

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: P947196

Luminaire Tested: **GALN-SB2C-840-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947196
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-SB2C-840-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14591 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

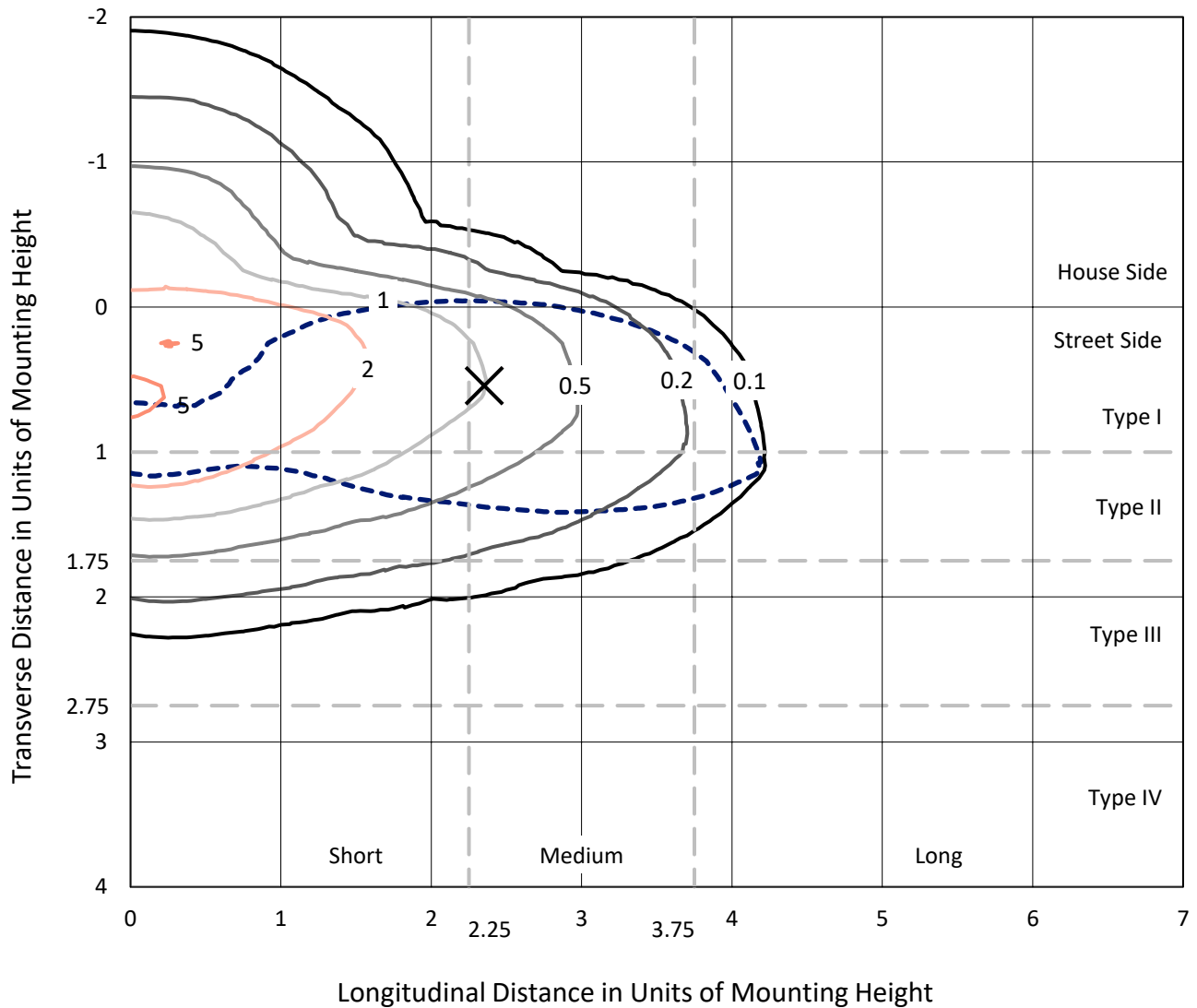
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

