

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: P954445

Luminaire Tested: **GALN-SB7C-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39621 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

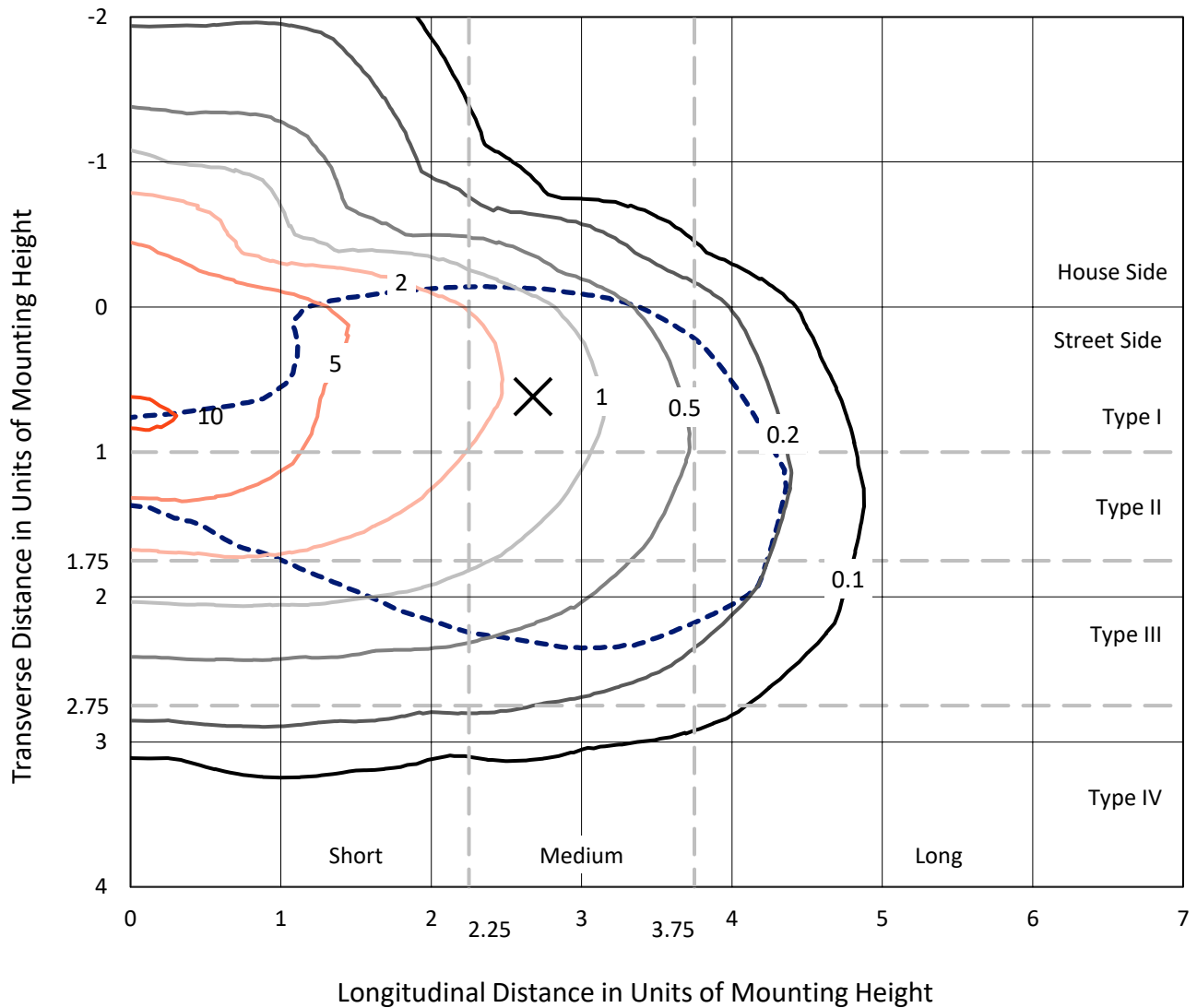
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

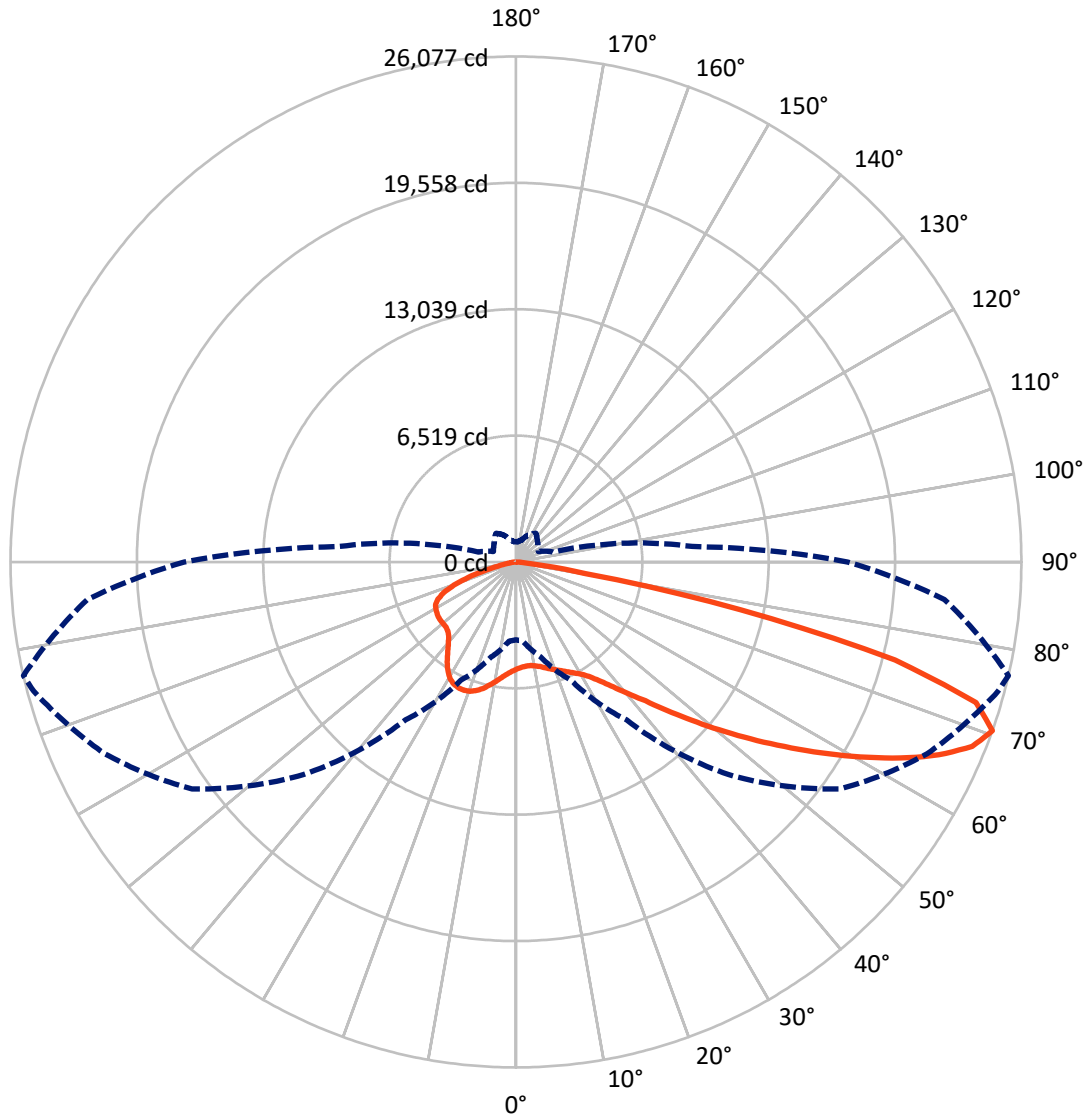
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8676.4	0.0	8676.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	30944.6	0.0	30944.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	39621.0	0.0	39621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.2	1.3
10°-20°	1521.5	3.8
20°-30°	2601.9	6.6
30°-40°	4184.2	10.6
40°-50°	6532.6	16.5
50°-60°	8726.0	22.0
60°-70°	9300.6	23.5
70°-80°	5725.4	14.5
80°-90°	501.7	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°	39621.0	100.0
0°-180°	39621.0	100.0

Coefficient of Utilization



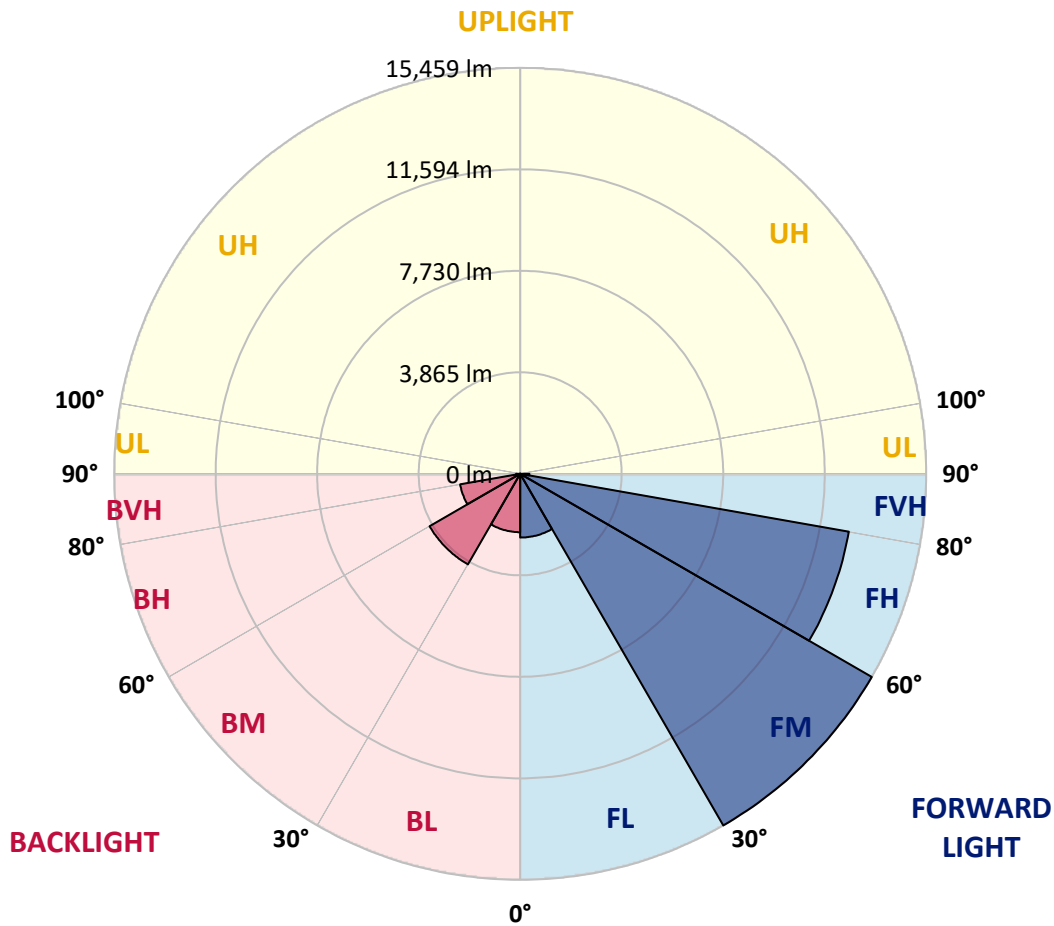
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2427.4	6.1			
FM (30°-60°)	15459.3	39.0			
FH (60°-80°)	12707.1	32.1			G5
FVH (80°-90°)	350.8	0.9			G3/500
BL (0°-30°)	2223.2	5.6	B3/2500		
BM (30°-60°)	3983.5	10.1	B3/5000		
BH (60°-80°)	2318.8	5.9	B3/2500		G3/2500
BVH (80°-90°)	150.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5527.5	5527.5	5527.5	5527.5	5527.5	5527.5	5527.5	5527.5	5527.5	5527.5
2.5°	5095.3	5093.2	5119.6	5127.7	5176.4	5210.9	5275.9	5344.9	5434.1	5444.3
5°	4801.0	4801.0	4831.5	4863.9	4926.9	4995.8	5095.3	5215.0	5369.2	5393.6
