

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: P948466

Luminaire Tested: **GALN-SB3C-735-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948466  
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-735-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

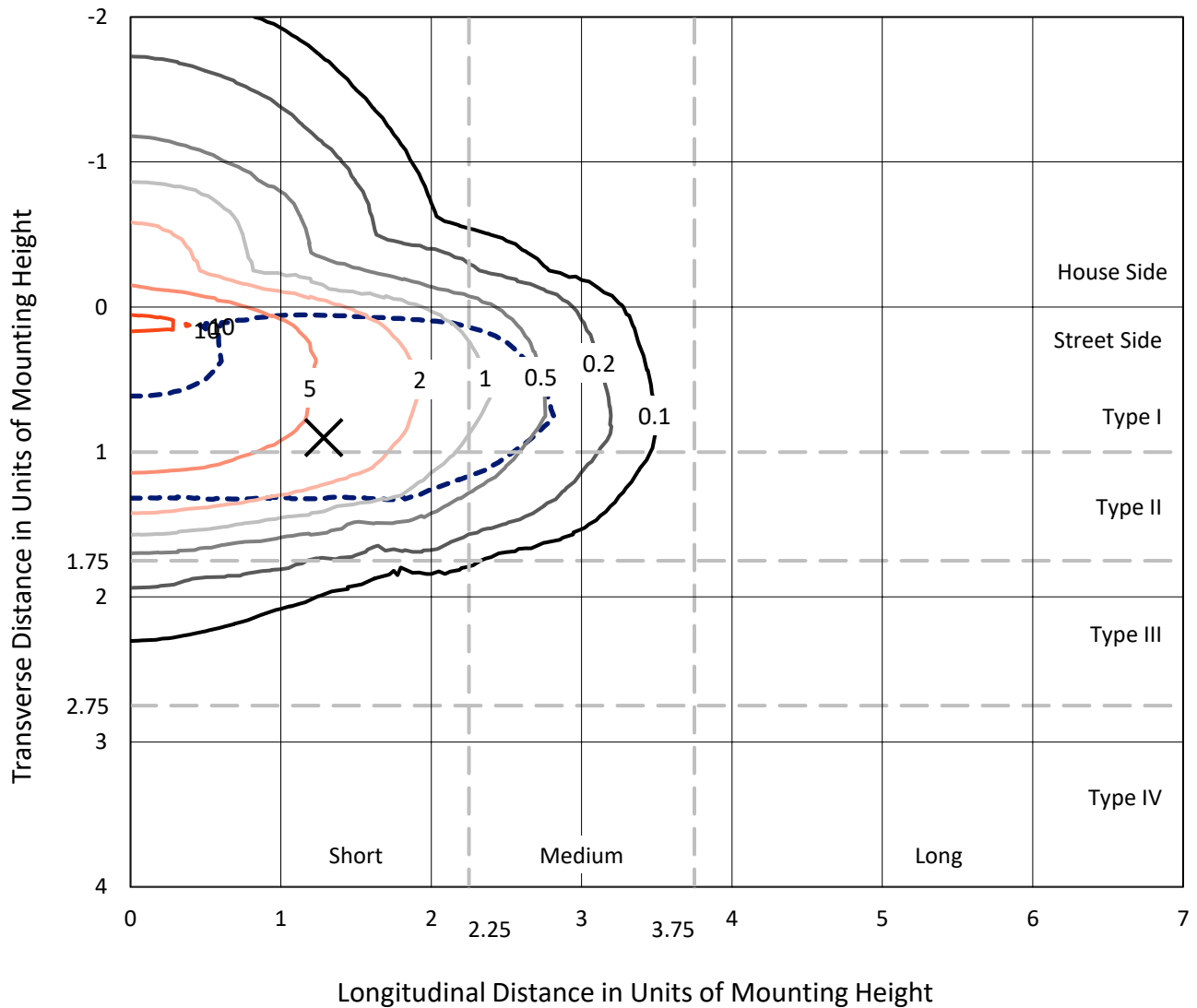
Lumens per Lamp: N/A  
Luminaire Lumens: 22853 lumens  
Efficiency: N/A  
Efficacy: 153.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

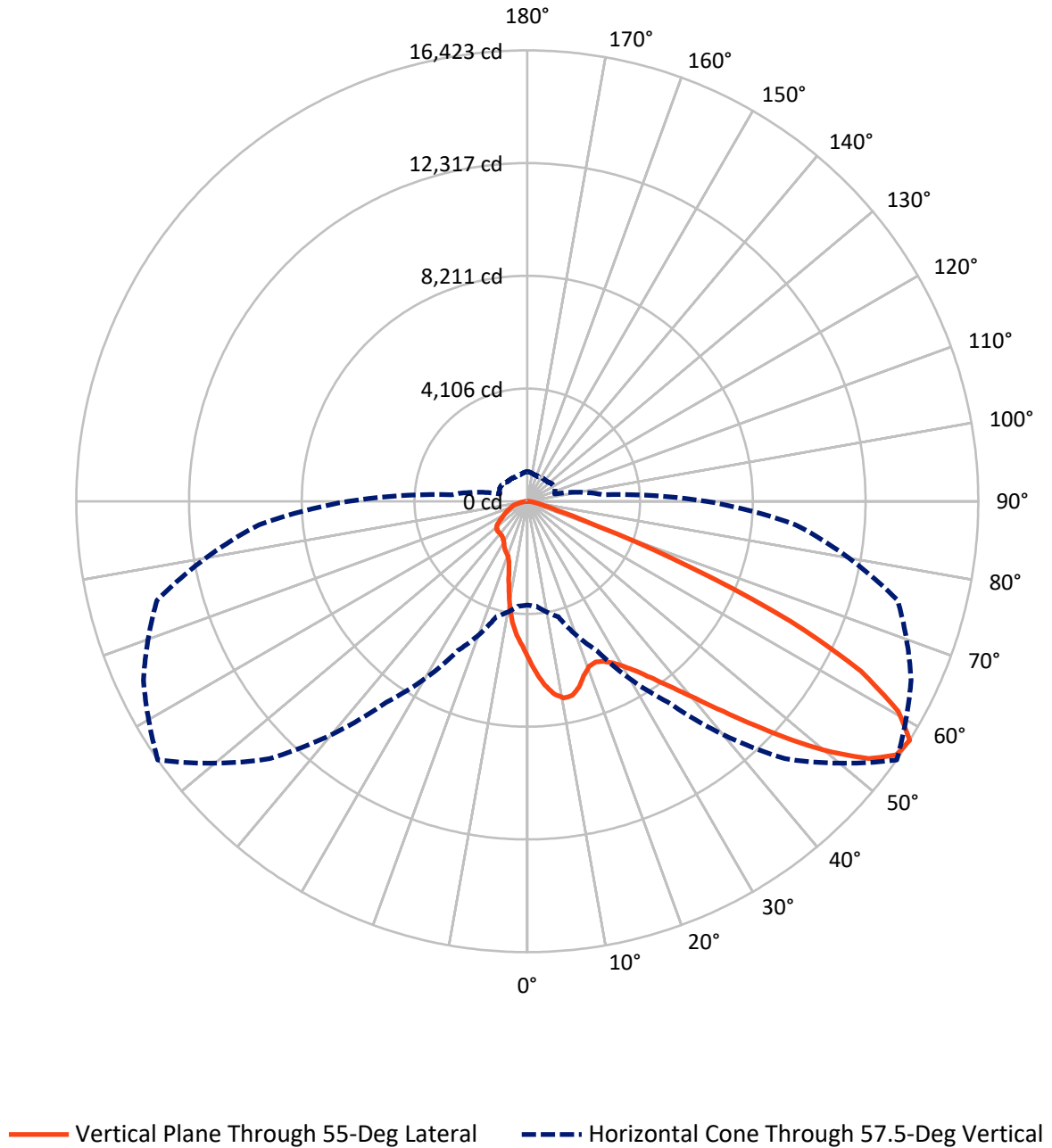
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4135.1	0.0	4135.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	18717.9	0.0	18717.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	22853.0	0.0	22853.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.4	2.3
10°-20°	1341.2	5.9
20°-30°	2140.1	9.4
30°-40°	3388.4	14.8
40°-50°	5186.2	22.7
50°-60°	5554.9	24.3
60°-70°	3494.6	15.3
70°-80°	1033.4	4.5
80°-90°	182.7	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°	22853.0	100.0
0°-180°	22853.0	100.0

**Coefficient of Utilization**



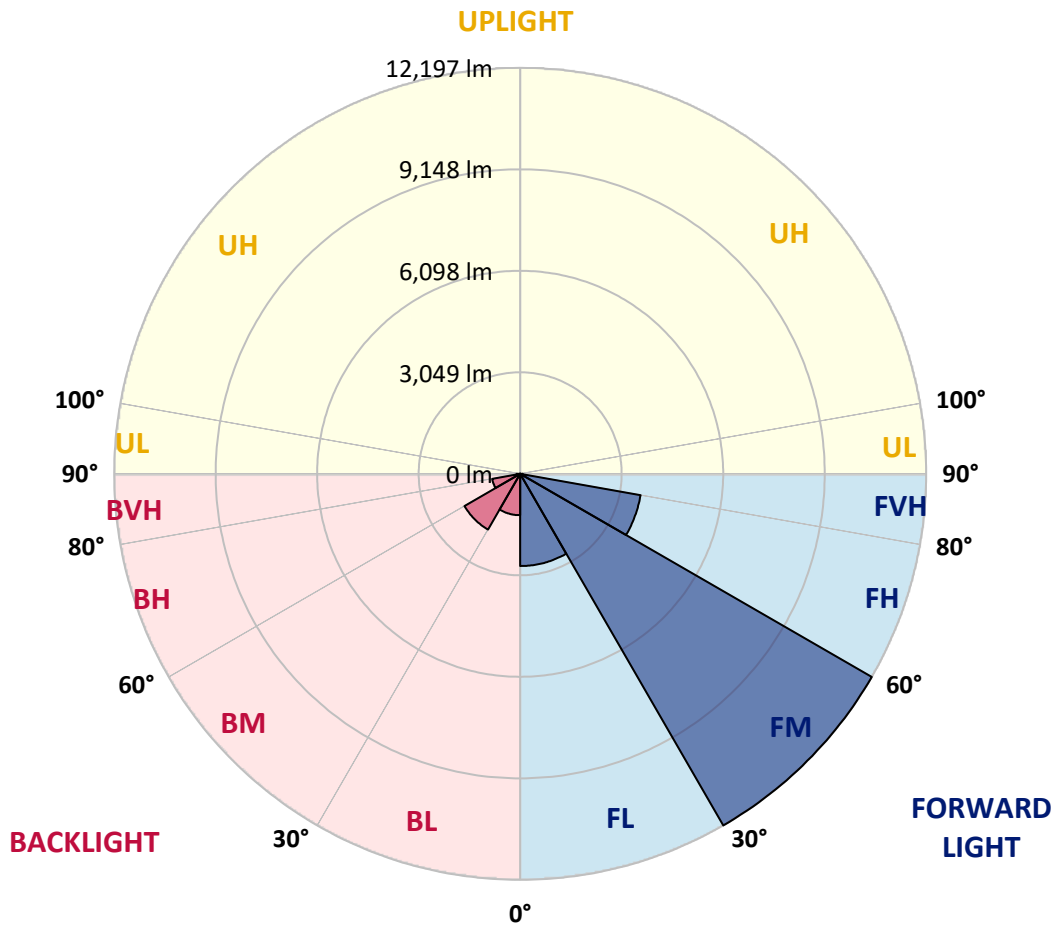
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2769.8	12.1			
FM (30°-60°)	12196.8	53.4			
FH (60°-80°)	3674.1	16.1			G2/5000
FVH (80°-90°)	77.2	0.3			G1/100
BL (0°-30°)	1242.9	5.4	B3/2500		
BM (30°-60°)	1932.7	8.5	B2/2500		
BH (60°-80°)	854.0	3.7	B2/1000		G2/1000
