

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: P953989

Luminaire Tested: **GALN-SB7B-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953989
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-SB7B-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38957 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

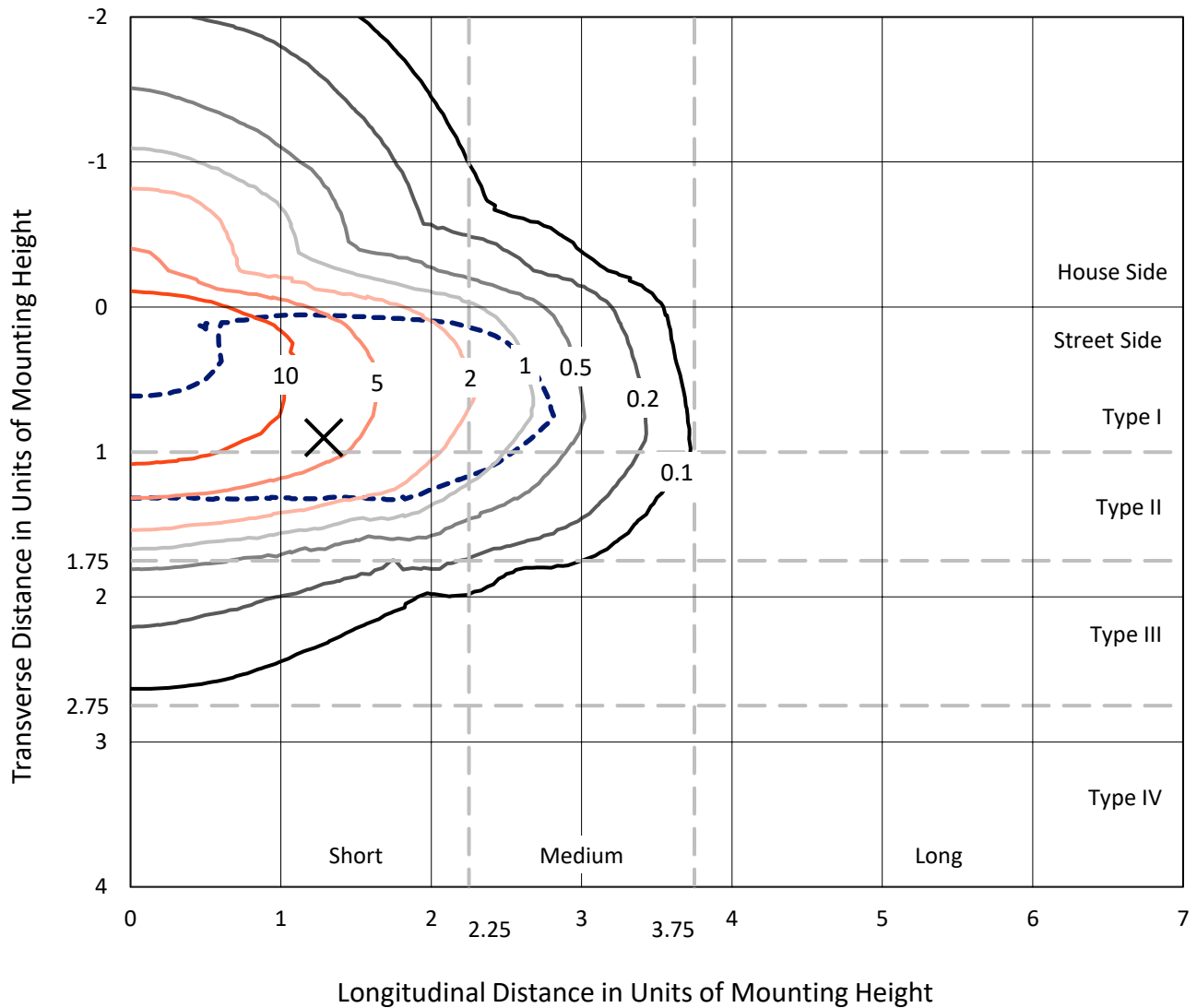
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

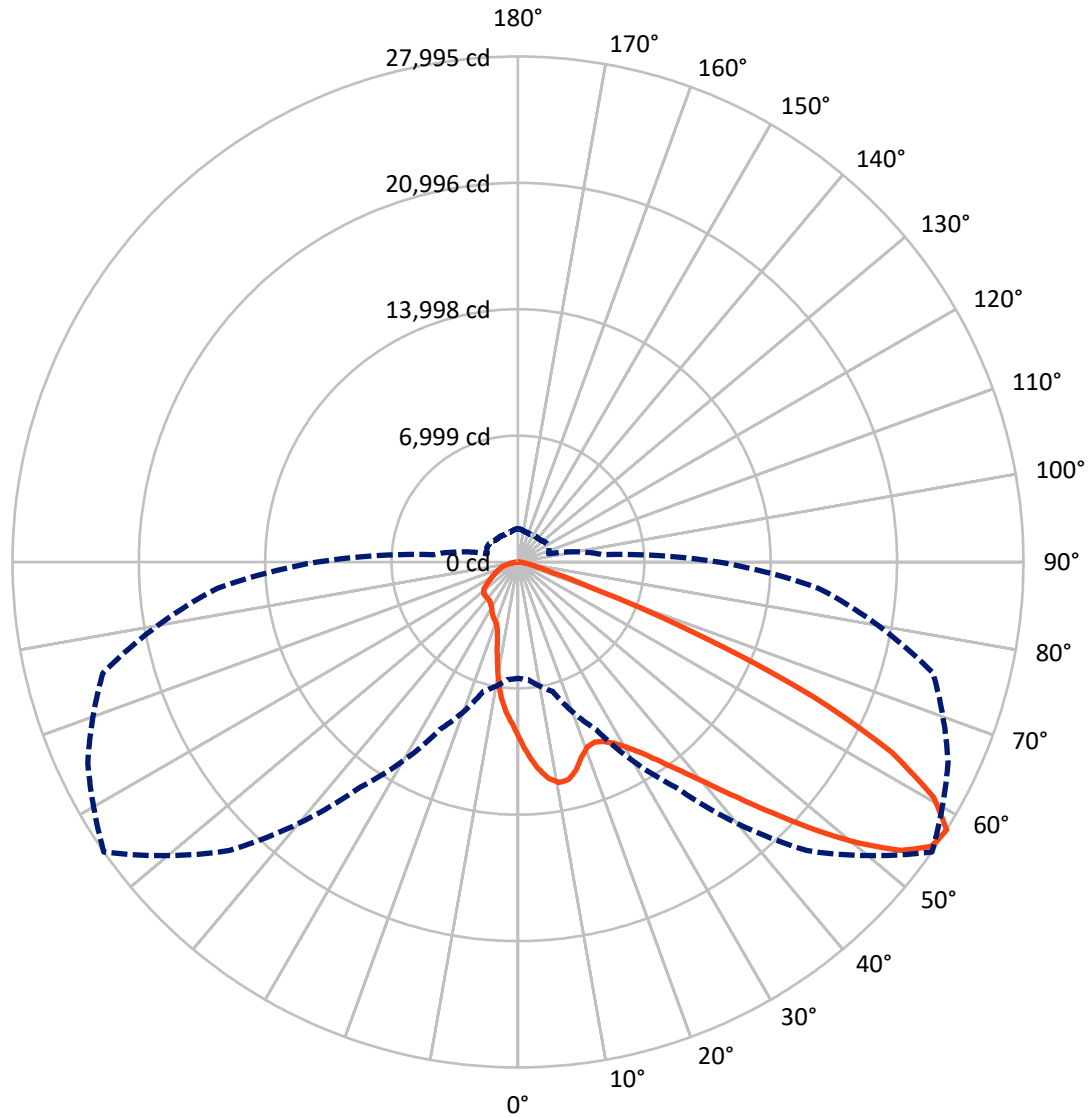
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 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	7049.1	0.0	7049.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	31907.9	0.0	31907.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	38957.0	0.0	38957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.8	2.3
10°-20°	2286.3	5.9
20°-30°	3648.2	9.4
30°-40°	5776.1	14.8
40°-50°	8840.9	22.7
50°-60°	9469.4	24.3
60°-70°	5957.2	15.3
70°-80°	1761.7	4.5
80°-90°	311.5	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°	38957.0	100.0
0°-180°	38957.0	100.0

Coefficient of Utilization



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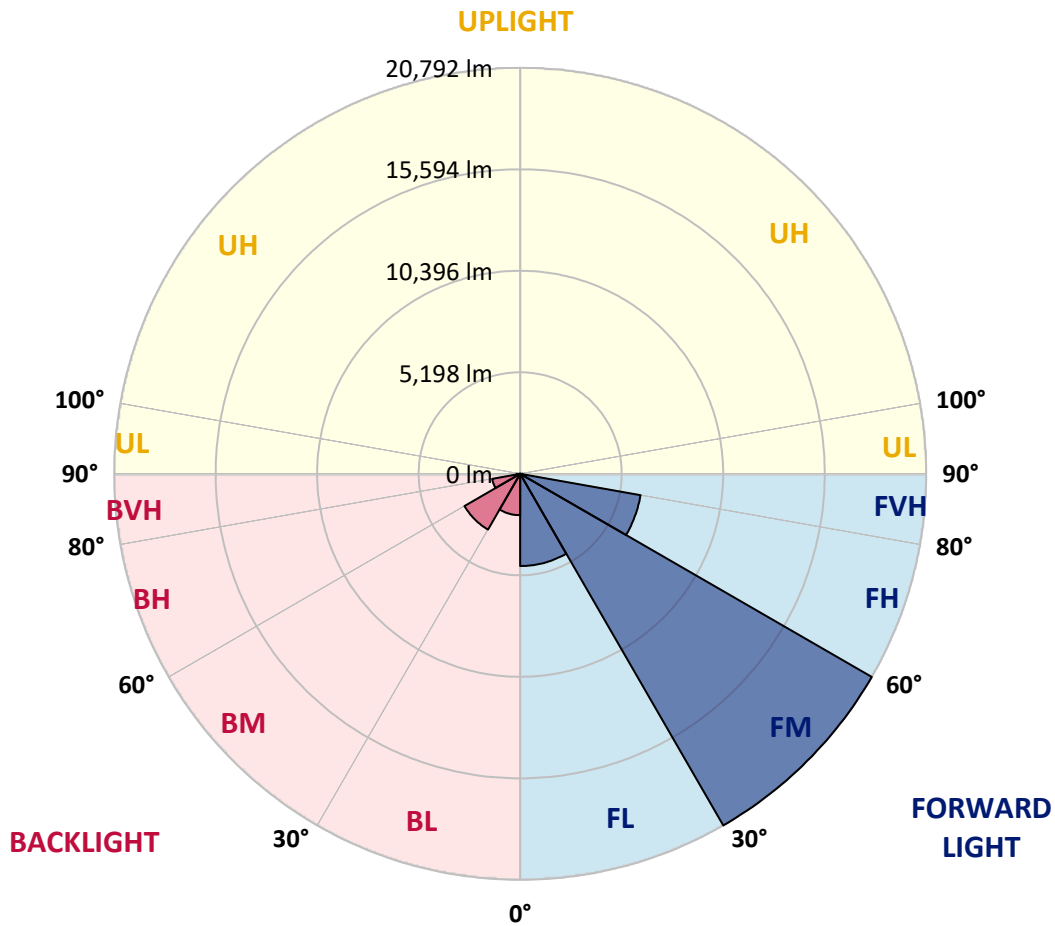
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4721.6	12.1			
FM (30°-60°)	20791.6	53.4			
FH (60°-80°)	6263.1	16.1			G3/7500
FVH (80°-90°)	131.6	0.3			G2/225
BL (0°-30°)	2118.7	5.4	B3/2500		
BM (30°-60°)	3294.7	8.5	B3/5000		
