

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: P943165

Luminaire Tested: **GALN-SB7C-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943165
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-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52772 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

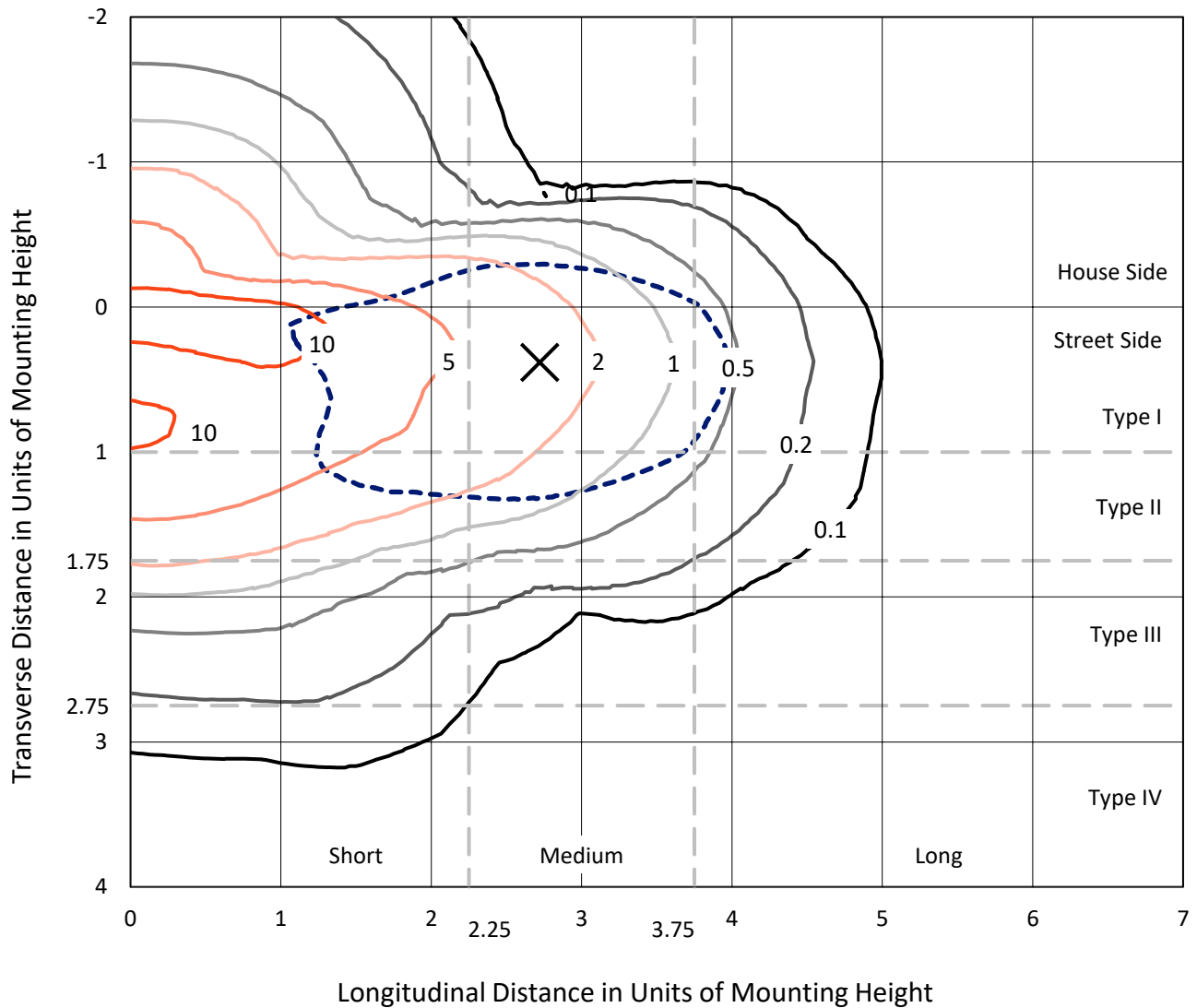
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

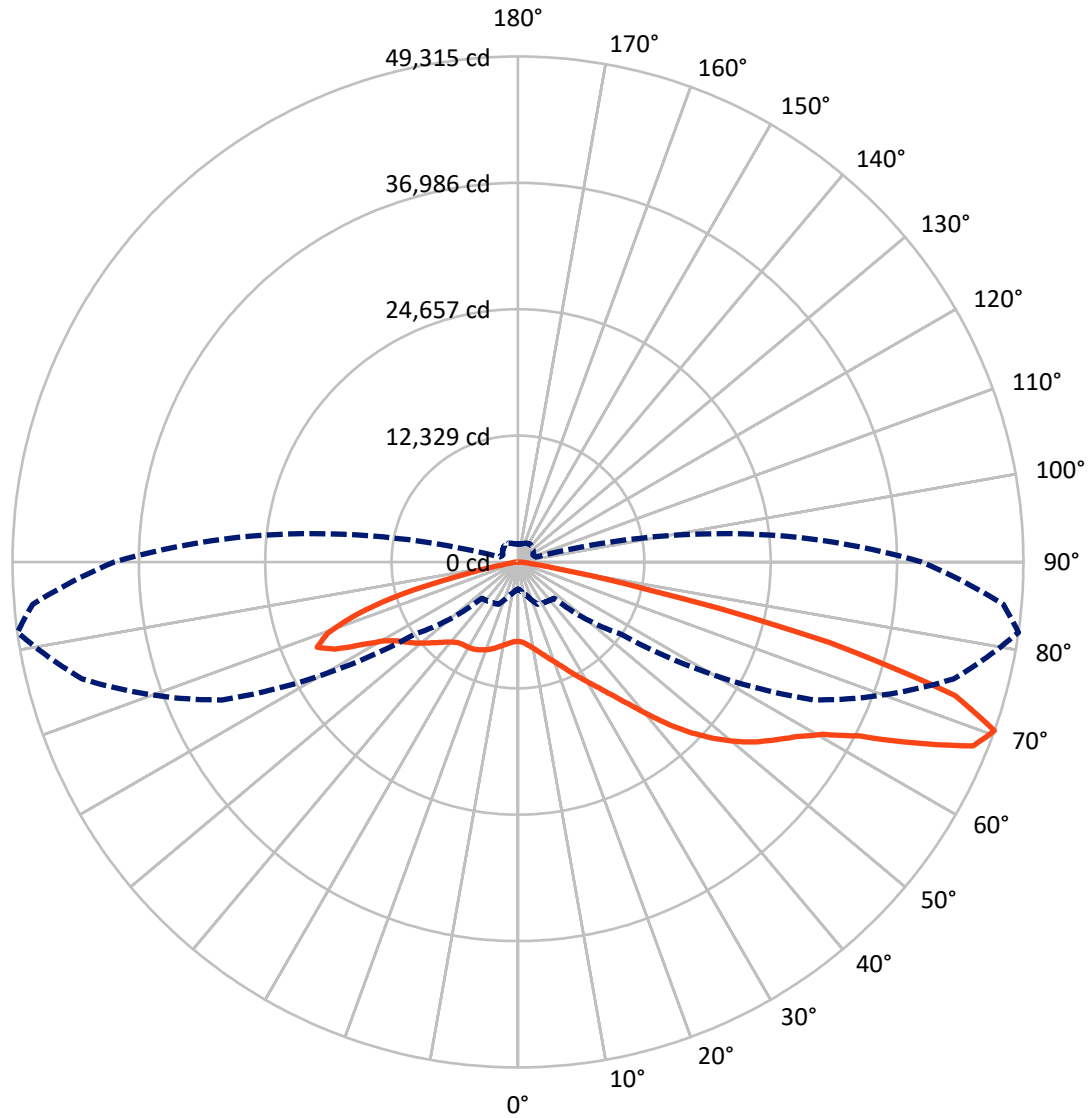
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	13009.6	0.0	13009.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	39762.4	0.0	39762.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	52772.0	0.0	52772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.5	1.4
10°-20°	2098.8	4.0
20°-30°	3511.1	6.7
30°-40°	5485.2	10.4
40°-50°	8735.9	16.6
50°-60°	12157.0	23.0
60°-70°	12716.8	24.1
70°-80°	6646.5	12.6
80°-90°	690.2	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°	52772.0	100.0
0°-180°	52772.0	100.0

Coefficient of Utilization



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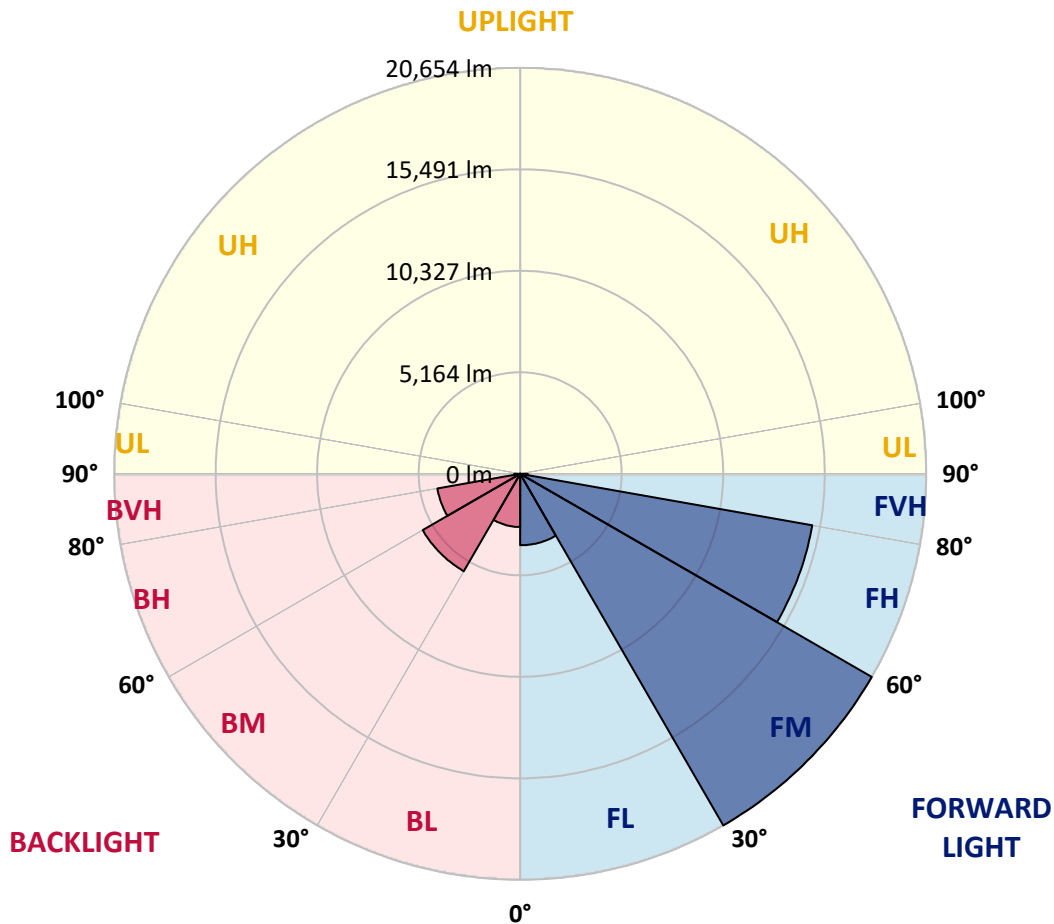
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3633.9	6.9			
FM (30°-60°)	20654.4	39.1			
FH (60°-80°)	15087.7	28.6			G5
FVH (80°-90°)	386.4	0.7			G3/500
BL (0°-30°)	2706.5	5.1	B4/5000		
BM (30°-60°)	5723.7	10.8	B4/8500		
BH (60°-80°)	4275.6	8.1	B4/5000		G4/5000
BVH (80°-90°)	303.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7737.0	7737.0	7737.0	7737.0	7737.0	7737.0	7737.0	7737.0	7737.0	7737.0
