

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: P952047

Luminaire Tested: **GALN-SB6A-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27707 lumens
Efficiency: N/A
Efficacy: 162.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

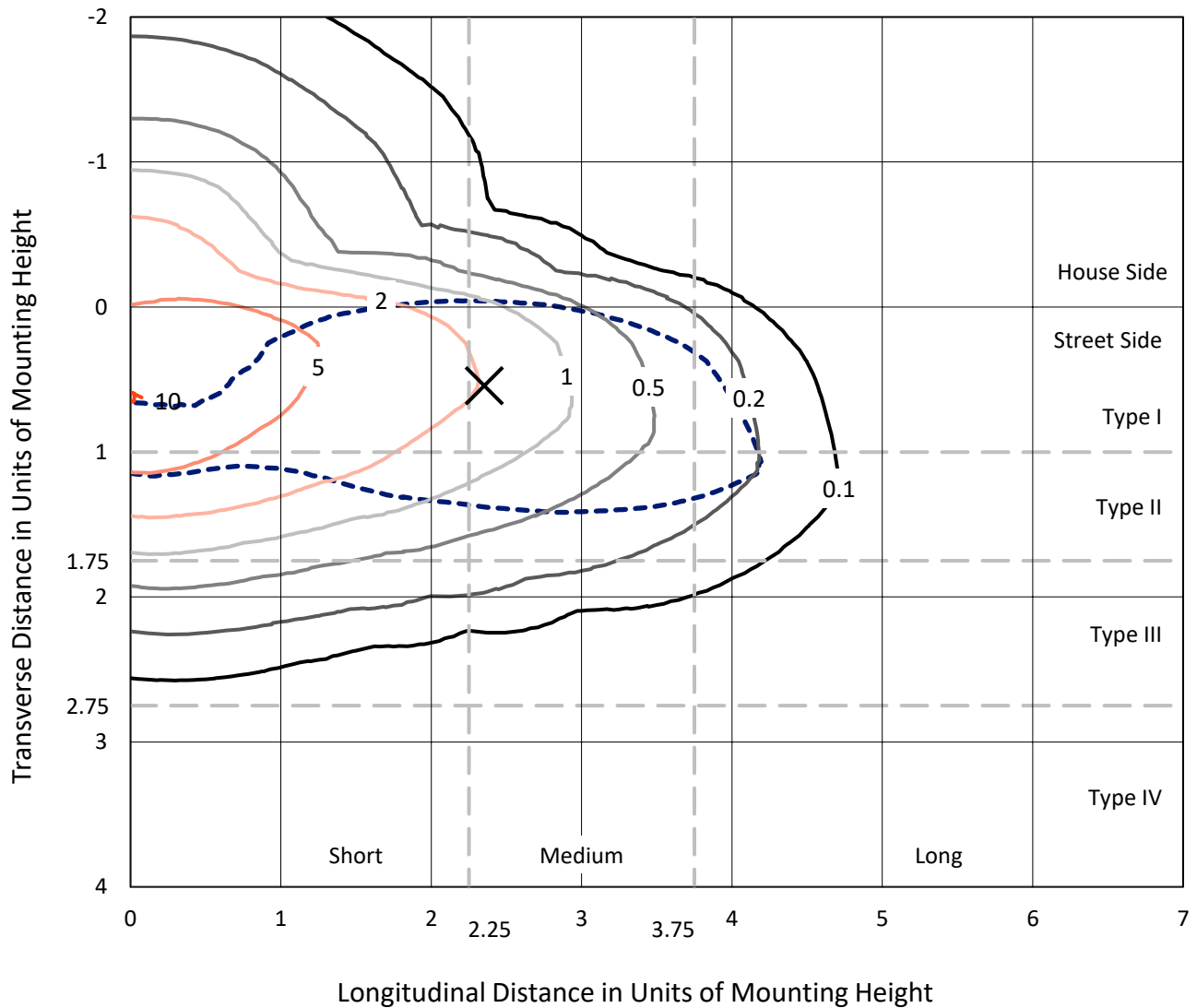
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P952047
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Iso-Footcandle Lines of Horizontal Illumination

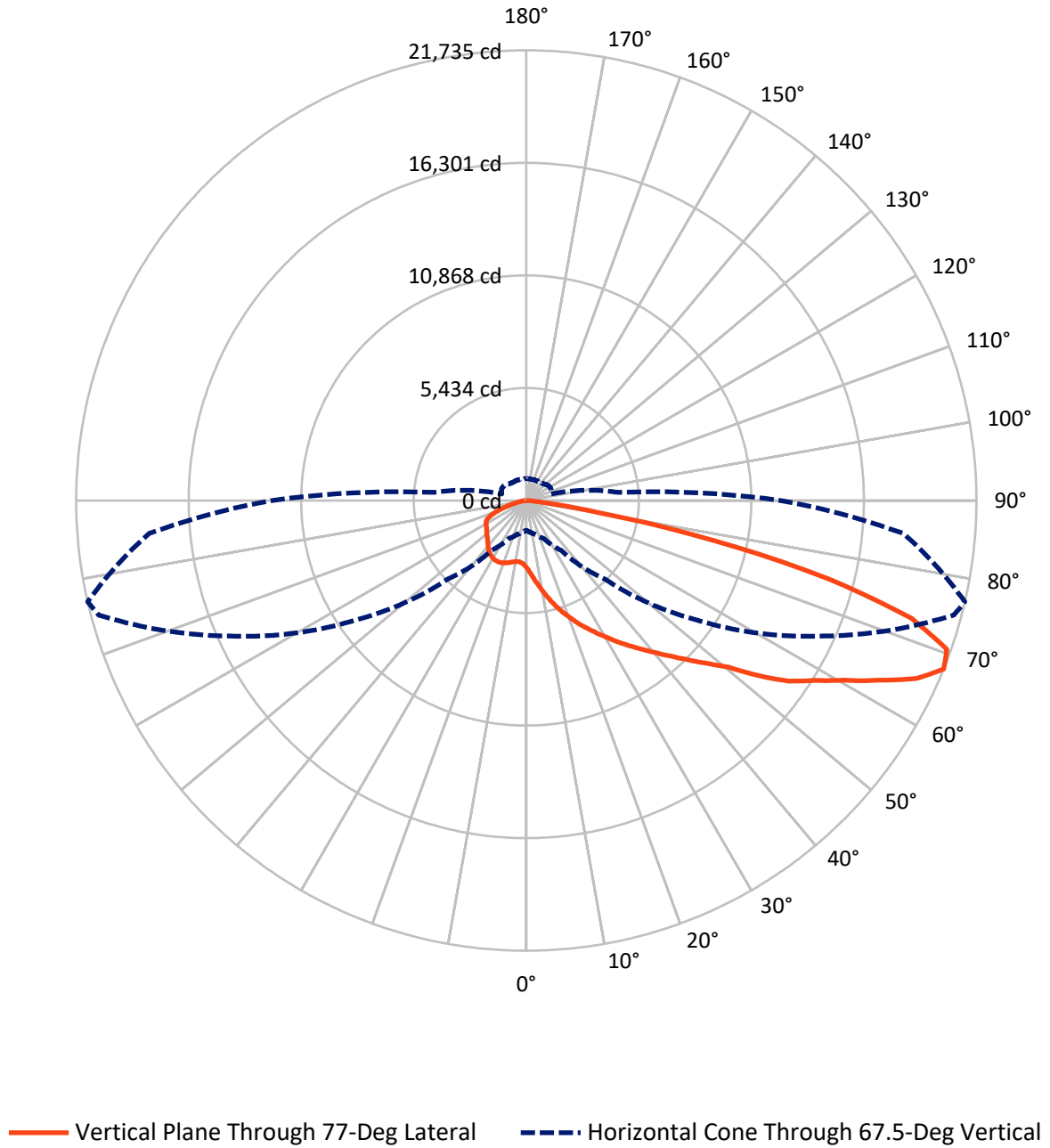
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P952047
CATALOG NUMBER: GALN-SB6A-735-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5241.1	0.0	5241.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	22466.0	0.0	22466.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	27707.0	0.0	27707.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.5	1.3
10°-20°	1251.8	4.5
20°-30°	2363.6	8.5
30°-40°	3807.7	13.7
40°-50°	5208.3	18.8
50°-60°	5875.0	21.2
60°-70°	5483.6	19.8
70°-80°	3005.9	10.8
80°-90°	362.6	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°	27707.0	100.0
0°-180°	27707.0	100.0



REPORT NUMBER: P952047

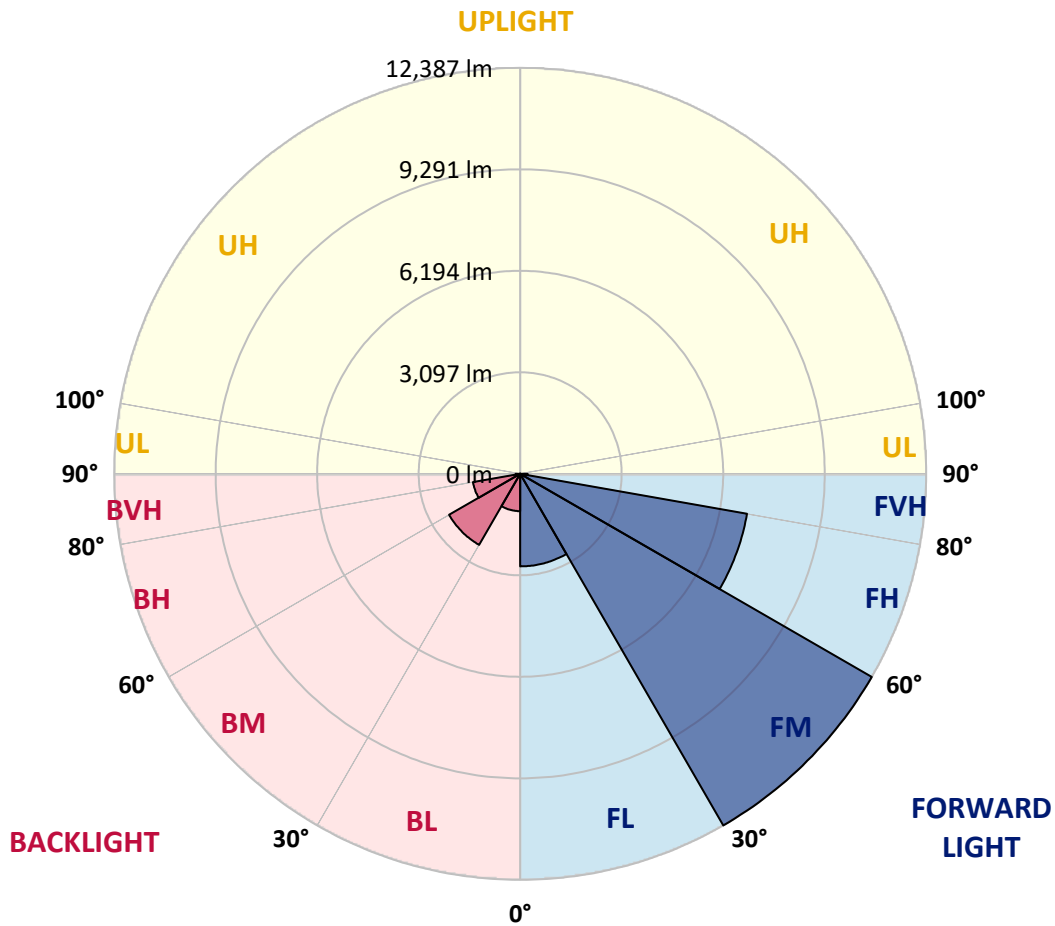
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2824.4	10.2			
FM (30°-60°)	12387.5	44.7			
FH (60°-80°)	7027.3	25.4			G3/7500
FVH (80°-90°)	226.8	0.8			G3/500
BL (0°-30°)	1139.5	4.1	B3/2500		
BM (30°-60°)	2503.5	9.0	B3/5000		
BH (60°-80°)	1462.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	135.8	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 Medium



REPORT NUMBER: P952047
