

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: P950272

Luminaire Tested: **GALN-SB4D-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950272
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-SB4D-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43882 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

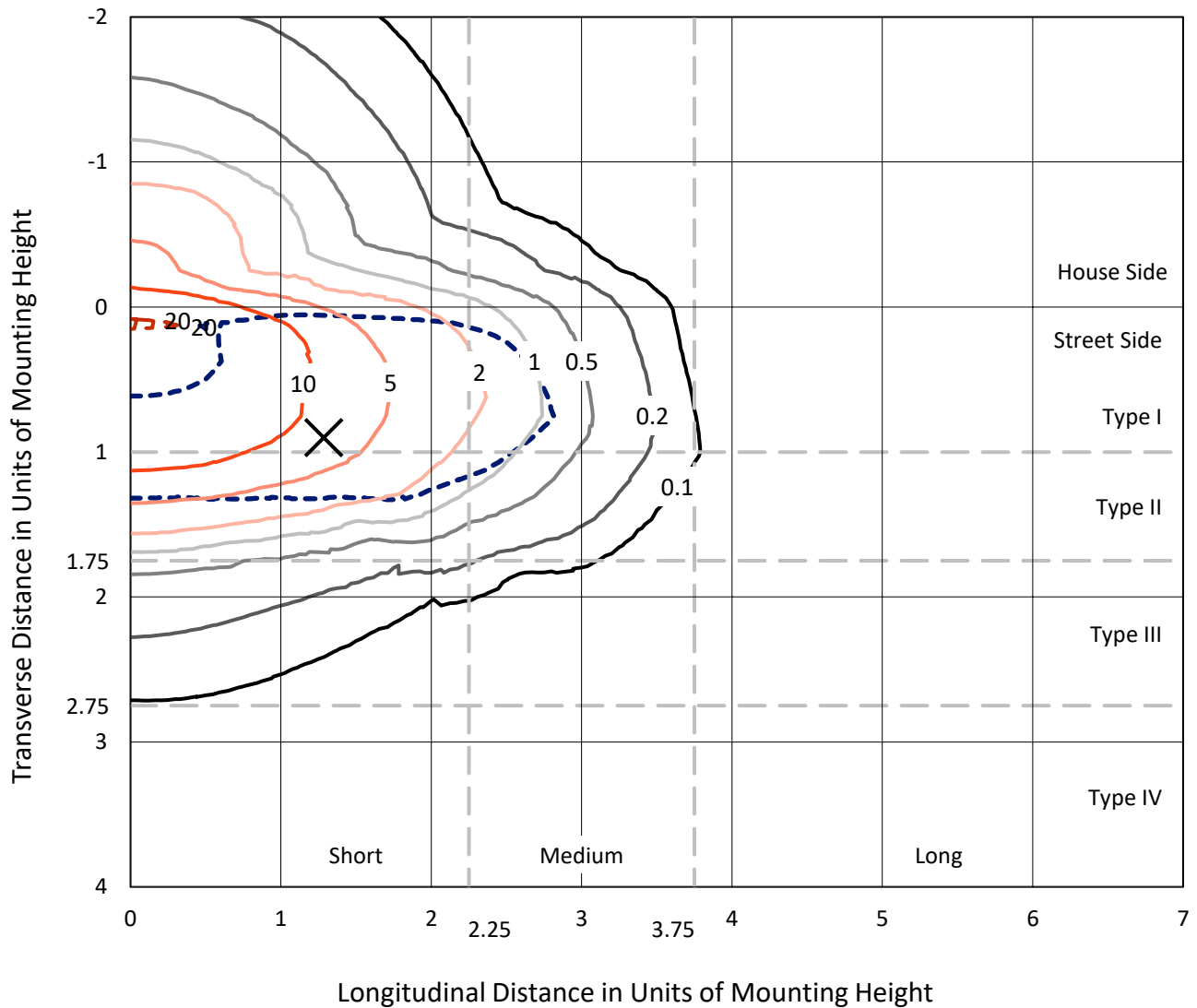
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

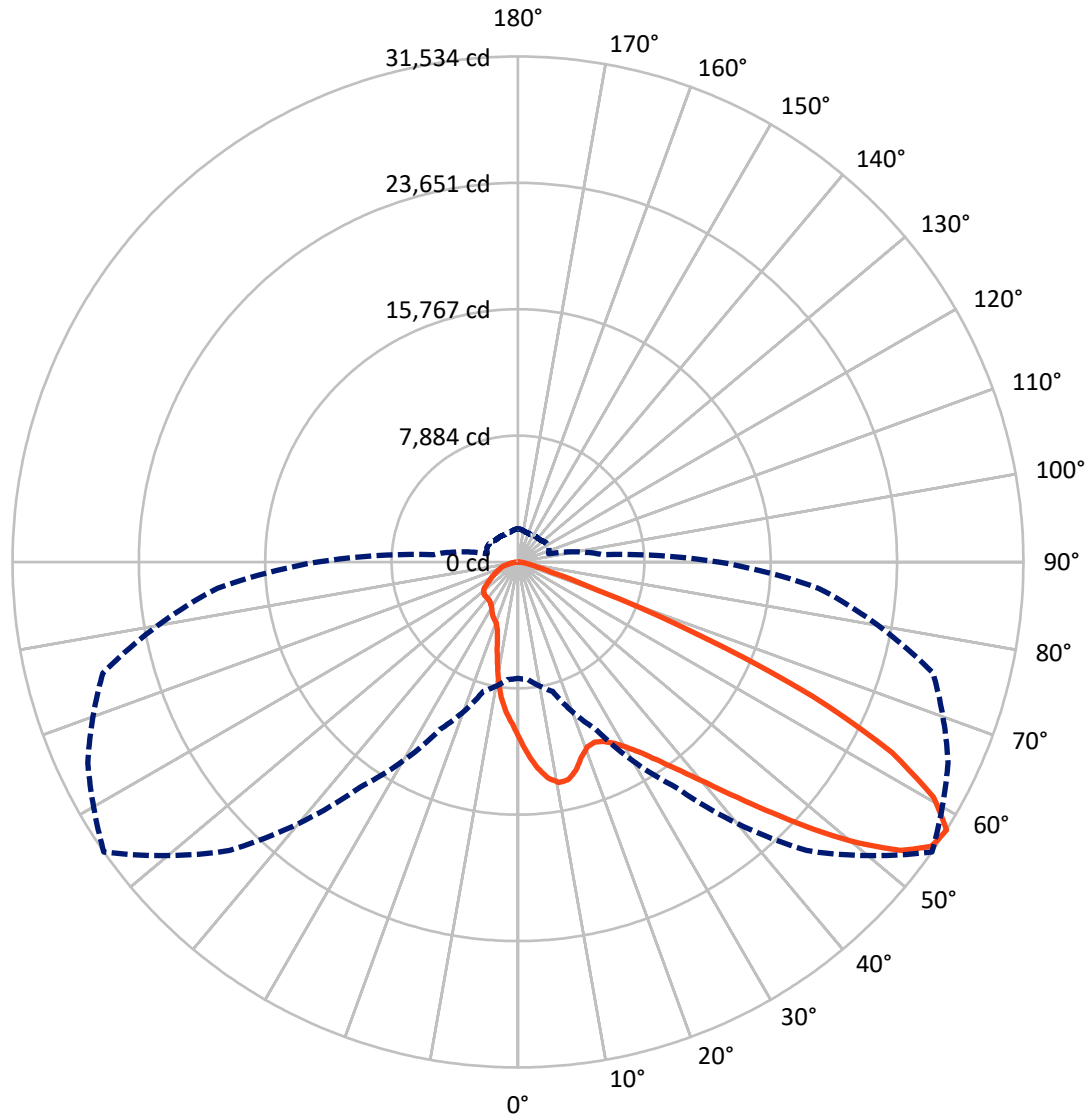
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 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	7940.2	0.0	7940.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	35941.8	0.0	35941.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	43882.0	0.0	43882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1020.3	2.3
10°-20°	2575.3	5.9
20°-30°	4109.5	9.4
30°-40°	6506.3	14.8
40°-50°	9958.5	22.7
50°-60°	10666.5	24.3
60°-70°	6710.4	15.3
70°-80°	1984.4	4.5
80°-90°	350.9	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°	43882.0	100.0
0°-180°	43882.0	100.0

Coefficient of Utilization



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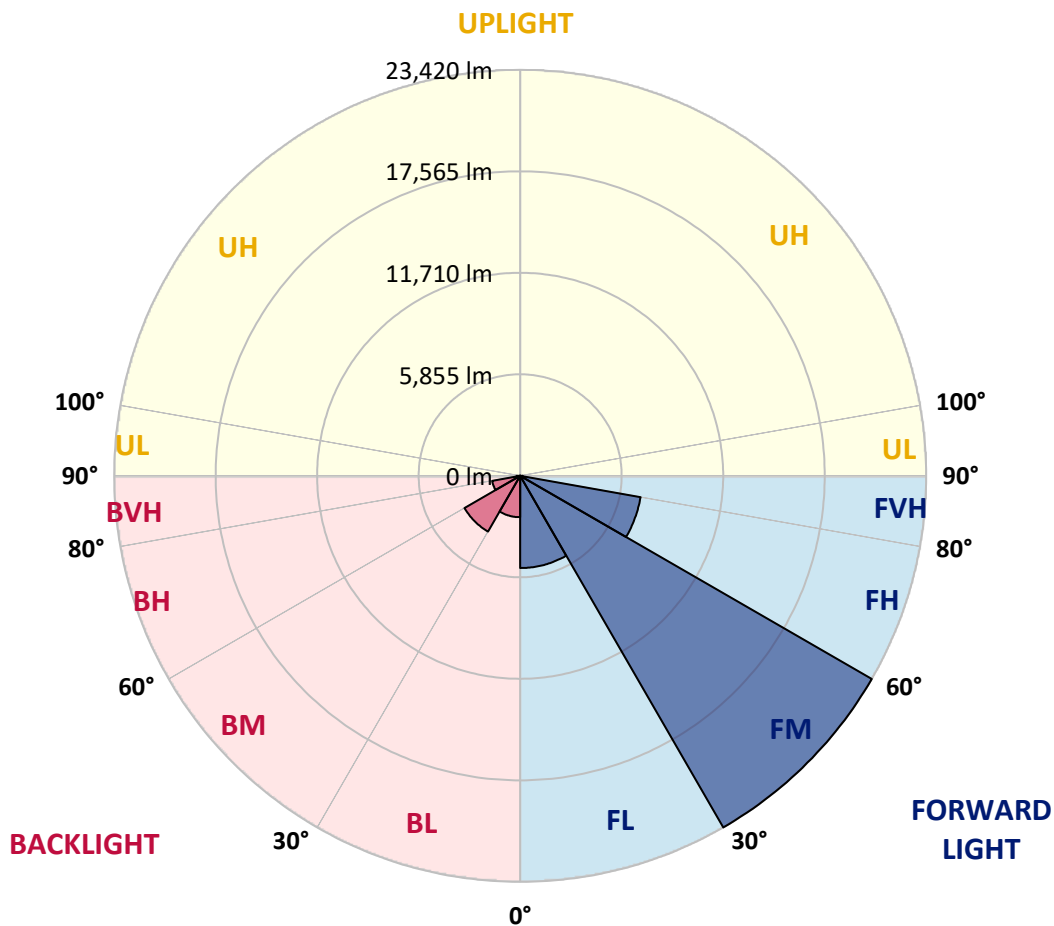
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5318.5	12.1			
FM (30°-60°)	23420.1	53.4			
FH (60°-80°)	7054.9	16.1			G3/7500
FVH (80°-90°)	148.2	0.3			G2/225
BL (0°-30°)	2386.6	5.4	B3/2500		
BM (30°-60°)	3711.2	8.5	B3/5000		
BH (60°-80°)	1639.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	202.6	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°	10995.4	10995.4	10995.4	10995.4	10995.4	10995.4	10995.4	10995.4	10995.4	10995.4