BH (60°-80°)	1455.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	179.9	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°	9761.4	9761.4	9761.4	9761.4	9761.4	9761.4	9761.4	9761.4	9761.4	9761.4
2.5°	11199.3	11191.2	11235.5	11084.5	10981.8	10842.8	10659.6	10425.9	10174.2	9908.4
5°	12208.2	12137.8	12184.1	12071.3	11958.5	11749.1	11477.2	11096.6	10631.4	10101.7
7.5°	12049.1	12000.8	12119.6	12220.3	12304.9	12278.7	12079.4	11680.6	11080.5	10311.2
10°	10766.3	10711.9	10879.1	11227.5	11739.0	12184.1	12425.7	12178.0	11539.6	10540.7
12.5°	9634.5	9608.3	9719.1	10001.0	10568.9	11422.8	12381.4	12613.0	12016.9	10812.6
15°	9151.1	9118.9	9189.4	9332.4	9694.9	10490.4	11978.7	12911.1	12486.2	11126.8
17.5°	9044.4	9008.2	9038.4	9112.9	9346.5	9952.7	11370.5	13058.1	12975.5	11477.2
20°	9241.8	9211.6	9215.6	9211.6	9374.7	9856.0	10947.5	13001.7	13402.5	11799.4
22.5°	9719.1	9668.7	9670.7	9564.0	9652.6	10025.2	10836.8	12850.7	13783.1	12081.4
25°	10496.4	10405.8	10423.9	10152.1	10127.9	10403.8	11010.0	12733.9	14161.7	12306.9
27.5°	11559.8	11457.1	11402.7	10997.9	10804.6	10941.5	11362.4	12774.1	14520.2	12502.3
30°	12888.9	12764.1	12653.3	12079.4	11728.9	11678.6	11910.2	13040.0	14943.1	12707.7
32.5°	14518.2	14373.2	14171.8	13410.5	12917.1	12653.3	12619.1	13513.3	15438.5	12969.5
35°	16457.6	16268.3	15982.3	14997.5	14373.2	13833.5	13553.5	14196.0	16117.2	13364.2
37.5°	18455.4	18241.9	17980.1	16808.0	16040.7	15245.2	14693.4	15122.4	17021.5	13899.9
40°	20298.1	20058.4	19814.7	18771.5	17947.9	16989.2	16089.0	16294.4	18127.1	14540.3
42.5°	21385.6	21208.4	21115.7	20551.8	19915.4	18942.7	17825.0	17684.0	19369.7	15277.4