7.5°	4551.5	4567.7	4594.1	4657.0	4730.0	4829.5	4981.6	5152.1	5355.0	5393.6
10°	4350.6	4368.8	4401.3	4452.0	4561.6	4699.6	4898.4	5117.6	5389.5	5450.4
12.5°	4287.7	4305.9	4324.2	4362.7	4464.2	4626.5	4863.9	5133.8	5472.7	5533.6
15°	4433.8	4456.1	4441.9	4431.7	4484.5	4632.6	4880.2	5192.7	5576.2	5663.4
17.5°	4770.6	4778.7	4746.3	4650.9	4642.8	4721.9	4957.3	5273.8	5706.1	5801.4
20°	5314.4	5300.2	5233.3	5044.5	4937.0	4920.8	5089.2	5395.6	5840.0	5941.4
22.5°	6053.0	6036.8	5902.9	5604.6	5365.2	5206.9	5279.9	5553.9	5990.1	6103.8
25°	6974.3	6952.0	6755.1	6349.3	5978.0	5586.3	5539.7	5762.9	6174.8	6280.3
27.5°	8049.8	8031.5	7818.4	7282.7	6747.0	6105.8	5862.3	6008.4	6367.6	6487.3
30°	9206.4	9259.2	8881.7	8305.4	7627.7	6783.6	6296.6	6310.8	6617.2	6724.7
32.5°	10565.9	10657.3	10202.7	9472.2	8546.9	7520.1	6844.4	6732.8	6980.4	7069.7
35°	11913.3	12016.8	11639.4	10831.8	9766.5	8388.6	7416.7	7217.8	7463.3	7560.7
37.5°	13078.1	13216.1	13021.3	12319.2	11071.2	9435.7	8163.4	7788.0	8057.9	8179.6
40°	13997.3	14208.3	14194.1	13755.8	12609.3	10706.0	9111.0	8492.1	8796.5	8928.4
42.5°	14744.0	14926.7	15084.9	15062.6	14214.4	12148.7	10225.0	9407.3	9638.6	9790.8
45°	15259.4	15454.2	15795.2	16162.4	15758.6	13692.9	11501.4	10492.9	10703.9	10933.2
47.5°	15720.1	15941.3	16383.6	16966.0	17069.5	15243.2	12899.5	11757.1	11949.9	12187.3
50°	15760.7	15951.4	16637.3	17463.1	18000.9	16732.6	14401.1	13175.5	13356.1	13609.7
52.5°	14780.6	15080.9	16278.1	17448.9	18429.0	17978.5	15892.6	14650.7	14853.6	15158.0
