

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: P954283

Luminaire Tested: **GALN-SB7C-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954283
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-SB7C-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48672 lumens
Efficiency: N/A
Efficacy: 138.9 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

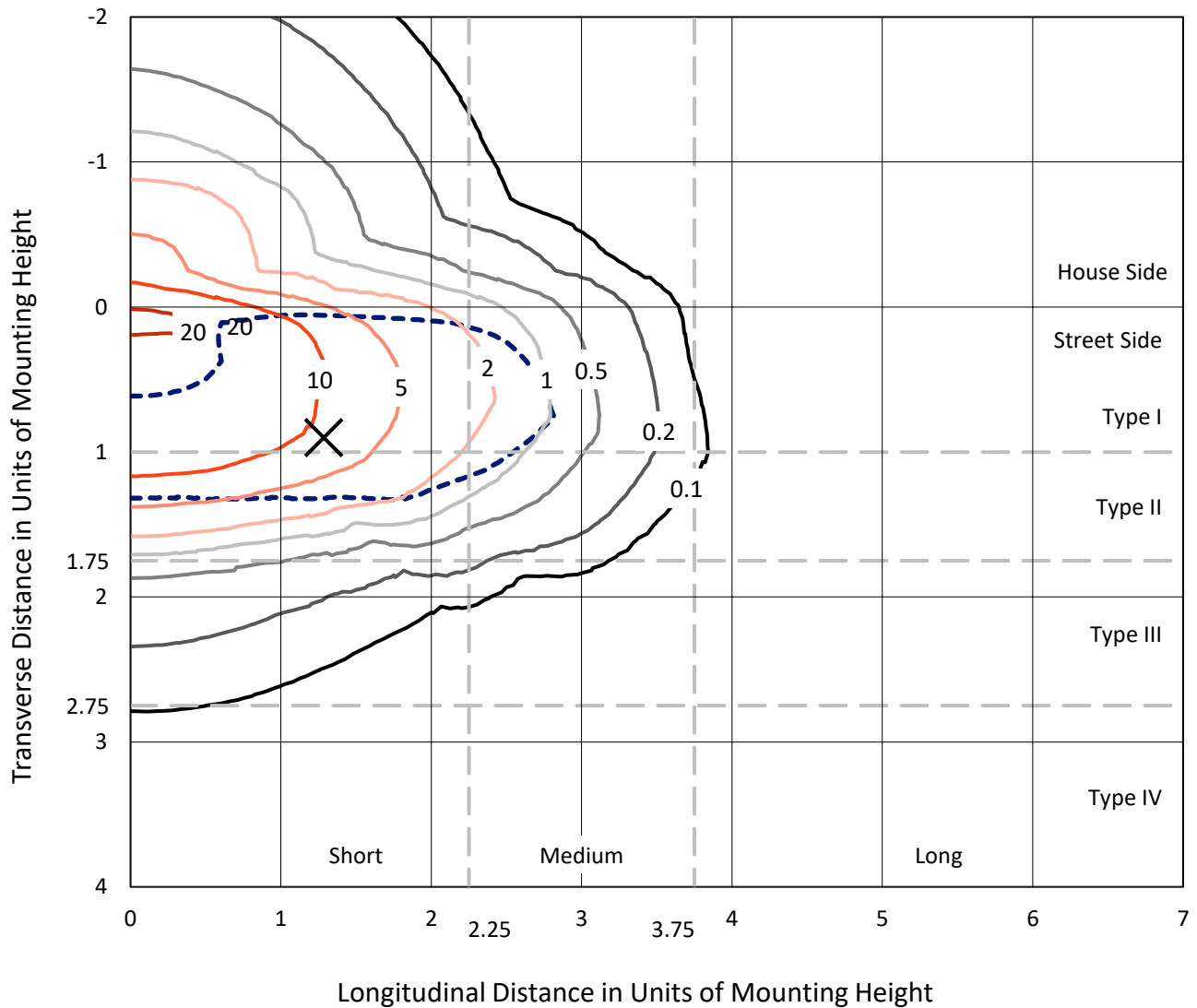
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

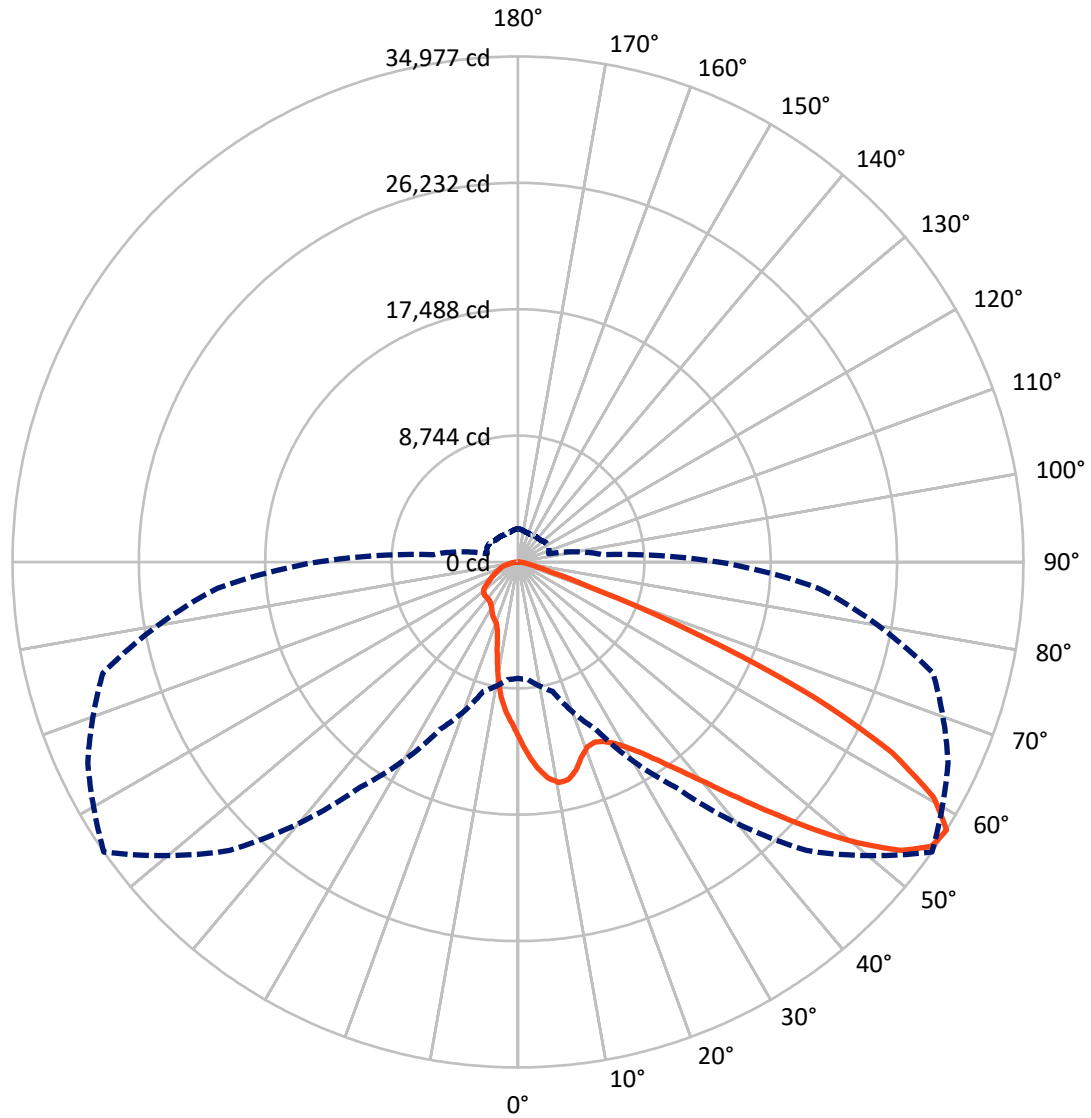
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 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	8807.0	0.0	8807.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	39865.1	0.0	39865.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	48672.0	0.0	48672.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1131.7	2.3
10°-20°	2856.4	5.9
20°-30°	4558.0	9.4
30°-40°	7216.5	14.8
40°-50°	11045.6	22.7
50°-60°	11830.8	24.3
60°-70°	7442.8	15.3
70°-80°	2201.0	4.5
80°-90°	389.2	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°	48672.0	100.0
0°-180°	48672.0	100.0

Coefficient of Utilization



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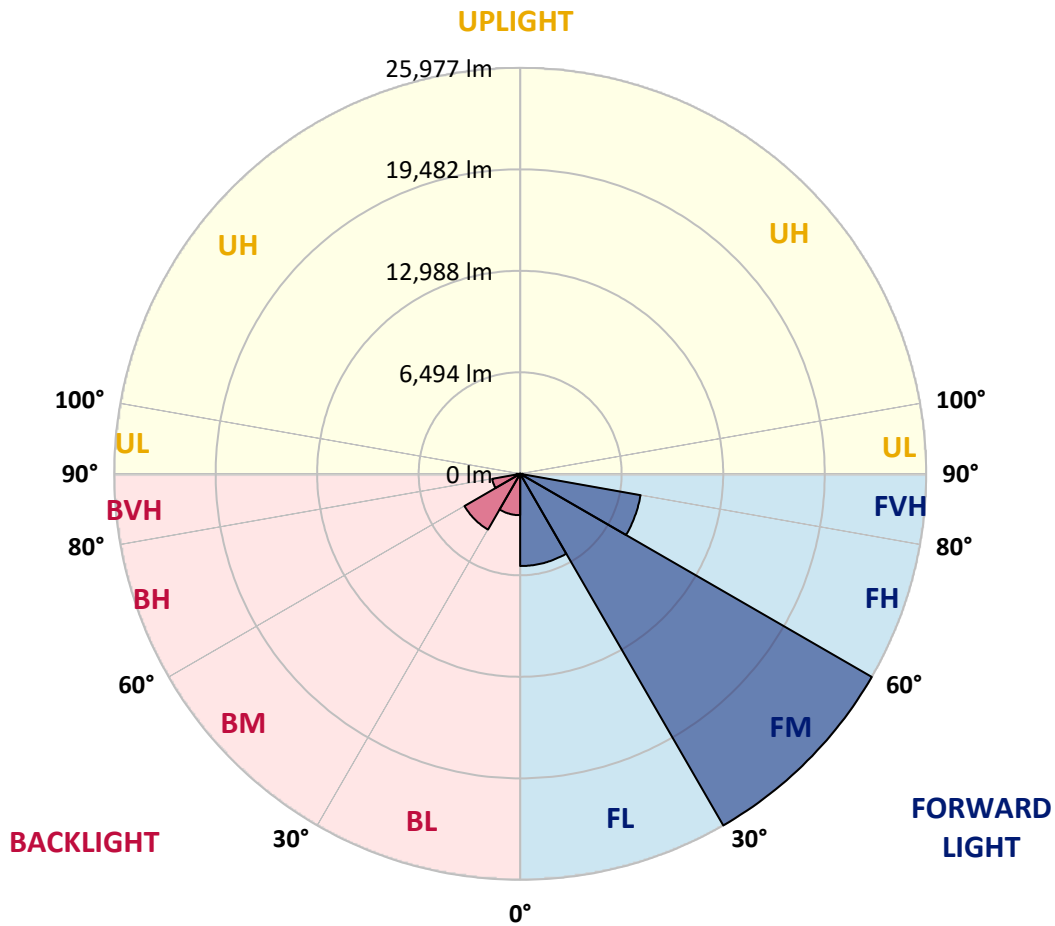
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5899.0	12.1			
FM (30°-60°)	25976.6	53.4			
FH (60°-80°)	7825.0	16.1			G4/12000
FVH (80°-90°)	164.4	0.3			G2/225
BL (0°-30°)	2647.1	5.4	B4/5000		
BM (30°-60°)	4116.3	8.5	B3/5000		
BH (60°-80°)	1818.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	224.7	0.5			G2/225
