

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: P949411

Luminaire Tested: **GALN-SB4A-935-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949411
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-935-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12719 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

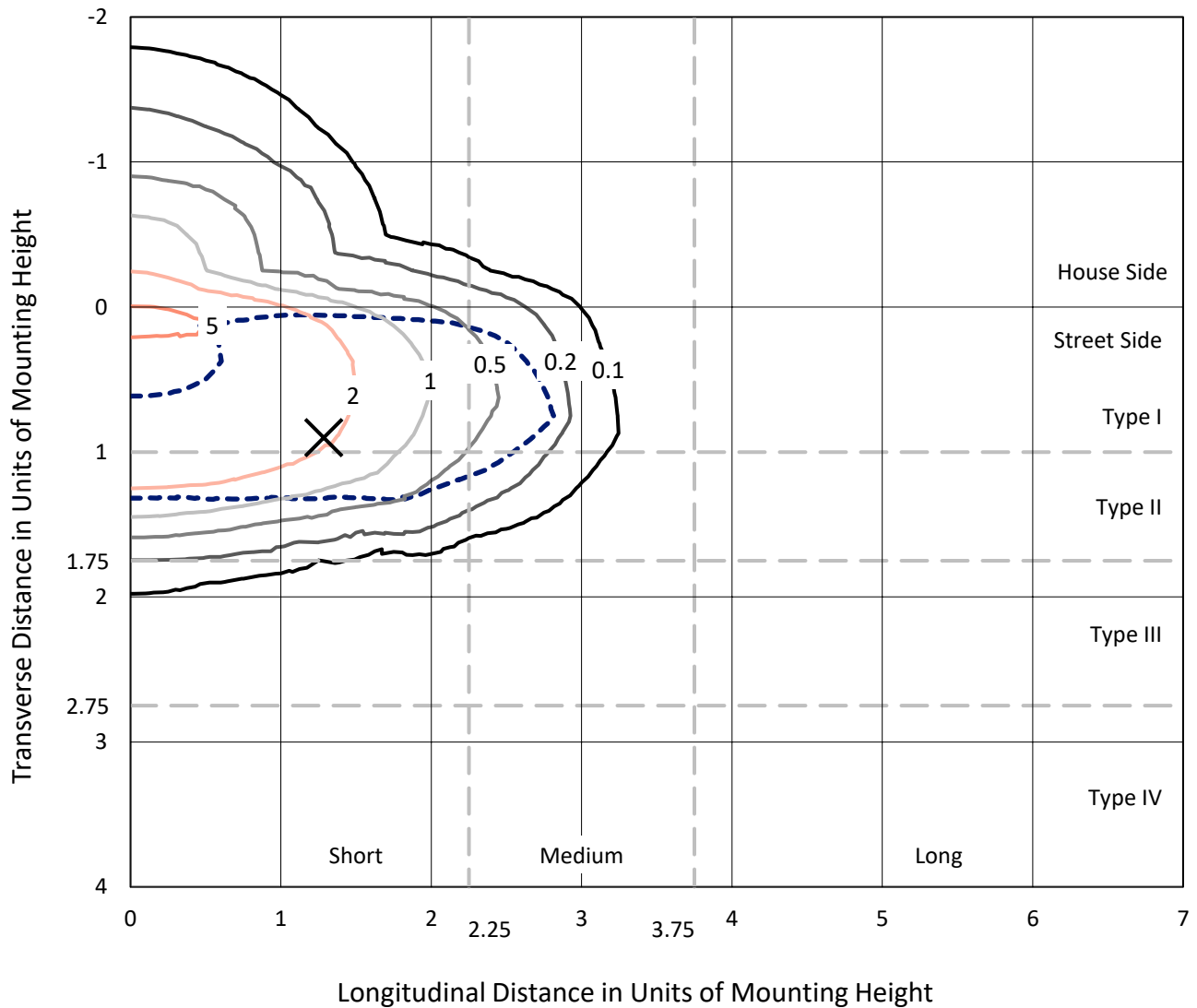
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

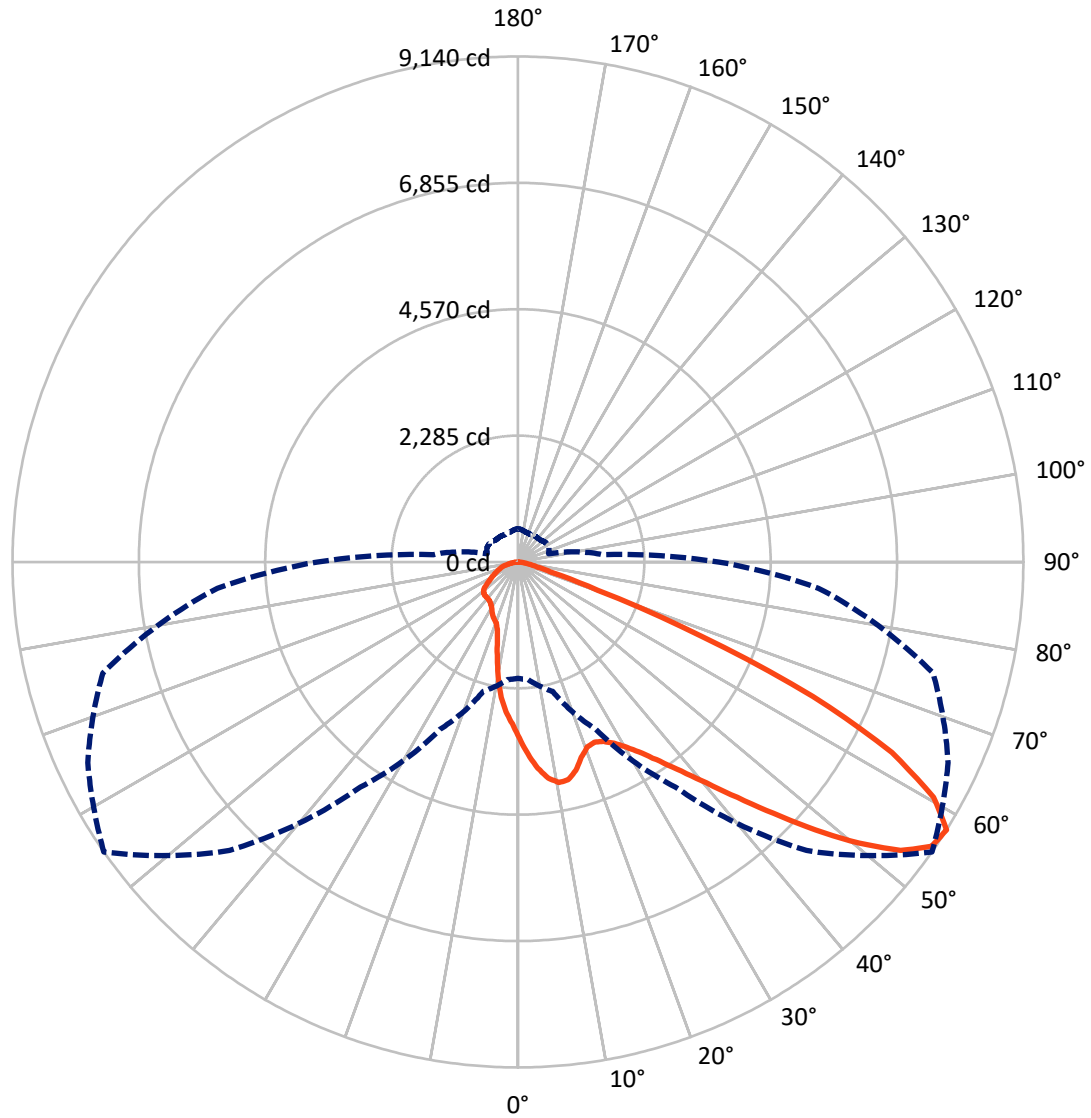
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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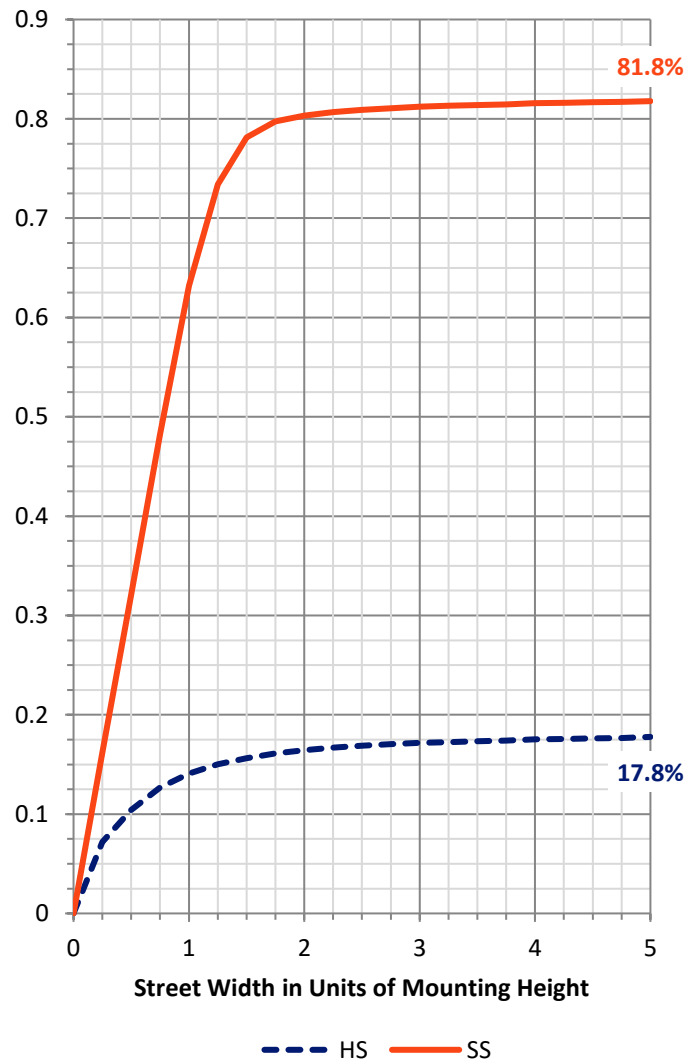
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2301.4	0.0	2301.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10417.6	0.0	10417.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	12719.0	0.0	12719.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.7	2.3
10°-20°	746.4	5.9
20°-30°	1191.1	9.4
30°-40°	1885.8	14.8
40°-50°	2886.4	22.7
50°-60°	3091.6	24.3
60°-70°	1945.0	15.3
70°-80°	575.2	4.5
80°-90°	101.7	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°	12719.0	100.0
0°-180°	12719.0	100.0



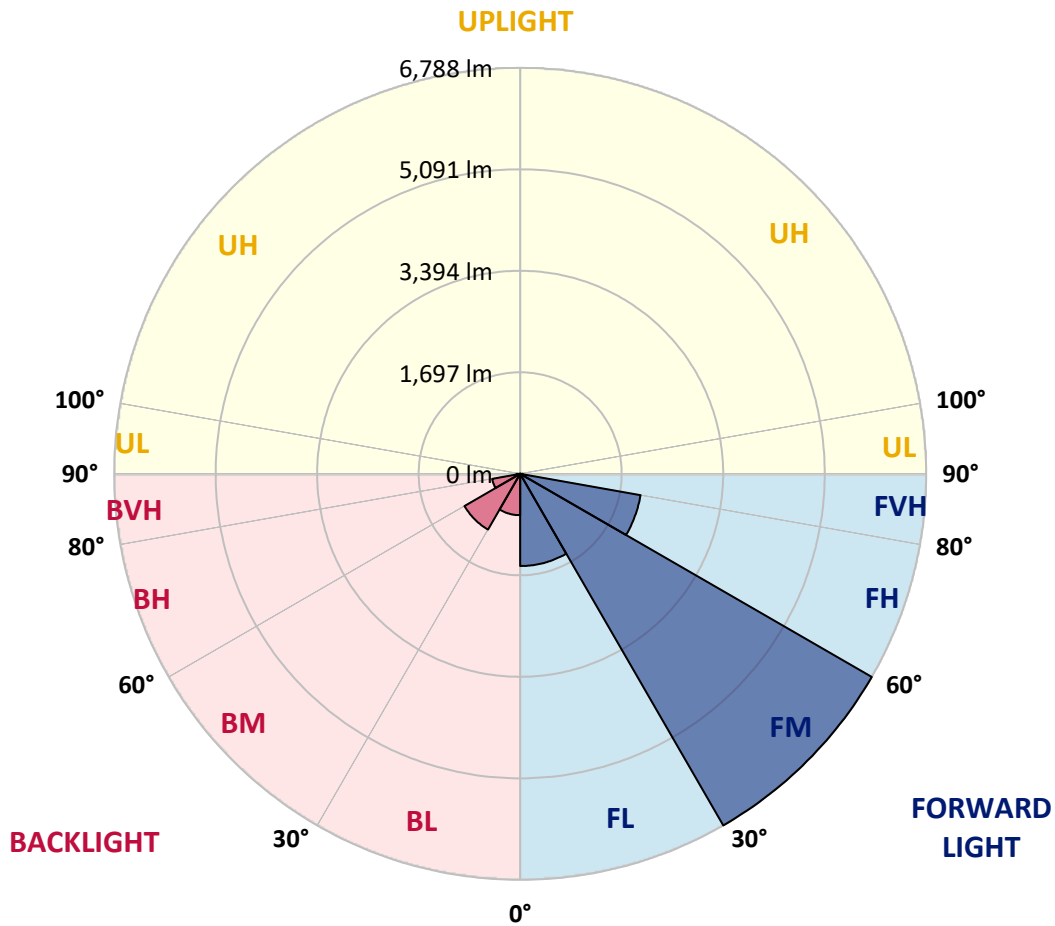
