

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: P952288

Luminaire Tested: **GALN-SB6A-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952288
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-SB6A-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20047 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

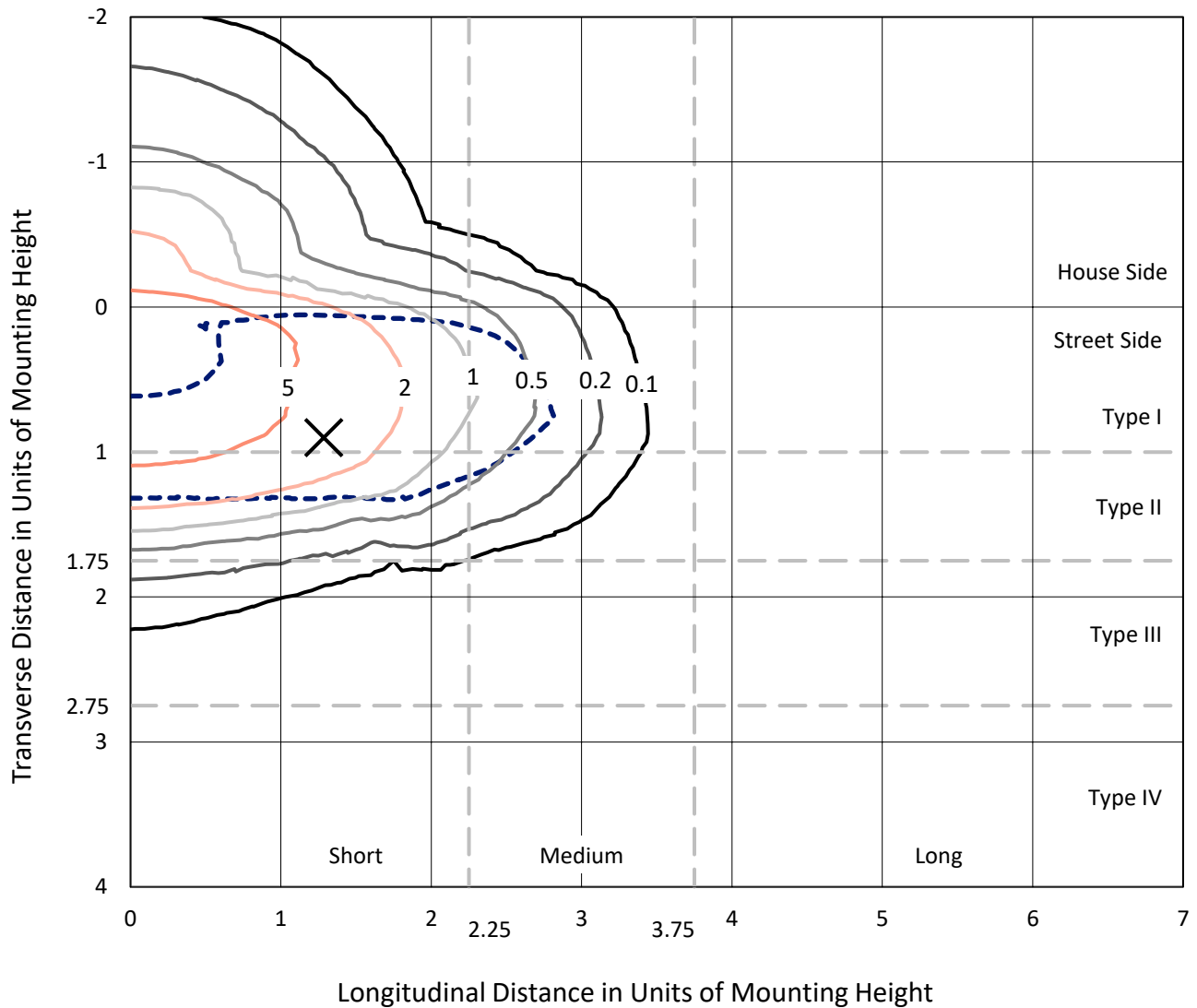
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

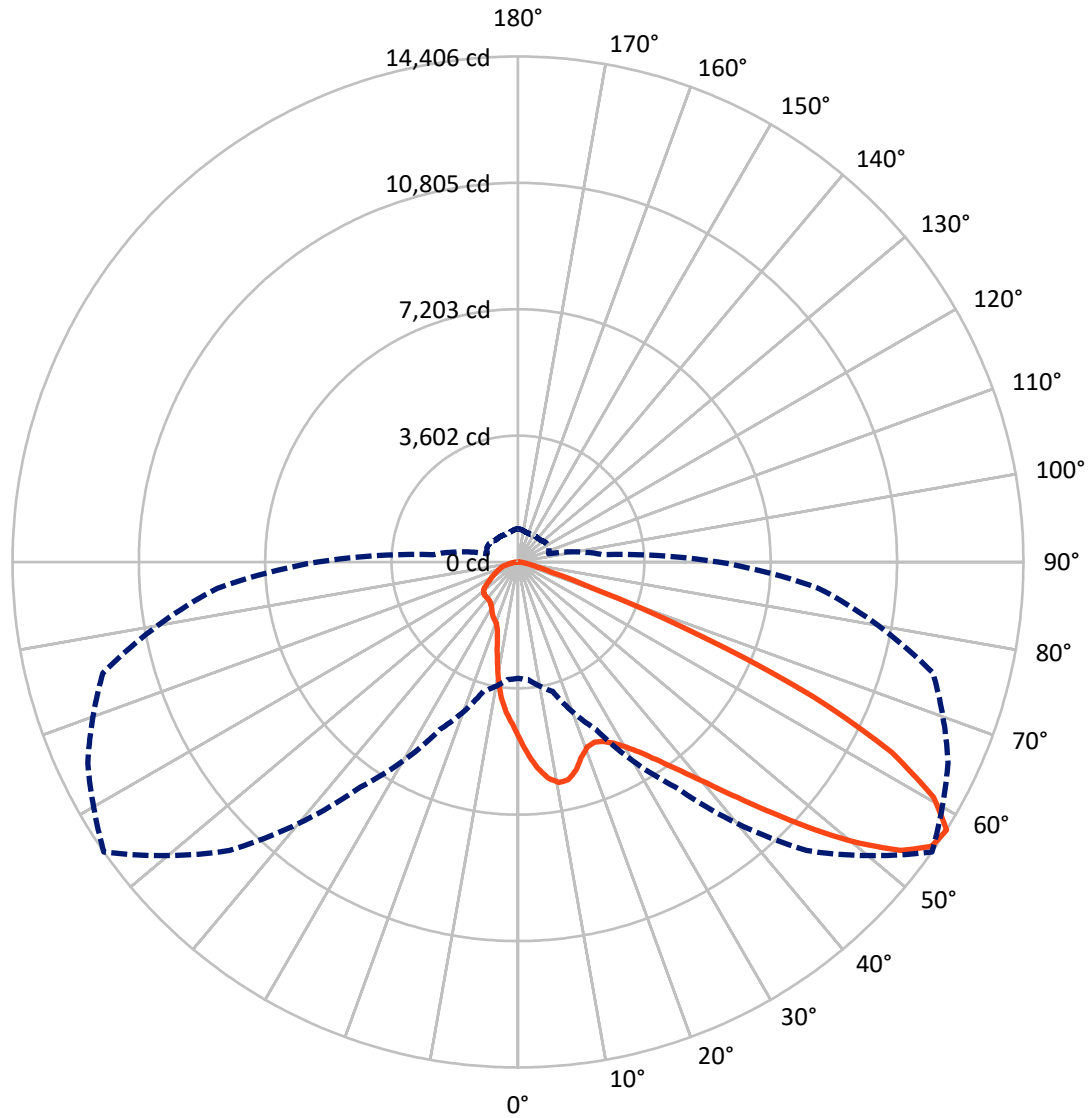
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	3627.4	0.0	3627.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16419.6	0.0	16419.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	20047.0	0.0	20047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.1	2.3
10°-20°	1176.5	5.9
20°-30°	1877.4	9.4
30°-40°	2972.3	14.8
40°-50°	4549.4	22.7
50°-60°	4872.9	24.3
60°-70°	3065.6	15.3
70°-80°	906.5	4.5
80°-90°	160.3	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°	20047.0	100.0
0°-180°	20047.0	100.0

Coefficient of Utilization



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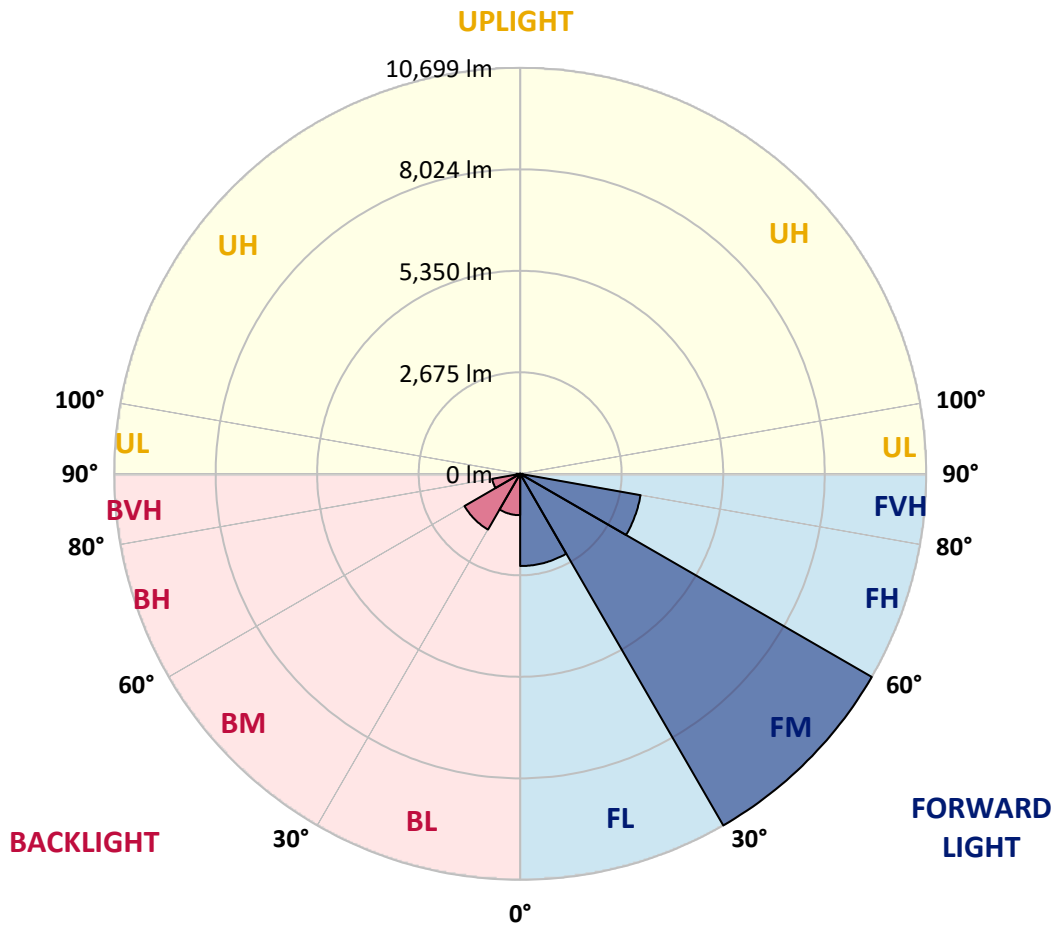
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2429.7	12.1			
FM (30°-60°)	10699.2	53.4			
FH (60°-80°)	3223.0	16.1			G2/5000
FVH (80°-90°)	67.7	0.3			G1/100
BL (0°-30°)	1090.3	5.4	B3/2500		
BM (30°-60°)	1695.4	8.5	B2/2500		
BH (60°-80°)	749.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	92.6	0.5			G1/100
