

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: P957286

Luminaire Tested: **GALN-SB9C-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957286
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-SB9C-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50272 lumens
Efficiency: N/A
Efficacy: 111.8 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

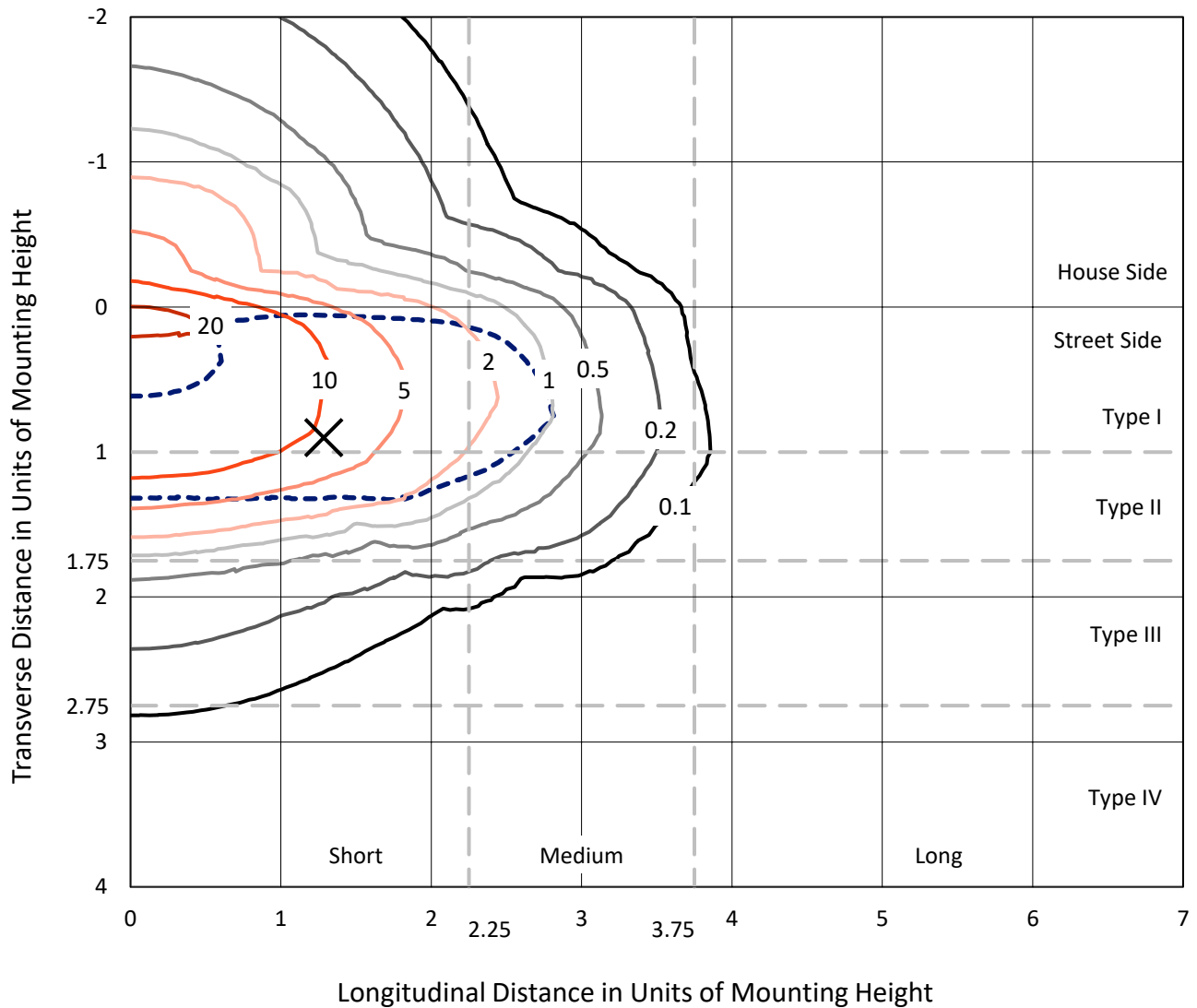
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

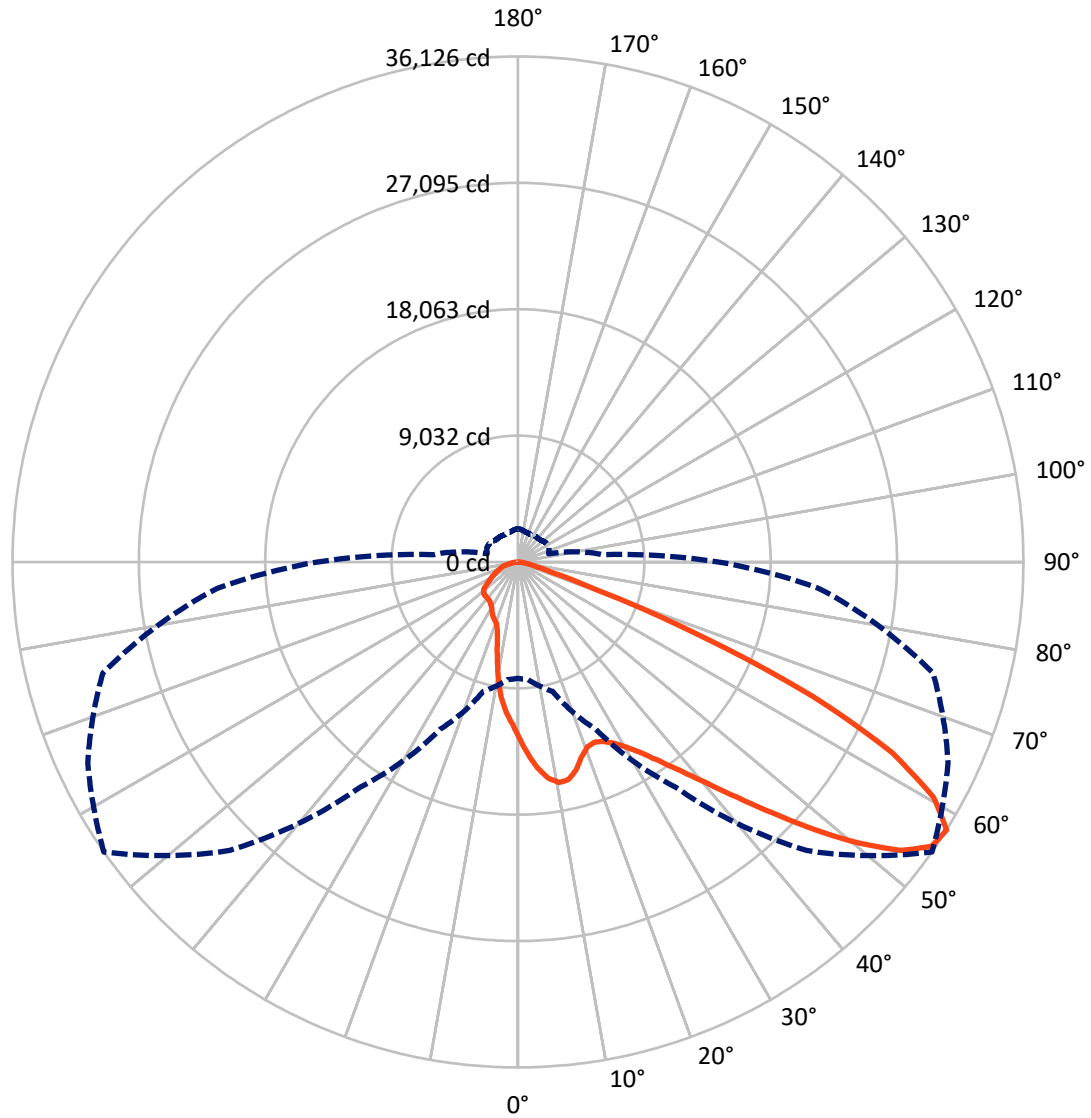
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 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	9096.5	0.0	9096.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	41175.5	0.0	41175.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	50272.0	0.0	50272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1168.9	2.3
10°-20°	2950.3	5.9
20°-30°	4707.9	9.4
30°-40°	7453.7	14.8
40°-50°	11408.7	22.7
50°-60°	12219.8	24.3
60°-70°	7687.5	15.3
70°-80°	2273.3	4.5
80°-90°	402.0	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°	50272.0	100.0
0°-180°	50272.0	100.0

Coefficient of Utilization

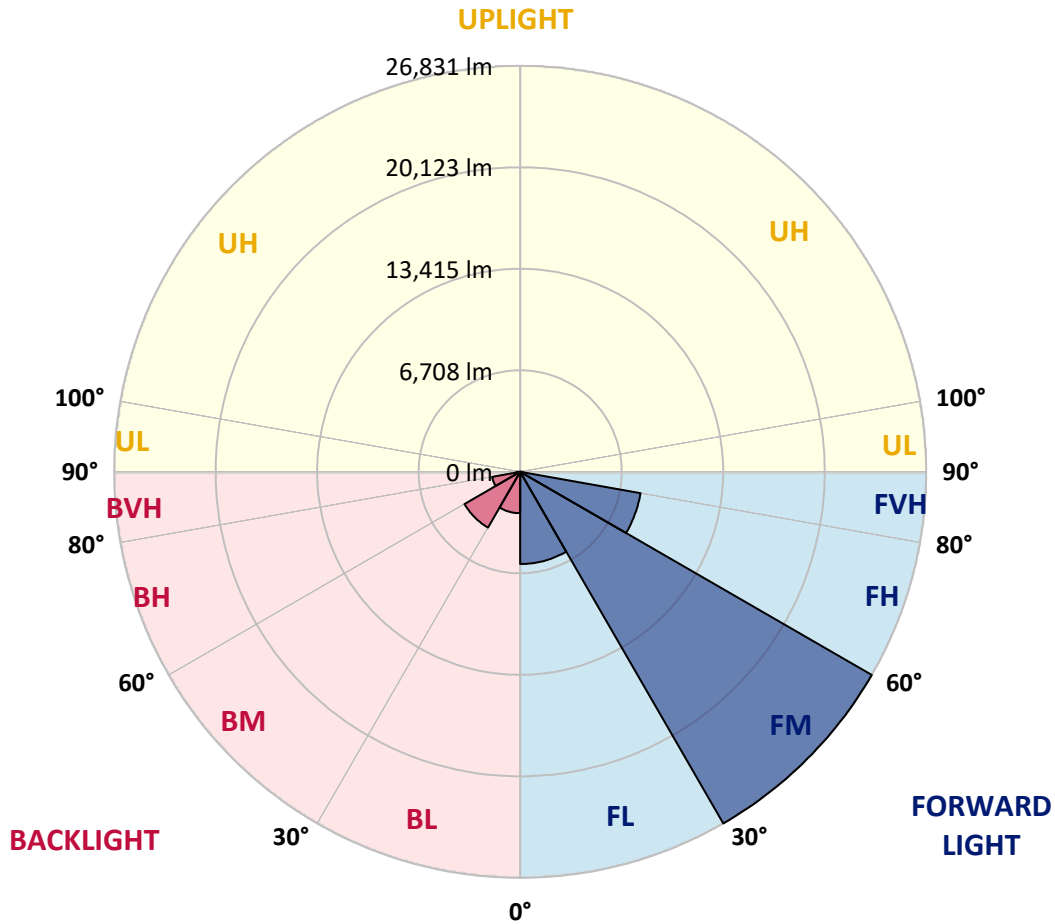


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6093.0	12.1			
FM (30°-60°)	26830.5	53.4			
FH (60°-80°)	8082.2	16.1			G4/12000
FVH (80°-90°)	169.8	0.3			G2/225
BL (0°-30°)	2734.1	5.4	B4/5000		
BM (30°-60°)	4251.6	8.5	B3/5000		
BH (60°-80°)	1878.6	3.7	B3/2500		G3/2500
BVH (80°-90°)	232.1	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°	12596.5	12596.5	12596.5	12596.5	12596.5	12596.5	12596.5	12596.5	12596.5	12596.5
