

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: P949075

Luminaire Tested: **GALN-SB3D-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949075
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-SB3D-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 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: 22501 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

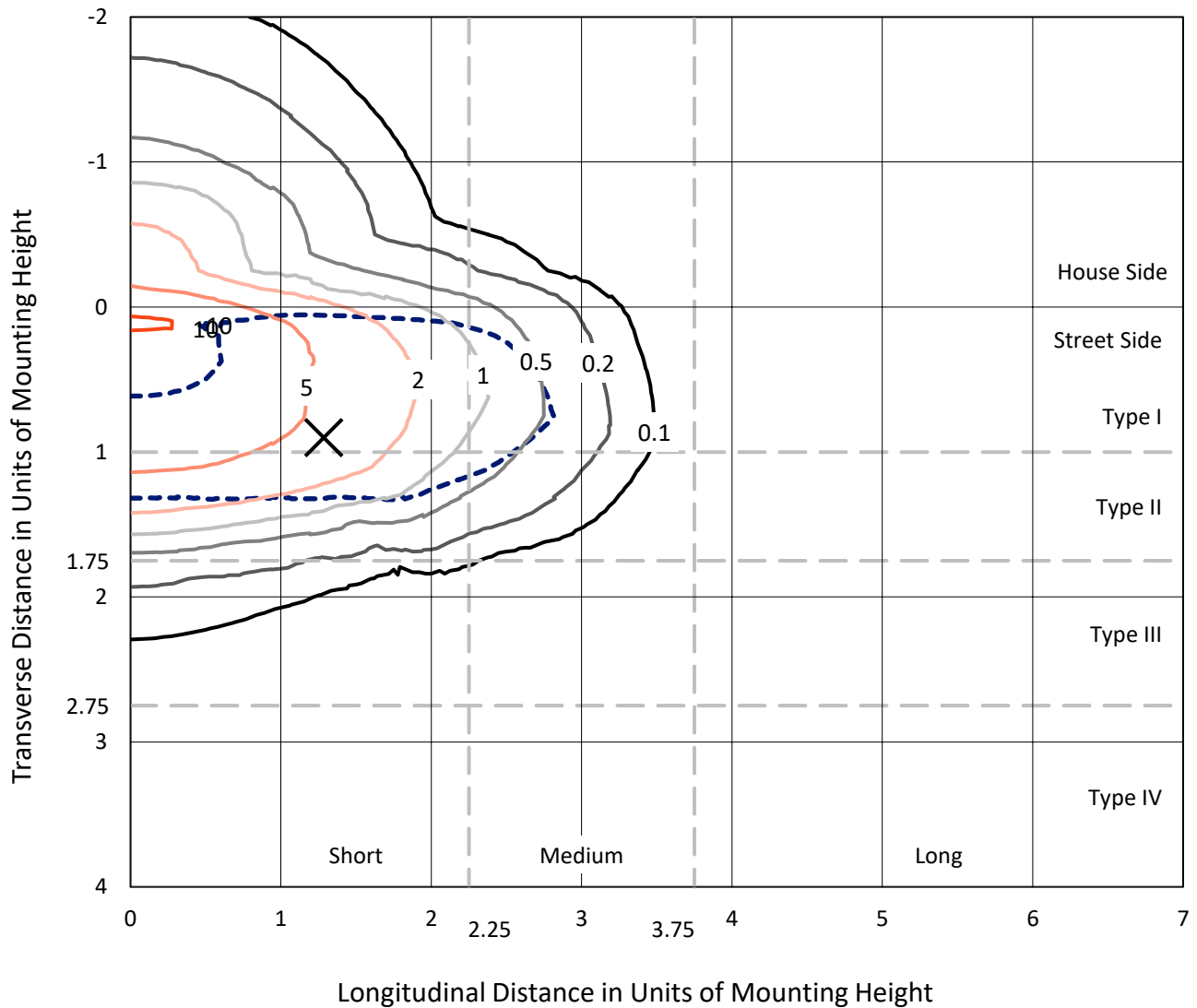
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

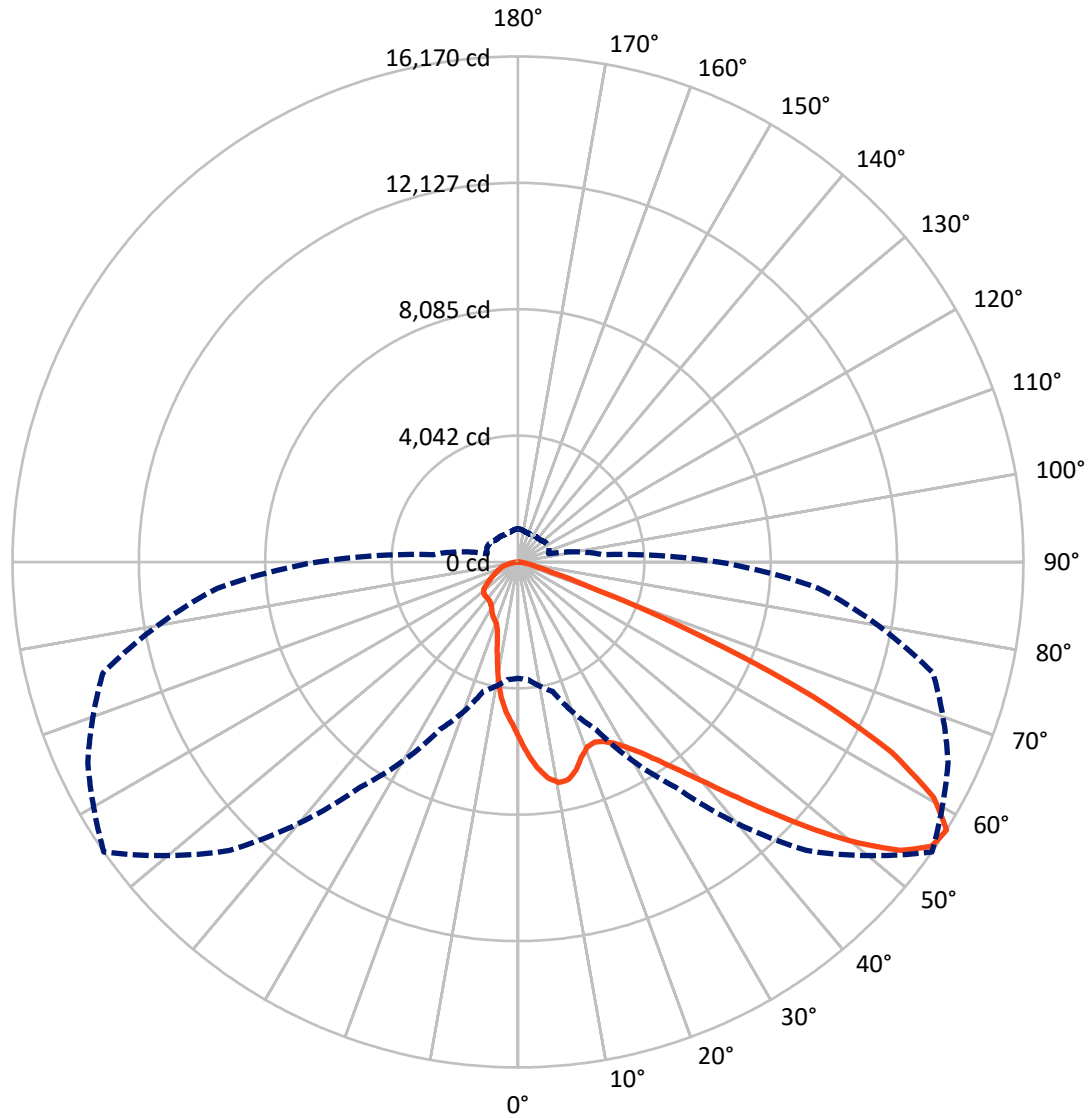
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	4071.4	0.0	4071.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18429.6	0.0	18429.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	22501.0	0.0	22501.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.2	2.3
10°-20°	1320.5	5.9
20°-30°	2107.2	9.4
30°-40°	3336.2	14.8
40°-50°	5106.4	22.7
50°-60°	5469.4	24.3
60°-70°	3440.8	15.3
70°-80°	1017.5	4.5
80°-90°	179.9	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°	22501.0	100.0
0°-180°	22501.0	100.0



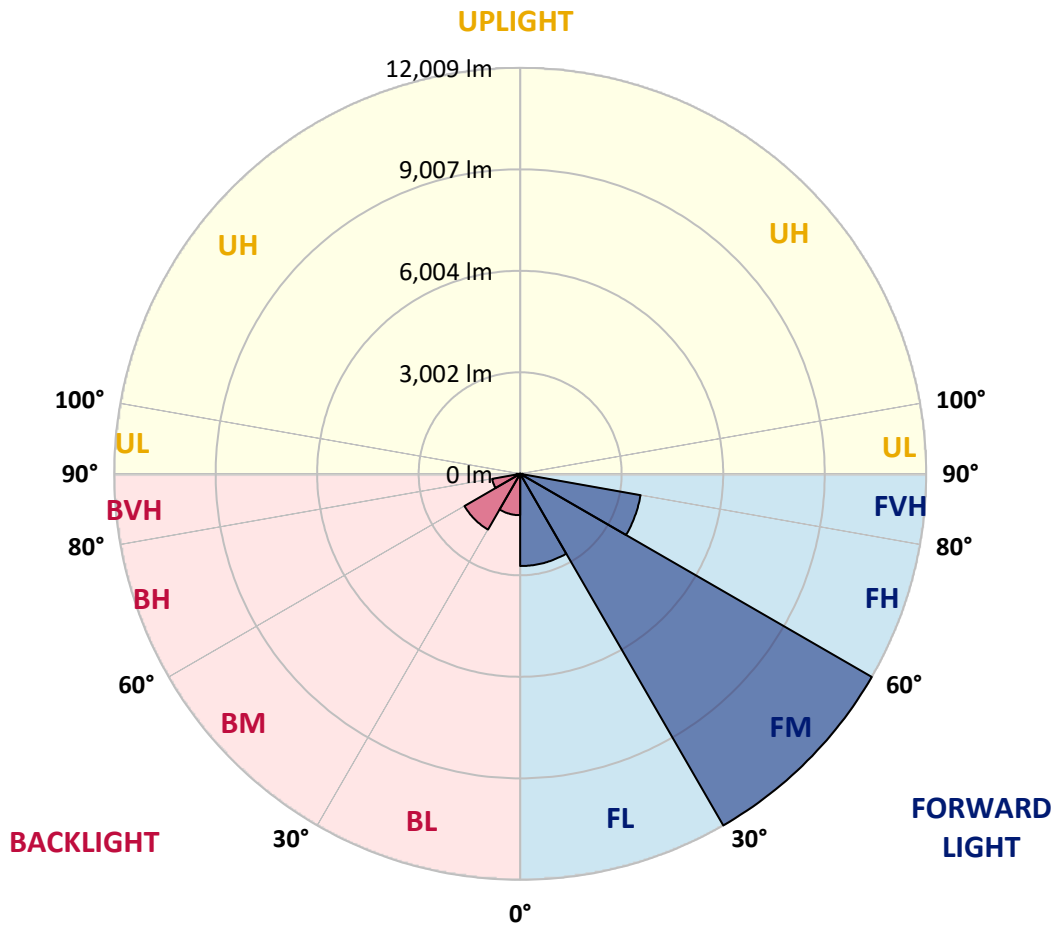
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2727.1	12.1			
FM (30°-60°)	12008.9	53.4			
FH (60°-80°)	3617.5	16.1			G2/5000
FVH (80°-90°)	76.0	0.3			G1/100
BL (0°-30°)	1223.7	5.4	B3/2500		
BM (30°-60°)	1903.0	8.5	B2/2500		
BH (60°-80°)	840.8	3.7	B2/1000		G2/1000