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°	12195.6	12195.6	12195.6	12195.6	12195.6	12195.6	12195.6	12195.6	12195.6	12195.6
2.5°	13992.1	13982.1	14037.4	13848.7	13720.4	13546.8	13317.8	13025.9	12711.4	12379.3
5°	15252.7	15164.6	15222.5	15081.6	14940.7	14679.0	14339.4	13863.8	13282.6	12620.8
7.5°	15053.9	14993.5	15142.0	15267.8	15373.5	15340.8	15091.7	14593.5	13843.7	12882.5
10°	13451.2	13383.2	13592.1	14027.4	14666.5	15222.5	15524.4	15215.0	14417.4	13169.4
12.5°	12037.1	12004.4	12142.8	12495.0	13204.6	14271.4	15469.1	15758.4	15013.7	13509.0
15°	11433.2	11393.0	11481.0	11659.7	12112.6	13106.5	14965.9	16130.8	15599.9	13901.6
17.5°	11299.9	11254.6	11292.3	11385.4	11677.3	12434.7	14206.0	16314.5	16211.3	14339.4
20°	11546.5	11508.7	11513.8	11508.7	11712.5	12313.9	13677.6	16244.1	16744.8	14741.9
22.5°	12142.8	12079.9	12082.4	11949.0	12059.8	12525.2	13539.2	16055.3	17220.3	15094.2
25°	13114.0	13000.8	13023.4	12683.8	12653.6	12998.3	13755.6	15909.4	17693.3	15376.0
27.5°	14442.5	14314.2	14246.3	13740.5	13499.0	13670.1	14195.9	15959.7	18141.2	15620.1
30°	16103.2	15947.2	15808.8	15091.7	14653.9	14591.0	14880.3	16291.9	18669.6	15876.7
32.5°	18138.7	17957.5	17705.9	16754.8	16138.4	15808.8	15766.0	16883.2	19288.6	16203.8
35°	20561.7	20325.2	19967.9	18737.5	17957.5	17283.2	16933.5	17736.1	20136.5	16697.0
37.5°	23057.7	22791.0	22463.9	20999.5	20040.9	19047.0	18357.6	18893.5	21266.2	17366.2
40°	25360.0	25060.5	24756.1	23452.7	22423.6	21226.0	20101.3	20357.9	22647.6	18166.4