2.5°	14452.1	14441.7	14498.9	14304.0	14171.4	13992.1	13755.6	13454.1	13129.3	12786.2
5°	15754.1	15663.2	15722.9	15577.4	15431.9	15161.6	14810.7	14319.6	13719.2	13035.7
7.5°	15548.8	15486.4	15639.8	15769.7	15878.9	15845.1	15587.8	15073.2	14298.8	13306.0
10°	13893.3	13823.2	14038.9	14488.5	15148.6	15722.9	16034.8	15715.1	14891.3	13602.3
12.5°	12432.8	12399.0	12542.0	12905.8	13638.7	14740.6	15977.6	16276.5	15507.2	13953.1
15°	11809.1	11767.5	11858.5	12043.0	12510.8	13537.3	15457.8	16661.1	16112.7	14358.5
17.5°	11671.3	11624.6	11663.6	11759.7	12061.2	12843.4	14673.0	16850.8	16744.3	14810.7
20°	11926.0	11887.1	11892.2	11887.1	12097.6	12718.7	14127.2	16778.0	17295.2	15226.5
22.5°	12542.0	12477.0	12479.6	12341.8	12456.2	12937.0	13984.3	16583.1	17786.4	15590.4
25°	13545.1	13428.2	13451.5	13100.7	13069.5	13425.6	14207.8	16432.4	18275.0	15881.5
27.5°	14917.3	14784.7	14714.6	14192.2	13942.7	14119.4	14662.6	16484.4	18737.6	16133.5
30°	16632.5	16471.4	16328.5	15587.8	15135.6	15070.6	15369.5	16827.4	19283.3	16398.6
32.5°	18735.0	18547.9	18288.0	17305.6	16668.9	16328.5	16284.3	17438.2	19922.6	16736.5
35°	21237.6	20993.4	20624.3	19353.5	18547.9	17851.4	17490.1	18319.2	20798.4	17245.8
37.5°	23815.7	23540.2	23202.4	21689.8	20699.7	19673.1	18961.1	19514.6	21965.3	17937.1
40°	26193.6	25884.4	25569.9	24223.7	23160.8	21923.7	20762.1	21027.1	23392.1	18763.6
42.5°	27597.0	27368.3	27248.7	26521.1	25699.8	24444.6	23002.2	22820.3	24995.6	19714.7