2.5°	12615.1	12606.0	12655.9	12485.8	12370.1	12213.6	12007.2	11744.0	11460.4	11161.0
5°	13751.6	13672.2	13724.4	13597.4	13470.3	13234.4	12928.2	12499.4	11975.4	11378.8
7.5°	13572.4	13518.0	13651.8	13765.2	13860.5	13831.0	13606.4	13157.3	12481.3	11614.7
10°	12127.4	12066.1	12254.4	12646.9	13223.1	13724.4	13996.6	13717.6	12998.5	11873.3
12.5°	10852.5	10823.0	10947.8	11265.4	11905.1	12866.9	13946.7	14207.6	13536.1	12179.6
15°	10308.1	10271.8	10351.2	10512.2	10920.5	11816.6	13493.0	14543.3	14064.7	12533.4
17.5°	10187.8	10147.0	10181.0	10264.9	10528.1	11210.9	12807.9	14708.9	14615.9	12928.2
20°	10410.1	10376.1	10380.6	10376.1	10559.9	11102.0	12331.5	14645.4	15096.8	13291.1
22.5°	10947.8	10891.1	10893.3	10773.1	10872.9	11292.6	12206.8	14475.3	15525.6	13608.7
25°	11823.4	11721.3	11741.7	11435.5	11408.3	11719.1	12401.9	14343.7	15952.1	13862.8
27.5°	13021.2	12905.5	12844.2	12388.3	12170.5	12324.7	12798.9	14389.1	16355.9	14082.8
30°	14518.4	14377.7	14253.0	13606.4	13211.7	13155.0	13415.9	14688.5	16832.2	14314.2
32.5°	16353.6	16190.3	15963.4	15105.9	14550.1	14253.0	14214.4	15221.6	17390.3	14609.1
35°	18538.2	18324.9	18002.8	16893.5	16190.3	15582.3	15267.0	15990.6	18154.8	15053.7
37.5°	20788.5	20548.0	20253.1	18932.9	18068.6	17172.5	16551.0	17034.1	19173.3	15657.2
40°	22864.2	22594.2	22319.7	21144.7	20216.8	19137.0	18123.0	18354.4	20418.7	16378.5
42.5°	24089.2	23889.5	23785.2	23150.0	22433.2	21337.5	20078.5	19919.7	21818.4	17208.8