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1541.5	12.1			
FM (30°-60°)	6788.2	53.4			
FH (60°-80°)	2044.8	16.1			G2/5000
FVH (80°-90°)	43.0	0.3			G1/100
BL (0°-30°)	691.7	5.4	B2/1000		
BM (30°-60°)	1075.7	8.5	B2/2500		
BH (60°-80°)	475.3	3.7	B1/500		G1/500
BVH (80°-90°)	58.7	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°	3187.0	3187.0	3187.0	3187.0	3187.0	3187.0	3187.0	3187.0	3187.0	3187.0
2.5°	3656.4	3653.8	3668.3	3619.0	3585.4	3540.1	3480.2	3403.9	3321.8	3235.0
5°	3985.8	3962.8	3978.0	3941.1	3904.3	3835.9	3747.2	3622.9	3471.0	3298.1
7.5°	3933.9	3918.1	3956.9	3989.8	4017.4	4008.9	3943.8	3813.6	3617.6	3366.5
10°	3515.1	3497.3	3551.9	3665.6	3832.6	3978.0	4056.9	3976.0	3767.6	3441.4
12.5°	3145.5	3137.0	3173.2	3265.2	3450.6	3729.4	4042.4	4118.0	3923.4	3530.2
15°	2987.7	2977.2	3000.2	3046.9	3165.3	3425.0	3910.9	4215.3	4076.6	3632.8
17.5°	2952.9	2941.1	2950.9	2975.2	3051.5	3249.4	3712.3	4263.3	4236.4	3747.2
20°	3017.3	3007.5	3008.8	3007.5	3060.7	3217.9	3574.2	4244.9	4375.8	3852.4
22.5°	3173.2	3156.7	3157.4	3122.5	3151.5	3273.1	3538.1	4195.6	4500.0	3944.4
25°	3427.0	3397.4	3403.3	3314.5	3306.6	3396.7	3594.6	4157.5	4623.6	4018.1
