

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: P943285

Luminaire Tested: **GALN-SB7C-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38241 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

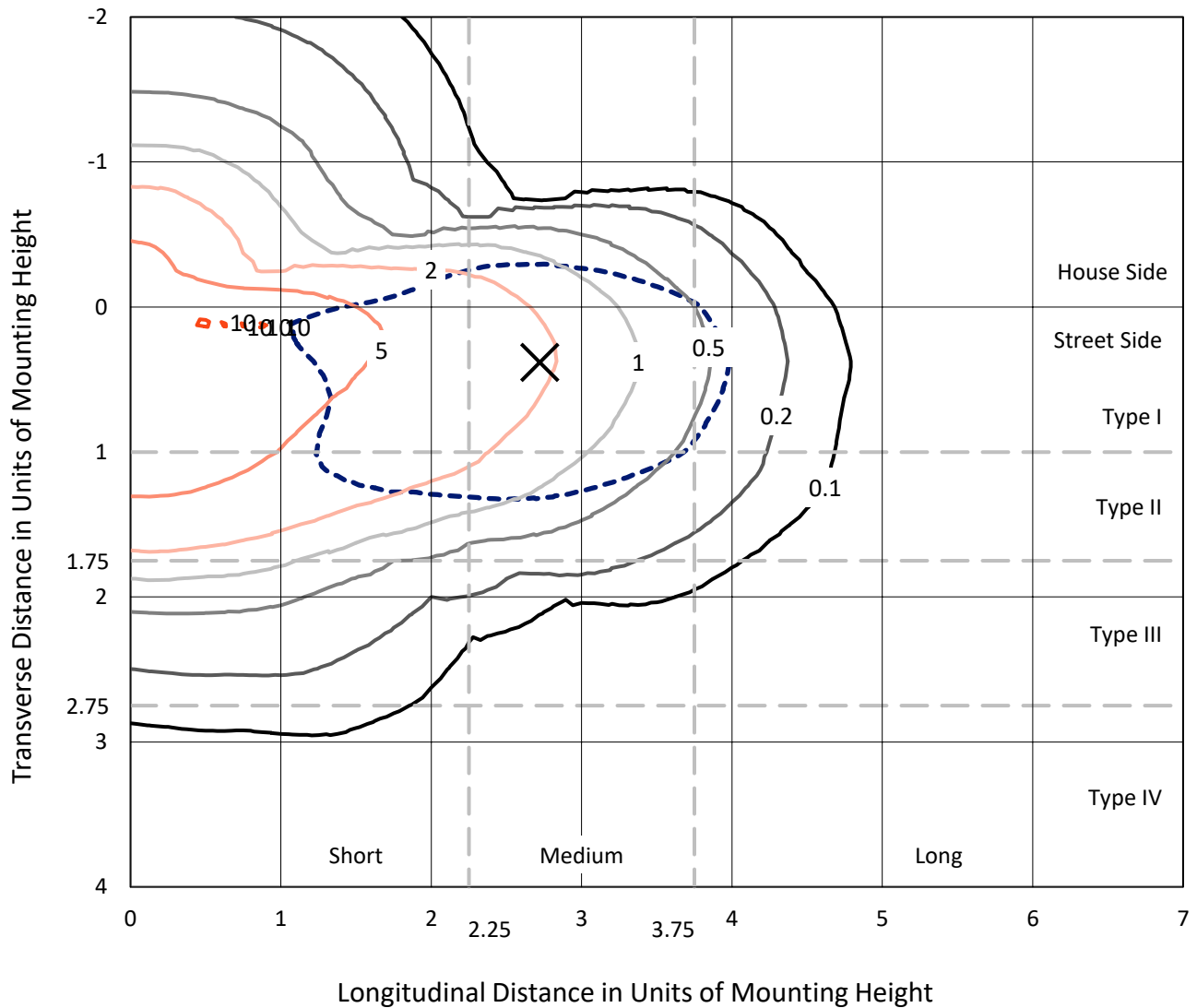
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943285
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Iso-Footcandle Lines of Horizontal Illumination

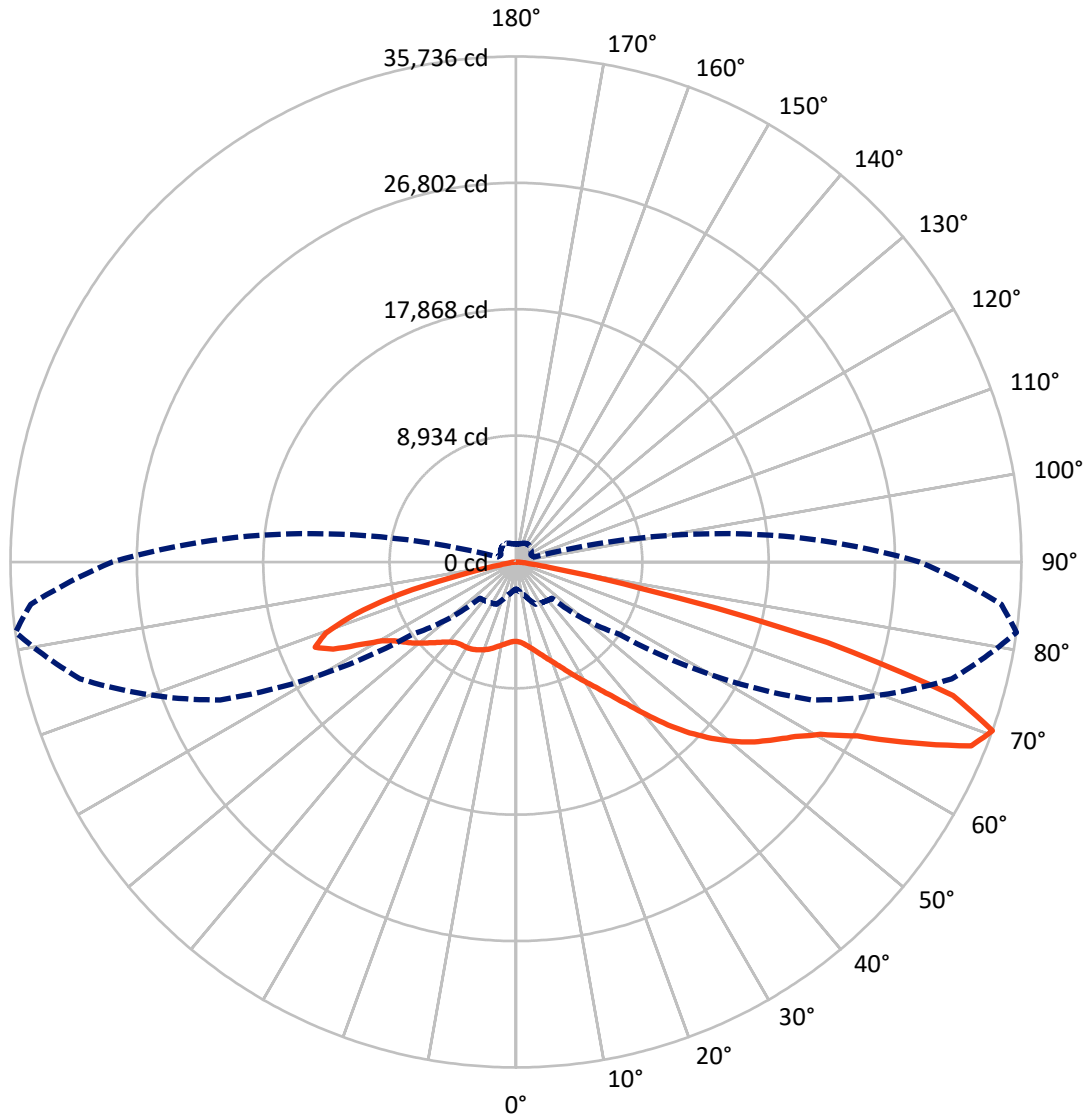
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9427.3	0.0	9427.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	28813.7	0.0	28813.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	38241.0	0.0	38241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.4	1.4
10°-20°	1520.9	4.0
20°-30°	2544.3	6.7
30°-40°	3974.8	10.4
40°-50°	6330.4	16.6
50°-60°	8809.5	23.0
60°-70°	9215.2	24.1
70°-80°	4816.3	12.6
80°-90°	500.1	1.3
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°	38241.0	100.0
0°-180°	38241.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943285

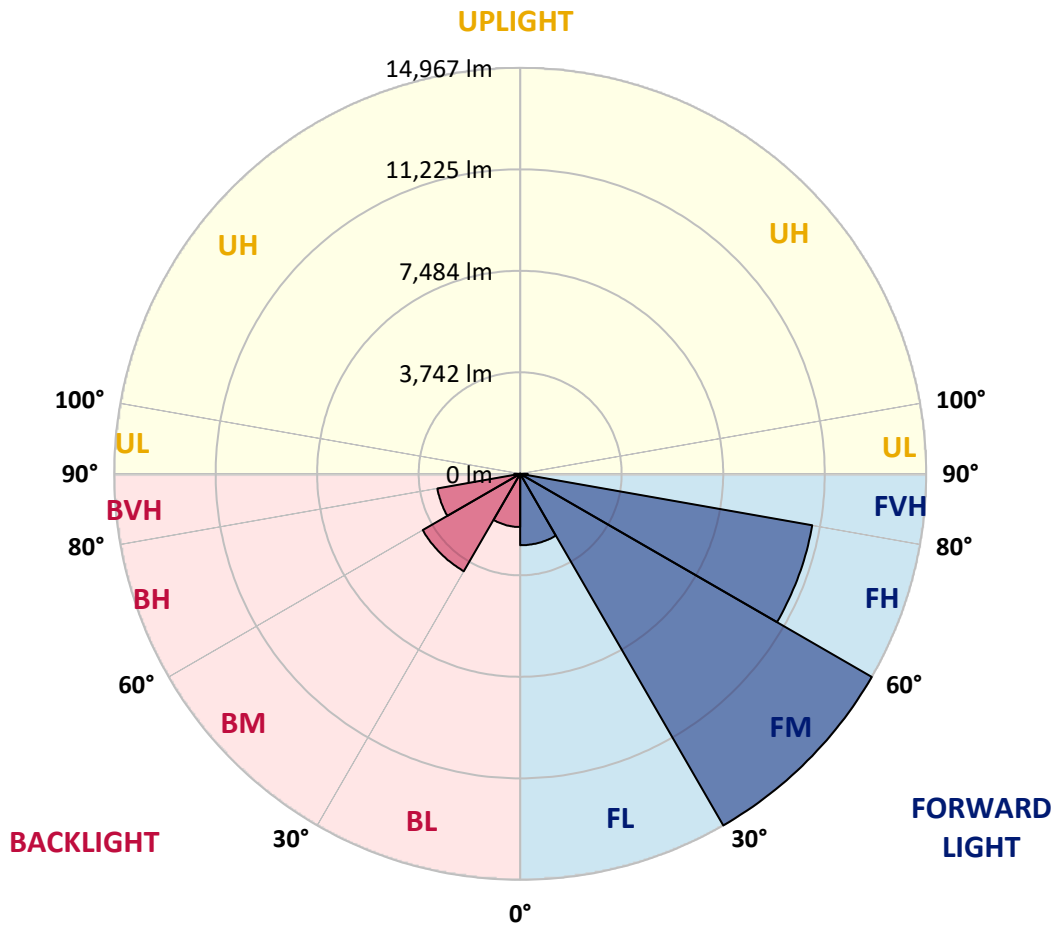
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2633.3	6.9			
FM (30°-60°)	14967.1	39.1			
FH (60°-80°)	10933.2	28.6			G4/12000
FVH (80°-90°)	280.0	0.7			G3/500
BL (0°-30°)	1961.2	5.1	B3/2500		
BM (30°-60°)	4147.7	10.8	B3/5000		
BH (60°-80°)	3098.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	220.2	0.6			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 Medium



REPORT NUMBER: P943285
 CATALOG NUMBER: GALN-SB7C-940-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6
