

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: P950713

Luminaire Tested: **GALN-SB5A-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950713
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-SB5A-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20707 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

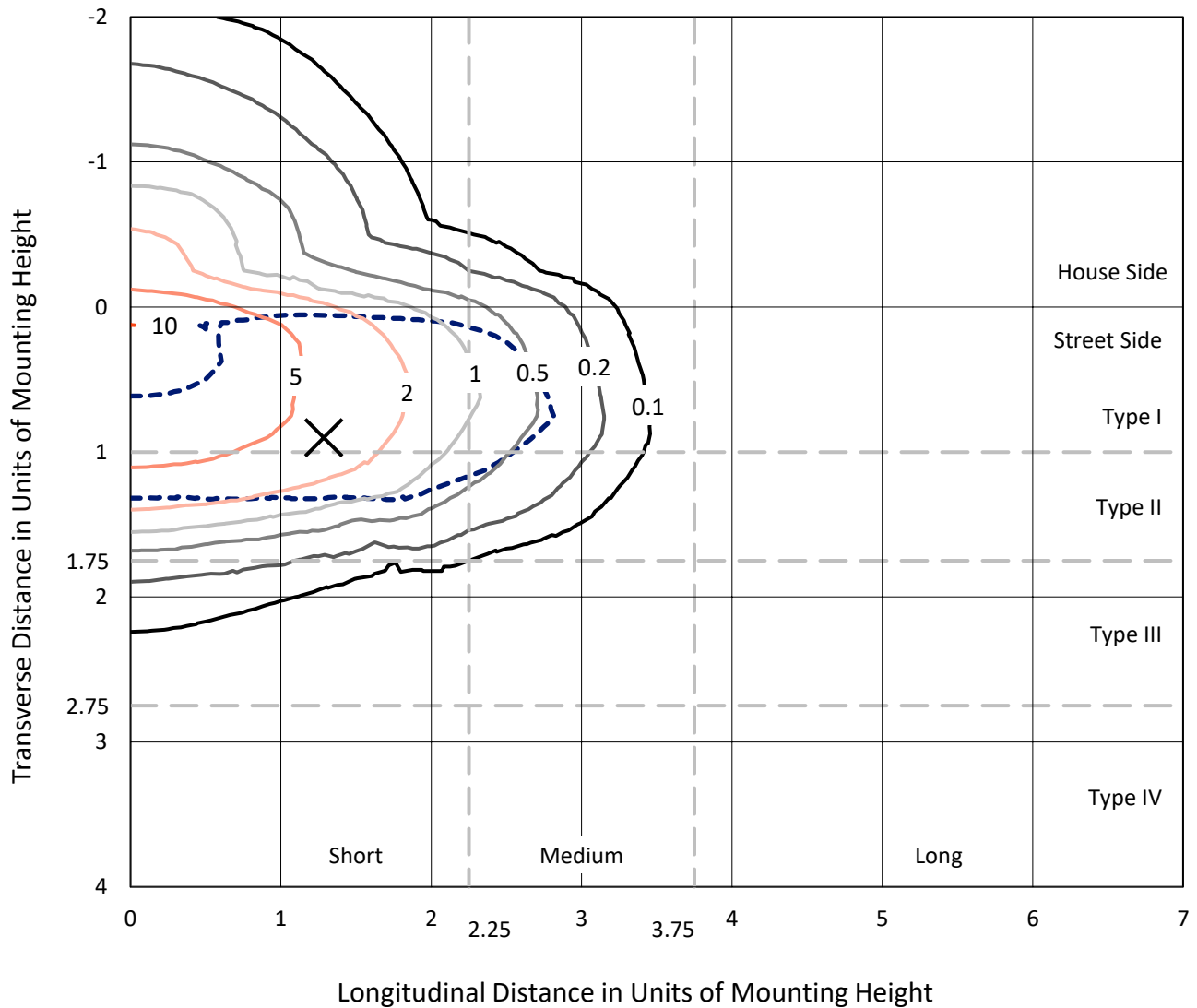
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

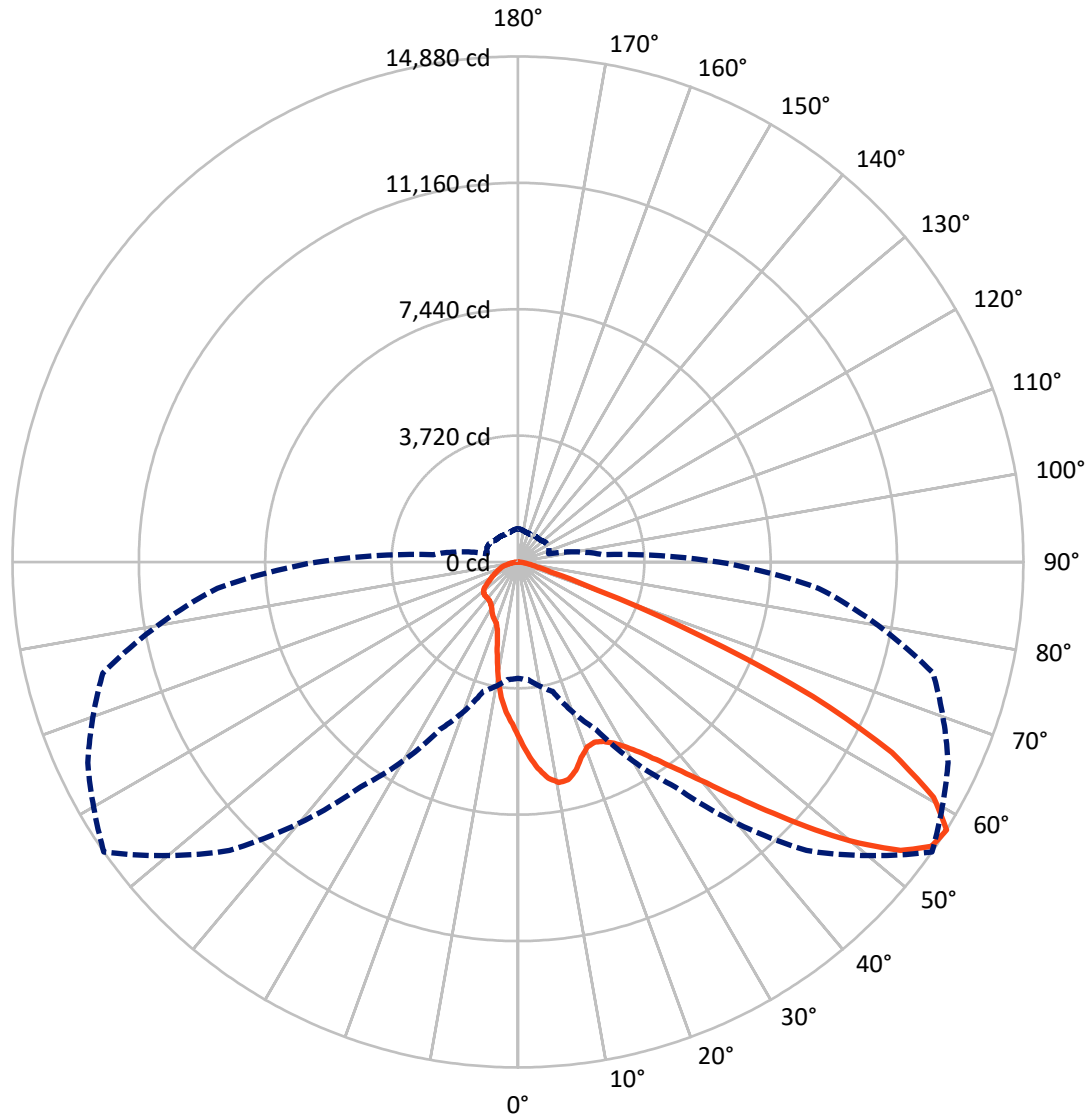
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	3746.8	0.0	3746.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16960.2	0.0	16960.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	20707.0	0.0	20707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.5	2.3
10°-20°	1215.2	5.9
20°-30°	1939.2	9.4
30°-40°	3070.2	14.8
40°-50°	4699.2	22.7
50°-60°	5033.3	24.3
60°-70°	3166.5	15.3
70°-80°	936.4	4.5
80°-90°	165.6	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°	20707.0	100.0
0°-180°	20707.0	100.0

Coefficient of Utilization

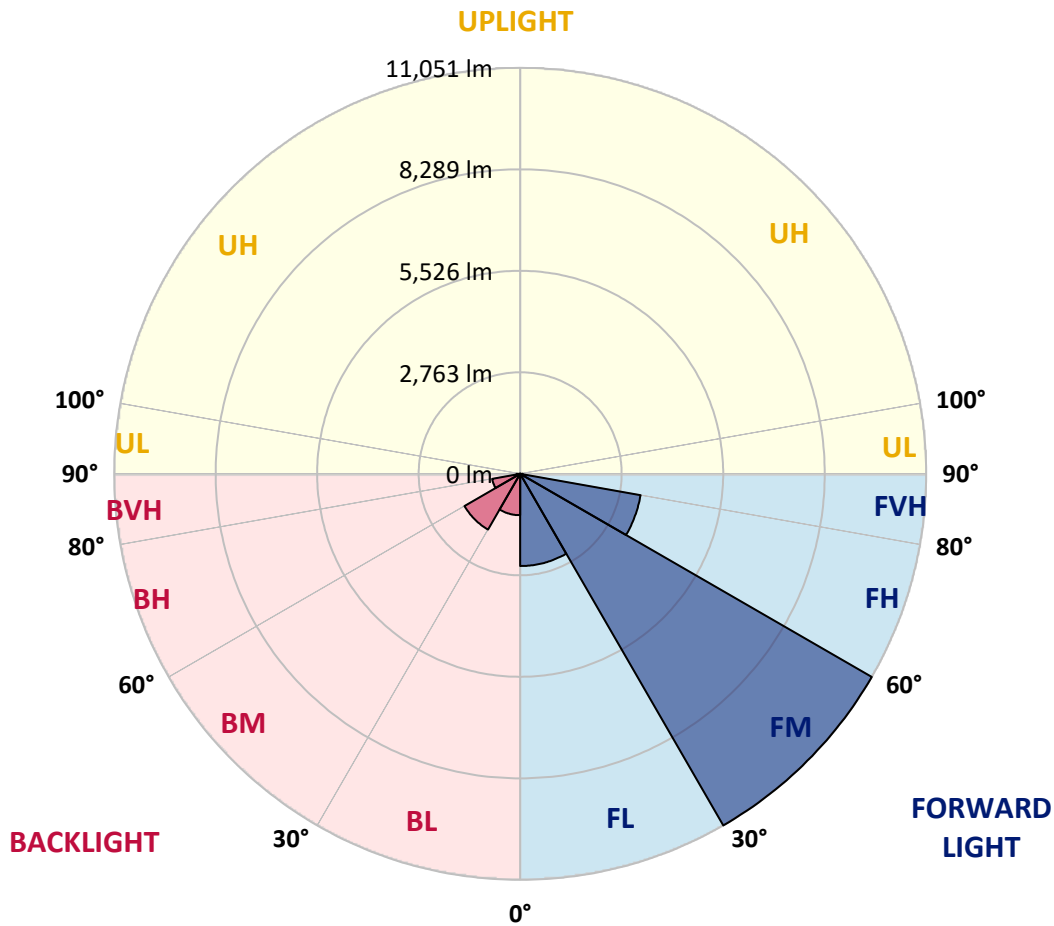


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2509.7	12.1			
FM (30°-60°)	11051.5	53.4			
FH (60°-80°)	3329.1	16.1			G2/5000
FVH (80°-90°)	69.9	0.3			G1/100
BL (0°-30°)	1126.2	5.4	B3/2500		
BM (30°-60°)	1751.2	8.5	B2/2500		
BH (60°-80°)	773.8	3.7	B2/1000		G2/1000
BVH (80°-90°)	95.6	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°	5188.5	5188.5	5188.5	5188.5	5188.5	5188.5	5188.5	5188.5	5188.5	5188.5