42.5°	26718.7	26497.2	26381.5	25677.0	24881.9	23666.6	22270.2	22094.0	24200.0	19087.3
45°	26658.3	26567.7	26925.0	27216.8	27028.1	26353.8	24811.4	24013.8	25757.5	19884.9
47.5°	25234.1	25294.5	26092.1	27732.7	28454.8	28807.0	27705.0	25898.4	27111.2	20481.2
50°	21359.3	21409.6	23256.5	26794.1	28822.1	30807.3	30575.9	27737.7	28160.4	20846.0
52.5°	18292.2	18324.9	19117.5	24011.3	27609.4	31813.8	33162.4	29471.3	28927.8	20946.7
55°	13778.3	13891.5	14779.7	18838.2	24454.1	31016.2	34737.5	31257.7	29413.4	20956.7
57.5°	8049.1	8172.4	9269.4	12786.9	19006.8	28235.9	34976.6	32842.9	29743.0	20876.2
60°	3942.8	3995.6	4473.7	6720.6	11720.1	22879.1	33054.2	33610.3	29926.7	20833.5
62.5°	2657.0	2649.5	2669.6	3316.2	5774.5	14699.2	29048.6	32266.7	29828.6	20669.9
65°	2284.6	2257.0	2181.5	2327.4	2991.7	6723.1	22443.8	28256.0	29081.3	20259.8
67.5°	1975.2	1977.7	1980.2	1934.9	2136.2	3102.4	13715.4	22257.6	26399.1	18317.3
70°	1635.5	1658.1	1668.2	1668.2	1741.2	2035.5	5855.0	15255.2	20823.4	14362.0
72.5°	1489.5	1441.7	1446.8	1421.6	1421.6	1549.9	2357.6	8647.9	13119.0	8079.3
75°	1215.3	1245.5	1250.5	1232.9	1175.0	1182.6	1399.0	3628.2	5613.5	3351.5
77.5°	1049.2	1049.2	1059.3	1046.7	1001.4	885.7	933.5	1406.5	1909.7	1373.8
80°	842.9	840.4	883.2	908.3	837.9	654.2	596.3	777.5	847.9	603.9
82.5°	410.1	435.3	606.4	691.9	636.6	473.0	364.8	483.1	452.9	266.7
85°	239.0	226.5	271.7	385.0	364.8	261.7	176.1	251.6	236.5	135.9
87.5°	75.5	70.5	55.4	130.8	105.7	73.0	47.8	73.0	65.4	30.2
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°
