

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: P952918

Luminaire Tested: **GALN-SB6C-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952918
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-SB6C-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44179 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

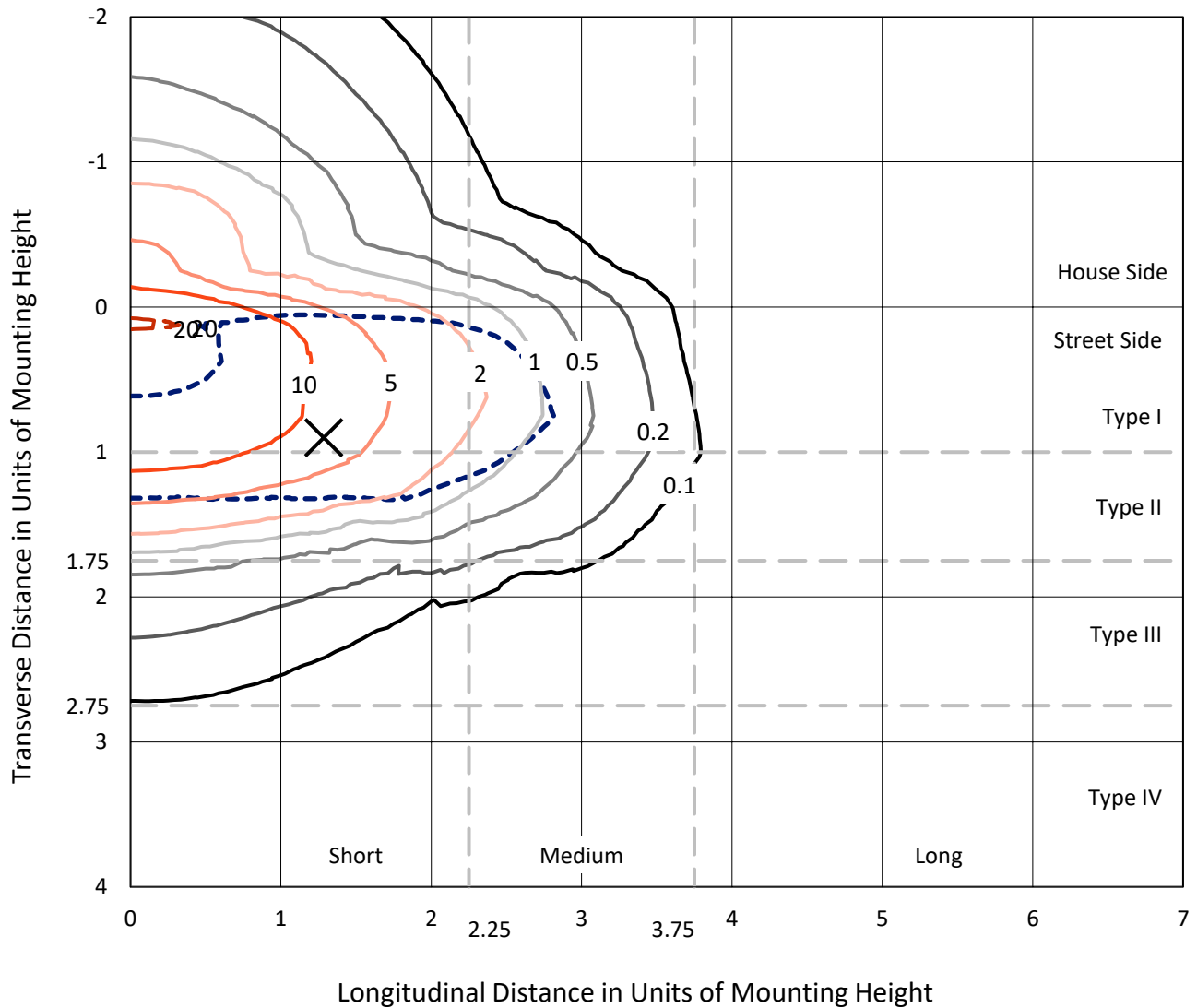
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

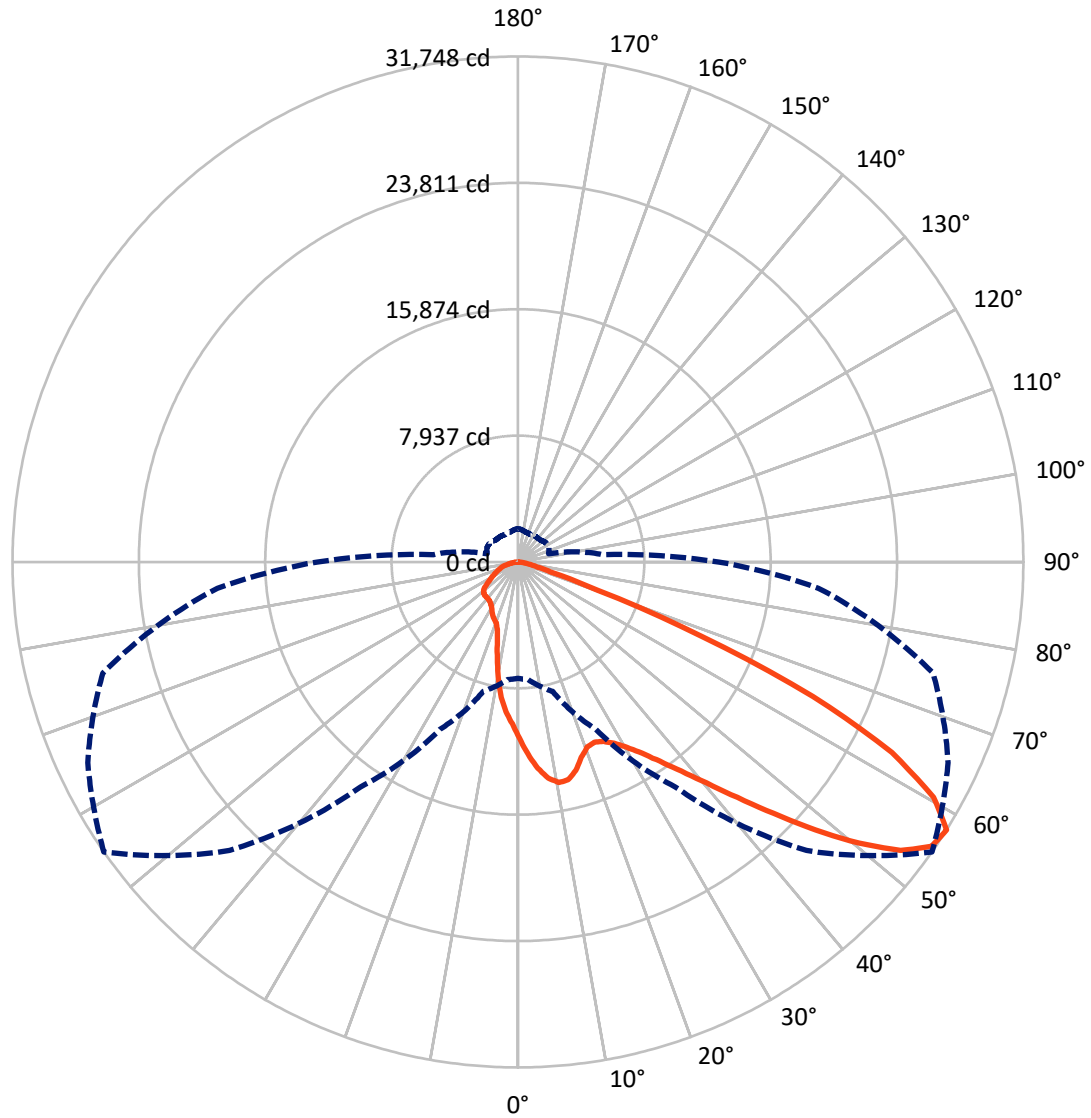
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 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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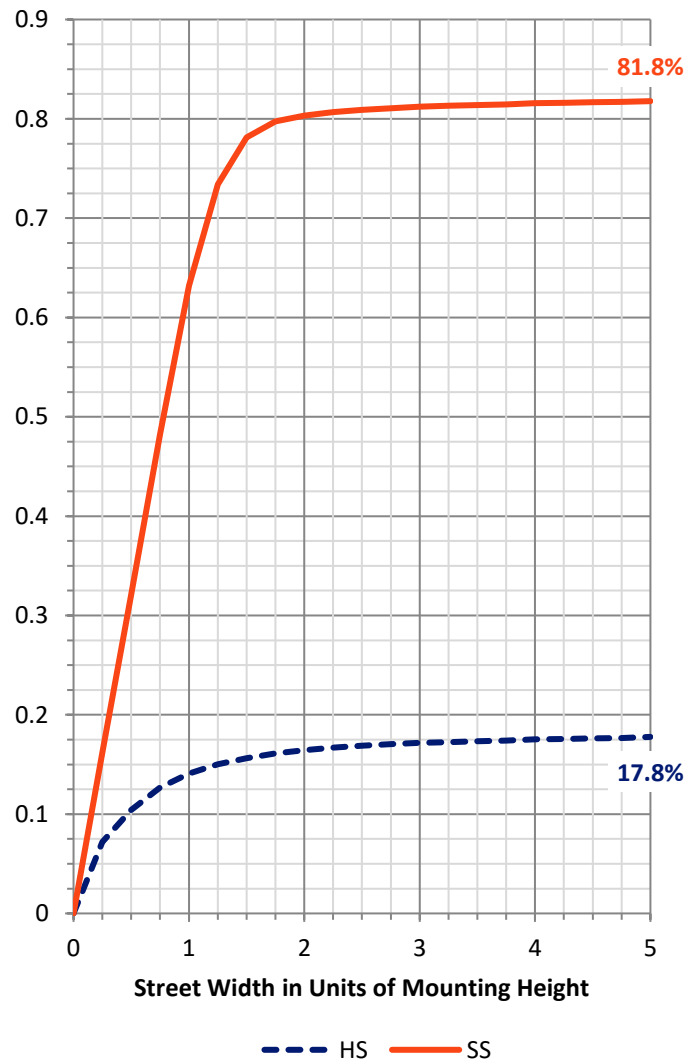
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7994.0	0.0	7994.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	36185.0	0.0	36185.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	44179.0	0.0	44179.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1027.2	2.3
10°-20°	2592.7	5.9
20°-30°	4137.3	9.4
30°-40°	6550.3	14.8
40°-50°	10025.9	22.7
50°-60°	10738.7	24.3
60°-70°	6755.8	15.3
70°-80°	1997.8	4.5
80°-90°	353.2	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°	44179.0	100.0
0°-180°	44179.0	100.0

Coefficient of Utilization



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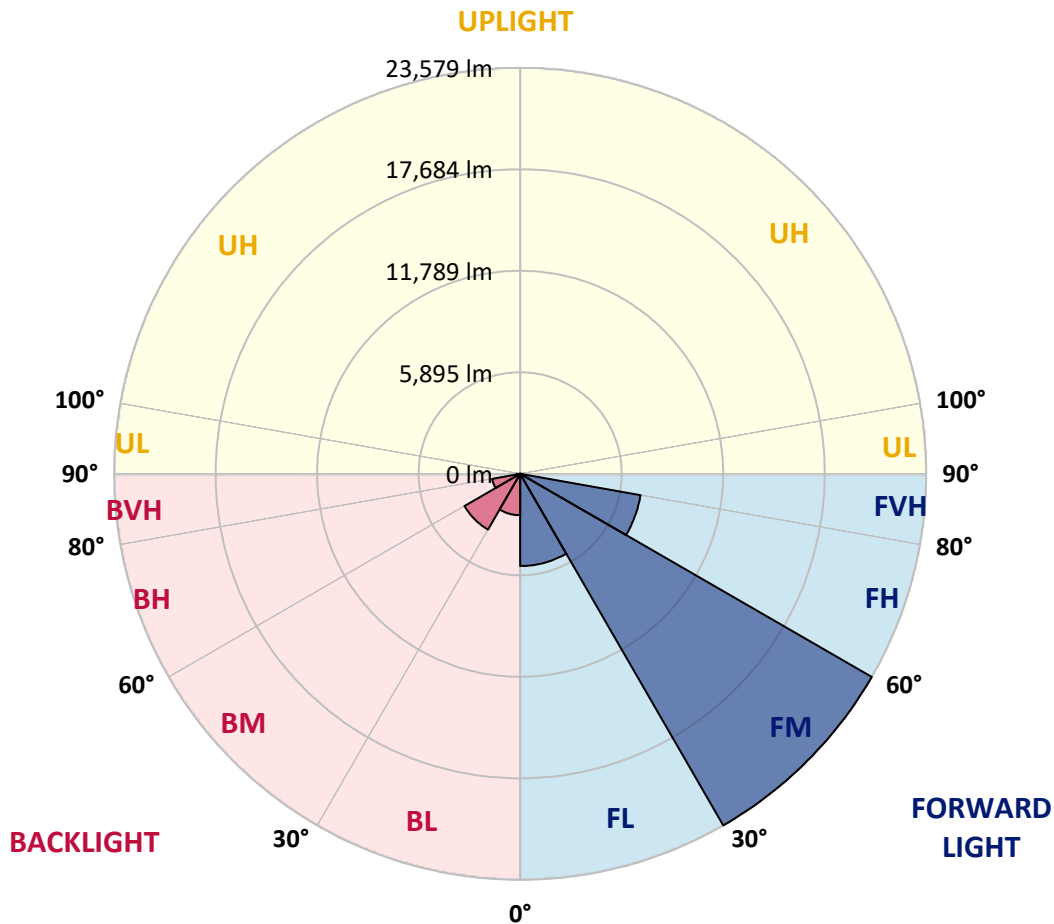
