

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: P955606

Luminaire Tested: **GALN-SB8C-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955606
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-SB8C-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 61589 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

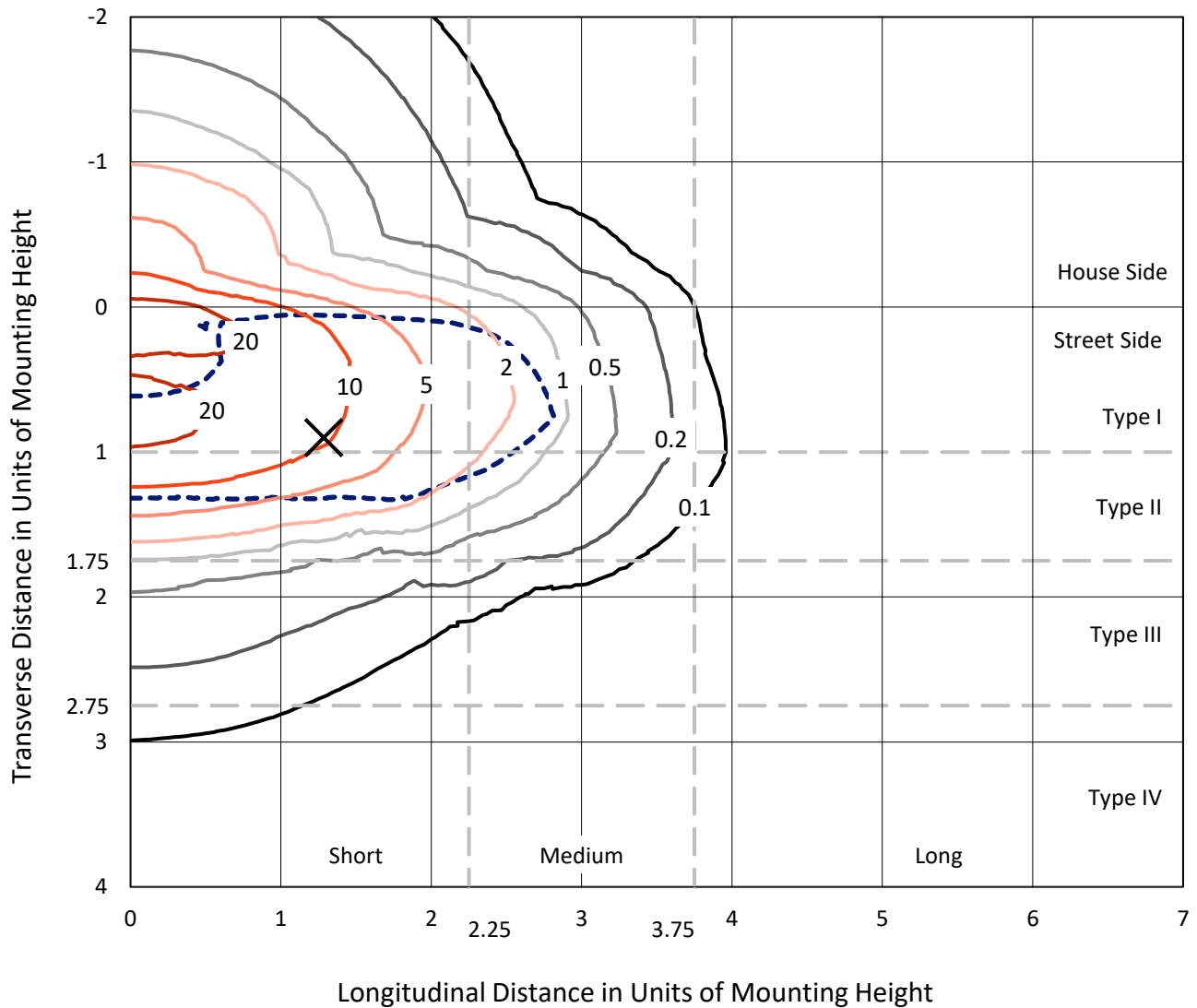
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

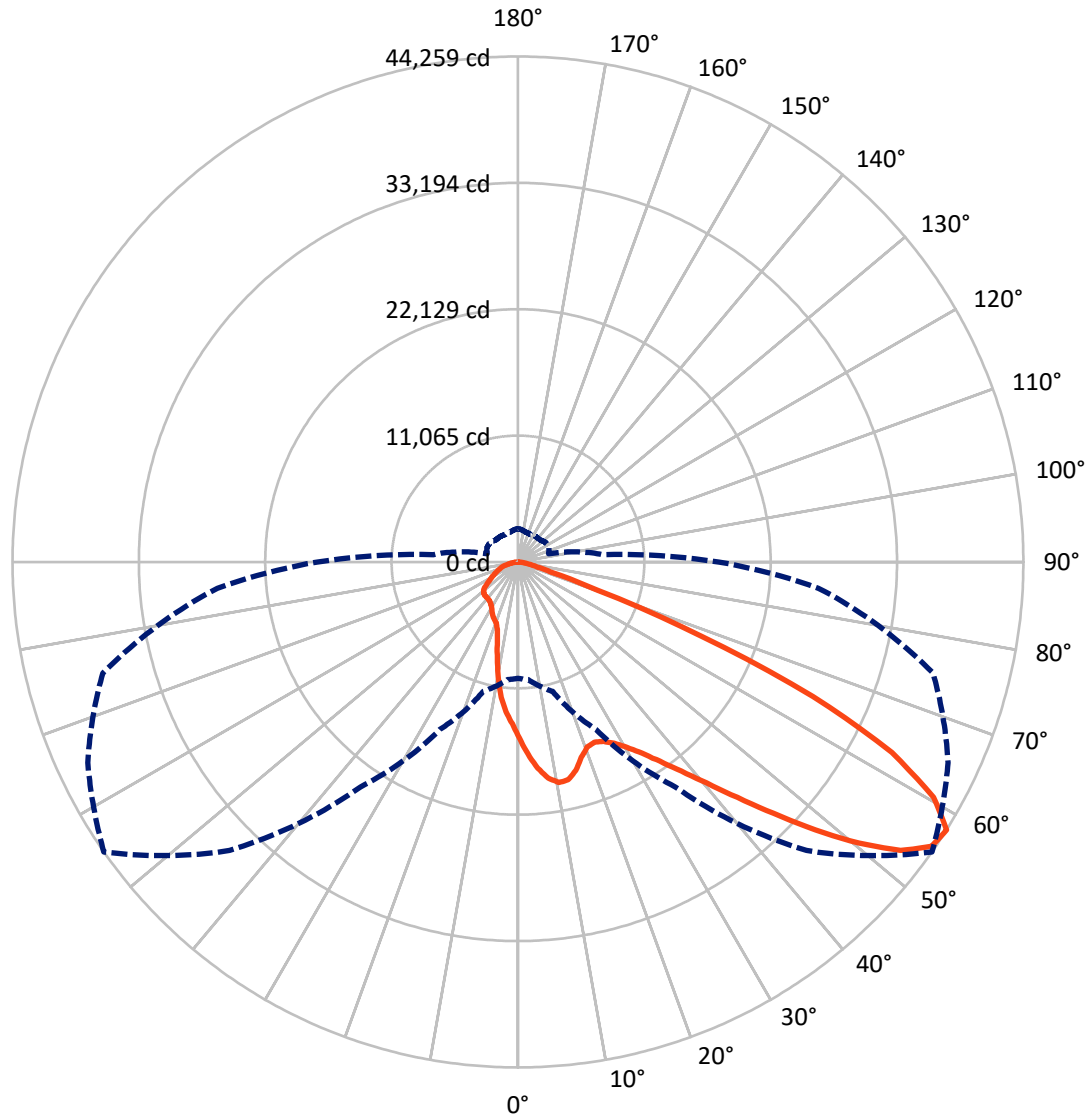
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.8 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	11144.2	0.0	11144.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	50444.8	0.0	50444.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	61589.0	0.0	61589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1432.0	2.3
10°-20°	3614.5	5.9
20°-30°	5767.7	9.4
30°-40°	9131.7	14.8
40°-50°	13976.9	22.7
50°-60°	14970.6	24.3
60°-70°	9418.1	15.3
70°-80°	2785.1	4.5
80°-90°	492.4	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°	61589.0	100.0
0°-180°	61589.0	100.0

Coefficient of Utilization

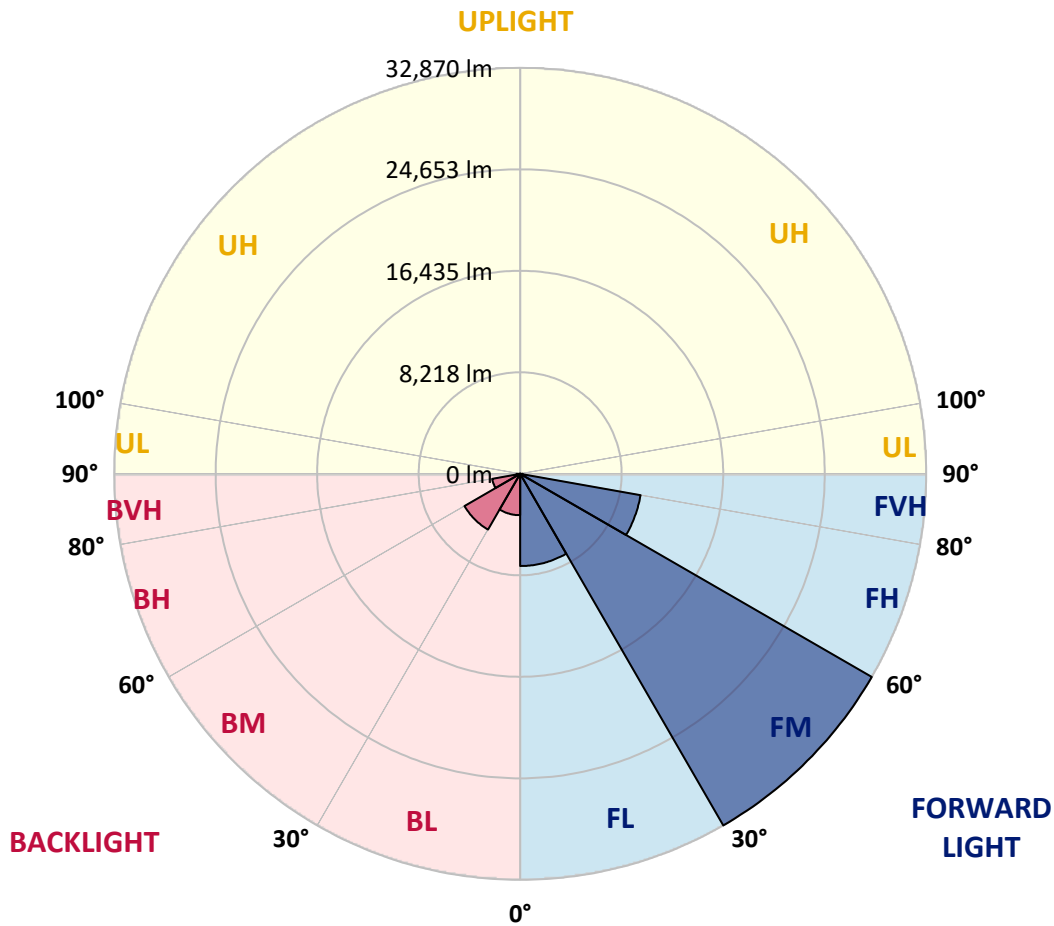


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7464.6	12.1			
FM (30°-60°)	32870.5	53.4			
FH (60°-80°)	9901.6	16.1			G4/12000
FVH (80°-90°)	208.1	0.3			G2/225
BL (0°-30°)	3349.6	5.4	B4/5000		
BM (30°-60°)	5208.7	8.5	B4/8500		
BH (60°-80°)	2301.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	284.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15432.2	15432.2	15432.2	15432.2	15432.2	15432.2	15432.2	15432.2	15432.2	15432.2