2.5°	5952.8	5948.5	5972.1	5891.8	5837.2	5763.3	5665.9	5541.8	5407.9	5266.6
5°	6489.1	6451.6	6476.3	6416.3	6356.4	6245.0	6100.5	5898.2	5650.9	5369.4
7.5°	6404.5	6378.8	6442.0	6495.5	6540.5	6526.6	6420.6	6208.6	5889.7	5480.7
10°	5722.7	5693.8	5782.6	5967.8	6239.7	6476.3	6604.7	6473.0	6133.7	5602.8
12.5°	5121.1	5107.1	5166.0	5315.9	5617.8	6071.6	6581.2	6704.3	6387.4	5747.3
15°	4864.2	4847.0	4884.5	4960.5	5153.2	5576.0	6367.1	6862.7	6636.8	5914.3
17.5°	4807.4	4788.2	4804.2	4843.8	4968.0	5290.2	6043.8	6940.8	6897.0	6100.5
20°	4912.3	4896.3	4898.4	4896.3	4983.0	5238.8	5819.0	6910.9	7123.9	6271.8
22.5°	5166.0	5139.3	5140.3	5083.6	5130.7	5328.7	5760.1	6830.6	7326.2	6421.7
25°	5579.2	5531.0	5540.7	5396.2	5383.3	5530.0	5852.2	6768.5	7527.4	6541.6
27.5°	6144.4	6089.8	6060.9	5845.8	5743.0	5815.8	6039.5	6789.9	7718.0	6645.4
30°	6850.9	6784.6	6725.7	6420.6	6234.3	6207.6	6330.7	6931.2	7942.8	6754.6
32.5°	7716.9	7639.8	7532.8	7128.2	6865.9	6725.7	6707.5	7182.8	8206.1	6893.7
35°	8747.8	8647.1	8495.1	7971.7	7639.8	7353.0	7204.2	7545.6	8566.9	7103.5
37.5°	9809.7	9696.2	9557.0	8934.0	8526.2	8103.4	7810.0	8038.1	9047.5	7388.3
40°	10789.1	10661.7	10532.2	9977.7	9539.9	9030.4	8551.9	8661.1	9635.2	7728.7
42.5°	11367.2	11273.0	11223.7	10924.0	10585.7	10068.7	9474.6	9399.7	10295.6	8120.5
45°	11341.5	11302.9	11455.0	11579.1	11498.8	11212.0	10555.8	10216.4	10958.3	8459.8
