

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: P948655

Luminaire Tested: **GALN-SB3C-927-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948655  
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-SB3C-927-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

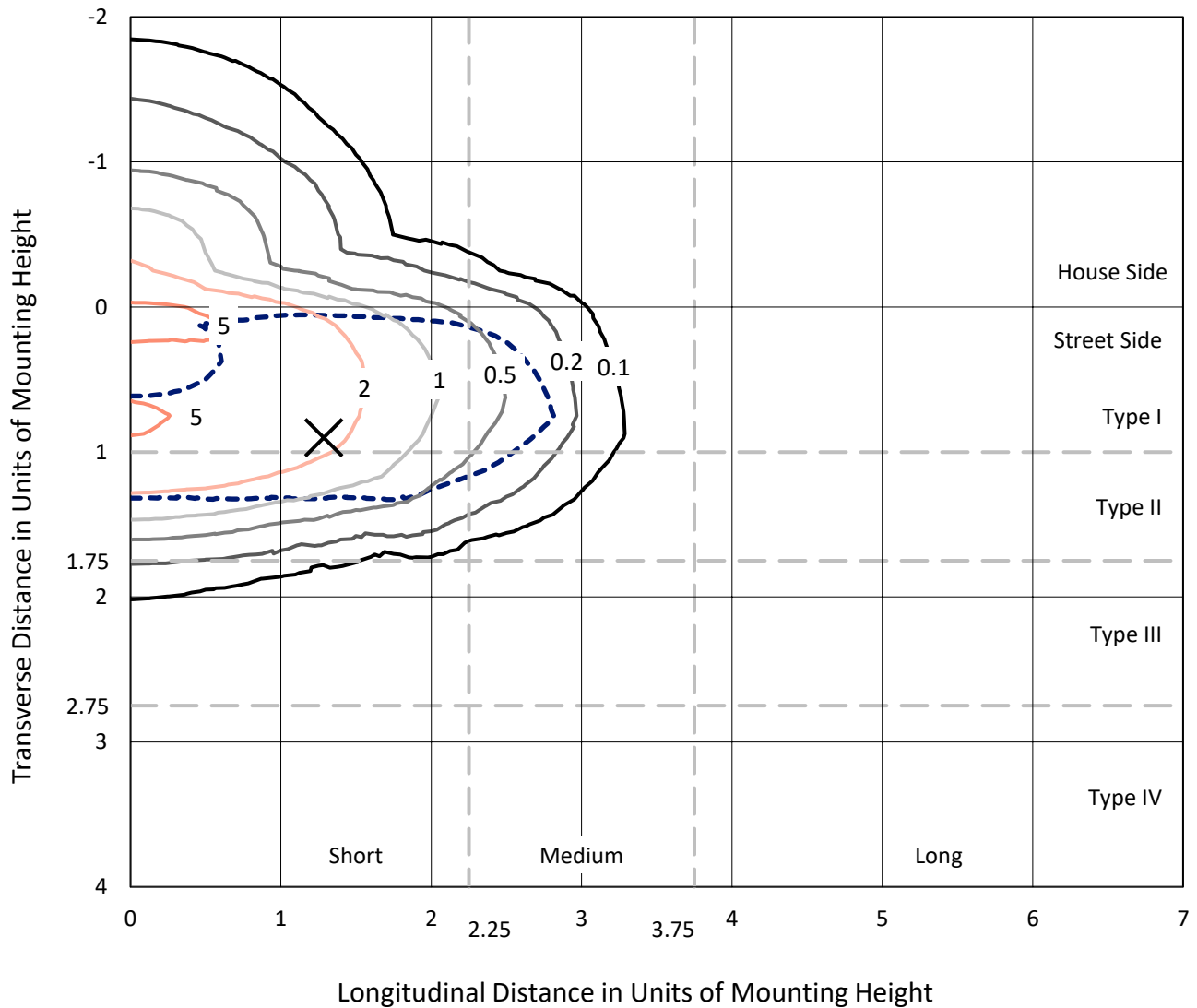
Lumens per Lamp: N/A  
Luminaire Lumens: 13910 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

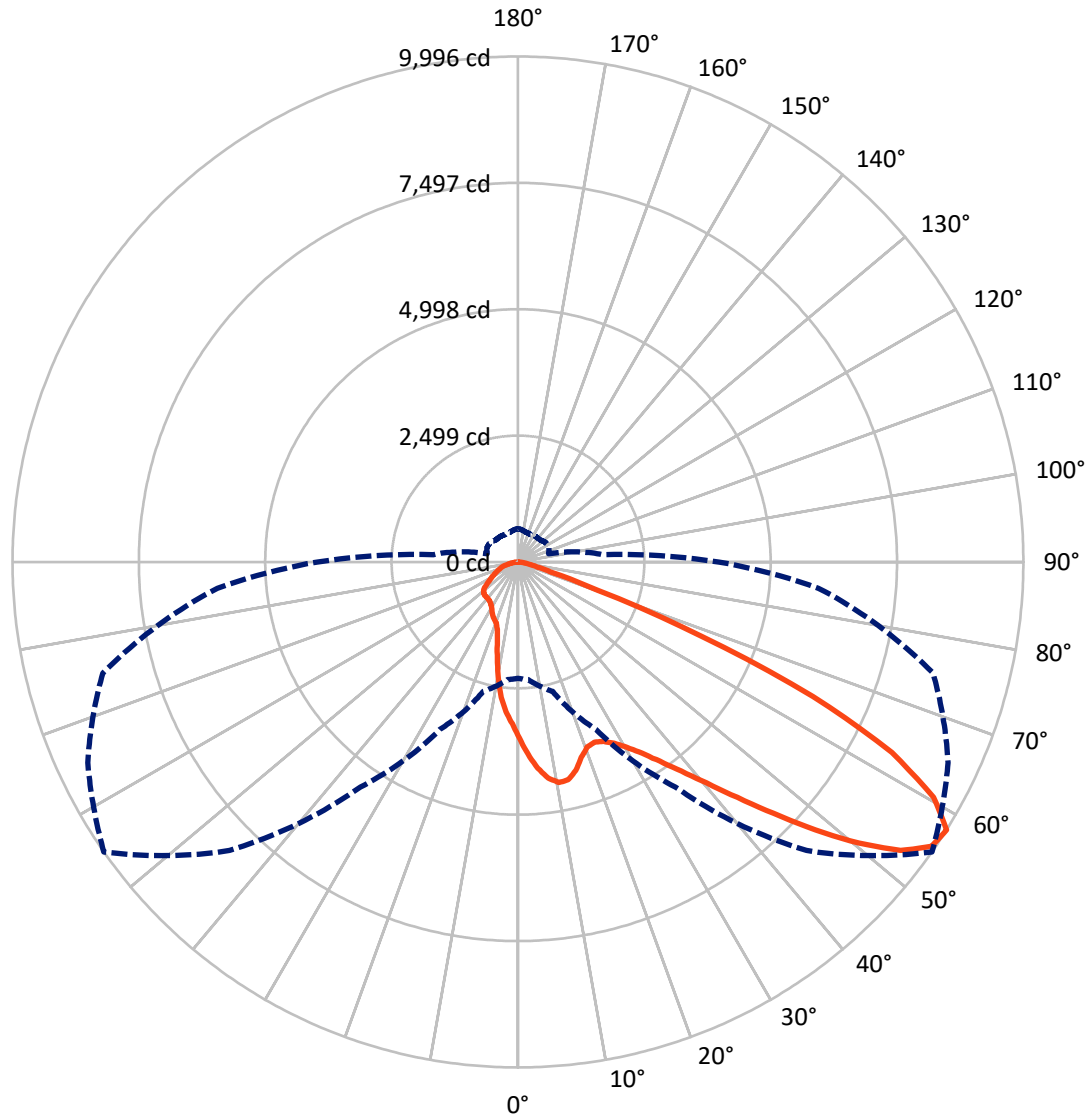
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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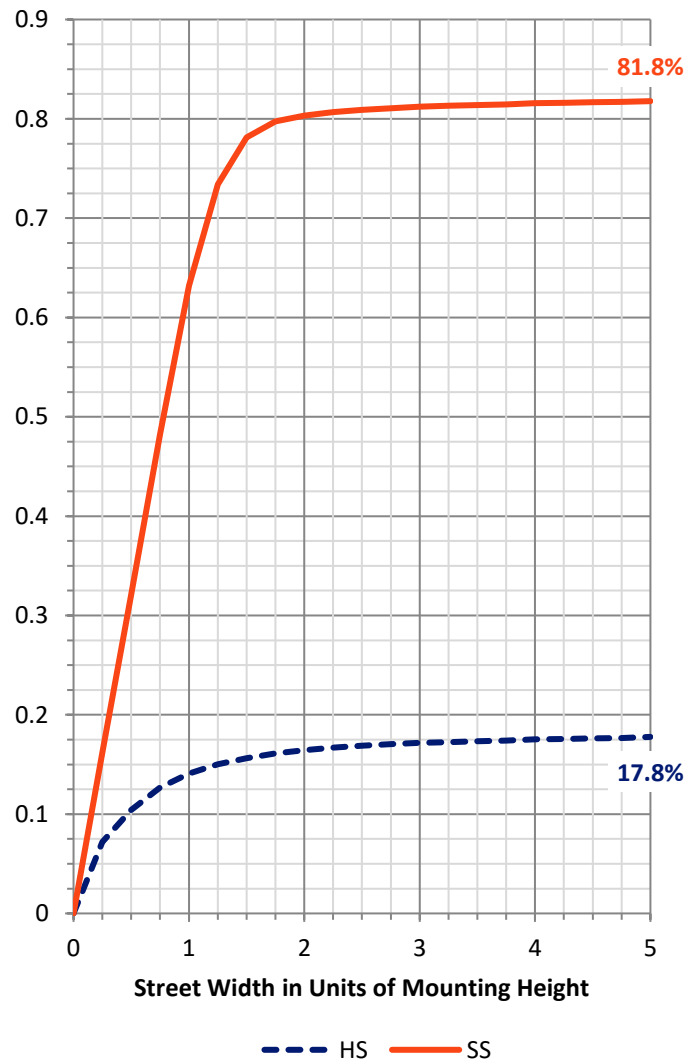
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2516.9	0.0	2516.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	11393.1	0.0	11393.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	13910.0	0.0	13910.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.4	2.3
10°-20°	816.3	5.9
20°-30°	1302.6	9.4
30°-40°	2062.4	14.8
40°-50°	3156.7	22.7
50°-60°	3381.1	24.3
60°-70°	2127.1	15.3
70°-80°	629.0	4.5
80°-90°	111.2	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°	13910.0	100.0
0°-180°	13910.0	100.0



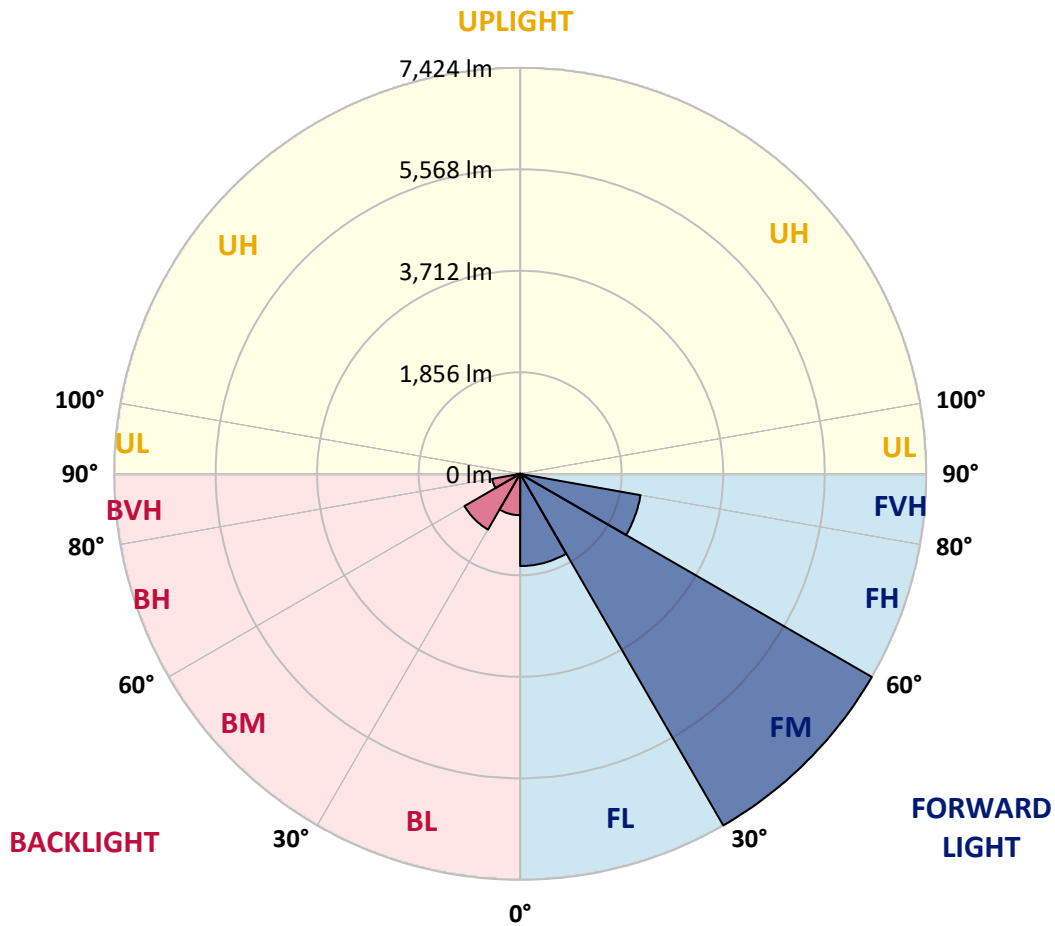
