

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: P949936

Luminaire Tested: **GALN-SB4C-750-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949936
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-SB4C-750-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32295 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

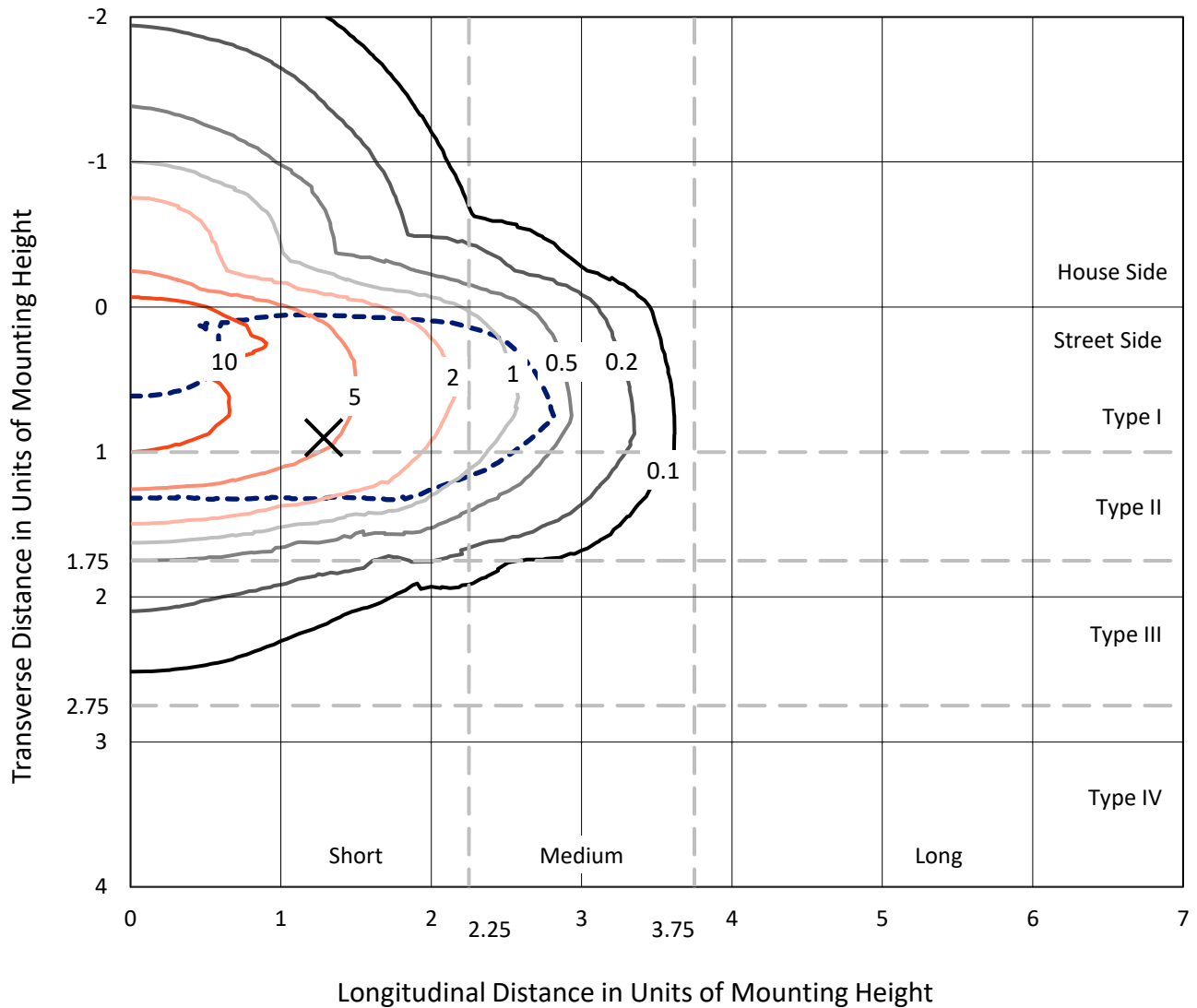
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

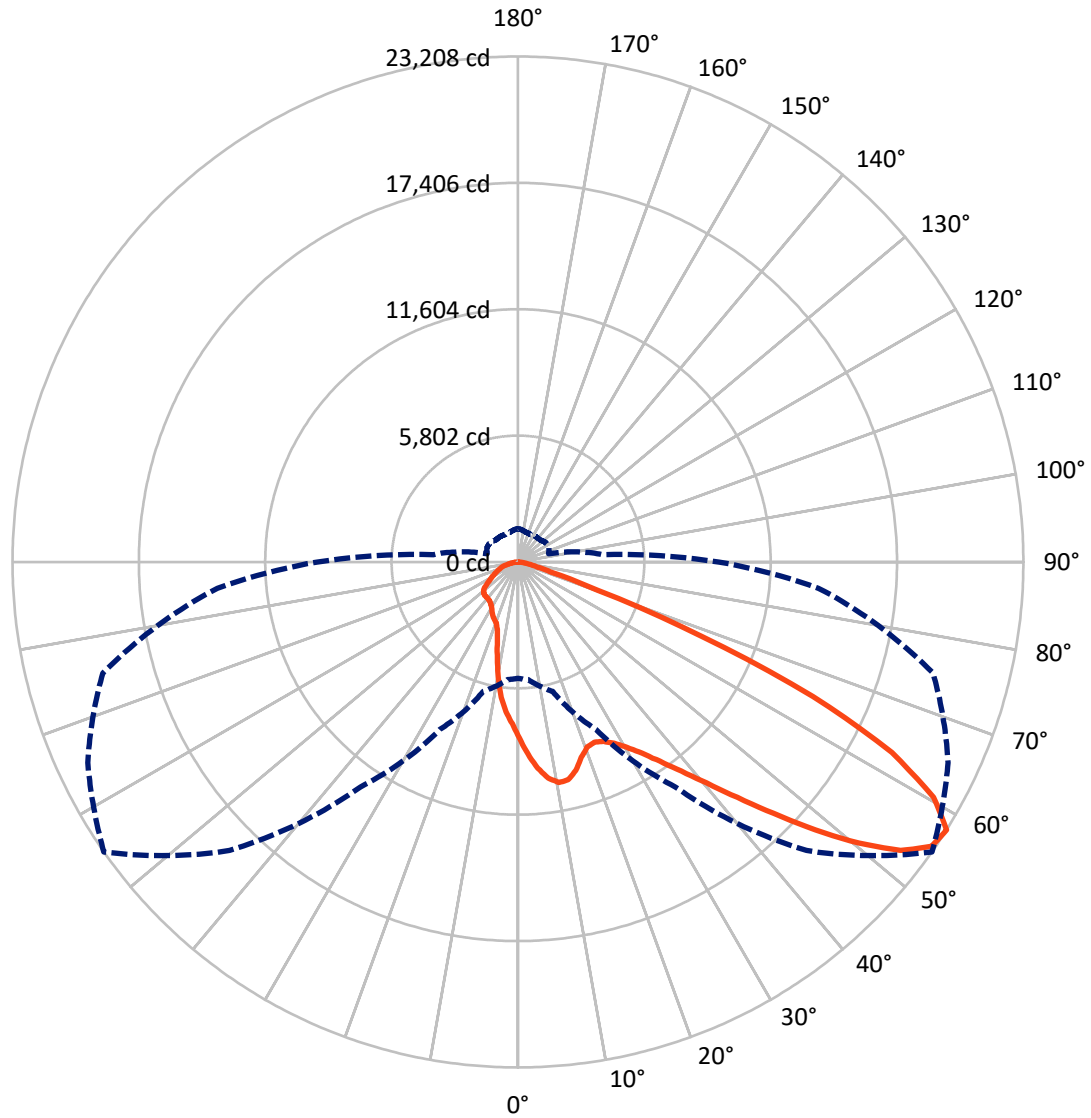
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	5843.6	0.0	5843.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26451.4	0.0	26451.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	32295.0	0.0	32295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	750.9	2.3
10°-20°	1895.3	5.9
20°-30°	3024.4	9.4
30°-40°	4788.3	14.8
40°-50°	7329.0	22.7
50°-60°	7850.0	24.3
60°-70°	4938.5	15.3
70°-80°	1460.4	4.5
80°-90°	258.2	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°	32295.0	100.0
0°-180°	32295.0	100.0

Coefficient of Utilization



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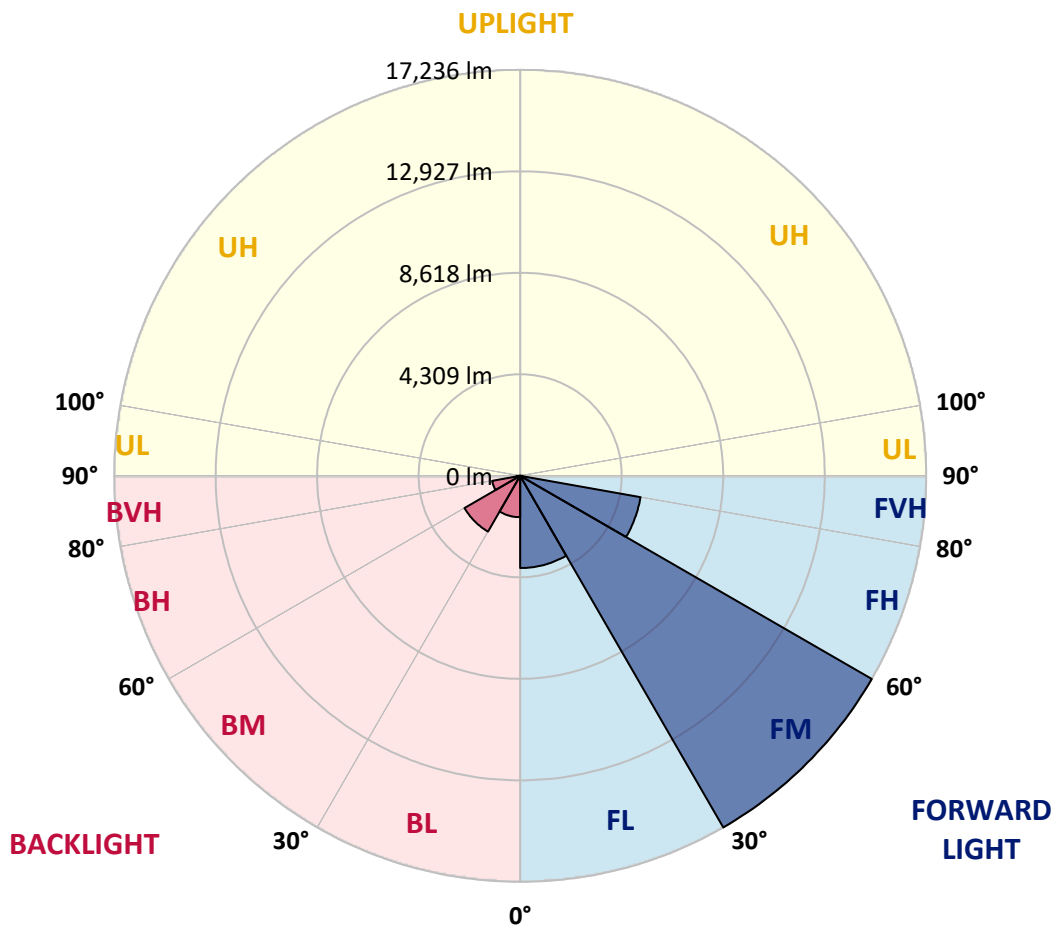
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3914.2	12.1			
FM (30°-60°)	17236.1	53.4			
FH (60°-80°)	5192.1	16.1			G3/7500
FVH (80°-90°)	109.1	0.3			G2/225
BL (0°-30°)	1756.4	5.4	B3/2500		
BM (30°-60°)	2731.3	8.5	B3/5000		
BH (60°-80°)	1206.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	149.1	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°	8092.1	8092.1	8092.1	8092.1	8092.1	8092.1	8092.1	8092.1	8092.1	8092.1