2.5°	5740.5	5773.0	5762.9	5752.7	5752.7	5738.5	5736.5	5716.2	5700.0	5673.6
5°	5813.6	5848.1	5844.0	5852.1	5878.5	5884.6	5890.7	5878.5	5846.1	5813.6
7.5°	5748.7	5787.2	5799.4	5848.1	5929.2	6002.3	6057.1	6079.4	6049.0	6002.3
10°	5529.5	5572.1	5614.7	5730.4	5874.5	6046.9	6193.0	6280.3	6274.2	6229.6
12.5°	5085.1	5129.8	5221.1	5446.3	5710.1	6014.5	6286.4	6469.0	6531.9	6499.4
15°	4730.0	4768.6	4837.6	5068.9	5411.8	5874.5	6320.9	6676.0	6836.3	6818.0
17.5°	4719.9	4736.1	4778.7	4888.3	5152.1	5655.3	6284.4	6878.9	7185.3	7183.3
20°	4898.4	4904.5	4928.9	4951.2	5101.3	5488.9	6191.0	7047.3	7576.9	7576.9
22.5°	5146.0	5141.9	5166.3	5146.0	5219.0	5474.7	6132.2	7195.5	8013.2	8045.7
25°	5517.3	5497.0	5490.9	5444.3	5458.5	5606.6	6197.1	7363.9	8530.6	8597.6
27.5°	6012.4	5980.0	5957.7	5850.1	5813.6	5878.5	6396.0	7566.8	9106.9	9222.6
30°	6657.7	6598.9	6566.4	6379.7	6247.8	6258.0	6696.3	7836.7	9709.6	9896.3
32.5°	7538.4	7447.1	7359.8	7053.4	6811.9	6732.8	7083.8	8210.0	10363.0	10661.3
35°	8524.6	8451.5	8358.2	7885.4	7514.0	7331.4	7607.4	8731.5	11128.0	11600.8
37.5°	9474.2	9411.3	9456.0	8818.8	8339.9	8074.1	8293.2	9431.6	12071.6	12769.6
40°	10456.3	10407.6	10413.7	9805.0	9246.9	8948.7	9125.2	10310.2	13153.1	14159.6
42.5°	11523.7	11487.2	11365.4	10825.6	10198.6	9920.6	10083.0	11324.8	14313.8	15742.3
45°	12718.9	12696.5	12582.9	11964.0	11245.7	10933.2	11152.3	12444.9	15480.6	17231.7
47.5°	13751.7	13770.0	13755.8	13234.3	12489.6	12031.0	12292.7	13613.7	16566.2	18631.9
50°	14248.9	14344.2	14484.2	14321.9	13859.3	13392.6	13443.3	14742.0	17601.1	19944.8
