

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: P956320

Luminaire Tested: **GALN-SB9A-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956320
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-SB9A-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41554 lumens
Efficiency: N/A
Efficacy: 162.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

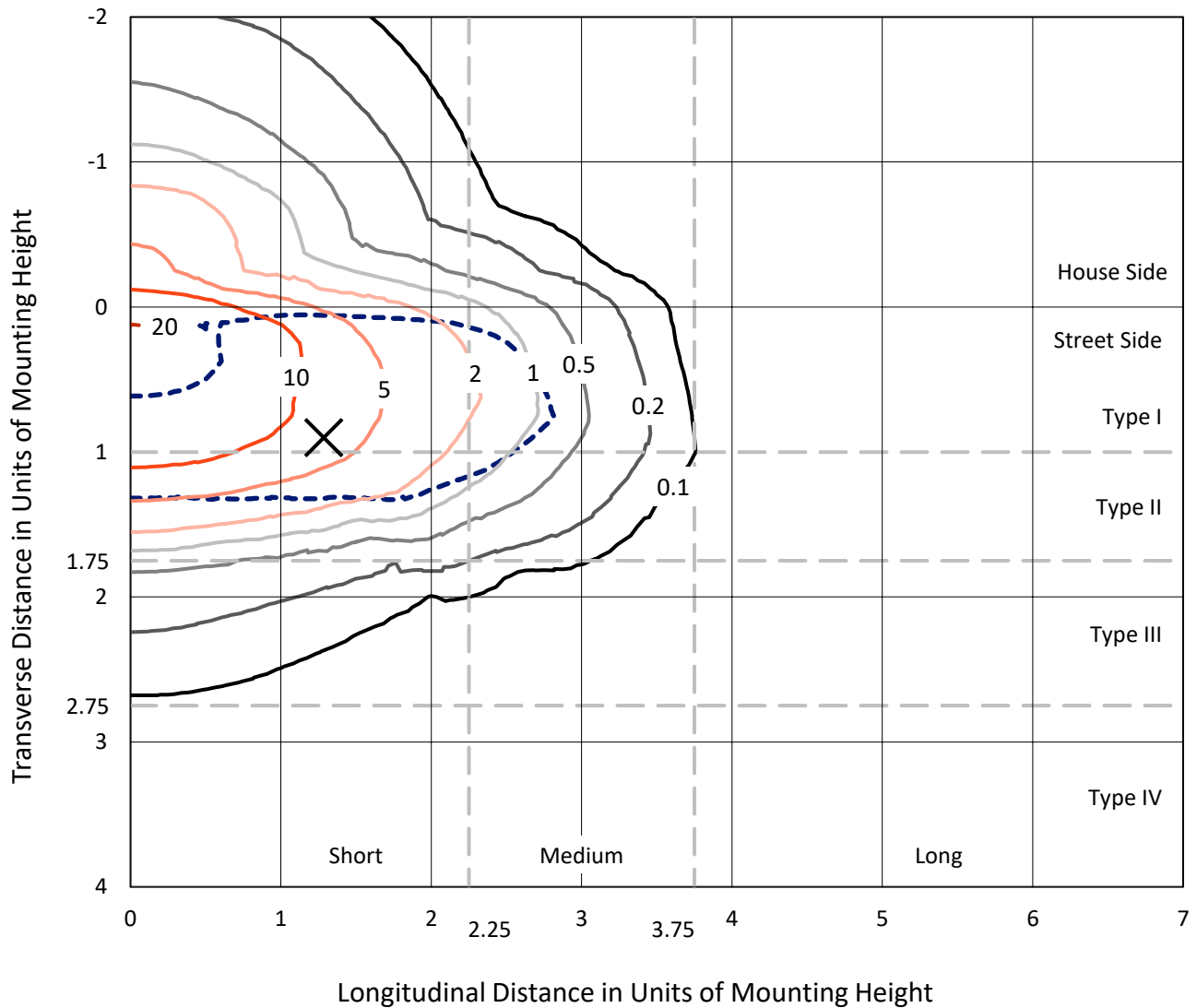
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

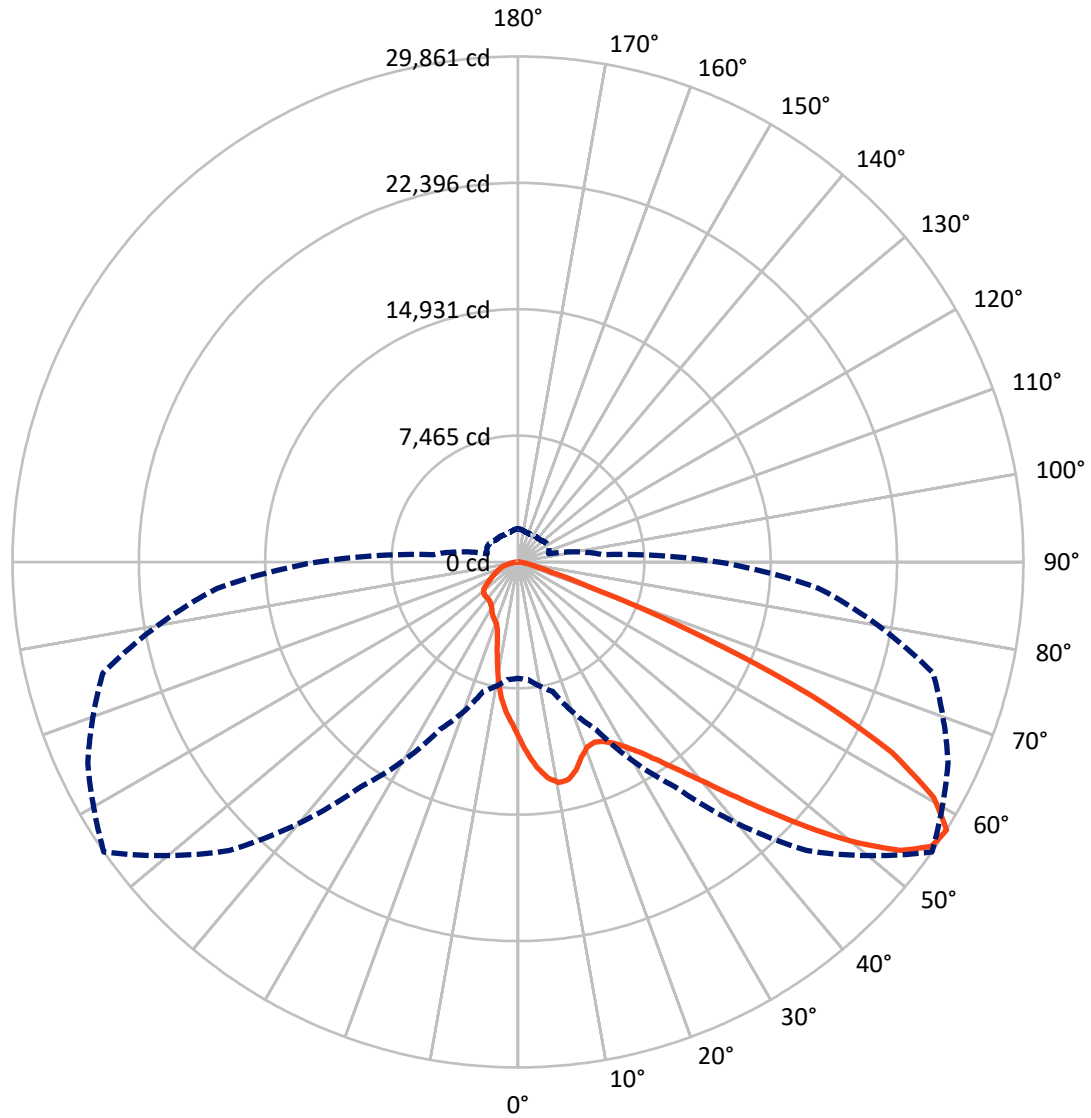
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 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	7519.0	0.0	7519.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	34035.0	0.0	34035.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	41554.0	0.0	41554.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	966.2	2.3
10°-20°	2438.7	5.9
20°-30°	3891.4	9.4
30°-40°	6161.1	14.8
40°-50°	9430.2	22.7
50°-60°	10100.7	24.3
60°-70°	6354.4	15.3
70°-80°	1879.1	4.5
80°-90°	332.2	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°	41554.0	100.0
0°-180°	41554.0	100.0



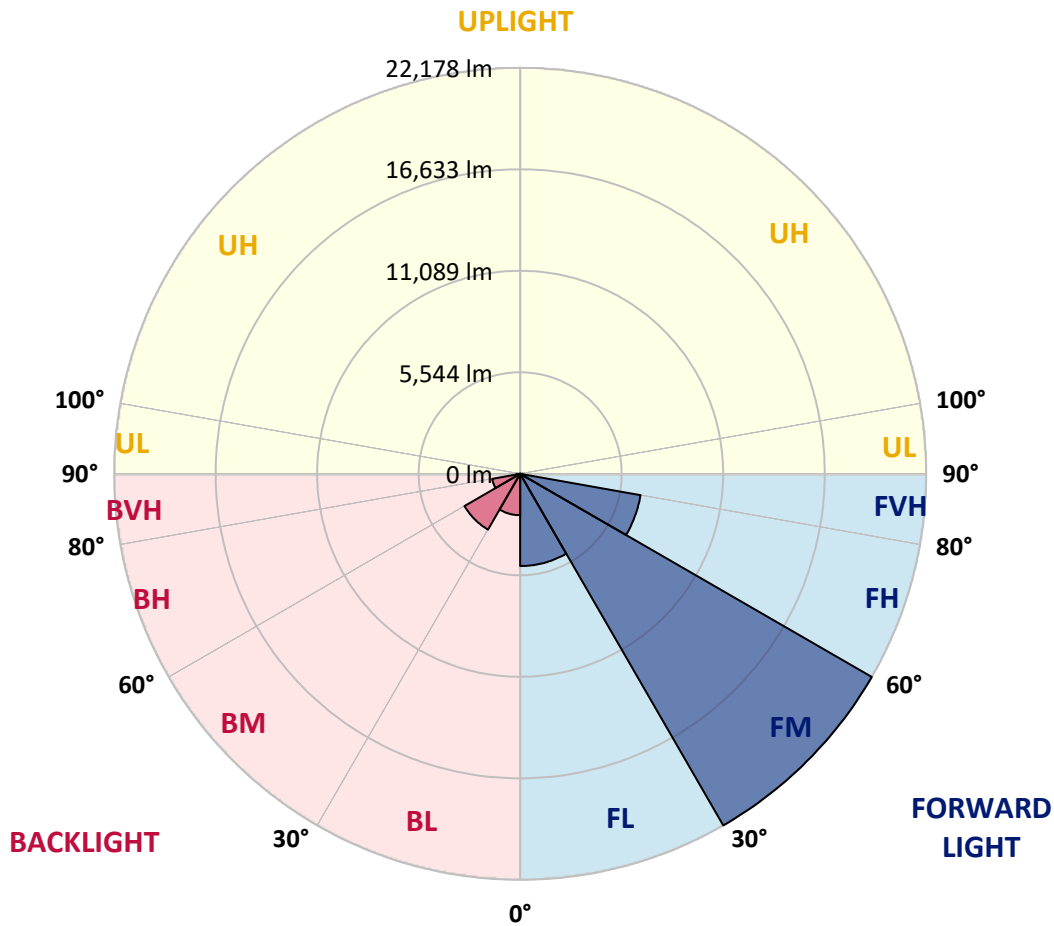
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5036.3	12.1			
FM (30°-60°)	22177.7	53.4			
FH (60°-80°)	6680.6	16.1			G3/7500
FVH (80°-90°)	140.4	0.3			G2/225
BL (0°-30°)	2260.0	5.4	B3/2500		
BM (30°-60°)	3514.3	8.5	B3/5000		
BH (60°-80°)	1552.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	191.9	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10412.1	10412.1	10412.1	10412.1	10412.1	10412.1	10412.1	10412.1	10412.1	10412.1