2.5°	9284.1	9277.4	9314.2	9188.9	9103.8	8988.6	8836.7	8643.0	8434.3	8214.0
5°	10120.5	10062.1	10100.5	10007.0	9913.5	9739.9	9514.5	9199.0	8813.3	8374.2
7.5°	9988.6	9948.6	10047.1	10130.5	10200.7	10179.0	10013.7	9683.1	9185.6	8547.9
10°	8925.2	8880.1	9018.7	9307.5	9731.5	10100.5	10300.8	10095.5	9566.2	8738.2
12.5°	7986.9	7965.2	8057.0	8290.7	8761.5	9469.4	10264.1	10456.1	9961.9	8963.6
15°	7586.2	7559.5	7617.9	7736.5	8037.0	8696.4	9930.2	10703.2	10350.9	9224.0
17.5°	7497.7	7467.7	7492.7	7554.5	7748.2	8250.7	9426.0	10825.1	10756.6	9514.5
20°	7661.3	7636.3	7639.6	7636.3	7771.5	8170.5	9075.4	10778.3	11110.5	9781.6
22.5°	8057.0	8015.3	8017.0	7928.5	8001.9	8310.8	8983.6	10653.1	11426.1	10015.3
25°	8701.4	8626.3	8641.3	8416.0	8395.9	8624.7	9127.2	10556.3	11739.9	10202.3
27.5°	9582.9	9497.8	9452.7	9117.2	8956.9	9070.4	9419.3	10589.7	12037.1	10364.3
30°	10684.8	10581.3	10489.5	10013.7	9723.2	9681.4	9873.4	10810.0	12387.7	10534.6
32.5°	12035.4	11915.2	11748.3	11117.2	10708.2	10489.5	10461.1	11202.4	12798.4	10751.6
35°	13643.2	13486.2	13249.2	12432.8	11915.2	11467.8	11235.8	11768.3	13361.0	11078.8
37.5°	15299.3	15122.4	14905.3	13933.7	13297.6	12638.1	12180.7	12536.3	14110.6	11522.9
40°	16826.9	16628.2	16426.2	15561.4	14878.6	14083.9	13337.7	13507.9	15027.2	12053.8
42.5°	17728.4	17581.5	17504.7	17037.3	16509.7	15703.3	14776.8	14659.9	16057.3	12664.8