52.5°	13989.1	14169.7	14551.2	14810.9	14989.5	14892.1	14756.2	15862.1	18575.1	21129.8
55°	13021.2	13274.9	13908.0	14535.0	15446.1	16154.3	16332.8	17103.9	19524.7	22172.8
57.5°	11257.9	11669.8	12238.0	13506.2	15040.2	16765.0	18171.3	18826.7	20531.2	23286.8
60°	8234.4	8786.3	9492.5	11379.6	13619.8	16438.3	19735.7	21472.7	21961.8	24729.5
62.5°	5269.8	5610.7	6260.0	8037.6	10612.6	14764.3	20214.6	24780.3	24386.6	27095.6
65°	3607.9	3827.0	4421.6	5419.9	6860.6	10990.0	18932.2	27259.9	28238.0	30845.5
67.5°	2621.7	2788.1	3295.4	4170.0	4470.3	6503.5	14691.2	27146.3	31981.8	34709.0
70°	1911.5	2029.2	2455.3	3295.4	3439.5	3618.0	8900.0	23075.8	31900.7	35735.8
72.5°	1416.4	1497.5	1783.6	2556.8	2784.0	2443.1	4405.3	16771.1	27412.1	32322.7
75°	1024.7	1085.6	1296.6	1956.1	2228.0	1860.8	2197.6	9800.9	19120.9	22736.9
77.5°	783.3	829.9	967.9	1432.6	1783.6	1396.1	1363.6	4508.8	9066.4	9111.0
80°	629.0	659.5	734.6	1008.5	1367.7	1045.0	888.8	1820.2	2865.2	2424.9
82.5°	462.7	513.4	620.9	708.2	978.1	720.4	541.8	919.2	1089.7	937.5
85°	263.8	298.3	375.4	507.3	625.0	440.3	310.5	407.9	507.3	416.0
87.5°	93.3	121.8	131.9	198.9	271.9	182.6	119.7	117.7	166.4	123.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943285
 CATALOG NUMBER: GALN-SB7C-940-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5606.6	0°	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6	5606.6
5667.5	2.5°	5647.2	5637.0	5596.5	5541.7	5484.9	5430.1	5411.8	5373.3	5346.9	5332.7
5799.4	5°	5760.8	5728.4	5633.0	5511.2	5383.4	5245.4	5148.0	5058.7	4993.8	4932.9