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1685.9	12.1			
FM (30°-60°)	7423.9	53.4			
FH (60°-80°)	2236.3	16.1			G2/5000
FVH (80°-90°)	47.0	0.3			G1/100
BL (0°-30°)	756.5	5.4	B2/1000		
BM (30°-60°)	1176.4	8.5	B2/2500		
BH (60°-80°)	519.8	3.7	B2/1000		G2/1000
BVH (80°-90°)	64.2	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°	3485.4	3485.4	3485.4	3485.4	3485.4	3485.4	3485.4	3485.4	3485.4	3485.4
2.5°	3998.8	3995.9	4011.8	3957.8	3921.2	3871.5	3806.1	3722.7	3632.8	3537.9
5°	4359.1	4333.9	4350.5	4310.2	4269.9	4195.1	4098.1	3962.1	3796.0	3606.9
7.5°	4302.3	4285.0	4327.4	4363.4	4393.6	4384.2	4313.1	4170.7	3956.4	3681.7
10°	3844.2	3824.8	3884.5	4008.9	4191.5	4350.5	4436.7	4348.3	4120.3	3763.7
12.5°	3440.1	3430.7	3470.3	3571.0	3773.7	4078.6	4420.9	4503.6	4290.8	3860.8
15°	3267.5	3256.0	3281.2	3332.2	3461.7	3745.7	4277.1	4610.0	4458.3	3972.9
17.5°	3229.4	3216.5	3227.2	3253.8	3337.3	3553.7	4059.9	4662.5	4633.1	4098.1
20°	3299.9	3289.1	3290.5	3289.1	3347.3	3519.2	3908.9	4642.4	4785.5	4213.1
22.5°	3470.3	3452.3	3453.0	3414.9	3446.6	3579.6	3869.4	4588.5	4921.4	4313.8
25°	3747.9	3715.5	3722.0	3624.9	3616.3	3714.8	3931.2	4546.8	5056.6	4394.3