2.5°	11945.9	11937.3	11984.5	11823.4	11713.9	11565.6	11370.2	11121.0	10852.5	10568.9
5°	13022.1	12946.9	12996.3	12876.0	12755.7	12532.3	12242.3	11836.3	11340.1	10775.1
7.5°	12852.4	12800.8	12927.6	13035.0	13125.2	13097.3	12884.6	12459.3	11819.1	10998.5
10°	11484.0	11426.0	11604.3	11975.9	12521.6	12996.3	13254.1	12989.9	12308.9	11243.4
12.5°	10276.8	10248.8	10367.0	10667.7	11273.5	12184.3	13206.8	13453.9	12818.0	11533.4
15°	9761.2	9726.8	9802.0	9954.5	10341.2	11189.7	12777.2	13771.8	13318.5	11868.5
17.5°	9647.3	9608.7	9640.9	9720.4	9969.6	10616.2	12128.5	13928.6	13840.5	12242.3
20°	9857.9	9825.6	9829.9	9825.6	9999.6	10513.0	11677.3	13868.5	14295.9	12586.0
22.5°	10367.0	10313.3	10315.4	10201.6	10296.1	10693.5	11559.2	13707.3	14701.9	12886.8
25°	11196.2	11099.5	11118.8	10828.8	10803.0	11097.3	11743.9	13582.8	15105.8	13127.3
27.5°	12330.4	12220.8	12162.8	11731.0	11524.8	11670.9	12119.9	13625.7	15488.2	13335.7
30°	13748.2	13615.0	13496.8	12884.6	12510.8	12457.1	12704.2	13909.3	15939.3	13554.8
32.5°	15486.0	15331.3	15116.5	14304.5	13778.2	13496.8	13460.3	14414.1	16467.7	13834.1
35°	17554.7	17352.8	17047.7	15997.3	15331.3	14755.6	14457.1	15142.3	17191.6	14255.1
37.5°	19685.6	19457.9	19178.7	17928.5	17110.0	16261.5	15672.9	16130.5	18156.2	14826.5
40°	21651.2	21395.6	21135.6	20022.9	19144.3	18121.8	17161.6	17380.7	19335.5	15509.6
42.5°	22811.2	22622.2	22523.4	21921.9	21243.1	20205.5	19013.3	18862.9	20660.9	16295.9