27.5°	3774.1	3740.6	3722.8	3590.7	3527.6	3572.3	3709.7	4170.6	4740.7	4081.8
30°	4208.1	4167.3	4131.2	3943.8	3829.4	3812.9	3888.5	4257.4	4878.8	4148.9
32.5°	4740.0	4692.7	4626.9	4378.4	4217.3	4131.2	4120.0	4411.9	5040.5	4234.4
35°	5373.2	5311.4	5218.0	4896.5	4692.7	4516.5	4425.1	4634.8	5262.1	4363.3
37.5°	6025.5	5955.8	5870.3	5487.6	5237.1	4977.4	4797.2	4937.3	5557.3	4538.2
40°	6627.1	6548.8	6469.3	6128.7	5859.8	5546.8	5252.9	5319.9	5918.3	4747.2
42.5°	6982.1	6924.3	6894.0	6709.9	6502.2	6184.6	5819.7	5773.6	6324.0	4987.9
45°	6966.4	6942.7	7036.1	7112.3	7063.0	6886.8	6483.7	6275.3	6731.0	5196.3
47.5°	6594.2	6610.0	6818.4	7247.1	7435.8	7527.9	7239.9	6767.8	7084.7	5352.2
50°	5581.6	5594.8	6077.4	7001.9	7531.8	8050.6	7990.1	7248.4	7358.9	5447.5
52.5°	4780.1	4788.7	4995.8	6274.7	7214.9	8313.6	8666.0	7701.5	7559.4	5473.8
55°	3600.5	3630.1	3862.2	4922.8	6390.4	8105.2	9077.6	8168.3	7686.3	5476.4
57.5°	2103.4	2135.6	2422.3	3341.5	4966.9	7378.6	9140.1	8582.5	7772.5	5455.4
60°	1030.3	1044.1	1169.1	1756.2	3062.7	5978.8	8637.8	8783.1	7820.5	5444.2
62.5°	694.3	692.4	697.6	866.6	1509.0	3841.2	7591.0	8432.0	7794.8	5401.5