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°	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1
2.5°	5763.1	5758.9	5781.7	5704.0	5651.1	5579.6	5485.3	5365.1	5235.6	5098.8
5°	6282.3	6246.0	6269.8	6211.8	6153.8	6046.0	5906.1	5710.2	5470.8	5198.3
7.5°	6200.4	6175.5	6236.7	6288.5	6332.0	6318.5	6216.0	6010.8	5701.9	5306.0
10°	5540.3	5512.3	5598.3	5777.6	6040.8	6269.8	6394.2	6266.7	5938.2	5424.2
12.5°	4957.8	4944.4	5001.4	5146.5	5438.7	5878.1	6371.4	6490.6	6183.8	5564.1
15°	4709.1	4692.5	4728.8	4802.4	4988.9	5398.3	6164.1	6644.0	6425.3	5725.8
17.5°	4654.2	4635.5	4651.1	4689.4	4809.6	5121.6	5851.2	6719.6	6677.1	5906.1
20°	4755.8	4740.2	4742.3	4740.2	4824.2	5071.8	5633.5	6690.6	6896.8	6071.9
22.5°	5001.4	4975.5	4976.5	4921.6	4967.2	5158.9	5576.5	6612.9	7092.7	6217.0
25°	5401.4	5354.8	5364.1	5224.2	5211.7	5353.7	5665.7	6552.8	7287.5	6333.1
27.5°	5948.6	5895.7	5867.7	5659.4	5560.0	5630.4	5847.0	6573.5	7472.0	6433.6
30°	6632.6	6568.3	6511.3	6216.0	6035.6	6009.7	6128.9	6710.3	7689.6	6539.3
32.5°	7471.0	7396.3	7292.7	6901.0	6647.1	6511.3	6493.7	6953.8	7944.6	6674.0
35°	8468.9	8371.5	8224.4	7717.6	7396.3	7118.6	6974.6	7305.1	8293.8	6877.1
37.5°	9497.0	9387.1	9252.4	8649.3	8254.4	7845.1	7561.1	7781.9	8759.1	7152.8
40°	10445.2	10321.9	10196.5	9659.7	9235.8	8742.5	8279.3	8385.0	9328.1	7482.4
42.5°	11004.9	10913.7	10866.0	10575.8	10248.3	9747.8	9172.6	9100.1	9967.5	7861.7