 CATALOG NUMBER: GALN-SB6A-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3250.9	3250.9	3250.9	3250.9	3250.9	3250.9	3250.9	3250.9	3250.9	3250.9
2.5°	4070.4	4099.0	4063.3	4063.3	3943.1	3880.2	3760.1	3668.5	3504.0	3475.4
5°	4811.3	4847.0	4797.0	4775.5	4633.9	4503.8	4302.1	4103.3	3810.1	3780.1
7.5°	5384.8	5430.5	5386.2	5363.3	5237.5	5091.6	4855.6	4578.1	4164.8	4106.2
10°	5852.5	5859.6	5845.3	5853.9	5755.2	5635.1	5393.4	5070.1	4553.8	4473.7
12.5°	6117.1	6149.9	6178.6	6230.0	6212.9	6138.5	5921.1	5535.0	4965.7	4862.8
15°	6241.5	6298.7	6363.1	6481.8	6577.6	6596.2	6430.3	6034.1	5384.8	5260.4
17.5°	6285.8	6340.2	6441.7	6613.3	6819.3	6958.0	6883.7	6518.9	5799.5	5656.5
20°	6510.4	6526.1	6587.6	6750.6	6973.8	7204.0	7259.8	6985.2	6210.0	6048.4
22.5°	6990.9	6959.5	6976.6	7051.0	7211.2	7434.3	7561.6	7397.1	6631.9	6446.0
25°	7784.7	7693.2	7601.6	7515.8	7597.3	7723.2	7867.6	7809.0	7073.9	6837.9
27.5°	8787.3	8675.7	8474.1	8192.3	8093.6	8138.0	8202.3	8190.9	7482.9	7244.1
30°	9774.1	9644.0	9403.7	8996.1	8735.8	8618.5	8569.9	8537.0	7927.7	7673.1
32.5°	10562.2	10459.2	10223.2	9767.0	9389.4	9189.2	9027.6	8910.3	8392.5	8138.0
35°	11251.5	11155.7	10885.4	10387.7	9977.2	9764.1	9552.4	9302.2	8876.0	8618.5
37.5°	11880.8	11785.0	11414.6	10896.9	10483.5	10336.2	10147.4	9722.6	9360.8	9117.7
40°	12278.4	12257.0	11910.9	11324.5	10895.4	10822.5	10759.6	10210.3	9898.6	9672.6
42.5°	12380.0	12427.2	12152.6	11670.6	11261.6	11202.9	11350.2	10762.4	10502.1	10286.1
45°	12135.4	12271.3	12091.1	11763.6	11521.9	11490.4	11873.7	11366.0	11170.0	10972.7