BVH (80°-90°)	105.5	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-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2
2.5°	6569.7	6565.0	6591.0	6502.4	6442.1	6360.6	6253.1	6116.1	5968.4	5812.5
5°	7161.6	7120.3	7147.4	7081.3	7015.1	6892.3	6732.8	6509.5	6236.6	5925.9
7.5°	7068.3	7039.9	7109.6	7168.7	7218.3	7203.0	7086.0	6852.1	6500.0	6048.7
10°	6315.7	6283.8	6381.9	6586.3	6886.3	7147.4	7289.2	7143.9	6769.4	6183.4
12.5°	5651.8	5636.4	5701.4	5866.8	6200.0	6700.9	7263.2	7399.1	7049.4	6342.9
15°	5368.3	5349.4	5390.7	5474.6	5687.2	6153.9	7026.9	7573.9	7324.6	6527.2
17.5°	5305.6	5284.4	5302.1	5345.8	5482.9	5838.5	6670.2	7660.2	7611.7	6732.8
20°	5421.4	5403.7	5406.1	5403.7	5499.4	5781.7	6422.1	7627.1	7862.2	6921.8
22.5°	5701.4	5671.9	5673.1	5610.4	5662.4	5881.0	6357.1	7538.5	8085.5	7087.2
25°	6157.4	6104.3	6114.9	5955.4	5941.2	6103.1	6458.7	7470.0	8307.6	7219.5
27.5°	6781.2	6721.0	6689.1	6451.6	6338.2	6418.5	6665.4	7493.6	8517.9	7334.1
30°	7560.9	7487.7	7422.7	7086.0	6880.4	6850.9	6986.8	7649.5	8765.9	7454.6
32.5°	8516.7	8431.6	8313.5	7866.9	7577.5	7422.7	7402.6	7927.2	9056.6	7608.2
35°	9654.4	9543.3	9375.5	8797.8	8431.6	8115.0	7950.8	8327.7	9454.7	7839.7
37.5°	10826.3	10701.1	10547.5	9859.9	9409.8	8943.2	8619.5	8871.1	9985.1	8154.0
40°	11907.3	11766.7	11623.7	11011.8	10528.6	9966.2	9438.2	9558.7	10633.7	8529.7
42.5°	12545.2	12441.3	12386.9	12056.1	11682.8	11112.2	10456.5	10373.8	11362.7	8962.1
45°	12516.9	12474.3	12642.1	12779.1	12690.5	12373.9	11649.7	11275.2	12093.9	9336.6