45°	22759.7	22682.3	22987.4	23236.5	23075.4	22499.7	21182.9	20501.9	21990.6	16976.8
47.5°	21543.8	21595.4	22276.3	23676.9	24293.4	24594.2	23653.3	22110.9	23146.3	17485.9
50°	18235.6	18278.6	19855.4	22875.7	24607.1	26301.9	26104.3	23681.2	24042.1	17797.4
52.5°	15617.1	15645.0	16321.6	20499.8	23571.7	27161.2	28312.6	25161.3	24697.3	17883.3
55°	11763.3	11859.9	12618.2	16083.2	20877.9	26480.2	29657.4	26686.5	25111.9	17891.9
57.5°	6871.9	6977.2	7913.8	10916.9	16227.1	24106.5	29861.4	28039.8	25393.3	17823.2
60°	3366.2	3411.3	3819.4	5737.7	10006.1	19533.1	28220.2	28695.0	25550.1	17786.7
62.5°	2268.4	2262.0	2279.2	2831.3	4930.0	12549.5	24800.4	27547.9	25466.3	17647.1
65°	1950.5	1926.9	1862.4	1987.0	2554.2	5739.9	19161.5	24123.7	24828.3	17296.9
67.5°	1686.3	1688.4	1690.6	1651.9	1823.8	2648.7	11709.6	19002.5	22538.4	15638.5
70°	1396.3	1415.6	1424.2	1424.2	1486.5	1737.9	4998.7	13024.2	17778.1	12261.6
72.5°	1271.7	1230.9	1235.2	1213.7	1213.7	1323.3	2012.8	7383.2	11200.5	6897.7
75°	1037.6	1063.3	1067.6	1052.6	1003.2	1009.6	1194.4	3097.6	4792.5	2861.3
77.5°	895.8	895.8	904.4	893.6	855.0	756.1	797.0	1200.8	1630.4	1172.9
80°	719.6	717.5	754.0	775.5	715.3	558.5	509.1	663.8	723.9	515.6
82.5°	350.1	371.6	517.7	590.7	543.5	403.9	311.5	412.4	386.7	227.7
85°	204.1	193.3	232.0	328.7	311.5	223.4	150.4	214.8	201.9	116.0
87.5°	64.4	60.1	47.3	111.7	90.2	62.3	40.8	62.3	55.9	25.8
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°
10412.1	0°	10412.1	10412.1	10412.1	10412.1	10412.1	10412.1	10412.1	10412.1	10412.1	10412.1