47.5°	11516.1	11746.4	11672.0	11626.3	11591.9	11727.8	12334.2	12006.7	11926.6	11755.0
50°	10266.1	10702.3	10832.5	11121.4	11453.2	11912.3	12753.3	12706.1	12810.5	12637.4
52.5°	8105.1	8705.8	9460.9	10184.6	11027.0	11850.8	13213.8	13710.1	14150.6	14056.2
55°	6690.6	6960.9	7541.6	8868.8	10200.3	11591.9	13421.2	14521.0	15480.7	15396.3
57.5°	5603.6	5845.3	6202.9	7311.3	8950.3	11004.1	13549.9	15015.9	16391.8	16383.2
60°	4438.0	4694.0	5060.1	5845.3	7490.1	9988.7	13521.3	15579.4	17554.5	17626.0
62.5°	3122.2	3403.9	3810.1	4542.4	5998.3	8672.9	12937.8	15987.0	18923.3	19117.8
65°	2052.4	2238.3	2544.4	3176.5	4469.4	6980.9	11823.6	16039.9	20387.8	20716.7
67.5°	1438.8	1510.3	1690.5	2033.8	2946.3	5353.3	10048.7	15492.2	21364.6	21735.1
70°	1122.7	1158.5	1250.0	1387.3	1850.7	3599.9	7700.3	14067.7	21155.8	21542.0
72.5°	969.7	1004.0	1038.3	1055.5	1241.4	2222.6	5216.0	11762.1	19189.3	19451.0
75°	879.6	888.2	916.8	911.1	946.8	1441.7	3010.6	8569.9	15140.3	15050.2
77.5°	739.4	750.9	798.1	790.9	841.0	985.4	1563.2	5530.7	9815.6	9203.5
80°	626.4	632.2	683.6	675.1	730.8	713.7	798.1	2819.0	4163.4	3526.9
82.5°	217.4	268.9	522.0	537.8	557.8	431.9	460.5	1149.9	1271.5	974.0
85°	105.8	113.0	266.0	377.6	376.1	217.4	224.5	410.5	400.5	314.6
87.5°	17.2	21.5	31.5	147.3	117.3	57.2	77.2	80.1	83.0	71.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P952047
 CATALOG NUMBER: GALN-SB6A-735-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3250.9	0°	3250.9	3250.9	3250.9	3250.9	3250.9	3250.9	3250.9	3250.9	3250.9	3250.9
3366.7	2.5°	3286.6	3215.1	3065.0	2926.2	2817.5	2713.1	2654.5	2604.4	2575.8	2570.1