45°	17688.4	17628.3	17865.3	18059.0	17933.8	17486.4	16463.0	15933.7	17090.7	13194.1
47.5°	16743.4	16783.5	17312.7	18401.3	18880.4	19114.1	18382.9	17184.2	17988.9	13589.8
50°	14172.4	14205.8	15431.2	17778.5	19124.2	20441.4	20287.8	18404.6	18685.1	13831.8
52.5°	12137.3	12159.0	12684.9	15932.1	18319.5	21109.2	22004.0	19554.9	19194.3	13898.6
55°	9142.2	9217.3	9806.7	12499.6	16225.9	20580.0	23049.2	20740.2	19516.5	13905.3
57.5°	5340.7	5422.5	6150.4	8484.4	12611.4	18735.2	23207.8	21792.0	19735.2	13851.9
60°	2616.1	2651.2	2968.4	4459.2	7776.5	15180.8	21932.3	22301.2	19857.1	13823.5
62.5°	1763.0	1758.0	1771.3	2200.4	3831.5	9753.2	19274.4	21409.7	19792.0	13715.0
65°	1515.9	1497.5	1447.5	1544.3	1985.0	4460.9	14892.0	18748.5	19296.1	13442.8
67.5°	1310.6	1312.2	1313.9	1283.8	1417.4	2058.5	9100.5	14768.4	17516.4	12154.0
70°	1085.2	1100.2	1106.9	1106.9	1155.3	1350.6	3884.9	10122.2	13816.8	9529.5
72.5°	988.3	956.6	960.0	943.3	943.3	1028.4	1564.3	5738.1	8704.8	5360.8
75°	806.4	826.4	829.7	818.1	779.7	784.7	928.2	2407.4	3724.7	2223.8
77.5°	696.2	696.2	702.9	694.5	664.5	587.7	619.4	933.3	1267.2	911.5
80°	559.3	557.6	586.0	602.7	555.9	434.1	395.7	515.9	562.6	400.7
82.5°	272.1	288.8	402.4	459.1	422.4	313.9	242.1	320.5	300.5	177.0
85°	158.6	150.3	180.3	255.4	242.1	173.6	116.9	167.0	156.9	90.2
87.5°	50.1	46.7	36.7	86.8	70.1	48.4	31.7	48.4	43.4	20.0
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°
8092.1	0°	8092.1	8092.1	8092.1	8092.1	8092.1	8092.1	8092.1	8092.1	8092.1	8092.1