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5354.5	12.1			
FM (30°-60°)	23578.6	53.4			
FH (60°-80°)	7102.6	16.1			G3/7500
FVH (80°-90°)	149.2	0.3			G2/225
BL (0°-30°)	2402.7	5.4	B3/2500		
BM (30°-60°)	3736.3	8.5	B3/5000		
BH (60°-80°)	1650.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	204.0	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°	11069.8	11069.8	11069.8	11069.8	11069.8	11069.8	11069.8	11069.8	11069.8	11069.8
2.5°	12700.5	12691.4	12741.6	12570.3	12453.8	12296.3	12088.4	11823.5	11538.0	11236.5
5°	13844.7	13764.8	13817.3	13689.4	13561.5	13324.0	13015.7	12584.0	12056.4	11455.8
7.5°	13664.3	13609.5	13744.2	13858.4	13954.3	13924.6	13698.5	13246.3	12565.7	11693.3
10°	12209.5	12147.8	12337.4	12732.5	13312.6	13817.3	14091.4	13810.4	13086.5	11953.7
12.5°	10925.9	10896.3	11021.9	11341.6	11985.6	12954.0	14041.1	14303.8	13627.7	12262.0
15°	10377.8	10341.3	10421.2	10583.4	10994.5	11896.6	13584.3	14641.8	14159.9	12618.3
17.5°	10256.8	10215.7	10249.9	10334.4	10599.4	11286.8	12894.6	14808.5	14714.8	13015.7
20°	10480.6	10446.3	10450.9	10446.3	10631.3	11177.2	12415.0	14744.5	15199.0	13381.1
22.5°	11021.9	10964.8	10967.1	10846.0	10946.5	11369.0	12289.4	14573.3	15630.7	13700.8