3524.1	5°	3375.3	3228.0	2954.8	2724.6	2574.4	2462.8	2404.2	2367.0	2348.4	2337.0
3735.7	7.5°	3502.6	3286.6	2897.6	2635.9	2478.6	2398.5	2368.4	2362.7	2361.3	2362.7
3991.7	10°	3678.5	3382.5	2891.9	2614.4	2482.9	2438.5	2437.1	2438.5	2444.2	2445.7
4270.6	12.5°	3868.7	3481.2	2914.8	2633.0	2537.2	2512.9	2508.6	2507.2	2511.5	2514.3
4552.4	15°	4076.1	3611.3	2953.4	2673.1	2597.3	2571.5	2567.2	2558.7	2557.2	2555.8
4848.4	17.5°	4289.2	3740.0	2996.3	2716.0	2635.9	2600.1	2584.4	2564.4	2548.7	2544.4
5154.5	20°	4505.2	3867.3	3026.3	2737.4	2638.8	2588.7	2557.2	2522.9	2495.7	2480.0
5463.4	22.5°	4735.5	4000.3	3044.9	2731.7	2613.0	2544.4	2487.2	2447.1	2405.6	2378.5
5775.2	25°	4960.0	4116.2	3043.5	2701.7	2563.0	2475.7	2402.8	2351.3	2294.1	2265.5
6097.0	27.5°	5176.0	4220.6	3007.8	2648.8	2491.4	2394.2	2306.9	2245.4	2189.7	2162.5
6421.7	30°	5399.1	4307.8	2952.0	2571.5	2407.1	2299.8	2204.0	2151.1	2101.0	2075.3
6764.9	32.5°	5620.8	4387.9	2873.3	2475.7	2309.8	2206.8	2112.4	2063.8	2033.8	2033.8
7133.9	35°	5855.3	4443.7	2768.9	2364.2	2206.8	2108.1	2033.8	2005.2	2002.3	1985.1
7524.4	37.5°	6102.8	4479.5	2641.6	2249.7	2105.3	2012.3	1989.4	1955.1	1926.5	1889.3
7953.5	40°	6363.1	4515.2	2488.6	2131.0	1998.0	1946.5	1936.5	1890.8	1809.2	1717.7
8439.7	42.5°	6679.1	4539.5	2329.8	2012.3	1885.0	1867.9	1882.2	1803.5	1673.4	1604.7
9026.1	45°	7045.3	4579.6	2183.9	1895.0	1769.2	1769.2	1829.3	1726.3	1619.0	1576.1
9695.5	47.5°	7520.1	4672.5	2048.1	1766.3	1661.9	1690.5	1712.0	1633.3	1573.2	1520.3
10510.7	50°	8206.6	4895.6	1907.9	1636.2	1580.4	1637.6	1607.6	1561.8	1491.7	1448.8