65°	597.0	589.8	570.1	608.2	781.8	1756.9	5865.0	7383.9	7599.5	5294.3
67.5°	516.1	516.8	517.5	505.6	558.2	810.7	3584.1	5816.4	6898.6	4786.7
70°	427.4	433.3	435.9	435.9	455.0	531.9	1530.0	3986.5	5441.6	3753.1
72.5°	389.2	376.8	378.1	371.5	371.5	405.0	616.1	2259.9	3428.3	2111.3
75°	317.6	325.5	326.8	322.2	307.1	309.0	365.6	948.1	1466.9	875.8
77.5°	274.2	274.2	276.8	273.5	261.7	231.4	243.9	367.6	499.1	359.0
80°	220.3	219.6	230.8	237.4	219.0	171.0	155.8	203.2	221.6	157.8
82.5°	107.2	113.7	158.5	180.8	166.4	123.6	95.3	126.2	118.4	69.7
85°	62.5	59.2	71.0	100.6	95.3	68.4	46.0	65.8	61.8	35.5
87.5°	19.7	18.4	14.5	34.2	27.6	19.1	12.5	19.1	17.1	7.9
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°
3187.0	0°	3187.0	3187.0	3187.0	3187.0	3187.0	3187.0	3187.0	3187.0	3187.0	3187.0
3197.5	2.5°	3150.8	3073.2	2996.3	2925.9	2883.2	2855.6	2828.0	2797.1	2785.2	2767.5
3206.0	5°	3119.2	2969.3	2835.9	2720.8	2616.2	2534.1	2451.2	2384.1	2353.9	2374.3
3233.0	7.5°	3100.8	2883.9	2678.1	2467.0	2263.8	2101.4	1960.0	1860.8	1816.1	1827.2
3259.3	10°	3084.4	2787.2	2473.6	2140.2	1848.3	1647.1	1502.4	1426.8	1398.5	1404.4
3294.8	12.5°	3069.3	2678.7	2227.0	1788.4	1478.1	1345.3	1303.8	1304.5	1309.8	1313.7