27.5°	4127.5	4090.9	4071.4	3926.9	3857.9	3906.8	4057.1	4561.1	5184.6	4464.1
30°	4602.1	4557.5	4518.0	4313.1	4187.9	4170.0	4252.7	4656.1	5335.6	4537.4
32.5°	5183.9	5132.1	5060.2	4788.4	4612.2	4518.0	4505.8	4825.0	5512.5	4630.9
35°	5876.3	5808.8	5706.6	5355.0	5132.1	4939.4	4839.4	5068.8	5754.8	4771.8
37.5°	6589.7	6513.5	6420.0	6001.5	5727.5	5443.5	5246.4	5399.6	6077.7	4963.1
40°	7247.6	7162.1	7075.1	6702.6	6408.5	6066.2	5744.8	5818.1	6472.5	5191.8
42.5°	7635.9	7572.7	7539.6	7338.2	7111.0	6763.7	6364.6	6314.3	6916.1	5455.0
45°	7618.7	7592.8	7694.9	7778.3	7724.4	7531.7	7090.9	6862.9	7361.3	5682.9
47.5°	7211.7	7228.9	7456.9	7925.7	8132.1	8232.8	7917.8	7401.5	7748.1	5853.3
50°	6104.3	6118.7	6646.5	7657.5	8237.1	8804.5	8738.3	7927.2	8048.0	5957.6
52.5°	5227.7	5237.1	5463.6	6862.2	7890.5	9092.1	9477.5	8422.6	8267.3	5986.4
55°	3937.7	3970.1	4223.9	5383.8	6988.8	8864.1	9927.7	8933.2	8406.1	5989.2
57.5°	2300.3	2335.6	2649.1	3654.4	5432.0	8069.5	9996.0	9386.2	8500.3	5966.2
60°	1126.8	1141.9	1278.5	1920.7	3349.5	6538.6	9446.6	9605.5	8552.8	5954.0
62.5°	759.4	757.2	762.9	947.8	1650.3	4200.9	8301.8	9221.5	8524.7	5907.3
65°	652.9	645.0	623.4	665.2	855.0	1921.4	6414.2	8075.3	8311.2	5790.1