2.5°	7921.9	7966.7	7952.7	7938.7	7938.7	7919.1	7916.2	7888.2	7865.8	7829.4
5°	8022.7	8070.3	8064.7	8075.9	8112.3	8120.7	8129.1	8112.3	8067.5	8022.7
7.5°	7933.1	7986.3	8003.1	8070.3	8182.3	8283.1	8358.7	8389.5	8347.5	8283.1
10°	7630.6	7689.4	7748.2	7907.8	8106.7	8344.7	8546.3	8666.7	8658.3	8596.7
12.5°	7017.4	7079.0	7205.0	7515.8	7879.8	8299.9	8675.1	8927.1	9013.9	8969.1
15°	6527.3	6580.5	6675.7	6995.0	7468.2	8106.7	8722.7	9212.8	9434.0	9408.8
17.5°	6513.3	6535.7	6594.5	6745.8	7109.8	7804.2	8672.3	9492.8	9915.6	9912.8
20°	6759.8	6768.2	6801.8	6832.6	7039.8	7574.6	8543.5	9725.2	10456.1	10456.1
22.5°	7101.4	7095.8	7129.4	7101.4	7202.2	7555.0	8462.3	9929.6	11058.1	11102.9
25°	7613.8	7585.8	7577.4	7513.0	7532.6	7737.0	8551.9	10162.0	11772.2	11864.6
27.5°	8297.1	8252.3	8221.5	8073.1	8022.7	8112.3	8826.3	10442.1	12567.4	12727.0
30°	9187.6	9106.3	9061.5	8803.9	8621.9	8635.9	9240.8	10814.5	13399.1	13656.7
32.5°	10402.9	10276.8	10156.4	9733.6	9400.4	9291.2	9775.6	11329.7	14300.8	14712.4
35°	11763.8	11663.0	11534.1	10881.7	10369.3	10117.2	10498.1	12049.4	15356.5	16008.9
37.5°	13074.3	12987.5	13049.1	12169.8	11508.9	11142.1	11444.5	13015.5	16658.6	17621.8
40°	14429.6	14362.4	14370.8	13530.7	12760.6	12349.0	12592.6	14228.0	18151.1	19540.0
42.5°	15902.5	15852.1	15684.1	14939.2	14074.0	13690.3	13914.3	15628.1	19752.8	21724.2
45°	17551.8	17521.0	17364.2	16510.2	15518.9	15087.6	15390.1	17173.8	21363.0	23779.6
47.5°	18977.2	19002.4	18982.8	18263.1	17235.4	16602.6	16963.8	18786.7	22861.1	25711.7
50°	19663.2	19794.8	19988.0	19764.0	19125.6	18481.5	18551.5	20343.7	24289.2	27523.5