10446.5	2.5°	10293.9	10040.5	9789.1	9559.3	9419.6	9329.4	9239.2	9138.2	9099.6	9041.6
10474.4	5°	10190.8	9701.0	9265.0	8889.0	8547.5	8279.0	8008.3	7789.2	7690.4	7757.0
10562.5	7.5°	10130.7	9421.8	8749.4	8059.9	7396.1	6865.5	6403.6	6079.3	5933.2	5969.7
10648.4	10°	10077.0	9106.0	8081.3	6992.2	6038.4	5381.1	4908.5	4661.5	4569.1	4588.4
10764.4	12.5°	10027.6	8751.6	7275.8	5843.0	4829.0	4395.1	4259.8	4261.9	4279.1	4292.0
10949.1	15°	10019.0	8324.1	6375.7	4837.6	4176.0	4148.1	4294.2	4386.5	4435.9	4451.0
11103.8	17.5°	10006.1	7812.8	5458.4	4152.4	4017.0	4206.1	4341.4	4401.6	4440.2	4442.4
11254.2	20°	9954.5	7164.1	4612.1	3825.9	3982.7	4145.9	4229.7	4277.0	4309.2	4319.9
11368.0	22.5°	9795.6	6442.3	3952.6	3679.8	3845.2	3976.2	4075.0	4128.7	4148.1	4161.0
11389.5	25°	9509.9	5634.6	3497.2	3540.2	3654.0	3819.4	3898.9	3909.6	3903.2	3922.5
11335.8	27.5°	9136.1	4768.9	3213.6	3351.1	3497.2	3639.0	3681.9	3675.5	3662.6	3684.1
11243.4	30°	8685.0	3991.3	3033.2	3138.4	3338.2	3467.1	3505.8	3490.7	3465.0	3488.6
11196.2	32.5°	8208.1	3355.4	2885.0	2990.2	3207.2	3333.9	3372.6	3357.6	3338.2	3357.6
11249.9	35°	7763.4	2910.7	2747.5	2891.4	3104.1	3228.7	3278.1	3280.2	3280.2	3303.9
11391.6	37.5°	7355.3	2650.8	2633.6	2829.1	3033.2	3144.9	3215.8	3220.1	3127.7	3134.2
11632.2	40°	6977.2	2541.3	2582.1	2788.3	2964.4	3071.9	3076.2	2835.6	2665.9	2661.6
11907.2	42.5°	6667.9	2519.8	2597.1	2784.0	2915.0	2919.3	2616.4	2429.6	2382.3	2384.4