45°	10980.0	10942.7	11089.8	11210.1	11132.3	10854.6	10219.3	9890.8	10609.0	8190.2
47.5°	10393.4	10418.3	10746.8	11422.5	11719.9	11865.0	11411.1	10667.0	11166.5	8435.8
50°	8797.5	8818.2	9578.9	11036.0	11871.2	12688.9	12593.6	11424.6	11598.7	8586.1
52.5°	7534.2	7547.6	7874.1	9889.8	11371.7	13103.5	13658.9	12138.6	11914.8	8627.5
55°	5675.0	5721.6	6087.4	7759.1	10072.2	12774.9	14307.7	12874.4	12114.8	8631.7
57.5°	3315.2	3366.0	3817.9	5266.7	7828.5	11629.8	14406.1	13527.3	12250.5	8598.5
60°	1623.9	1645.7	1842.6	2768.1	4827.3	9423.4	13614.4	13843.4	12326.2	8580.9
62.5°	1094.4	1091.3	1099.6	1365.9	2378.4	6054.3	11964.5	13290.0	12285.8	8513.5
65°	941.0	929.6	898.5	958.6	1232.2	2769.1	9244.1	11638.1	11978.0	8344.6
67.5°	813.5	814.6	815.6	796.9	879.9	1277.8	5649.1	9167.4	10873.3	7544.5
70°	673.6	682.9	687.1	687.1	717.1	838.4	2411.6	6283.3	8576.7	5915.4
72.5°	613.5	593.8	595.9	585.5	585.5	638.4	971.0	3561.9	5403.5	3327.7
75°	500.6	513.0	515.1	507.8	484.0	487.1	576.2	1494.4	2312.1	1380.4
77.5°	432.2	432.2	436.3	431.1	412.5	364.8	384.5	579.3	786.6	565.8
80°	347.2	346.1	363.8	374.1	345.1	269.4	245.6	320.2	349.2	248.7
82.5°	168.9	179.3	249.8	285.0	262.2	194.8	150.3	199.0	186.5	109.9
85°	98.5	93.3	111.9	158.6	150.3	107.8	72.5	103.6	97.4	56.0
87.5°	31.1	29.0	22.8	53.9	43.5	30.1	19.7	30.1	26.9	12.4
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°
5023.1	0°	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1