45°	21337.2	21264.7	21550.7	21784.3	21633.3	21093.6	19859.0	19220.6	20616.3	15915.8
47.5°	20197.4	20245.7	20884.1	22197.2	22775.2	23057.1	22175.0	20729.0	21699.7	16393.1
50°	17096.0	17136.3	18614.5	21446.0	23069.2	24658.2	24472.9	22201.2	22539.5	16685.1
52.5°	14641.0	14667.2	15301.6	19218.6	22098.5	25463.7	26543.2	23588.8	23153.8	16765.7
55°	11028.1	11118.7	11829.6	15078.0	19573.1	24825.3	27803.9	25018.6	23542.5	16773.7
57.5°	6442.5	6541.1	7419.2	10234.6	15213.0	22600.0	27995.2	26287.4	23806.3	16709.3
60°	3155.8	3198.1	3580.7	5379.1	9380.7	18312.4	26456.6	26901.6	23953.3	16675.1
62.5°	2126.7	2120.6	2136.7	2654.3	4621.9	11765.2	23250.4	25826.2	23874.8	16544.2
65°	1828.6	1806.5	1746.0	1862.9	2394.5	5381.1	17964.0	22616.1	23276.6	16215.9
67.5°	1580.9	1582.9	1584.9	1548.7	1709.8	2483.1	10977.8	17814.9	21129.8	14661.2
70°	1309.0	1327.2	1335.2	1335.2	1393.6	1629.2	4686.3	12210.3	16667.0	11495.3
72.5°	1192.2	1154.0	1158.0	1137.9	1137.9	1240.6	1887.0	6921.8	10500.5	6466.6
75°	972.7	996.9	1000.9	986.8	940.5	946.5	1119.7	2904.0	4493.0	2682.5
77.5°	839.8	839.8	847.9	837.8	801.5	708.9	747.2	1125.8	1528.5	1099.6
80°	674.7	672.6	706.9	727.0	670.6	523.6	477.3	622.3	678.7	483.3
82.5°	328.3	348.4	485.3	553.8	509.5	378.6	292.0	386.7	362.5	213.5
85°	191.3	181.3	217.5	308.1	292.0	209.4	141.0	201.4	189.3	108.8
87.5°	60.4	56.4	44.3	104.7	84.6	58.4	38.3	58.4	52.4	24.2
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°