67.5°	564.5	565.2	565.9	553.0	610.5	886.6	3919.7	6361.0	7544.6	5234.9
70°	467.4	473.9	476.8	476.8	497.6	581.7	1673.3	4359.8	5951.1	4104.5
72.5°	425.7	412.0	413.5	406.3	406.3	443.0	673.8	2471.5	3749.3	2309.0
75°	347.3	355.9	357.4	352.4	335.8	338.0	399.8	1036.9	1604.3	957.8
77.5°	299.9	299.9	302.7	299.1	286.2	253.1	266.8	402.0	545.8	392.6
80°	240.9	240.2	252.4	259.6	239.5	187.0	170.4	222.2	242.3	172.6
82.5°	117.2	124.4	173.3	197.7	181.9	135.2	104.3	138.1	129.4	76.2
85°	68.3	64.7	77.7	110.0	104.3	74.8	50.3	71.9	67.6	38.8
87.5°	21.6	20.1	15.8	37.4	30.2	20.9	13.7	20.9	18.7	8.6
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°
3485.4	0°	3485.4	3485.4	3485.4	3485.4	3485.4	3485.4	3485.4	3485.4	3485.4	3485.4
3496.9	2.5°	3445.8	3361.0	3276.9	3199.9	3153.2	3123.0	3092.8	3059.0	3046.0	3026.6
3506.2	5°	3411.3	3247.4	3101.4	2975.6	2861.2	2771.3	2680.7	2607.4	2574.3	2596.6
3535.7	7.5°	3391.2	3153.9	2928.8	2698.0	2475.8	2298.2	2143.6	2035.0	1986.1	1998.3
3564.5	10°	3373.2	3048.2	2705.2	2340.6	2021.3	1801.3	1643.1	1560.4	1529.5	1536.0
3603.3	12.5°	3356.7	2929.5	2435.5	1955.9	1616.5	1471.2	1425.9	1426.7	1432.4	1436.7