45°	27534.6	27441.1	27810.1	28111.5	27916.6	27220.2	25627.1	24803.2	26604.2	20538.6
47.5°	26063.7	26126.0	26949.9	28644.3	29390.2	29754.0	28615.7	26749.8	28002.4	21154.5
50°	22061.5	22113.4	24021.0	27674.9	29769.6	31820.1	31581.0	28649.5	29086.1	21531.3
52.5°	18893.5	18927.3	19745.9	24800.6	28517.0	32859.6	34252.6	30440.1	29878.8	21635.3
55°	14231.2	14348.1	15265.5	19457.4	25258.0	32035.8	35879.5	32285.3	30380.3	21645.7
57.5°	8313.7	8441.0	9574.1	13207.3	19631.6	29164.1	36126.3	33922.5	30720.8	21562.5
60°	4072.4	4126.9	4620.7	6941.5	12105.4	23631.2	34140.8	34715.2	30910.5	21518.3
62.5°	2744.4	2736.6	2757.4	3425.3	5964.3	15182.4	30003.5	33327.4	30809.1	21349.4
65°	2359.7	2331.2	2253.2	2403.9	3090.0	6944.1	23181.6	29184.9	30037.3	20925.8
67.5°	2040.1	2042.7	2045.3	1998.5	2206.4	3204.4	14166.2	22989.3	27266.9	18919.5
70°	1689.2	1712.6	1723.0	1723.0	1798.4	2102.5	6047.5	15756.7	21507.9	14834.1
72.5°	1538.5	1489.1	1494.3	1468.3	1468.3	1600.9	2435.1	8932.2	13550.3	8344.8
75°	1255.2	1286.4	1291.6	1273.4	1213.7	1221.5	1444.9	3747.5	5798.0	3461.6
77.5°	1083.7	1083.7	1094.1	1081.1	1034.3	914.8	964.2	1452.7	1972.5	1419.0
80°	870.6	868.0	912.2	938.2	865.4	675.7	615.9	803.0	875.8	623.7
82.5°	423.6	449.6	626.3	714.7	657.5	488.6	376.8	499.0	467.8	275.5
85°	246.9	233.9	280.7	397.6	376.8	270.3	181.9	259.9	244.3	140.3
87.5°	78.0	72.8	57.2	135.1	109.2	75.4	49.4	75.4	67.6	31.2
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°
12596.5	0°	12596.5	12596.5	12596.5	12596.5	12596.5	12596.5	12596.5	12596.5	12596.5	12596.5