2.5°	17705.5	17692.7	17762.8	17524.0	17361.6	17141.9	16852.2	16482.9	16084.9	15664.6
5°	19300.6	19189.2	19262.4	19084.1	18905.8	18574.7	18144.9	17543.1	16807.6	15970.3
7.5°	19049.1	18972.7	19160.5	19319.7	19453.4	19412.0	19096.8	18466.4	17517.6	16301.4
10°	17021.0	16935.0	17199.3	17750.1	18558.8	19262.4	19644.5	19252.8	18243.6	16664.4
12.5°	15231.6	15190.2	15365.3	15811.1	16708.9	18058.9	19574.4	19940.6	18998.1	17094.2
15°	14467.5	14416.6	14528.0	14754.0	15327.1	16584.8	18937.6	20411.8	19740.0	17590.9
17.5°	14298.7	14241.4	14289.2	14407.0	14776.3	15734.7	17976.1	20644.2	20513.7	18144.9
20°	14610.8	14563.0	14569.4	14563.0	14820.9	15581.8	17307.5	20555.0	21188.6	18654.3
22.5°	15365.3	15285.7	15288.9	15120.2	15260.3	15849.3	17132.4	20316.3	21790.4	19100.0
25°	16594.3	16451.0	16479.7	16049.9	16011.7	16447.9	17406.2	20131.6	22389.0	19456.6
27.5°	18275.4	18113.0	18027.1	17387.1	17081.4	17298.0	17963.4	20195.3	22955.7	19765.4
30°	20376.7	20179.4	20004.2	19096.8	18542.8	18463.2	18829.4	20615.5	23624.3	20090.2
32.5°	22952.5	22723.3	22404.9	21201.4	20421.3	20004.2	19950.1	21363.7	24407.5	20504.1
35°	26018.6	25719.3	25267.2	23710.3	22723.3	21870.0	21427.4	22443.1	25480.5	21128.1
37.5°	29177.0	28839.5	28425.6	26572.6	25359.5	24101.9	23229.5	23907.7	26910.0	21975.1
40°	32090.2	31711.3	31326.1	29676.8	28374.6	26859.1	25435.9	25760.7	28658.0	22987.5
42.5°	33809.5	33529.3	33382.8	32491.4	31485.3	29947.5	28180.4	27957.5	30622.4	24152.8