52.5°	19304.8	19554.0	20080.4	20438.9	20685.3	20550.9	20363.3	21889.4	25633.3	29158.8
55°	17969.1	18319.1	19192.8	20058.0	21315.3	22292.6	22539.1	23603.1	26943.8	30598.1
57.5°	15535.7	16104.1	16888.2	18638.3	20755.3	23135.5	25076.1	25980.5	28332.7	32135.4
60°	11363.3	12125.0	13099.5	15703.7	18795.1	22684.7	27235.0	29632.0	30306.9	34126.4
62.5°	7272.2	7742.6	8638.7	11091.7	14645.2	20374.5	27895.9	34196.4	33653.2	37391.5
65°	4978.8	5281.2	6101.7	7479.4	9467.6	15166.0	26126.1	37618.3	38968.0	42566.3
67.5°	3617.9	3847.5	4547.6	5754.5	6168.9	8974.7	20273.7	37461.5	44134.4	47897.9
70°	2637.8	2800.2	3388.3	4547.6	4746.4	4992.8	12281.8	31844.2	44022.4	49314.8
72.5°	1954.6	2066.6	2461.4	3528.3	3841.9	3371.5	6079.3	23143.9	37828.3	44604.9
75°	1414.1	1498.1	1789.3	2699.4	3074.7	2567.8	3032.6	13525.1	26386.6	31376.6
77.5°	1080.9	1145.3	1335.7	1977.0	2461.4	1926.6	1881.8	6222.1	12511.4	12573.0
80°	868.1	910.1	1013.7	1391.7	1887.4	1442.1	1226.5	2511.8	3953.9	3346.3
82.5°	638.5	708.5	856.9	977.3	1349.7	994.1	747.7	1268.5	1503.7	1293.7
85°	364.0	411.6	518.0	700.1	862.5	607.6	428.4	562.8	700.1	574.0
87.5°	128.8	168.0	182.0	274.4	375.2	252.0	165.2	162.4	229.6	170.8
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°
7737.0	0°	7737.0	7737.0	7737.0	7737.0	7737.0	7737.0	7737.0	7737.0	7737.0	7737.0
7821.0	2.5°	7793.0	7779.0	7723.0	7647.4	7569.0	7493.4	7468.2	7415.0	7378.6	7359.0
8003.1	5°	7949.9	7905.0	7773.4	7605.4	7429.0	7238.6	7104.2	6981.0	6891.4	6807.4
8252.3	7.5°	8173.9	8095.5	7868.6	7574.6	7261.0	6944.6	6709.4	6530.1	6409.7	6331.3