47.5°	11848.2	11876.6	12251.1	13021.3	13360.4	13525.8	13008.3	12160.1	12729.5	9616.6
50°	10028.9	10052.5	10919.6	12580.7	13532.9	14465.0	14356.3	13023.7	13222.2	9787.9
52.5°	8588.7	8604.1	8976.2	11274.0	12963.4	14937.6	15570.8	13837.7	13582.5	9835.1
55°	6469.3	6522.5	6939.5	8845.1	11482.0	14563.1	16310.3	14676.5	13810.5	9839.8
57.5°	3779.3	3837.2	4352.3	6003.8	8924.3	13257.6	16422.6	15420.7	13965.3	9802.0
60°	1851.2	1876.1	2100.5	3155.5	5502.9	10742.4	15520.0	15781.1	14051.5	9781.9
62.5°	1247.6	1244.0	1253.5	1557.1	2711.3	6901.7	13639.2	15150.2	14005.4	9705.2
65°	1072.7	1059.7	1024.3	1092.8	1404.7	3156.7	10538.0	13267.1	13654.6	9512.6
67.5°	927.4	928.6	929.8	908.5	1003.0	1456.7	6439.8	10450.6	12395.2	8600.6
70°	767.9	778.5	783.3	783.3	817.5	955.7	2749.1	7162.8	9777.2	6743.4
72.5°	699.4	676.9	679.3	667.5	667.5	727.7	1107.0	4060.5	6159.8	3793.5
75°	570.6	584.8	587.2	578.9	551.7	555.3	656.9	1703.6	2635.7	1573.6
77.5°	492.6	492.6	497.4	491.5	470.2	415.9	438.3	660.4	896.7	645.0
80°	395.8	394.6	414.7	426.5	393.4	307.2	280.0	365.1	398.1	283.5
82.5°	192.6	204.4	284.7	324.9	298.9	222.1	171.3	226.8	212.7	125.2
85°	112.2	106.3	127.6	180.8	171.3	122.9	82.7	118.1	111.1	63.8
87.5°	35.4	33.1	26.0	61.4	49.6	34.3	22.4	34.3	30.7	14.2
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°
5726.2	0°	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2