55°	11473.0	11913.3	15225.0	16905.1	18276.8	18784.1	17310.9	16219.2	16479.0	16797.6
57.5°	9882.1	10074.9	12085.8	15914.9	17582.9	18993.1	18508.2	17804.0	18222.1	18571.1
60°	8881.7	9042.0	10231.1	14374.7	16669.7	18662.4	19433.5	19281.3	20003.7	20419.7
62.5°	7810.3	7962.5	9044.1	12002.6	15500.9	18112.5	20017.9	20644.9	21829.9	22284.5
65°	6747.0	6876.9	7913.8	10085.0	14015.6	17562.6	20320.2	21823.8	23520.2	23991.0
67.5°	5562.0	5669.5	6649.6	8508.4	12209.6	16809.7	20470.4	22751.2	24991.4	25395.2
70°	4013.7	4096.9	5109.5	6728.8	9943.0	15515.1	20409.5	23408.6	25754.4	26077.0
72.5°	1897.3	1972.4	3161.5	4368.8	7023.0	12994.9	19177.8	22887.1	24979.2	24818.9
75°	1012.6	1077.5	1816.1	2396.5	3709.3	8908.1	15693.7	19715.5	20975.7	20196.4
77.5°	685.9	736.6	1124.2	1438.7	1694.4	4228.8	10087.1	13650.3	13132.9	11846.4
80°	543.8	596.6	921.2	974.0	819.8	1528.0	4167.9	6318.9	4539.3	3630.2
82.5°	418.0	476.9	775.1	706.2	446.4	627.0	1213.5	1998.7	1162.7	884.7
85°	255.7	318.6	608.8	450.5	251.6	286.1	411.9	556.0	355.1	296.3
87.5°	129.9	182.6	308.4	164.4	113.6	67.0	109.6	109.6	93.3	81.2
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5527.5	0°	5527.5	5527.5	5527.5	5527.5	5527.5	5527.5	5527.5	5527.5	5527.5	5527.5
5499.1	2.5°	5547.8	5588.4	5657.4	5722.3	5773.0	5821.7	5870.4	5896.8	5904.9	5937.4
5529.5	5°	5612.7	5687.8	5821.7	5947.5	6026.7	6075.4	6109.9	6130.2	6134.2	6144.4
5612.7	7.5°	5732.4	5852.2	6038.8	6164.7	6223.5	6219.4	6205.2	6154.5	6134.2	6116.0