12195.6	0°	12195.6	12195.6	12195.6	12195.6	12195.6	12195.6	12195.6	12195.6	12195.6	12195.6
12235.9	2.5°	12057.2	11760.3	11465.9	11196.7	11033.2	10927.5	10821.8	10703.6	10658.3	10590.3
12268.6	5°	11936.5	11362.8	10852.0	10411.7	10011.6	9697.1	9380.1	9123.4	9007.7	9085.7
12371.8	7.5°	11866.0	11035.7	10248.1	9440.5	8663.0	8041.5	7500.5	7120.6	6949.5	6992.3
12472.4	10°	11803.1	10665.8	9465.6	8190.0	7072.8	6302.9	5749.3	5460.0	5351.8	5374.4
12608.3	12.5°	11745.2	10250.7	8522.1	6843.8	5656.2	5148.0	4989.5	4992.0	5012.1	5027.2
12824.7	15°	11735.2	9750.0	7467.8	5666.3	4891.3	4858.6	5029.7	5137.9	5195.8	5213.4
13005.8	17.5°	11720.1	9151.1	6393.5	4863.7	4705.1	4926.6	5085.1	5155.5	5200.8	5203.3
13181.9	20°	11659.7	8391.3	5402.1	4481.2	4664.9	4856.1	4954.2	5009.6	5047.3	5059.9
13315.3	22.5°	11473.5	7545.8	4629.7	4310.1	4503.9	4657.3	4773.1	4836.0	4858.6	4873.7
13340.5	25°	11138.9	6599.8	4096.2	4146.6	4279.9	4473.7	4566.8	4579.3	4571.8	4594.4
13277.6	27.5°	10701.0	5585.8	3764.1	3925.1	4096.2	4262.3	4312.6	4305.1	4290.0	4315.1
13169.4	30°	10172.7	4674.9	3552.8	3676.0	3910.0	4061.0	4106.3	4088.7	4058.5	4086.2
13114.0	32.5°	9614.1	3930.2	3379.1	3502.4	3756.6	3905.0	3950.3	3932.7	3910.0	3932.7
13176.9	35°	9093.2	3409.3	3218.1	3386.7	3635.8	3781.7	3839.6	3842.1	3842.1	3869.8
13343.0	37.5°	8615.2	3104.9	3084.8	3313.7	3552.8	3683.6	3766.6	3771.7	3663.5	3671.0
13624.8	40°	8172.4	2976.6	3024.4	3265.9	3472.2	3598.0	3603.1	3321.3	3122.5	3117.5
13946.8	42.5°	7810.0	2951.4	3042.0	3260.9	3414.4	3419.4	3064.6	2845.7	2790.4	2792.9