3351.3	15°	3066.6	2547.9	1951.5	1480.7	1278.2	1269.7	1314.4	1342.6	1357.8	1362.4
3398.7	17.5°	3062.7	2391.4	1670.7	1271.0	1229.6	1287.4	1328.8	1347.2	1359.1	1359.7
3444.7	20°	3046.9	2192.8	1411.7	1171.0	1219.0	1269.0	1294.6	1309.1	1319.0	1322.3
3479.6	22.5°	2998.3	1971.9	1209.8	1126.3	1176.9	1217.1	1247.3	1263.7	1269.7	1273.6
3486.1	25°	2910.8	1724.7	1070.4	1083.6	1118.4	1169.1	1193.4	1196.7	1194.7	1200.6
3469.7	27.5°	2796.4	1459.7	983.6	1025.7	1070.4	1113.8	1127.0	1125.0	1121.1	1127.6
3441.4	30°	2658.3	1221.7	928.4	960.6	1021.8	1061.2	1073.1	1068.5	1060.6	1067.8
3427.0	32.5°	2512.4	1027.0	883.0	915.3	981.7	1020.5	1032.3	1027.7	1021.8	1027.7
3443.4	35°	2376.3	890.9	841.0	885.0	950.1	988.2	1003.4	1004.0	1004.0	1011.3
3486.8	37.5°	2251.3	811.4	806.1	865.9	928.4	962.6	984.3	985.6	957.3	959.3
3560.4	40°	2135.6	777.8	790.3	853.5	907.4	940.2	941.6	867.9	816.0	814.7
3644.6	42.5°	2040.9	771.3	794.9	852.1	892.2	893.6	800.9	743.6	729.2	729.8
3722.2	45°	1952.2	769.3	805.5	852.1	869.9	771.9	709.5	694.3	695.6	700.9
3757.0	47.5°	1852.9	761.4	807.4	840.3	805.5	686.4	668.0	661.5	658.8	660.1
3749.1	50°	1744.4	733.1	782.4	816.6	695.0	649.6	626.6	624.6	627.9	629.9