8543.5	10°	8434.3	8313.9	7966.7	7527.0	7042.6	6588.9	6311.7	6157.7	6082.1	6040.1
8876.7	12.5°	8733.9	8563.1	8067.5	7417.8	6709.4	6191.3	6000.9	5956.1	5958.9	5961.7
9296.8	15°	9103.5	8865.5	8148.7	7179.8	6275.3	5886.1	5852.5	5925.3	6000.9	6037.3
9772.8	17.5°	9520.8	9184.8	8162.7	6787.8	5849.7	5690.1	5796.5	5953.3	6068.1	6118.5
10304.8	20°	9968.8	9509.6	8061.9	6233.3	5499.7	5530.5	5720.9	5922.5	6048.5	6112.9
10912.5	22.5°	10481.3	9856.8	7821.0	5650.9	5214.0	5356.8	5580.9	5776.9	5908.5	5972.9
11626.6	25°	11066.5	10246.0	7443.0	5160.8	4967.6	5160.8	5384.8	5547.3	5653.7	5712.5
12424.6	27.5°	11716.2	10652.1	6939.0	4771.6	4752.0	4959.2	5144.0	5270.0	5326.0	5370.8
13273.1	30°	12368.6	11021.7	6328.5	4477.6	4564.4	4760.4	4892.0	4948.0	4964.8	4973.2
14219.6	32.5°	13074.3	11340.9	5687.3	4233.9	4385.2	4567.2	4645.6	4670.8	4592.4	4539.2
15367.7	35°	13928.3	11682.6	5060.0	4040.7	4208.7	4365.6	4390.8	4368.4	4276.0	4166.7
16807.0	37.5°	14984.0	12108.2	4558.8	3903.5	4043.5	4147.1	4116.3	4110.7	4119.1	3990.3
18537.5	40°	16277.7	12662.6	4191.9	3797.1	3909.1	3931.5	3844.7	3892.3	3934.3	3738.3
20436.1	42.5°	17714.3	13331.9	3959.5	3724.3	3797.1	3743.9	3609.5	3662.7	3657.1	3399.5
22343.0	45°	19178.8	14060.0	3878.3	3671.1	3693.5	3587.1	3438.7	3452.7	3335.1	3102.7
24171.6	47.5°	20634.9	14841.2	3928.7	3626.3	3564.7	3444.3	3329.5	3267.9	3094.3	2920.6
25924.5	50°	22063.0	15661.7	4113.5	3536.7	3388.3	3318.3	3234.3	3125.1	2940.2	2791.8
27582.3	52.5°	23387.5	16487.8	4320.8	3388.3	3167.1	3209.1	3155.9	3029.8	2847.8	2696.6