11806.5	52.5°	9059.0	5027.2	1783.5	1518.9	1510.3	1567.5	1524.6	1481.7	1428.8	1371.6
12789.0	55°	9639.7	5051.5	1679.1	1433.1	1463.1	1457.4	1441.7	1403.0	1374.4	1298.6
13758.7	57.5°	10289.0	5100.2	1593.3	1381.6	1433.1	1370.2	1364.4	1331.5	1294.3	1242.9
14941.5	60°	11065.6	5176.0	1518.9	1361.6	1407.3	1312.9	1284.3	1271.5	1234.3	1208.5
16364.6	62.5°	11912.3	5244.6	1443.1	1364.4	1377.3	1257.2	1214.3	1210.0	1187.1	1178.5
17700.4	65°	12490.1	5057.3	1348.7	1361.6	1330.1	1200.0	1145.6	1144.2	1125.6	1122.7
18279.7	67.5°	12288.5	4463.7	1221.4	1321.5	1281.5	1142.7	1082.7	1077.0	1052.6	1054.1
17674.7	70°	11278.7	3617.0	1045.5	1222.8	1221.4	1091.3	1016.9	998.3	965.4	971.1
15367.7	72.5°	9385.1	2680.2	809.5	1058.4	1125.6	1044.1	941.1	911.1	869.6	875.3
11344.5	75°	6777.8	1822.1	589.3	805.2	979.7	988.3	866.7	815.2	765.2	773.7
6314.4	77.5°	3468.3	1032.6	433.4	554.9	769.5	898.2	799.5	730.8	719.4	799.5
1820.7	80°	1131.3	517.7	300.3	389.0	504.9	735.1	700.8	622.1	619.3	637.9
381.9	82.5°	337.5	218.8	193.1	256.0	278.9	563.5	605.0	470.5	404.8	426.2
127.3	85°	115.8	105.8	110.1	127.3	133.0	330.4	423.3	311.8	294.6	324.7
28.6	87.5°	27.2	37.2	31.5	28.6	28.6	80.1	164.5	130.2	180.2	120.1
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>
3250.9
2570.1
2335.6
2367.0
2447.1
2515.8
2554.4
2548.7
2485.7
2379.9
2265.5
2161.1
2073.8
2035.2
1980.9
1883.6
1704.8
1606.1
1583.3
1518.9
1444.5
1360.1
1300.1
1225.7
1215.7
1178.5
1121.3
1054.1
976.8
873.9
776.6
788.1
547.8
440.5
320.4
115.8
0.0

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