25°	11903.4	11800.7	11821.2	11512.9	11485.5	11798.4	12485.8	14440.8	16060.0	13956.6
27.5°	13109.3	12992.8	12931.2	12472.1	12252.9	12408.2	12885.5	14486.5	16466.6	14178.1
30°	14616.6	14475.0	14349.4	13698.5	13301.1	13244.0	13506.7	14787.9	16946.2	14411.1
32.5°	16464.3	16299.8	16071.5	15208.2	14648.6	14349.4	14310.6	15324.6	17508.0	14708.0
35°	18663.6	18448.9	18124.6	17007.8	16299.8	15687.8	15370.3	16098.9	18277.7	15155.6
37.5°	20929.2	20687.1	20390.2	19061.0	18190.9	17288.7	16663.0	17149.4	19303.1	15763.1
40°	23018.9	22747.2	22470.8	21287.8	20353.7	19266.6	18245.7	18478.6	20556.9	16489.4
42.5°	24252.2	24051.2	23946.2	23306.7	22585.0	21481.9	20214.4	20054.5	21966.1	17325.3
45°	24197.4	24115.2	24439.5	24704.4	24533.1	23921.1	22521.0	21797.1	23379.8	18049.3
47.5°	22904.7	22959.5	23683.5	25172.6	25828.1	26147.8	25147.5	23507.7	24608.5	18590.5
50°	19387.6	19433.3	21109.6	24320.7	26161.5	27963.5	27753.4	25177.2	25560.9	18921.7
52.5°	16603.6	16633.3	17352.7	21794.8	25060.7	28877.0	30101.1	26750.7	26257.4	19013.1
55°	12506.4	12609.1	13415.3	17099.2	22196.7	28153.0	31530.8	28372.3	26698.2	19022.2
57.5°	7306.0	7417.9	8413.7	11606.5	17252.2	25629.4	31747.8	29811.1	26997.4	18949.1
60°	3578.8	3626.8	4060.7	6100.2	10638.2	20767.1	30002.9	30507.7	27164.1	18910.3
62.5°	2411.7	2404.9	2423.2	3010.1	5241.4	13342.3	26367.1	29288.1	27075.0	18761.8