45°	33733.1	33618.5	34070.6	34439.9	34201.1	33347.8	31396.1	30386.8	32593.2	25162.1
47.5°	31931.0	32007.4	33016.7	35092.6	36006.4	36452.1	35057.6	32771.5	34306.2	25916.7
50°	27027.8	27091.5	29428.5	33905.0	36471.2	38983.3	38690.4	35099.0	35633.8	26378.3
52.5°	23146.7	23188.1	24191.0	30383.6	34936.6	40256.8	41963.4	37292.6	36604.9	26505.7
55°	17434.9	17578.1	18702.0	23837.6	30944.0	39247.5	43956.5	39553.2	37219.4	26518.4
57.5°	10185.2	10341.2	11729.4	16180.4	24050.9	35729.4	44258.9	41559.0	37636.5	26416.5
60°	4989.1	5056.0	5660.9	8504.1	14830.5	28950.9	41826.5	42530.1	37868.9	26362.4
62.5°	3362.2	3352.6	3378.1	4196.3	7307.0	18600.2	36757.7	40829.9	37744.7	26155.5
65°	2891.0	2855.9	2760.4	2945.1	3785.6	8507.3	28400.1	35754.8	36799.1	25636.5
67.5°	2499.3	2502.5	2505.7	2448.4	2703.1	3925.7	17355.3	28164.5	33405.1	23178.6
70°	2069.5	2098.2	2110.9	2110.9	2203.2	2575.7	7408.9	19303.8	26349.7	18173.5
72.5°	1884.8	1824.4	1830.7	1798.9	1798.9	1961.3	2983.3	10943.0	16600.7	10223.4
75°	1537.8	1576.0	1582.4	1560.1	1486.9	1496.4	1770.2	4591.1	7103.2	4240.9
77.5°	1327.7	1327.7	1340.4	1324.5	1267.2	1120.7	1181.2	1779.8	2416.6	1738.4
80°	1066.6	1063.4	1117.5	1149.4	1060.2	827.8	754.6	983.8	1073.0	764.1
82.5°	519.0	550.8	767.3	875.6	805.5	598.6	461.7	611.3	573.1	337.5
85°	302.5	286.5	343.9	487.1	461.7	331.1	222.9	318.4	299.3	171.9
87.5°	95.5	89.1	70.0	165.6	133.7	92.3	60.5	92.3	82.8	38.2
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°
15432.2	0°	15432.2	15432.2	15432.2	15432.2	15432.2	15432.2	15432.2	15432.2	15432.2	15432.2