BVH (80°-90°)	103.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5638.0	5638.0	5638.0	5638.0	5638.0	5638.0	5638.0	5638.0	5638.0	5638.0
2.5°	6468.5	6463.9	6489.5	6402.2	6342.9	6262.7	6156.8	6021.9	5876.5	5722.9
5°	7051.3	7010.6	7037.3	6972.2	6907.1	6786.1	6629.1	6409.2	6140.5	5834.6
7.5°	6959.4	6931.5	7000.1	7058.3	7107.1	7092.0	6976.9	6746.5	6399.9	5955.6
10°	6218.5	6187.0	6283.6	6484.8	6780.3	7037.3	7176.9	7033.9	6665.1	6088.2
12.5°	5564.7	5549.6	5613.6	5776.4	6104.5	6597.7	7151.3	7285.1	6940.8	6245.2
15°	5285.6	5267.0	5307.7	5390.3	5599.6	6059.1	6918.7	7457.3	7211.8	6426.7
17.5°	5223.9	5203.0	5220.4	5263.5	5398.4	5748.5	6567.4	7542.2	7494.5	6629.1
20°	5337.9	5320.5	5322.8	5320.5	5414.7	5692.7	6323.1	7509.6	7741.1	6815.2
22.5°	5613.6	5584.5	5585.7	5524.0	5575.2	5790.4	6259.2	7422.4	7960.9	6978.0
25°	6062.6	6010.2	6020.7	5863.7	5849.7	6009.1	6359.2	7354.9	8179.6	7108.3
27.5°	6676.8	6617.4	6586.0	6352.2	6240.6	6319.7	6562.8	7378.2	8386.7	7221.1
30°	7444.5	7372.3	7308.4	6976.9	6774.5	6745.4	6879.2	7531.7	8630.9	7339.8
32.5°	8385.5	8301.7	8185.4	7745.7	7460.8	7308.4	7288.6	7805.1	8917.1	7491.0
35°	9505.7	9396.3	9231.1	8662.3	8301.7	7990.0	7828.3	8199.4	9309.1	7719.0
37.5°	10659.5	10536.2	10385.0	9708.0	9264.9	8805.4	8486.7	8734.5	9831.3	8028.4
40°	11723.9	11585.5	11444.7	10842.2	10366.4	9812.7	9292.8	9411.4	10469.9	8398.3
42.5°	12352.0	12249.6	12196.1	11870.4	11502.9	10941.0	10295.5	10214.0	11187.6	8824.0
45°	12324.1	12282.2	12447.4	12582.3	12495.1	12183.3	11470.3	11101.6	11907.7	9192.8