5039.7	2.5°	4966.1	4843.8	4722.6	4611.7	4544.3	4500.8	4457.3	4408.6	4389.9	4361.9
5053.2	5°	4916.4	4680.1	4469.7	4288.4	4123.6	3994.0	3863.5	3757.8	3710.1	3742.2
5095.7	7.5°	4887.4	4545.4	4221.0	3888.3	3568.1	3312.1	3089.3	2932.8	2862.4	2880.0
5137.1	10°	4861.5	4393.0	3898.7	3373.3	2913.1	2596.0	2368.0	2248.9	2204.3	2213.6
5193.1	12.5°	4837.6	4222.0	3510.1	2818.8	2329.7	2120.3	2055.1	2056.1	2064.4	2070.6
5282.2	15°	4833.5	4015.8	3075.8	2333.8	2014.6	2001.2	2071.6	2116.2	2140.0	2147.3
5356.8	17.5°	4827.3	3769.2	2633.3	2003.2	1938.0	2029.1	2094.4	2123.5	2142.1	2143.1
5429.4	20°	4802.4	3456.2	2225.0	1845.7	1921.4	2000.1	2040.5	2063.3	2078.9	2084.1
5484.3	22.5°	4725.7	3108.0	1906.9	1775.2	1855.0	1918.3	1965.9	1991.8	2001.2	2007.4
5494.7	25°	4587.9	2718.3	1687.2	1707.9	1762.8	1842.6	1881.0	1886.1	1883.0	1892.4
5468.8	27.5°	4407.5	2300.7	1550.4	1616.7	1687.2	1755.6	1776.3	1773.2	1767.0	1777.3
5424.2	30°	4189.9	1925.5	1463.3	1514.1	1610.5	1672.6	1691.3	1684.0	1671.6	1683.0
5401.4	32.5°	3959.8	1618.8	1391.8	1442.6	1547.3	1608.4	1627.0	1619.8	1610.5	1619.8
5427.3	35°	3745.3	1404.2	1325.5	1394.9	1497.5	1557.6	1581.5	1582.5	1582.5	1593.9
5495.7	37.5°	3548.4	1278.8	1270.5	1364.9	1463.3	1517.2	1551.4	1553.5	1508.9	1512.0
5611.8	40°	3366.0	1226.0	1245.7	1345.2	1430.1	1482.0	1484.0	1368.0	1286.1	1284.0
5744.4	42.5°	3216.8	1215.6	1252.9	1343.1	1406.3	1408.4	1262.3	1172.1	1149.3	1150.3