45°	24034.7	23953.1	24275.2	24538.3	24368.2	23760.2	22369.6	21650.5	23222.6	17927.9
47.5°	22750.8	22805.2	23524.3	25003.4	25654.4	25972.0	24978.4	23349.6	24443.1	18465.6
50°	19257.3	19302.6	20967.7	24157.2	25985.6	27775.5	27566.8	25007.9	25389.0	18794.5
52.5°	16492.0	16521.5	17236.0	21648.3	24892.2	28682.9	29898.8	26570.9	26080.9	18885.2
55°	12422.3	12524.4	13325.2	16984.2	22047.5	27963.8	31318.9	28181.5	26518.7	18894.3
57.5°	7256.9	7368.1	8357.1	11528.5	17136.2	25457.1	31534.4	29610.7	26815.9	18821.7
60°	3554.7	3602.4	4033.4	6059.2	10566.7	20627.4	29801.2	30302.6	26981.5	18783.2
62.5°	2395.5	2388.7	2406.9	2989.9	5206.2	13252.6	26189.8	29091.2	26893.0	18635.7
65°	2059.8	2034.8	1966.8	2098.4	2697.2	6061.4	20235.0	25475.2	26219.3	18265.9
67.5°	1780.8	1783.0	1785.3	1744.5	1926.0	2797.1	12365.6	20067.1	23801.1	16514.7
70°	1474.5	1494.9	1504.0	1504.0	1569.8	1835.2	5278.8	13753.9	18774.1	12948.6
72.5°	1343.0	1299.8	1304.4	1281.7	1281.7	1397.4	2125.6	7796.8	11827.9	7284.1
75°	1095.7	1122.9	1127.4	1111.6	1059.4	1066.2	1261.3	3271.2	5061.0	3021.6
77.5°	946.0	946.0	955.0	943.7	902.9	798.5	841.6	1268.1	1721.8	1238.6
80°	759.9	757.7	796.2	818.9	755.4	589.8	537.6	701.0	764.5	544.4
82.5°	369.8	392.4	546.7	623.8	573.9	426.5	328.9	435.6	408.3	240.5
85°	215.5	204.2	245.0	347.1	328.9	235.9	158.8	226.8	213.2	122.5
87.5°	68.1	63.5	49.9	118.0	95.3	65.8	43.1	65.8	59.0	27.2
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°