47.5°	10735.6	10761.3	11100.6	11798.6	12105.8	12255.7	11786.8	11018.2	11534.2	8713.5
50°	9087.1	9108.5	9894.2	11399.3	12262.1	13106.7	13008.2	11800.7	11980.5	8868.7
52.5°	7782.2	7796.1	8133.3	10215.4	11746.1	13534.9	14108.6	12538.3	12307.0	8911.5
55°	5861.8	5910.0	6287.9	8014.5	10403.8	13195.5	14778.7	13298.3	12513.6	8915.8
57.5°	3424.4	3476.8	3943.6	5440.1	8086.2	12012.7	14880.4	13972.7	12653.9	8881.6
60°	1677.4	1699.9	1903.3	2859.2	4986.2	9733.7	14062.6	14299.2	12732.0	8863.4
62.5°	1130.4	1127.2	1135.8	1410.9	2456.7	6253.6	12358.4	13727.5	12690.3	8793.8
65°	972.0	960.2	928.1	990.2	1272.8	2860.3	9548.5	12021.2	12372.3	8619.3
67.5°	840.3	841.4	842.4	823.2	908.8	1319.9	5835.1	9469.3	11231.2	7792.9
70°	695.8	705.4	709.7	709.7	740.8	866.0	2491.0	6490.2	8859.1	6110.2
72.5°	633.7	613.4	615.5	604.8	604.8	659.4	1003.0	3679.2	5581.4	3437.2
75°	517.0	529.9	532.0	524.5	499.9	503.1	595.2	1543.6	2388.2	1425.8
77.5°	446.4	446.4	450.7	445.3	426.0	376.8	397.1	598.4	812.5	584.5
80°	358.6	357.5	375.7	386.4	356.5	278.3	253.7	330.8	360.7	256.9
82.5°	174.5	185.2	258.0	294.4	270.8	201.2	155.2	205.5	192.7	113.5
85°	101.7	96.3	115.6	163.8	155.2	111.3	74.9	107.0	100.6	57.8
87.5°	32.1	30.0	23.6	55.7	45.0	31.0	20.3	31.0	27.8	12.8
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°
5188.5	0°	5188.5	5188.5	5188.5	5188.5	5188.5	5188.5	5188.5	5188.5	5188.5	5188.5