5866.7	45°	3076.9	1212.5	1269.5	1343.1	1371.1	1216.7	1118.2	1094.4	1096.4	1104.7
5921.6	47.5°	2920.4	1200.1	1272.6	1324.4	1269.5	1081.9	1052.9	1042.6	1038.4	1040.5
5909.2	50°	2749.4	1155.5	1233.2	1287.1	1095.4	1023.9	987.6	984.5	989.7	992.8
5839.8	52.5°	2569.1	1083.0	1165.9	1219.8	1015.6	973.1	932.7	940.0	962.8	970.0
5767.2	55°	2450.9	998.0	1076.8	1085.0	959.6	925.4	891.3	907.8	950.3	963.8
5723.7	57.5°	2419.8	907.8	975.2	965.9	888.1	884.0	863.3	877.8	931.7	951.4
5721.6	60°	2410.5	827.0	875.7	868.5	818.7	838.4	833.2	840.5	859.1	865.3
5700.9	62.5°	2338.0	762.7	786.6	776.2	756.5	790.7	803.2	787.6	802.1	809.4
5558.9	65°	2153.5	710.9	699.5	692.3	700.6	731.7	756.5	725.4	738.9	759.6
5011.7	67.5°	1848.8	640.5	609.4	617.7	643.6	660.1	692.3	657.0	668.4	703.7
4036.5	70°	1495.4	551.3	523.4	547.2	572.1	606.3	611.4	587.6	614.5	653.9
2463.4	72.5°	1058.1	461.2	441.5	490.2	498.5	543.0	531.6	520.2	557.5	571.0
1217.7	75°	733.7	372.0	360.6	398.0	428.0	466.4	458.1	471.5	550.3	556.5
608.3	77.5°	464.3	289.1	281.9	305.7	347.2	389.7	403.1	556.5	940.0	977.3
316.1	80°	269.4	215.6	207.3	225.9	262.2	301.6	388.6	682.9	619.7	612.5
142.0	82.5°	150.3	148.2	137.8	143.0	175.1	217.6	549.3	480.9	390.7	403.1
57.0	85°	70.5	87.1	74.6	71.5	98.5	254.9	366.9	274.6	182.4	178.3
12.4	87.5°	18.7	16.6	16.6	18.7	41.5	219.7	146.1	117.1	69.4	67.4
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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