14243.7	45°	7470.4	2943.9	3082.2	3260.9	3328.8	2953.9	2714.9	2657.0	2662.1	2682.2
14377.1	47.5°	7090.4	2913.7	3089.8	3215.6	3082.2	2626.8	2556.4	2531.2	2521.2	2526.2
14346.9	50°	6675.3	2805.5	2994.2	3125.0	2659.5	2485.9	2397.9	2390.3	2402.9	2410.4
14178.3	52.5°	6237.5	2629.3	2830.6	2961.5	2465.8	2362.6	2264.5	2282.1	2337.5	2355.1
14002.2	55°	5950.6	2423.0	2614.2	2634.4	2329.9	2246.9	2163.9	2204.1	2307.3	2340.0
13896.5	57.5°	5875.1	2204.1	2367.7	2345.0	2156.3	2146.2	2095.9	2131.2	2262.0	2309.8
13891.5	60°	5852.5	2007.9	2126.1	2108.5	1987.7	2035.5	2023.0	2040.6	2085.9	2101.0
13841.2	62.5°	5676.4	1851.9	1909.7	1884.6	1836.8	1919.8	1950.0	1912.2	1947.5	1965.1
13496.5	65°	5228.5	1726.1	1698.4	1680.8	1700.9	1776.4	1836.8	1761.3	1794.0	1844.3
12167.9	67.5°	4488.8	1555.0	1479.5	1499.6	1562.5	1602.8	1680.8	1595.2	1622.9	1708.4
9800.3	70°	3630.8	1338.6	1270.6	1328.5	1388.9	1471.9	1484.5	1426.6	1492.1	1587.7
5980.8	72.5°	2569.0	1119.7	1071.9	1190.1	1210.3	1318.4	1290.8	1263.1	1353.7	1386.4
2956.4	75°	1781.4	903.3	875.6	966.2	1039.2	1132.3	1112.1	1144.8	1336.1	1351.2
1477.0	77.5°	1127.2	702.0	684.4	742.3	842.9	946.1	978.8	1351.2	2282.1	2372.7
767.4	80°	654.2	523.4	503.2	548.5	636.6	732.2	943.5	1658.1	1504.6	1487.0
344.7	82.5°	364.8	359.8	334.6	347.2	425.2	528.4	1333.5	1167.5	948.6	978.8
138.4	85°	171.1	211.4	181.2	173.6	239.0	619.0	890.7	666.8	442.8	432.8
30.2	87.5°	45.3	40.3	40.3	45.3	100.6	533.4	354.8	284.3	168.6	163.5
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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