65°	2073.7	2048.6	1980.1	2112.6	2715.5	6102.4	20371.9	25647.6	26396.7	18389.6
67.5°	1792.8	1795.1	1797.4	1756.3	1939.0	2816.0	12449.3	20202.9	23962.2	16626.4
70°	1484.5	1505.1	1514.2	1514.2	1580.4	1847.6	5314.5	13847.0	18901.1	13036.2
72.5°	1352.0	1308.6	1313.2	1290.4	1290.4	1406.9	2140.0	7849.6	11908.0	7333.4
75°	1103.1	1130.5	1135.1	1119.1	1066.6	1073.4	1269.8	3293.3	5095.3	3042.1
77.5°	952.4	952.4	961.5	950.1	909.0	803.9	847.3	1276.7	1733.4	1247.0
80°	765.1	762.8	801.6	824.5	760.5	593.8	541.3	705.7	769.7	548.1
82.5°	372.3	395.1	550.4	628.1	577.8	429.4	331.2	438.5	411.1	242.1
85°	217.0	205.5	246.7	349.4	331.2	237.5	159.9	228.4	214.7	123.3
87.5°	68.5	63.9	50.2	118.8	95.9	66.2	43.4	66.2	59.4	27.4
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°
11069.8	0°	11069.8	11069.8	11069.8	11069.8	11069.8	11069.8	11069.8	11069.8	11069.8	11069.8
11106.4	2.5°	10944.2	10674.7	10407.5	10163.1	10014.7	9918.8	9822.8	9715.5	9674.4	9612.7
11136.1	5°	10834.6	10313.9	9850.2	9450.6	9087.4	8802.0	8514.2	8281.2	8176.2	8247.0
11229.7	7.5°	10770.6	10017.0	9302.1	8569.0	7863.3	7299.2	6808.2	6463.3	6308.0	6346.8
11321.0	10°	10713.5	9681.2	8591.8	7433.9	6419.9	5721.0	5218.6	4956.0	4857.8	4878.3
11444.4	12.5°	10661.0	9304.4	7735.4	6212.1	5134.1	4672.8	4528.9	4531.2	4549.4	4563.1