10995.4	0°	10995.4	10995.4	10995.4	10995.4	10995.4	10995.4	10995.4	10995.4	10995.4	10995.4
11031.7	2.5°	10870.6	10603.0	10337.5	10094.8	9947.4	9852.1	9756.8	9650.2	9609.4	9548.1
11061.2	5°	10761.7	10244.5	9784.0	9387.0	9026.3	8742.8	8457.0	8225.6	8121.2	8191.5
11154.2	7.5°	10698.2	9949.6	9239.6	8511.4	7810.4	7250.1	6762.4	6419.8	6265.6	6304.2
11244.9	10°	10641.5	9616.2	8534.1	7384.0	6376.7	5682.6	5183.5	4922.6	4825.1	4845.5
11367.4	12.5°	10589.3	9241.9	7683.4	6170.3	5099.6	4641.3	4498.4	4500.7	4518.8	4532.5
11562.5	15°	10580.3	8790.4	6732.9	5108.7	4410.0	4380.5	4534.7	4632.3	4684.4	4700.3
11725.9	17.5°	10566.7	8250.5	5764.3	4385.0	4242.1	4441.7	4584.6	4648.2	4689.0	4691.3
11884.7	20°	10512.2	7565.4	4870.5	4040.2	4205.8	4378.2	4466.7	4516.6	4550.6	4561.9
12004.9	22.5°	10344.3	6803.2	4174.0	3885.9	4060.6	4199.0	4303.3	4360.1	4380.5	4394.1
12027.6	25°	10042.6	5950.3	3693.1	3738.5	3858.7	4033.4	4117.3	4128.7	4121.9	4142.3
11970.9	27.5°	9647.9	5036.1	3393.7	3538.9	3693.1	3842.8	3888.2	3881.4	3867.8	3890.5
11873.3	30°	9171.5	4214.9	3203.1	3314.3	3525.2	3661.4	3702.2	3686.3	3659.1	3684.0
11823.4	32.5°	8667.9	3543.4	3046.6	3157.7	3386.9	3520.7	3561.5	3545.7	3525.2	3545.7
11880.1	35°	8198.3	3073.8	2901.4	3053.4	3278.0	3409.6	3461.7	3464.0	3464.0	3488.9
12029.8	37.5°	7767.3	2799.3	2781.2	2987.6	3203.1	3321.1	3395.9	3400.5	3302.9	3309.7
12283.9	40°	7368.1	2683.6	2726.7	2944.5	3130.5	3244.0	3248.5	2994.4	2815.2	2810.7
12574.3	42.5°	7041.4	2660.9	2742.6	2940.0	3078.4	3082.9	2763.0	2565.7	2515.8	2518.0