5980.0	7.5°	5923.2	5866.3	5702.0	5488.9	5261.6	5032.4	4861.9	4732.0	4644.8	4588.0
6191.0	10°	6111.9	6024.6	5773.0	5454.4	5103.4	4774.6	4573.8	4462.2	4407.4	4376.9
6432.5	12.5°	6329.0	6205.2	5846.1	5375.3	4861.9	4486.5	4348.5	4316.1	4318.1	4320.1
6736.9	15°	6596.8	6424.4	5904.9	5202.8	4547.4	4265.3	4241.0	4293.7	4348.5	4374.9
7081.8	17.5°	6899.2	6655.7	5915.0	4918.7	4238.9	4123.3	4200.4	4314.0	4397.2	4433.7
7467.4	20°	7223.9	6891.1	5842.0	4516.9	3985.3	4007.6	4145.6	4291.7	4383.0	4429.7
7907.7	22.5°	7595.2	7142.7	5667.5	4094.9	3778.3	3881.8	4044.1	4186.2	4281.6	4328.2
8425.1	25°	8019.3	7424.7	5393.5	3739.8	3599.8	3739.8	3902.1	4019.8	4096.9	4139.5
9003.4	27.5°	8490.1	7719.0	5028.3	3457.7	3443.5	3593.7	3727.6	3818.9	3859.5	3892.0
9618.3	30°	8962.9	7986.8	4585.9	3244.6	3307.6	3449.6	3545.0	3585.6	3597.7	3603.8
10304.1	32.5°	9474.2	8218.2	4121.3	3068.1	3177.7	3309.6	3366.4	3384.7	3327.8	3289.3
11136.1	35°	10093.1	8465.7	3666.7	2928.1	3049.8	3163.5	3181.7	3165.5	3098.5	3019.4
12179.1	37.5°	10858.1	8774.1	3303.5	2828.7	2930.1	3005.2	2982.9	2978.8	2984.9	2891.6
13433.1	40°	11795.6	9175.9	3037.7	2751.6	2832.7	2849.0	2786.1	2820.6	2851.0	2708.9
14808.9	42.5°	12836.6	9660.9	2869.3	2698.8	2751.6	2713.0	2615.6	2654.2	2650.1	2463.4
16190.8	45°	13897.8	10188.5	2810.4	2660.2	2676.5	2599.4	2491.8	2502.0	2416.7	2248.3
17515.8	47.5°	14953.0	10754.6	2846.9	2627.8	2583.1	2495.9	2412.7	2368.0	2242.2	2116.4
18786.1	50°	15987.9	11349.2	2980.9	2562.8	2455.3	2404.6	2343.7	2264.6	2130.6	2023.1
19987.4	52.5°	16947.7	11947.8	3131.0	2455.3	2295.0	2325.4	2286.9	2195.6	2063.7	1954.1