12638.1	2.5°	12453.6	12146.9	11842.9	11564.8	11395.9	11286.7	11177.6	11055.4	11008.6	10938.5
12671.9	5°	12328.9	11736.3	11208.8	10754.0	10340.7	10015.9	9688.4	9423.4	9303.8	9384.4
12778.4	7.5°	12256.1	11398.5	10585.0	9750.8	8947.8	8305.9	7747.1	7354.7	7178.0	7222.1
12882.4	10°	12191.1	11016.4	9776.8	8459.2	7305.3	6510.1	5938.3	5639.5	5527.7	5551.1
13022.7	12.5°	12131.3	10587.6	8802.2	7068.8	5842.2	5317.2	5153.5	5156.1	5176.9	5192.5
13246.2	15°	12120.9	10070.5	7713.3	5852.6	5052.1	5018.3	5195.1	5306.8	5366.6	5384.8
13433.4	17.5°	12105.4	9451.9	6603.6	5023.5	4859.8	5088.5	5252.2	5325.0	5371.8	5374.4
13615.3	20°	12043.0	8667.1	5579.7	4628.5	4818.2	5015.7	5117.1	5174.3	5213.3	5226.2
13753.0	22.5°	11850.7	7793.9	4781.8	4451.8	4651.9	4810.4	4930.0	4995.0	5018.3	5033.9
13779.0	25°	11505.0	6816.7	4230.9	4282.9	4420.6	4620.7	4716.9	4729.9	4722.1	4745.5
13714.0	27.5°	11052.8	5769.4	3887.9	4054.2	4230.9	4402.4	4454.4	4446.6	4431.0	4457.0
13602.3	30°	10507.1	4828.6	3669.5	3796.9	4038.6	4194.5	4241.3	4223.1	4191.9	4220.5
13545.1	32.5°	9930.1	4059.4	3490.2	3617.6	3880.1	4033.4	4080.2	4062.0	4038.6	4062.0
13610.1	35°	9392.2	3521.4	3323.9	3498.0	3755.3	3906.0	3965.8	3968.4	3968.4	3997.0
13781.6	37.5°	8898.4	3207.0	3186.2	3422.7	3669.5	3804.7	3890.4	3895.6	3783.9	3791.7
14072.7	40°	8441.0	3074.4	3123.8	3373.3	3586.4	3716.3	3721.5	3430.5	3225.1	3220.0
14405.3	42.5°	8066.8	3048.4	3142.0	3368.1	3526.6	3531.8	3165.4	2939.3	2882.1	2884.7