3705.1	52.5°	1630.0	687.1	739.7	773.9	644.4	617.4	591.8	596.4	610.8	615.4
3659.1	55°	1555.0	633.2	683.2	688.4	608.9	587.2	565.5	576.0	602.9	611.5
3631.4	57.5°	1535.3	576.0	618.7	612.8	563.5	560.9	547.7	556.9	591.1	603.6
3630.1	60°	1529.4	524.7	555.6	551.0	519.4	531.9	528.6	533.2	545.1	549.0
3617.0	62.5°	1483.4	483.9	499.1	492.5	480.0	501.7	509.6	499.7	508.9	513.5
3526.9	65°	1366.3	451.1	443.8	439.2	444.5	464.2	480.0	460.3	468.8	482.0
3179.7	67.5°	1173.0	406.3	386.6	391.9	408.3	418.8	439.2	416.9	424.1	446.5
2561.0	70°	948.8	349.8	332.0	347.2	362.9	384.6	387.9	372.8	389.9	414.9
1562.9	72.5°	671.3	292.6	280.1	311.0	316.3	344.5	337.3	330.1	353.7	362.3
772.6	75°	465.5	236.0	228.8	252.5	271.6	295.9	290.6	299.2	349.1	353.1
386.0	77.5°	294.6	183.4	178.8	194.0	220.3	247.2	255.8	353.1	596.4	620.0
200.5	80°	171.0	136.8	131.5	143.3	166.4	191.3	246.6	433.3	393.2	388.6
90.1	82.5°	95.3	94.0	87.4	90.7	111.1	138.1	348.5	305.1	247.9	255.8
36.2	85°	44.7	55.2	47.3	45.4	62.5	161.7	232.8	174.2	115.7	113.1
7.9	87.5°	11.8	10.5	10.5	11.8	26.3	139.4	92.7	74.3	44.1	42.7
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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