21123.7	55°	17856.7	12546.4	3189.9	2307.2	2144.8	2256.4	2234.1	2065.7	1907.4	1818.1
22312.8	57.5°	18847.0	13266.7	3124.9	2118.5	2023.1	2177.3	2092.1	1905.4	1814.1	1747.1
23861.1	60°	20218.7	14397.0	2984.9	1885.1	1907.4	2059.6	1913.5	1836.4	1737.0	1661.9
26182.4	62.5°	22497.5	16505.3	2759.7	1653.8	1771.5	1885.1	1828.3	1751.2	1649.7	1576.7
30151.5	65°	25865.9	19435.4	2335.6	1473.2	1619.3	1714.7	1737.0	1659.9	1554.3	1477.2
33629.5	67.5°	28706.7	21273.9	1767.4	1323.0	1463.0	1576.7	1639.6	1564.5	1452.9	1377.8
34443.2	70°	28550.5	19938.7	1349.4	1174.9	1325.1	1440.7	1521.9	1463.0	1343.3	1272.3
31285.8	72.5°	25358.6	16679.8	1091.7	1024.7	1185.0	1298.7	1396.1	1351.4	1229.7	1160.7
22919.5	75°	18629.8	11840.2	872.5	872.5	1010.5	1150.5	1258.1	1229.7	1118.1	1069.4
9622.3	77.5°	7852.9	4967.4	683.8	724.4	840.1	988.2	1122.1	1132.3	1034.9	1095.8
2544.6	80°	2088.0	1369.7	521.5	570.2	659.5	815.7	976.0	972.0	866.5	809.6
945.6	82.5°	795.4	539.8	371.3	401.8	476.9	625.0	773.1	797.5	691.9	598.6
371.3	85°	306.4	231.3	229.3	241.5	278.0	414.0	584.4	604.7	521.5	442.4
103.5	87.5°	79.1	69.0	85.2	81.2	127.8	221.2	334.8	347.0	318.6	184.7
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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<u>180°</u>
5606.6
5348.9
4957.3
4600.1
4385.0
4324.2
4372.9
4441.9
4441.9
4340.4
4151.7
3904.1
3618.0
3301.5
3023.5
2897.7
2713.0
2461.4
2254.4
2116.4
2015.0
1956.1
1810.0
1741.0
1657.8
1576.7
1481.3
1379.8
1278.4
1160.7
1055.2
994.3
752.8
598.6
456.6
263.8
0.0

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