5734.5	10°	5900.9	6059.1	6288.4	6375.7	6339.2	6241.8	6116.0	5967.8	5898.8	5831.9
5900.9	12.5°	6109.9	6310.8	6536.0	6531.9	6351.3	6101.7	5809.5	5582.3	5438.2	5334.7
6105.8	15°	6363.5	6594.8	6767.3	6629.3	6233.6	5785.2	5357.0	5060.8	4930.9	4817.3
6312.8	17.5°	6625.3	6872.8	6952.0	6598.9	5937.4	5316.5	4831.5	4598.1	4470.3	4409.4
6536.0	20°	6881.0	7126.5	7061.6	6424.4	5486.9	4784.8	4352.6	4224.8	4198.4	4212.6
6753.1	22.5°	7150.8	7370.0	7083.9	6087.5	4912.6	4241.0	4003.6	4007.6	4066.5	4109.1
6980.4	25°	7426.8	7574.9	7025.0	5600.5	4295.8	3841.2	3782.4	3847.3	3963.0	4046.2
7236.1	27.5°	7692.6	7757.6	6897.2	4997.9	3766.2	3555.1	3565.3	3699.2	3873.7	3989.4
7546.5	30°	7992.9	7919.9	6651.7	4320.1	3398.9	3309.6	3394.8	3551.1	3725.6	3829.1
7938.2	32.5°	8331.8	8059.9	6262.1	3693.1	3139.1	3112.8	3252.8	3354.2	3431.3	3461.8
8457.6	35°	8753.9	8256.7	5762.9	3252.8	2905.8	2968.7	3102.6	3051.9	3021.5	3005.2
9155.7	37.5°	9301.8	8522.6	5178.5	2966.7	2717.1	2865.2	2920.0	2761.7	2642.0	2583.1
10001.8	40°	9961.3	8912.2	4616.4	2745.5	2597.4	2775.9	2680.5	2489.8	2337.6	2254.4
10953.5	42.5°	10693.8	9320.0	4143.6	2579.1	2530.4	2702.9	2504.0	2276.7	2031.2	2004.8
12087.8	45°	11462.8	9740.1	3820.9	2451.3	2497.9	2640.0	2402.6	2035.3	1860.8	1968.3
13226.2	47.5°	12231.9	10125.6	3626.1	2355.9	2481.7	2568.9	2313.3	1901.3	1777.6	1933.8
14445.7	50°	13088.2	10470.6	3538.9	2286.9	2463.4	2540.5	2179.3	1866.8	1690.3	1793.8
15707.9	52.5°	13938.4	10738.4	3474.0	2217.9	2437.0	2518.2	2114.4	1826.3	1584.8	1590.9
