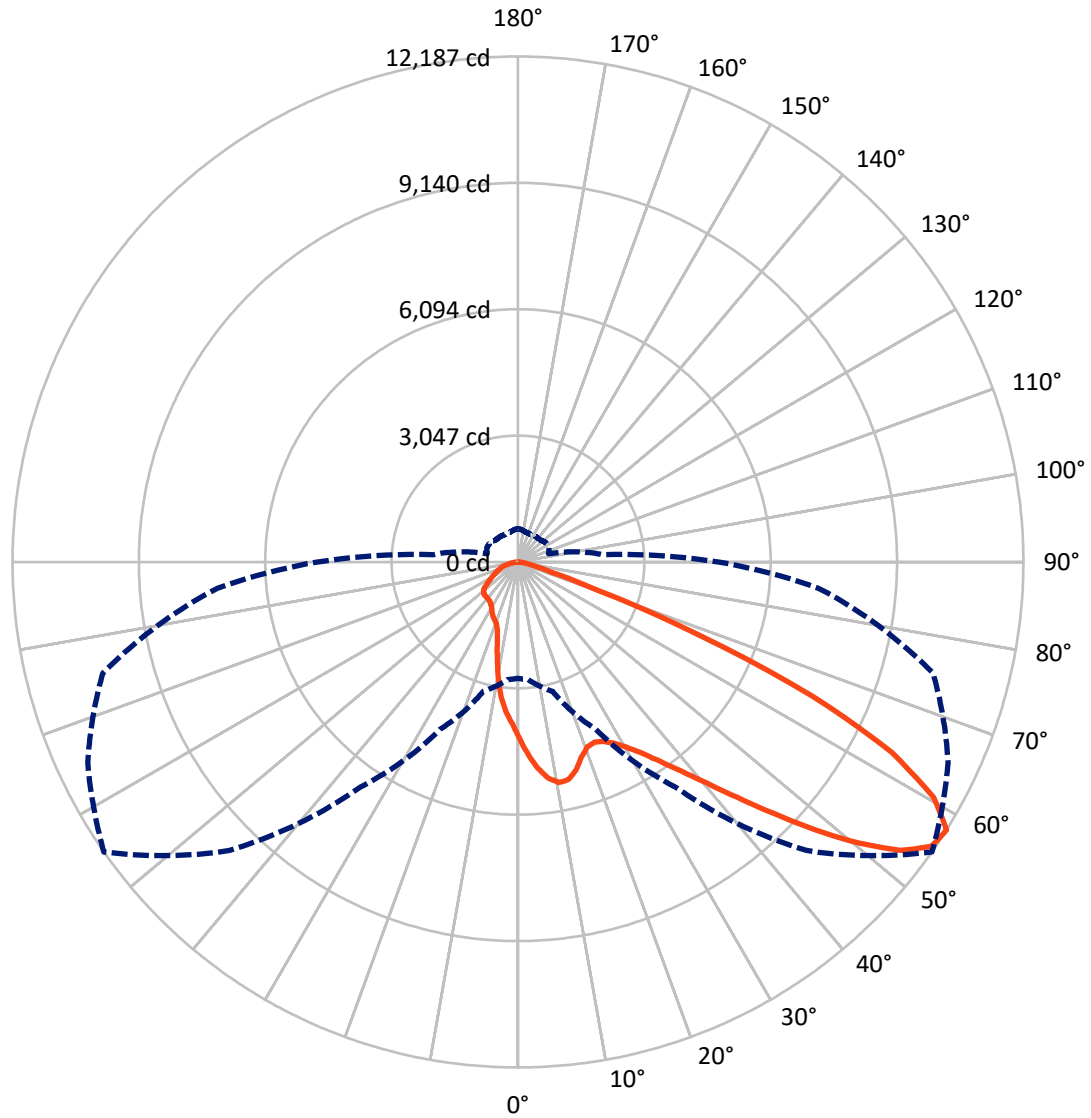
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	3068.7	0.0	3068.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13890.4	0.0	13890.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	16959.0	0.0	16959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.3	2.3
10°-20°	995.3	5.9
20°-30°	1588.2	9.4
30°-40°	2514.5	14.8
40°-50°	3848.7	22.7
50°-60°	4122.3	24.3
60°-70°	2593.3	15.3
70°-80°	766.9	4.5
80°-90°	135.6	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°	16959.0	100.0
0°-180°	16959.0	100.0

Coefficient of Utilization



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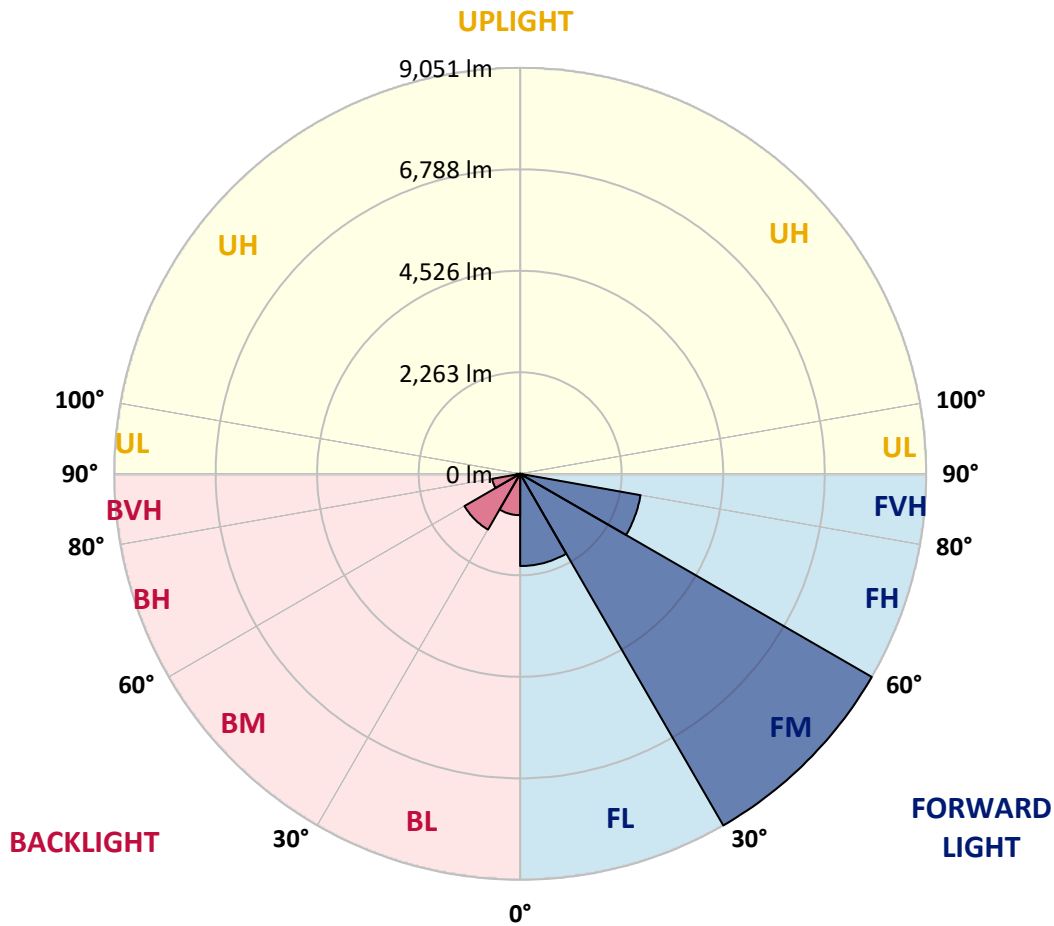
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2055.4	12.1			
FM (30°-60°)	9051.1	53.4			
FH (60°-80°)	2726.5	16.1			G2/5000
FVH (80°-90°)	57.3	0.3			G1/100
BL (0°-30°)	922.3	5.4	B2/1000		
BM (30°-60°)	1434.3	8.5	B2/2500		
BH (60°-80°)	633.7	3.7	B2/1000		G2/1000
BVH (80°-90°)	78.3	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°	4249.4	4249.4	4249.4	4249.4	4249.4	4249.4	4249.4	4249.4	4249.4	4249.4
2.5°	4875.3	4871.8	4891.1	4825.4	4780.7	4720.2	4640.4	4538.7	4429.1	4313.4
5°	5314.6	5283.9	5304.0	5255.0	5205.9	5114.7	4996.3	4830.6	4628.1	4397.5
7.5°	5245.3	5224.3	5276.0	5319.8	5356.6	5345.3	5258.5	5084.9	4823.6	4488.7
10°	4686.8	4663.2	4735.9	4887.6	5110.3	5304.0	5409.3	5301.4	5023.5	4588.7
12.5°	4194.1	4182.7	4231.0	4353.7	4600.9	4972.7	5390.0	5490.8	5231.3	4707.0
15°	3983.7	3969.7	4000.4	4062.6	4220.4	4566.7	5214.6	5620.5	5435.6	4843.8
17.5°	3937.3	3921.5	3934.6	3967.1	4068.8	4332.7	4949.9	5684.5	5648.6	4996.3