5745.1	2.5°	5661.2	5521.8	5383.6	5257.2	5180.4	5130.8	5081.2	5025.7	5004.4	4972.5
5760.5	5°	5604.5	5335.2	5095.4	4888.6	4700.8	4553.1	4404.2	4283.7	4229.4	4266.0
5808.9	7.5°	5571.5	5181.6	4811.8	4432.6	4067.5	3775.7	3521.7	3343.3	3263.0	3283.1
5856.2	10°	5541.9	5007.9	4444.4	3845.4	3320.9	2959.4	2699.5	2563.6	2512.8	2523.5
5920.0	12.5°	5514.8	4813.0	4001.4	3213.4	2655.8	2417.1	2342.7	2343.9	2353.3	2360.4
6021.6	15°	5510.0	4577.9	3506.4	2660.5	2296.6	2281.3	2361.6	2412.4	2439.6	2447.8
6106.6	17.5°	5502.9	4296.7	3001.9	2283.6	2209.2	2313.2	2387.6	2420.7	2441.9	2443.1
6189.3	20°	5474.6	3940.0	2536.5	2104.1	2190.3	2280.1	2326.2	2352.2	2369.9	2375.8
6251.9	22.5°	5387.2	3543.0	2173.8	2023.7	2114.7	2186.8	2241.1	2270.6	2281.3	2288.4
6263.8	25°	5230.0	3098.8	1923.3	1946.9	2009.6	2100.5	2144.2	2150.1	2146.6	2157.2
6234.2	27.5°	5024.5	2622.7	1767.4	1843.0	1923.3	2001.3	2024.9	2021.4	2014.3	2026.1
6183.4	30°	4776.4	2195.0	1668.1	1726.0	1835.9	1906.8	1928.0	1919.8	1905.6	1918.6
6157.4	32.5°	4514.1	1845.3	1586.6	1644.5	1763.8	1833.5	1854.8	1846.5	1835.9	1846.5
6187.0	35°	4269.6	1600.8	1511.0	1590.2	1707.1	1775.6	1802.8	1804.0	1804.0	1817.0
6264.9	37.5°	4045.1	1457.8	1448.4	1555.9	1668.1	1729.6	1768.5	1770.9	1720.1	1723.7
6397.3	40°	3837.2	1397.6	1420.0	1533.5	1630.3	1689.4	1691.8	1559.4	1466.1	1463.7
6548.5	42.5°	3667.0	1385.8	1428.3	1531.1	1603.2	1605.5	1438.9	1336.2	1310.2	1311.3