15483.1	2.5°	15257.1	14881.4	14508.9	14168.2	13961.3	13827.5	13693.8	13544.2	13486.9	13400.9
15524.5	5°	15104.3	14378.3	13732.0	13174.8	12668.6	12270.6	11869.5	11544.7	11398.2	11496.9
15655.1	7.5°	15015.1	13964.4	12967.9	11945.9	10962.1	10175.6	9491.1	9010.3	8793.8	8848.0
15782.4	10°	14935.5	13496.4	11977.7	10363.5	8949.9	7975.6	7275.1	6909.0	6772.1	6800.7
15954.4	12.5°	14862.3	12971.1	10783.8	8660.1	7157.3	6514.2	6313.6	6316.8	6342.3	6361.4
16228.2	15°	14849.6	12337.5	9449.7	7170.1	6189.4	6148.0	6364.6	6501.5	6574.7	6597.0
16457.4	17.5°	14830.5	11579.7	8090.2	6154.4	5953.8	6234.0	6434.6	6523.7	6581.1	6584.2
16680.3	20°	14754.0	10618.2	6835.8	5670.5	5902.9	6144.9	6269.0	6339.1	6386.8	6402.8
16849.0	22.5°	14518.4	9548.4	5858.3	5454.0	5699.1	5893.3	6039.8	6119.4	6148.0	6167.2
16880.9	25°	14095.0	8351.3	5183.3	5247.0	5415.8	5660.9	5778.7	5794.6	5785.1	5813.7
16801.3	27.5°	13541.0	7068.2	4763.1	4966.8	5183.3	5393.5	5457.1	5447.6	5428.5	5460.3
16664.4	30°	12872.4	5915.6	4495.6	4651.6	4947.7	5138.8	5196.1	5173.8	5135.6	5170.6
16594.3	32.5°	12165.6	4973.2	4275.9	4431.9	4753.5	4941.4	4998.7	4976.4	4947.7	4976.4
16673.9	35°	11506.5	4314.1	4072.2	4285.5	4600.7	4785.4	4858.6	4861.8	4861.8	4896.8
16884.0	37.5°	10901.6	3928.9	3903.4	4193.2	4495.6	4661.2	4766.2	4772.6	4635.7	4645.3
17240.6	40°	10341.2	3766.5	3827.0	4132.7	4393.7	4552.9	4559.3	4202.7	3951.2	3944.8
17648.2	42.5°	9882.7	3734.7	3849.3	4126.3	4320.5	4326.9	3878.0	3601.0	3530.9	3534.1