16978.2	55°	14786.6	10912.9	3402.9	2126.6	2378.2	2469.5	2108.3	1781.6	1505.7	1477.2
18321.5	57.5°	15691.7	11012.4	3315.7	2025.1	2276.7	2345.7	2102.2	1747.1	1481.3	1434.6
19695.2	60°	16612.9	11158.5	3202.0	1901.3	2140.8	2197.6	2088.0	1735.0	1467.1	1388.0
20989.9	62.5°	17438.8	11209.2	3066.1	1783.7	1966.3	2051.5	2057.6	1724.8	1428.5	1292.6
22065.3	65°	17980.6	10990.0	2828.7	1649.7	1777.6	1901.3	1998.7	1690.3	1359.6	1223.6
22597.0	67.5°	17958.3	10365.1	2457.3	1477.2	1594.9	1735.0	1913.5	1631.5	1276.4	1138.4
22195.2	70°	17122.2	9131.3	1986.6	1276.4	1394.0	1556.4	1803.9	1544.2	1176.9	1045.0
19735.8	72.5°	14685.2	7146.8	1442.7	1041.0	1160.7	1371.7	1661.9	1438.7	1075.5	961.8
14585.8	75°	10490.9	4523.0	978.1	799.5	903.0	1162.7	1485.4	1314.9	982.1	965.9
7305.1	77.5°	5359.1	2161.1	647.3	584.4	629.0	917.2	1247.9	1174.9	996.3	797.5
2077.9	80°	1743.1	797.5	407.9	397.7	418.0	610.8	965.9	963.9	754.9	541.8
503.2	82.5°	556.0	342.9	265.8	255.7	245.5	383.5	673.7	763.0	509.3	342.9
180.6	85°	221.2	204.9	156.2	144.1	103.5	180.6	353.1	507.3	379.5	247.6
46.7	87.5°	81.2	81.2	42.6	30.4	22.3	60.9	95.4	152.2	217.1	127.8
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>
5527.5
5955.6
6160.6
6120.0
5811.6
5310.4
4805.1
4427.7
4206.5
4119.2
4068.5
4017.8
3853.4
3478.0
3021.5
2597.4
2260.5
2031.2
2025.1
2006.9
1870.9
1633.5
1497.5
1440.7
1394.0
1292.6
1223.6
1144.5
1057.2
955.7
911.1
710.2
478.9
340.9
253.6
125.8
0.0

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