5205.6	2.5°	5129.6	5003.3	4878.1	4763.5	4694.0	4649.0	4604.0	4553.7	4534.5	4505.6
5219.5	5°	5078.2	4834.2	4616.9	4429.5	4259.3	4125.5	3990.7	3881.5	3832.2	3865.4
5263.4	7.5°	5048.3	4695.0	4360.0	4016.4	3685.6	3421.2	3191.0	3029.4	2956.6	2974.8
5306.3	10°	5021.5	4537.7	4027.1	3484.3	3009.1	2681.5	2446.0	2322.9	2276.9	2286.5
5364.1	12.5°	4996.9	4361.0	3625.6	2911.6	2406.4	2190.2	2122.7	2123.8	2132.3	2138.8
5456.1	15°	4992.6	4148.0	3177.1	2410.7	2081.0	2067.1	2139.8	2185.9	2210.5	2218.0
5533.2	17.5°	4986.2	3893.2	2720.0	2069.2	2001.8	2096.0	2163.4	2193.4	2212.6	2213.7
5608.1	20°	4960.5	3570.0	2298.3	1906.5	1984.6	2066.0	2107.7	2131.3	2147.3	2152.7
5664.9	22.5°	4881.3	3210.3	1969.6	1833.7	1916.1	1981.4	2030.7	2057.4	2067.1	2073.5
5675.6	25°	4738.9	2807.8	1742.7	1764.1	1820.8	1903.3	1942.9	1948.2	1945.0	1954.7
5648.8	27.5°	4552.7	2376.4	1601.4	1669.9	1742.7	1813.4	1834.8	1831.6	1825.1	1835.8
5602.8	30°	4327.9	1988.9	1511.5	1563.9	1663.5	1727.7	1747.0	1739.5	1726.6	1738.4
5579.2	32.5°	4090.2	1672.1	1437.6	1490.1	1598.2	1661.3	1680.6	1673.1	1663.5	1673.1
5606.0	35°	3868.6	1450.5	1369.1	1440.8	1546.8	1608.9	1633.5	1634.6	1634.6	1646.4
5676.6	37.5°	3665.2	1320.9	1312.4	1409.8	1511.5	1567.1	1602.5	1604.6	1558.6	1561.8
5796.5	40°	3476.8	1266.3	1286.7	1389.5	1477.2	1530.8	1532.9	1413.0	1328.4	1326.3
5933.5	42.5°	3322.7	1255.6	1294.2	1387.3	1452.6	1454.8	1303.8	1210.7	1187.1	1188.2