29150.4	55°	24642.0	17313.8	4402.0	3183.9	2959.8	3113.9	3083.1	2850.6	2632.2	2509.0
30791.3	57.5°	26008.5	18307.9	4312.4	2923.4	2791.8	3004.6	2887.0	2629.4	2503.4	2411.0
32927.9	60°	27901.5	19867.6	4119.1	2601.4	2632.2	2842.2	2640.6	2534.2	2397.0	2293.4
36131.4	62.5°	31046.1	22777.1	3808.3	2282.2	2444.6	2601.4	2523.0	2416.6	2276.6	2175.8
41608.6	65°	35694.5	26820.6	3223.1	2033.0	2234.6	2366.2	2397.0	2290.6	2145.0	2038.6
46408.2	67.5°	39614.9	29357.6	2439.0	1825.7	2019.0	2175.8	2262.6	2159.0	2005.0	1901.4
47531.1	70°	39399.2	27515.1	1862.2	1621.3	1828.6	1988.2	2100.2	2019.0	1853.8	1755.7
43173.9	72.5°	34994.5	23017.9	1506.5	1414.1	1635.3	1792.1	1926.6	1865.0	1696.9	1601.7
31628.6	75°	25708.9	16339.3	1204.1	1204.1	1394.5	1587.7	1736.1	1696.9	1542.9	1475.7
13278.7	77.5°	10836.9	6855.0	943.7	999.7	1159.3	1363.7	1548.5	1562.5	1428.1	1512.1
3511.5	80°	2881.4	1890.2	719.7	786.9	910.1	1125.7	1346.9	1341.3	1195.7	1117.3
1304.9	82.5°	1097.7	744.9	512.4	554.4	658.1	862.5	1066.9	1100.5	954.9	826.1
512.4	85°	422.8	319.2	316.4	333.2	383.6	571.2	806.5	834.5	719.7	610.5
142.8	87.5°	109.2	95.2	117.6	112.0	176.4	305.2	462.0	478.8	439.6	254.8
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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180°
7737.0
7381.4
6841.0
6348.1
6051.3
5967.3
6034.5
6129.7
6129.7
5989.7
5729.3
5387.6
4992.8
4556.0
4172.3
3998.7
3743.9
3396.7
3111.1
2920.6
2780.6
2699.4
2497.8
2402.6
2287.8
2175.8
2044.2
1904.2
1764.1
1601.7
1456.1
1372.1
1038.9
826.1
630.1
364.0
0.0

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