9761.4	0°	9761.4	9761.4	9761.4	9761.4	9761.4	9761.4	9761.4	9761.4	9761.4	9761.4
9793.6	2.5°	9650.6	9413.0	9177.3	8961.8	8830.9	8746.4	8661.8	8567.1	8530.9	8476.5
9819.8	5°	9553.9	9094.8	8685.9	8333.5	8013.3	7761.6	7507.8	7302.4	7209.8	7272.2
9902.3	7.5°	9497.5	8833.0	8202.6	7556.1	6933.8	6436.4	6003.4	5699.3	5562.4	5596.6
9982.9	10°	9447.2	8536.9	7576.3	6555.2	5661.1	5044.8	4601.8	4370.2	4283.6	4301.7
10091.6	12.5°	9400.9	8204.6	6821.1	5477.8	4527.2	4120.4	3993.6	3995.6	4011.7	4023.8
10264.8	15°	9392.8	7803.9	5977.2	4535.3	3915.0	3888.8	4025.8	4112.4	4158.7	4172.8
10409.8	17.5°	9380.7	7324.5	5117.3	3892.9	3766.0	3943.2	4070.1	4126.5	4162.7	4164.7
10550.8	20°	9332.4	6716.3	4323.8	3586.8	3733.8	3886.8	3965.4	4009.7	4039.9	4049.9
10657.5	22.5°	9183.4	6039.7	3705.6	3449.8	3604.9	3727.7	3820.4	3870.7	3888.8	3900.9
10677.7	25°	8915.5	5282.5	3278.6	3318.9	3425.6	3580.7	3655.2	3665.3	3659.3	3677.4
10627.3	27.5°	8565.1	4470.9	3012.8	3141.7	3278.6	3411.5	3451.8	3445.8	3433.7	3453.8
10540.7	30°	8142.2	3741.8	2843.6	2942.3	3129.6	3250.4	3286.7	3272.6	3248.4	3270.6
10496.4	32.5°	7695.1	3145.7	2704.7	2803.3	3006.7	3125.6	3161.8	3147.7	3129.6	3147.7
10546.8	35°	7278.2	2728.8	2575.8	2710.7	2910.1	3026.9	3073.2	3075.2	3075.2	3097.4
10679.7	37.5°	6895.6	2485.1	2469.0	2652.3	2843.6	2948.3	3014.8	3018.8	2932.2	2938.3
10905.3	40°	6541.1	2382.4	2420.7	2614.0	2779.2	2879.9	2883.9	2658.3	2499.2	2495.2
11163.0	42.5°	6251.1	2362.3	2434.8	2610.0	2732.9	2736.9	2452.9	2277.7	2233.4	2235.4