47.5°	11665.7	11693.6	12062.4	12820.8	13154.6	13317.5	12808.0	11972.8	12533.5	9468.4
50°	9874.4	9897.7	10751.4	12386.9	13324.4	14242.2	14135.2	12823.1	13018.5	9637.1
52.5°	8456.4	8471.6	8838.0	11100.4	12763.8	14707.5	15330.9	13624.5	13373.3	9683.6
55°	6369.7	6422.0	6832.6	8708.9	11305.1	14338.7	16059.1	14450.4	13597.8	9688.3
57.5°	3721.1	3778.1	4285.2	5911.4	8786.8	13053.4	16169.6	15183.2	13750.2	9651.1
60°	1822.7	1847.2	2068.2	3106.9	5418.2	10577.0	15280.9	15538.0	13835.1	9631.3
62.5°	1228.3	1224.8	1234.2	1533.1	2669.5	6795.4	13429.1	14916.8	13789.7	9555.7
65°	1056.2	1043.4	1008.5	1076.0	1383.0	3108.1	10375.7	13062.7	13444.2	9366.1
67.5°	913.1	914.3	915.4	894.5	987.6	1434.2	6340.6	10289.6	12204.3	8468.1
70°	756.1	766.5	771.2	771.2	804.9	941.0	2706.8	7052.5	9626.6	6639.5
72.5°	688.6	666.5	668.8	657.2	657.2	716.5	1089.9	3997.9	6064.9	3735.0
75°	561.8	575.8	578.1	570.0	543.2	546.7	646.7	1677.3	2595.1	1549.4
77.5°	485.1	485.1	489.7	483.9	463.0	409.4	431.5	650.2	882.9	635.1
80°	389.7	388.5	408.3	419.9	387.3	302.4	275.7	359.4	392.0	279.2
82.5°	189.6	201.2	280.3	319.9	294.3	218.7	168.7	223.3	209.4	123.3
85°	110.5	104.7	125.6	178.0	168.7	121.0	81.4	116.3	109.3	62.8
87.5°	34.9	32.6	25.6	60.5	48.9	33.7	22.1	33.7	30.2	14.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5638.0	0°	5638.0	5638.0	5638.0	5638.0	5638.0	5638.0	5638.0	5638.0	5638.0	5638.0