14712.0	45°	7715.9	3040.6	3183.6	3368.1	3438.3	3051.0	2804.1	2744.4	2749.6	2770.4
14849.7	47.5°	7323.5	3009.4	3191.4	3321.3	3183.6	2713.2	2640.4	2614.4	2604.0	2609.2
14818.5	50°	6894.7	2897.7	3092.6	3227.7	2747.0	2567.6	2476.7	2468.9	2481.9	2489.7
14644.4	52.5°	6442.5	2715.8	2923.7	3058.8	2546.9	2440.3	2338.9	2357.1	2414.3	2432.5
14462.5	55°	6146.2	2502.7	2700.2	2721.0	2406.5	2320.8	2235.0	2276.6	2383.1	2416.9
14353.3	57.5°	6068.3	2276.6	2445.5	2422.1	2227.2	2216.8	2164.8	2201.2	2336.3	2385.7
14348.1	60°	6044.9	2073.9	2196.0	2177.8	2053.1	2102.5	2089.5	2107.7	2154.4	2170.0
14296.2	62.5°	5863.0	1912.7	1972.5	1946.5	1897.1	1982.9	2014.1	1975.1	2011.5	2029.7
13940.1	65°	5400.4	1782.8	1754.2	1736.0	1756.8	1834.8	1897.1	1819.2	1853.0	1904.9
12567.9	67.5°	4636.3	1606.1	1528.1	1548.9	1613.9	1655.5	1736.0	1647.7	1676.2	1764.6
10122.4	70°	3750.1	1382.6	1312.4	1372.2	1434.6	1520.3	1533.3	1473.5	1541.1	1639.9
6177.4	72.5°	2653.4	1156.5	1107.1	1229.2	1250.0	1361.8	1333.2	1304.6	1398.2	1432.0
3053.6	75°	1840.0	933.0	904.4	998.0	1073.3	1169.5	1148.7	1182.5	1380.0	1395.6
1525.5	77.5°	1164.3	725.1	706.9	766.7	870.6	977.2	1010.9	1395.6	2357.1	2450.7
792.6	80°	675.7	540.6	519.8	566.5	657.5	756.3	974.6	1712.6	1554.1	1535.9
356.0	82.5°	376.8	371.6	345.6	358.6	439.2	545.8	1377.4	1205.9	979.8	1010.9
142.9	85°	176.7	218.3	187.1	179.3	246.9	639.3	920.0	688.7	457.4	447.0
31.2	87.5°	46.8	41.6	41.6	46.8	104.0	551.0	366.4	293.7	174.1	168.9
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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