8118.8	2.5°	8000.3	7803.3	7607.9	7429.3	7320.8	7250.6	7180.5	7102.1	7072.0	7026.9
8140.5	5°	7920.1	7539.5	7200.6	6908.4	6643.0	6434.3	6223.9	6053.6	5976.8	6028.6
8208.9	7.5°	7873.4	7322.4	6799.9	6264.0	5748.1	5335.7	4976.8	4724.7	4611.2	4639.5
8275.7	10°	7831.6	7077.0	6280.7	5434.2	4693.0	4182.1	3814.8	3622.8	3551.0	3566.1
8365.9	12.5°	7793.2	6801.6	5654.6	4541.0	3753.0	3415.8	3310.6	3312.3	3325.6	3335.7
8509.5	15°	7786.6	6469.3	4955.1	3759.7	3245.5	3223.8	3337.3	3409.1	3447.5	3459.2
8629.7	17.5°	7776.5	6072.0	4242.2	3227.1	3122.0	3268.9	3374.1	3420.8	3450.9	3452.5
8746.5	20°	7736.5	5567.8	3584.4	2973.4	3095.3	3222.1	3287.3	3324.0	3349.0	3357.4
8835.0	22.5°	7612.9	5006.8	3071.9	2859.9	2988.4	3090.2	3167.0	3208.8	3223.8	3233.8
8851.7	25°	7390.9	4379.1	2718.0	2751.3	2839.8	2968.4	3030.1	3038.5	3033.5	3048.5
8810.0	27.5°	7100.4	3706.3	2497.6	2604.4	2718.0	2828.1	2861.5	2856.5	2846.5	2863.2
8738.2	30°	6749.8	3101.9	2357.3	2439.1	2594.4	2694.6	2724.6	2712.9	2692.9	2711.3
8701.4	32.5°	6379.2	2607.8	2242.1	2323.9	2492.6	2591.1	2621.1	2609.4	2594.4	2609.4
8743.2	35°	6033.6	2262.2	2135.3	2247.2	2412.4	2509.3	2547.7	2549.3	2549.3	2567.7
8853.4	37.5°	5716.4	2060.2	2046.8	2198.7	2357.3	2444.2	2499.2	2502.6	2430.8	2435.8
9040.4	40°	5422.5	1975.0	2006.7	2167.0	2303.9	2387.4	2390.7	2203.7	2071.9	2068.5
9254.1	42.5°	5182.1	1958.3	2018.4	2163.7	2265.5	2268.9	2033.5	1888.2	1851.5	1853.1