11400.7	45°	5979.3	2356.3	2467.0	2610.0	2664.4	2364.3	2173.0	2126.7	2130.7	2146.8
11507.4	47.5°	5675.2	2332.1	2473.1	2573.8	2467.0	2102.5	2046.1	2026.0	2017.9	2022.0
11483.2	50°	5342.9	2245.5	2396.5	2501.3	2128.7	1989.7	1919.2	1913.2	1923.3	1929.3
11348.3	52.5°	4992.5	2104.5	2265.6	2370.4	1973.6	1891.0	1812.5	1826.6	1870.9	1885.0
11207.3	55°	4762.9	1939.4	2092.4	2108.6	1864.9	1798.4	1732.0	1764.2	1846.7	1872.9
11122.8	57.5°	4702.4	1764.2	1895.1	1877.0	1725.9	1717.9	1677.6	1705.8	1810.5	1848.8
11118.7	60°	4684.3	1607.1	1701.7	1687.6	1591.0	1629.2	1619.2	1633.3	1669.5	1681.6
11078.4	62.5°	4543.4	1482.2	1528.5	1508.4	1470.1	1536.6	1560.8	1530.6	1558.8	1572.9
10802.5	65°	4184.9	1381.5	1359.4	1345.3	1361.4	1421.8	1470.1	1409.7	1435.9	1476.2
9739.2	67.5°	3592.8	1244.6	1184.2	1200.3	1250.6	1282.9	1345.3	1276.8	1299.0	1367.4
7844.1	70°	2906.1	1071.4	1017.0	1063.3	1111.7	1178.1	1188.2	1141.9	1194.2	1270.8
4787.0	72.5°	2056.2	896.2	857.9	952.6	968.7	1055.3	1033.1	1011.0	1083.5	1109.7
2366.3	75°	1425.8	723.0	700.8	773.3	831.7	906.3	890.1	916.3	1069.4	1081.5
1182.2	77.5°	902.2	561.9	547.8	594.1	674.7	757.2	783.4	1081.5	1826.6	1899.1
614.2	80°	523.6	418.9	402.8	439.0	509.5	586.0	755.2	1327.2	1204.3	1190.2
275.9	82.5°	292.0	288.0	267.8	277.9	340.3	422.9	1067.4	934.4	759.2	783.4
110.8	85°	136.9	169.2	145.0	139.0	191.3	495.4	712.9	533.7	354.4	346.4
24.2	87.5°	36.3	32.2	32.2	36.3	80.6	426.9	284.0	227.6	134.9	130.9
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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