20°	4023.2	4010.0	4011.8	4010.0	4081.0	4290.6	4765.8	5660.0	5834.5	5136.6
22.5°	4231.0	4209.0	4209.9	4163.5	4202.0	4364.2	4717.5	5594.2	6000.1	5259.3
25°	4569.4	4529.9	4537.8	4419.5	4408.9	4529.0	4792.9	5543.4	6165.0	5357.5
27.5°	5032.3	4987.6	4963.9	4787.7	4703.5	4763.1	4946.4	5560.9	6321.0	5442.6
30°	5610.9	5556.5	5508.3	5258.5	5105.9	5084.0	5184.8	5676.6	6505.1	5532.0
32.5°	6320.1	6257.0	6169.4	5838.0	5623.2	5508.3	5493.4	5882.7	6720.8	5646.0
35°	7164.4	7082.0	6957.5	6528.8	6257.0	6022.1	5900.2	6179.9	7016.2	5817.8
37.5°	8034.1	7941.2	7827.2	7317.0	6982.9	6636.6	6396.4	6583.2	7409.9	6051.0
40°	8836.3	8732.0	8625.9	8171.7	7813.2	7395.9	7004.0	7093.4	7891.2	6329.8
42.5°	9309.7	9232.5	9192.2	8946.7	8669.7	8246.3	7759.7	7698.3	8432.1	6650.7
45°	9288.7	9257.1	9381.6	9483.3	9417.5	9182.6	8645.2	8367.2	8974.8	6928.6
47.5°	8792.4	8813.5	9091.4	9663.0	9914.6	10037.4	9653.4	9023.9	9446.5	7136.4
50°	7442.3	7459.9	8103.4	9336.0	10042.6	10734.3	10653.7	9664.8	9812.0	7263.5
52.5°	6373.6	6385.0	6661.2	8366.4	9620.1	11085.0	11554.9	10268.8	10079.4	7298.5
55°	4800.8	4840.3	5149.7	6563.9	8520.7	10807.1	12103.7	10891.3	10248.6	7302.1
57.5°	2804.6	2847.5	3229.8	4455.4	6622.6	9838.4	12187.0	11443.6	10363.5	7274.0
60°	1373.8	1392.2	1558.8	2341.7	4083.7	7971.9	11517.2	11711.0	10427.5	7259.1
62.5°	925.8	923.2	930.2	1155.5	2012.0	5121.7	10121.5	11242.8	10393.3	7202.1
65°	796.0	786.4	760.1	810.9	1042.4	2342.5	7820.2	9845.4	10132.9	7059.2
67.5°	688.2	689.1	690.0	674.2	744.3	1081.0	4778.9	7755.3	9198.4	6382.4
70°	569.9	577.7	581.3	581.3	606.7	709.3	2040.1	5315.4	7255.6	5004.2
72.5°	519.0	502.4	504.1	495.3	495.3	540.0	821.5	3013.2	4571.1	2815.1