6687.9	45°	3507.6	1382.2	1447.2	1531.1	1563.0	1387.0	1274.7	1247.6	1249.9	1259.4
6750.5	47.5°	3329.2	1368.1	1450.8	1509.8	1447.2	1233.4	1200.3	1188.5	1183.8	1186.1
6736.3	50°	3134.2	1317.3	1405.9	1467.3	1248.7	1167.2	1125.9	1122.3	1128.2	1131.8
6657.2	52.5°	2928.7	1234.6	1329.1	1390.5	1157.8	1109.3	1063.3	1071.5	1097.5	1105.8
6574.5	55°	2794.0	1137.7	1227.5	1236.9	1094.0	1055.0	1016.0	1034.9	1083.3	1098.7
6524.8	57.5°	2758.6	1034.9	1111.7	1101.1	1012.5	1007.7	984.1	1000.6	1062.1	1084.5
6522.5	60°	2747.9	942.8	998.3	990.0	933.3	955.7	949.8	958.1	979.4	986.5
6498.9	62.5°	2665.2	869.5	896.7	884.9	862.4	901.4	915.6	897.9	914.4	922.7
6337.0	65°	2454.9	810.4	797.4	789.2	798.6	834.1	862.4	827.0	842.3	866.0
5713.2	67.5°	2107.6	730.1	694.7	704.1	733.6	752.5	789.2	749.0	762.0	802.2
4601.5	70°	1704.8	628.5	596.6	623.8	652.1	691.1	697.0	669.9	700.6	745.5
2808.2	72.5°	1206.2	525.7	503.3	558.8	568.3	619.1	606.1	593.1	635.6	650.9
1388.1	75°	836.4	424.1	411.1	453.7	487.9	531.6	522.2	537.5	627.3	634.4
693.5	77.5°	529.3	329.6	321.3	348.5	395.8	444.2	459.6	634.4	1071.5	1114.1
360.3	80°	307.2	245.7	236.3	257.5	298.9	343.8	443.0	778.5	706.5	698.2
161.9	82.5°	171.3	168.9	157.1	163.0	199.7	248.1	626.1	548.2	445.4	459.6
65.0	85°	80.3	99.2	85.1	81.5	112.2	290.6	418.2	313.1	207.9	203.2
14.2	87.5°	21.3	18.9	18.9	21.3	47.3	250.5	166.6	133.5	79.2	76.8
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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