5656.6	2.5°	5574.0	5436.8	5300.7	5176.2	5100.6	5051.8	5002.9	4948.2	4927.3	4895.9
5671.8	5°	5518.2	5253.0	5016.9	4813.3	4628.4	4483.0	4336.4	4217.8	4164.2	4200.3
5719.4	7.5°	5485.6	5101.8	4737.7	4364.3	4004.9	3717.6	3467.5	3291.9	3212.8	3232.5
5766.0	10°	5456.6	4930.8	4376.0	3786.2	3269.7	2913.8	2657.9	2524.1	2474.1	2484.6
5828.8	12.5°	5429.8	4738.9	3939.8	3163.9	2614.9	2379.9	2306.6	2307.8	2317.1	2324.1
5928.8	15°	5425.2	4507.4	3452.4	2619.5	2261.3	2246.1	2325.2	2375.3	2402.0	2410.1
6012.6	17.5°	5418.2	4230.6	2955.7	2248.5	2175.2	2277.5	2350.8	2383.4	2404.3	2405.5
6094.0	20°	5390.3	3879.3	2497.4	2071.7	2156.6	2245.0	2290.3	2315.9	2333.4	2339.2
6155.6	22.5°	5304.2	3488.4	2140.3	1992.6	2082.1	2153.1	2206.6	2235.7	2246.1	2253.1
6167.3	25°	5149.5	3051.1	1893.7	1917.0	1978.6	2068.2	2111.2	2117.0	2113.5	2124.0
6138.2	27.5°	4947.1	2582.3	1740.1	1814.6	1893.7	1970.5	1993.7	1990.2	1983.3	1994.9
6088.2	30°	4702.8	2161.2	1642.4	1699.4	1807.6	1877.4	1898.3	1890.2	1876.2	1889.0
6062.6	32.5°	4444.6	1816.9	1562.2	1619.2	1736.7	1805.3	1826.2	1818.1	1807.6	1818.1
6091.7	35°	4203.8	1576.1	1487.7	1565.7	1680.8	1748.3	1775.0	1776.2	1776.2	1789.0
6168.4	37.5°	3982.8	1435.4	1426.1	1531.9	1642.4	1702.9	1741.3	1743.6	1693.6	1697.1
6298.7	40°	3778.1	1376.1	1398.2	1509.8	1605.2	1663.4	1665.7	1535.4	1443.5	1441.2
6447.6	42.5°	3610.6	1364.4	1406.3	1507.5	1578.5	1580.8	1416.8	1315.6	1290.0	1291.1