12160.7	45°	6377.9	2513.3	2631.5	2784.0	2842.0	2521.9	2317.9	2268.4	2272.7	2289.9
12274.5	47.5°	6053.5	2487.6	2637.9	2745.3	2631.5	2242.7	2182.5	2161.0	2152.4	2156.7
12248.8	50°	5699.0	2395.2	2556.3	2668.0	2270.6	2122.4	2047.2	2040.7	2051.5	2057.9
12104.8	52.5°	5325.3	2244.8	2416.7	2528.4	2105.2	2017.1	1933.3	1948.4	1995.6	2010.7
11954.5	55°	5080.4	2068.7	2231.9	2249.1	1989.2	1918.3	1847.4	1881.8	1969.9	1997.8
11864.2	57.5°	5015.9	1881.8	2021.4	2002.1	1841.0	1832.4	1789.4	1819.5	1931.2	1972.0
11859.9	60°	4996.6	1714.2	1815.2	1800.1	1697.0	1737.9	1727.1	1742.1	1780.8	1793.7
11817.0	62.5°	4846.2	1581.0	1630.4	1609.0	1568.1	1639.0	1664.8	1632.6	1662.7	1677.7
11522.7	65°	4463.9	1473.6	1450.0	1435.0	1452.1	1516.6	1568.1	1503.7	1531.6	1574.6
10388.5	67.5°	3832.3	1327.6	1263.1	1280.3	1334.0	1368.4	1435.0	1361.9	1385.6	1458.6
8367.0	70°	3099.8	1142.8	1084.8	1134.2	1185.8	1256.7	1267.4	1218.0	1273.9	1355.5
5106.2	72.5°	2193.3	955.9	915.1	1016.1	1033.3	1125.6	1102.0	1078.4	1155.7	1183.6
2524.1	75°	1520.9	771.2	747.6	824.9	887.2	966.7	949.5	977.4	1140.7	1153.6
1261.0	77.5°	962.4	599.3	584.3	633.7	719.6	807.7	835.6	1153.6	1948.4	2025.7
655.2	80°	558.5	446.8	429.6	468.3	543.5	625.1	805.6	1415.6	1284.6	1269.6
294.3	82.5°	311.5	307.2	285.7	296.4	363.0	451.1	1138.5	996.7	809.9	835.6
118.1	85°	146.1	180.4	154.7	148.2	204.1	528.4	760.4	569.3	378.1	369.5
25.8	87.5°	38.7	34.4	34.4	38.7	85.9	455.4	302.9	242.7	143.9	139.6
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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