75°	423.4	434.0	435.7	429.6	409.4	412.0	487.4	1264.2	1955.9	1167.8
77.5°	365.6	365.6	369.1	364.7	348.9	308.6	325.3	490.1	665.4	478.7
80°	293.7	292.8	307.7	316.5	291.9	227.9	207.8	270.9	295.4	210.4
82.5°	142.9	151.7	211.3	241.1	221.8	164.8	127.1	168.3	157.8	92.9
85°	83.3	78.9	94.7	134.1	127.1	91.2	61.4	87.7	82.4	47.3
87.5°	26.3	24.5	19.3	45.6	36.8	25.4	16.7	25.4	22.8	10.5
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°
4249.4	0°	4249.4	4249.4	4249.4	4249.4	4249.4	4249.4	4249.4	4249.4	4249.4	4249.4
4263.4	2.5°	4201.2	4097.7	3995.1	3901.3	3844.3	3807.5	3770.7	3729.5	3713.7	3690.0
4274.8	5°	4159.1	3959.2	3781.2	3627.8	3488.4	3378.8	3268.3	3178.9	3138.6	3165.8
4310.7	7.5°	4134.5	3845.2	3570.8	3289.4	3018.5	2801.9	2613.4	2481.1	2421.5	2436.4
4345.8	10°	4112.6	3716.3	3298.2	2853.7	2464.4	2196.1	2003.3	1902.4	1864.7	1872.6
4393.2	12.5°	4092.4	3571.7	2969.4	2384.6	1970.8	1793.7	1738.5	1739.4	1746.4	1751.7
4468.6	15°	4088.9	3397.2	2602.1	1974.3	1704.3	1692.9	1752.5	1790.2	1810.4	1816.5
4531.7	17.5°	4083.7	3188.6	2227.7	1694.7	1639.4	1716.6	1771.8	1796.4	1812.1	1813.0
4593.0	20°	4062.6	2923.8	1882.3	1561.4	1625.4	1692.0	1726.2	1745.5	1758.7	1763.0
4639.5	22.5°	3997.8	2629.2	1613.1	1501.8	1569.3	1622.8	1663.1	1685.0	1692.9	1698.2
4648.3	25°	3881.2	2299.6	1427.3	1444.8	1491.3	1558.8	1591.2	1595.6	1593.0	1600.9
4626.4	27.5°	3728.6	1946.3	1311.5	1367.7	1427.3	1485.1	1502.7	1500.0	1494.8	1503.5
4588.7	30°	3544.5	1628.9	1237.9	1280.9	1362.4	1415.0	1430.8	1424.6	1414.1	1423.8
4569.4	32.5°	3349.9	1369.4	1177.4	1220.4	1308.9	1360.6	1376.4	1370.3	1362.4	1370.3
4591.3	35°	3168.4	1187.9	1121.3	1180.0	1266.8	1317.7	1337.8	1338.7	1338.7	1348.4