9451.1	45°	4956.8	1953.3	2045.1	2163.7	2208.8	1960.0	1801.4	1763.0	1766.3	1779.7
9539.5	47.5°	4704.7	1933.3	2050.1	2133.6	2045.1	1743.0	1696.2	1679.5	1672.8	1676.2
9519.5	50°	4429.2	1861.5	1986.7	2073.5	1764.7	1649.5	1591.0	1586.0	1594.4	1599.4
9407.6	52.5°	4138.7	1744.6	1878.2	1965.0	1636.1	1567.7	1502.6	1514.2	1551.0	1562.7
9290.8	55°	3948.4	1607.7	1734.6	1748.0	1546.0	1490.9	1435.8	1462.5	1530.9	1552.6
9220.7	57.5°	3898.3	1462.5	1571.0	1556.0	1430.8	1424.1	1390.7	1414.1	1500.9	1532.6
9217.3	60°	3883.3	1332.3	1410.7	1399.0	1318.9	1350.6	1342.3	1354.0	1384.0	1394.0
9183.9	62.5°	3766.4	1228.8	1267.2	1250.5	1218.7	1273.8	1293.9	1268.8	1292.2	1303.9
8955.2	65°	3469.2	1145.3	1126.9	1115.2	1128.6	1178.7	1218.7	1168.7	1190.4	1223.7
8073.7	67.5°	2978.4	1031.8	981.7	995.0	1036.8	1063.5	1115.2	1058.5	1076.8	1133.6
6502.7	70°	2409.1	888.2	843.1	881.5	921.6	976.7	985.0	946.6	990.0	1053.5
3968.4	72.5°	1704.6	742.9	711.2	789.7	803.0	874.8	856.5	838.1	898.2	919.9
1961.7	75°	1182.0	599.4	581.0	641.1	689.5	751.3	737.9	759.6	886.5	896.5
980.0	77.5°	747.9	465.8	454.1	492.5	559.3	627.7	649.4	896.5	1514.2	1574.3
509.2	80°	434.1	347.3	333.9	364.0	422.4	485.8	626.1	1100.2	998.4	986.7
228.7	82.5°	242.1	238.7	222.0	230.4	282.1	350.6	884.8	774.6	629.4	649.4
91.8	85°	113.5	140.2	120.2	115.2	158.6	410.7	591.0	442.4	293.8	287.2
20.0	87.5°	30.1	26.7	26.7	30.1	66.8	353.9	235.4	188.7	111.9	108.5
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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