6059.9	45°	3178.2	1252.4	1311.3	1387.3	1416.2	1256.7	1155.0	1130.4	1132.5	1141.1
6116.6	47.5°	3016.5	1239.6	1314.5	1368.0	1311.3	1117.6	1087.6	1076.9	1072.6	1074.7
6103.7	50°	2839.9	1193.6	1273.8	1329.5	1131.5	1057.6	1020.1	1016.9	1022.3	1025.5
6032.0	52.5°	2653.7	1118.6	1204.3	1259.9	1049.0	1005.2	963.4	970.9	994.5	1001.9
5957.1	55°	2531.6	1030.8	1112.2	1120.8	991.2	955.9	920.6	937.7	981.6	995.5
5912.1	57.5°	2499.5	937.7	1007.3	997.7	917.4	913.1	891.7	906.7	962.3	982.7
5910.0	60°	2489.9	854.2	904.5	897.0	845.7	866.0	860.6	868.1	887.4	893.8
5888.6	62.5°	2414.9	787.9	812.5	801.8	781.4	816.8	829.6	813.5	828.5	836.0
5741.9	65°	2224.4	734.3	722.6	715.1	723.6	755.7	781.4	749.3	763.2	784.6
5176.7	67.5°	1909.7	661.5	629.4	638.0	664.8	681.9	715.1	678.7	690.4	726.8
4169.4	70°	1544.7	569.5	540.6	565.2	590.9	626.2	631.6	606.9	634.8	675.5
2544.5	72.5°	1092.9	476.4	456.0	506.3	514.9	560.9	549.1	537.4	575.9	589.8
1257.8	75°	757.9	384.3	372.5	411.1	442.1	481.7	473.1	487.1	568.4	574.8
628.4	77.5°	479.6	298.7	291.2	315.8	358.6	402.5	416.4	574.8	970.9	1009.4
326.5	80°	278.3	222.7	214.1	233.4	270.8	311.5	401.4	705.4	640.1	632.6
146.7	82.5°	155.2	153.1	142.4	147.7	180.9	224.8	567.3	496.7	403.6	416.4
58.9	85°	72.8	89.9	77.1	73.9	101.7	263.3	378.9	283.7	188.4	184.1
12.8	87.5°	19.3	17.1	17.1	19.3	42.8	226.9	150.9	121.0	71.7	69.6
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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