4649.2	37.5°	3001.8	1081.9	1074.8	1154.6	1237.9	1283.5	1312.4	1314.2	1276.5	1279.1
4747.3	40°	2847.5	1037.1	1053.8	1138.0	1209.8	1253.7	1255.4	1157.2	1088.0	1086.2
4859.6	42.5°	2721.3	1028.4	1059.9	1136.2	1189.7	1191.4	1067.8	991.6	972.3	973.1
4963.0	45°	2602.9	1025.7	1074.0	1136.2	1159.9	1029.2	946.0	925.8	927.6	934.6
5009.5	47.5°	2470.5	1015.2	1076.6	1120.4	1074.0	915.3	890.7	882.0	878.5	880.2
4999.0	50°	2325.9	977.5	1043.3	1088.9	926.7	866.2	835.5	832.9	837.3	839.9
4940.2	52.5°	2173.3	916.2	986.3	1031.9	859.2	823.2	789.0	795.2	814.5	820.6
4878.8	55°	2073.4	844.3	910.9	917.9	811.8	782.9	754.0	768.0	803.9	815.3
4842.0	57.5°	2047.1	768.0	825.0	817.1	751.3	747.8	730.3	742.6	788.2	804.8
4840.3	60°	2039.2	699.6	740.8	734.7	692.6	709.3	704.9	711.0	726.8	732.0
4822.7	62.5°	1977.8	645.3	665.4	656.6	640.0	668.9	679.4	666.3	678.6	684.7
4702.6	65°	1821.8	601.4	591.8	585.6	592.7	619.0	640.0	613.7	625.1	642.6
4239.7	67.5°	1564.0	541.8	515.5	522.5	544.4	558.5	585.6	555.8	565.5	595.3
3414.8	70°	1265.1	466.4	442.7	462.9	483.9	512.9	517.3	497.1	519.9	553.2
2083.9	72.5°	895.1	390.1	373.5	414.7	421.7	459.4	449.7	440.1	471.7	483.1
1030.1	75°	620.7	314.7	305.1	336.7	362.1	394.5	387.5	398.9	465.5	470.8
514.6	77.5°	392.8	244.6	238.5	258.6	293.7	329.6	341.0	470.8	795.2	826.7
267.4	80°	227.9	182.4	175.3	191.1	221.8	255.1	328.8	577.7	524.3	518.1
120.1	82.5°	127.1	125.4	116.6	121.0	148.2	184.1	464.7	406.8	330.5	341.0
48.2	85°	59.6	73.6	63.1	60.5	83.3	215.7	310.4	232.3	154.3	150.8
10.5	87.5°	15.8	14.0	14.0	15.8	35.1	185.9	123.6	99.1	58.7	57.0
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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