6584.9	45°	3453.5	1360.9	1424.9	1507.5	1538.9	1365.6	1255.1	1228.3	1230.7	1240.0
6646.5	47.5°	3277.9	1347.0	1428.4	1486.6	1424.9	1214.4	1181.8	1170.2	1165.5	1167.9
6632.6	50°	3086.0	1297.0	1384.2	1444.7	1229.5	1149.2	1108.5	1105.0	1110.9	1114.3
6554.6	52.5°	2883.6	1215.5	1308.6	1369.1	1139.9	1092.2	1046.9	1055.0	1080.6	1088.8
6473.2	55°	2751.0	1120.2	1208.6	1217.9	1077.1	1038.7	1000.4	1019.0	1066.7	1081.8
6424.3	57.5°	2716.1	1019.0	1094.6	1084.1	996.9	992.2	968.9	985.2	1045.7	1067.8
6422.0	60°	2705.6	928.2	982.9	974.8	918.9	941.0	935.2	943.4	964.3	971.3
6398.8	62.5°	2624.2	856.1	882.9	871.2	849.1	887.5	901.5	884.0	900.3	908.5
6239.4	65°	2417.1	798.0	785.2	777.0	786.3	821.2	849.1	814.2	829.4	852.6
5625.2	67.5°	2075.1	718.9	684.0	693.3	722.3	741.0	777.0	737.5	750.3	789.8
4530.7	70°	1678.5	618.8	587.4	614.2	642.1	680.5	686.3	659.5	689.8	734.0
2764.9	72.5°	1187.6	517.6	495.5	550.2	559.5	609.5	596.7	583.9	625.8	640.9
1366.8	75°	823.5	417.6	404.8	446.7	480.4	523.4	514.1	529.3	617.7	624.6
682.8	77.5°	521.1	324.5	316.4	343.1	389.7	437.4	452.5	624.6	1055.0	1096.9
354.8	80°	302.4	241.9	232.6	253.6	294.3	338.5	436.2	766.5	695.6	687.4
159.4	82.5°	168.7	166.3	154.7	160.5	196.6	244.3	616.5	539.7	438.5	452.5
64.0	85°	79.1	97.7	83.8	80.3	110.5	286.1	411.8	308.2	204.7	200.1
14.0	87.5°	20.9	18.6	18.6	20.9	46.5	246.6	164.0	131.4	77.9	75.6
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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