11640.8	15°	10651.9	8849.9	6778.5	5143.2	4439.8	4410.1	4565.4	4663.6	4716.2	4732.1
11805.2	17.5°	10638.2	8306.4	5803.3	4414.7	4270.8	4471.8	4615.7	4679.6	4720.7	4723.0
11965.1	20°	10583.4	7616.6	4903.4	4067.5	4234.3	4407.8	4496.9	4547.1	4581.4	4592.8
12086.1	22.5°	10414.4	6849.3	4202.3	3912.2	4088.1	4227.4	4332.5	4389.6	4410.1	4423.8
12109.0	25°	10110.6	5990.5	3718.1	3763.8	3884.8	4060.7	4145.2	4156.6	4149.8	4170.3
12051.9	27.5°	9713.2	5070.1	3416.6	3562.8	3718.1	3868.8	3914.5	3907.7	3894.0	3916.8
11953.7	30°	9233.6	4243.4	3224.8	3336.7	3549.1	3686.1	3727.2	3711.3	3683.9	3709.0
11903.4	32.5°	8726.6	3567.4	3067.2	3179.1	3409.8	3544.5	3585.6	3569.7	3549.1	3569.7
11960.5	35°	8253.8	3094.6	2921.0	3074.1	3300.2	3432.6	3485.2	3487.4	3487.4	3512.6
12111.3	37.5°	7819.9	2818.3	2800.0	3007.8	3224.8	3343.6	3418.9	3423.5	3325.3	3332.1
12367.1	40°	7417.9	2701.8	2745.2	2964.4	3151.7	3265.9	3270.5	3014.7	2834.3	2829.7
12659.4	42.5°	7089.1	2679.0	2761.2	2959.9	3099.2	3103.8	2781.7	2583.0	2532.8	2535.1
12928.9	45°	6780.8	2672.1	2797.7	2959.9	3021.5	2681.2	2464.3	2411.7	2416.3	2434.6
13049.9	47.5°	6435.9	2644.7	2804.6	2918.8	2797.7	2384.3	2320.4	2297.6	2288.4	2293.0
13022.5	50°	6059.1	2546.5	2717.8	2836.5	2414.0	2256.4	2176.5	2169.7	2181.1	2187.9