3665.2	15°	3353.8	2786.4	2134.2	1619.4	1397.9	1388.5	1437.4	1468.4	1484.9	1489.9
3716.9	17.5°	3349.5	2615.3	1827.2	1390.0	1344.7	1408.0	1453.3	1473.4	1486.3	1487.1
3767.3	20°	3332.2	2398.1	1543.9	1280.7	1333.2	1387.8	1415.9	1431.7	1442.5	1446.1
3805.4	22.5°	3279.0	2156.5	1323.1	1231.8	1287.2	1331.0	1364.1	1382.1	1388.5	1392.9
3812.6	25°	3183.4	1886.2	1170.7	1185.0	1223.2	1278.5	1305.1	1308.7	1306.6	1313.0
3794.6	27.5°	3058.3	1596.4	1075.7	1121.8	1170.7	1218.1	1232.5	1230.4	1226.0	1233.2
3763.7	30°	2907.3	1336.1	1015.3	1050.6	1117.5	1160.6	1173.5	1168.5	1159.9	1167.8
3747.9	32.5°	2747.6	1123.2	965.7	1001.0	1073.6	1116.0	1129.0	1123.9	1117.5	1123.9
3765.8	35°	2598.8	974.4	919.7	967.9	1039.1	1080.8	1097.3	1098.0	1098.0	1105.9
3813.3	37.5°	2462.1	887.3	881.6	947.0	1015.3	1052.7	1076.5	1077.9	1047.0	1049.1
3893.8	40°	2335.6	850.7	864.3	933.4	992.3	1028.3	1029.7	949.2	892.4	890.9
3985.9	42.5°	2232.0	843.5	869.4	931.9	975.8	977.2	875.8	813.3	797.5	798.2
4070.7	45°	2135.0	841.3	880.9	931.9	951.3	844.2	775.9	759.4	760.8	766.5
4108.8	47.5°	2026.4	832.7	883.0	919.0	880.9	750.7	730.6	723.4	720.5	722.0
4100.2	50°	1907.7	801.8	855.7	893.1	760.1	710.5	685.3	683.1	686.7	688.9