12842.0	45°	6735.2	2654.1	2778.9	2940.0	3001.2	2663.2	2447.7	2395.5	2400.1	2418.2
12962.2	47.5°	6392.6	2626.9	2785.7	2899.1	2778.9	2368.3	2304.8	2282.1	2273.0	2277.6
12935.0	50°	6018.3	2529.4	2699.5	2817.5	2397.8	2241.3	2161.9	2155.1	2166.4	2173.2
12783.0	52.5°	5623.6	2370.6	2552.1	2670.0	2223.1	2130.1	2041.6	2057.5	2107.4	2123.3
12624.2	55°	5365.0	2184.6	2357.0	2375.1	2100.6	2025.8	1950.9	1987.2	2080.2	2109.7
12528.9	57.5°	5296.9	1987.2	2134.7	2114.2	1944.1	1935.0	1889.7	1921.4	2039.4	2082.5
12524.4	60°	5276.5	1810.3	1916.9	1901.0	1792.1	1835.2	1823.9	1839.8	1880.6	1894.2
12479.0	62.5°	5117.7	1669.6	1721.8	1699.1	1656.0	1730.9	1758.1	1724.1	1755.8	1771.7
12168.2	65°	4713.9	1556.2	1531.2	1515.4	1533.5	1601.6	1656.0	1587.9	1617.4	1662.8
10970.5	67.5°	4047.0	1401.9	1333.9	1352.0	1408.7	1445.0	1515.4	1438.2	1463.2	1540.3
8835.8	70°	3273.4	1206.8	1145.6	1197.8	1252.2	1327.1	1338.4	1286.2	1345.2	1431.4
5392.2	72.5°	2316.1	1009.5	966.4	1073.0	1091.1	1188.7	1163.7	1138.8	1220.5	1249.9
2665.5	75°	1606.1	814.4	789.4	871.1	936.9	1020.8	1002.7	1032.2	1204.6	1218.2
1331.6	77.5°	1016.3	632.9	617.0	669.2	759.9	853.0	882.4	1218.2	2057.5	2139.2
691.9	80°	589.8	471.8	453.7	494.5	573.9	660.1	850.7	1494.9	1356.6	1340.7
310.8	82.5°	328.9	324.4	301.7	313.1	383.4	476.4	1202.3	1052.6	855.2	882.4
124.8	85°	154.3	190.6	163.3	156.5	215.5	558.1	803.0	601.2	399.3	390.2
27.2	87.5°	40.8	36.3	36.3	40.8	90.7	480.9	319.9	256.3	152.0	147.5
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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