12869.5	52.5°	5661.7	2386.6	2569.3	2688.1	2238.2	2144.5	2055.5	2071.5	2121.7	2137.7
12709.6	55°	5401.3	2199.3	2372.9	2391.2	2114.8	2039.5	1964.1	2000.7	2094.3	2124.0
12613.7	57.5°	5332.8	2000.7	2149.1	2128.5	1957.3	1948.1	1902.4	1934.4	2053.2	2096.6
12609.1	60°	5312.2	1822.5	1929.9	1913.9	1804.2	1847.6	1836.2	1852.2	1893.3	1907.0
12563.5	62.5°	5152.4	1680.9	1733.4	1710.6	1667.2	1742.6	1770.0	1735.7	1767.7	1783.7
12250.6	65°	4745.8	1566.7	1541.6	1525.6	1543.9	1612.4	1667.2	1598.7	1628.4	1674.1
11044.7	67.5°	4074.4	1411.4	1342.9	1361.2	1418.3	1454.8	1525.6	1448.0	1473.1	1550.7
8895.6	70°	3295.6	1215.0	1153.3	1205.9	1260.7	1336.1	1347.5	1294.9	1354.3	1441.1
5428.7	72.5°	2331.8	1016.3	972.9	1080.3	1098.5	1196.7	1171.6	1146.5	1228.7	1258.4
2683.5	75°	1617.0	819.9	794.8	877.0	943.2	1027.7	1009.5	1039.2	1212.7	1226.4
1340.6	77.5°	1023.2	637.2	621.2	673.7	765.1	858.7	888.4	1226.4	2071.5	2153.7
696.6	80°	593.8	475.0	456.8	497.9	577.8	664.6	856.4	1505.1	1365.7	1349.8
312.9	82.5°	331.2	326.6	303.8	315.2	386.0	479.6	1210.4	1059.7	861.0	888.4
125.6	85°	155.3	191.8	164.4	157.6	217.0	561.8	808.5	605.2	402.0	392.8
27.4	87.5°	41.1	36.5	36.5	41.1	91.4	484.2	322.0	258.1	153.0	148.5
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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