18023.9	45°	9452.9	3725.1	3900.2	4126.3	4212.3	3737.9	3435.4	3362.2	3368.5	3394.0
18192.6	47.5°	8972.1	3686.9	3909.8	4069.0	3900.2	3324.0	3234.8	3203.0	3190.2	3196.6
18154.4	50°	8446.8	3550.0	3788.8	3954.4	3365.3	3145.7	3034.2	3024.7	3040.6	3050.1
17941.1	52.5°	7892.8	3327.1	3581.9	3747.4	3120.2	2989.7	2865.5	2887.8	2957.8	2980.1
17718.2	55°	7529.8	3066.1	3308.0	3333.5	2948.3	2843.2	2738.1	2789.1	2919.6	2961.0
17584.5	57.5°	7434.3	2789.1	2996.0	2967.4	2728.6	2715.8	2652.2	2696.7	2862.3	2922.8
17578.1	60°	7405.7	2540.7	2690.4	2668.1	2515.3	2575.7	2559.8	2582.1	2639.4	2658.5
17514.5	62.5°	7182.8	2343.3	2416.6	2384.7	2324.2	2429.3	2467.5	2419.7	2464.3	2486.6
17078.3	65°	6616.1	2184.1	2149.1	2126.8	2152.3	2247.8	2324.2	2228.7	2270.1	2333.8
15397.2	67.5°	5680.0	1967.6	1872.1	1897.6	1977.2	2028.1	2126.8	2018.6	2053.6	2161.8
12401.2	70°	4594.3	1693.8	1607.9	1681.1	1757.5	1862.6	1878.5	1805.3	1888.0	2009.0
7568.1	72.5°	3250.7	1416.8	1356.3	1506.0	1531.4	1668.3	1633.3	1598.3	1712.9	1754.3
3741.0	75°	2254.2	1143.0	1108.0	1222.6	1314.9	1432.7	1407.3	1448.7	1690.6	1709.7
1868.9	77.5°	1426.4	888.3	866.0	939.2	1066.6	1197.1	1238.5	1709.7	2887.8	3002.4
971.1	80°	827.8	662.2	636.8	694.1	805.5	926.5	1194.0	2098.2	1904.0	1881.7
436.2	82.5°	461.7	455.3	423.5	439.4	538.1	668.6	1687.4	1477.3	1200.3	1238.5
175.1	85°	216.5	267.4	229.2	219.7	302.5	783.2	1127.1	843.7	560.4	547.6
38.2	87.5°	57.3	50.9	50.9	57.3	127.4	675.0	448.9	359.8	213.3	207.0
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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