4052.0	52.5°	1782.6	751.4	809.0	846.4	704.7	675.2	647.2	652.2	668.0	673.1
4001.7	55°	1700.6	692.5	747.1	752.9	665.9	642.1	618.4	629.9	659.4	668.7
3971.5	57.5°	1679.1	629.9	676.7	670.2	616.3	613.4	599.0	609.1	646.5	660.1
3970.1	60°	1672.6	573.8	607.6	602.6	568.1	581.7	578.1	583.2	596.1	600.4
3955.7	62.5°	1622.3	529.2	545.8	538.6	524.9	548.7	557.3	546.5	556.6	561.6
3857.2	65°	1494.3	493.3	485.4	480.3	486.1	507.7	524.9	503.4	512.7	527.1
3477.5	67.5°	1282.8	444.4	422.8	428.6	446.6	458.1	480.3	455.9	463.8	488.3
2800.8	70°	1037.6	382.6	363.1	379.7	396.9	420.7	424.3	407.7	426.4	453.7
1709.3	72.5°	734.2	320.0	306.3	340.1	345.9	376.8	368.9	361.0	386.9	396.2
844.9	75°	509.1	258.2	250.2	276.1	297.0	323.6	317.8	327.2	381.8	386.1
422.1	77.5°	322.1	200.6	195.6	212.1	240.9	270.4	279.7	386.1	652.2	678.1
219.3	80°	187.0	149.6	143.8	156.8	181.9	209.3	269.7	473.9	430.0	425.0
98.5	82.5°	104.3	102.8	95.6	99.2	121.5	151.0	381.1	333.7	271.1	279.7
39.5	85°	48.9	60.4	51.8	49.6	68.3	176.9	254.6	190.6	126.6	123.7
8.6	87.5°	12.9	11.5	11.5	12.9	28.8	152.4	101.4	81.3	48.2	46.7
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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