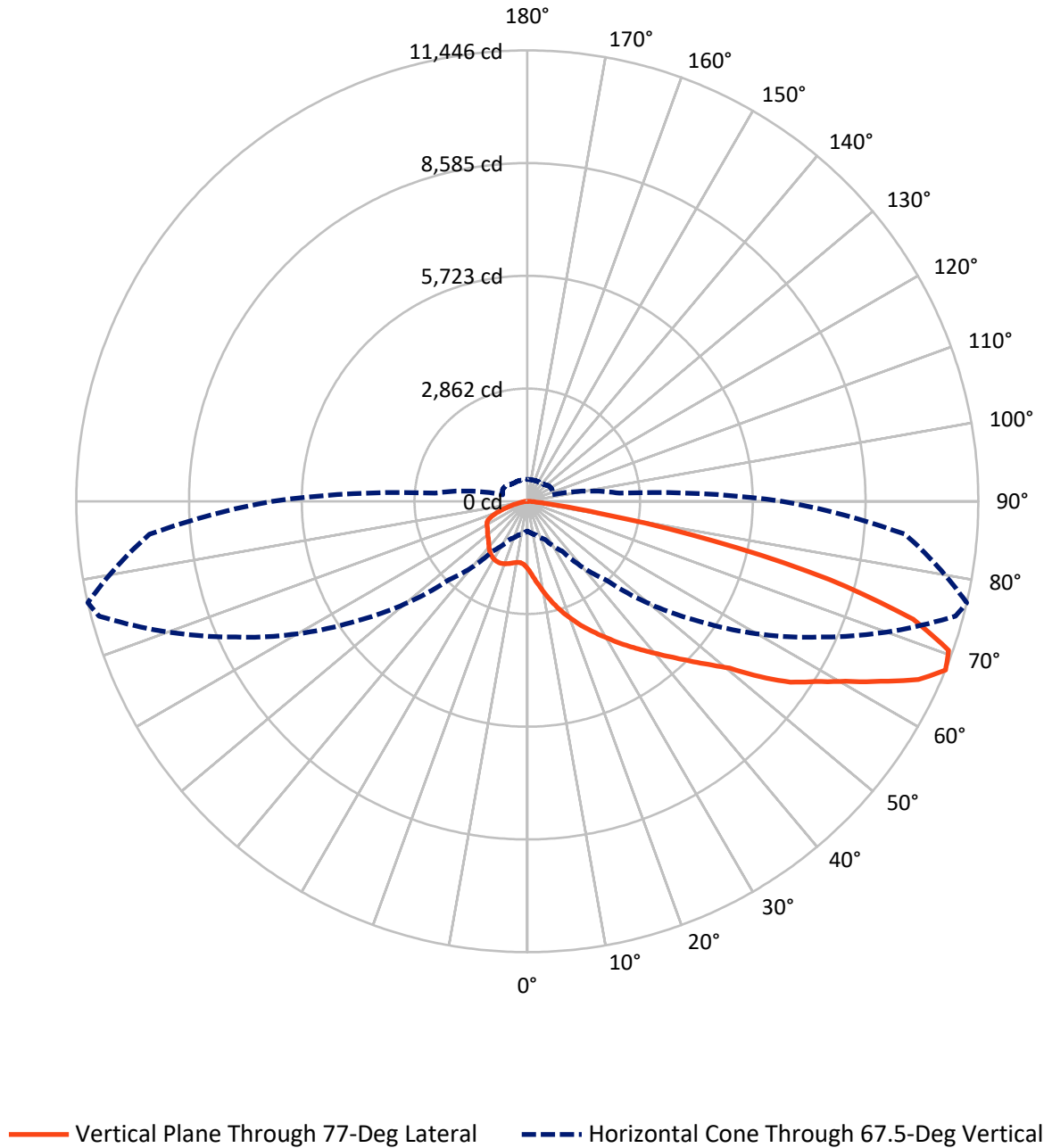
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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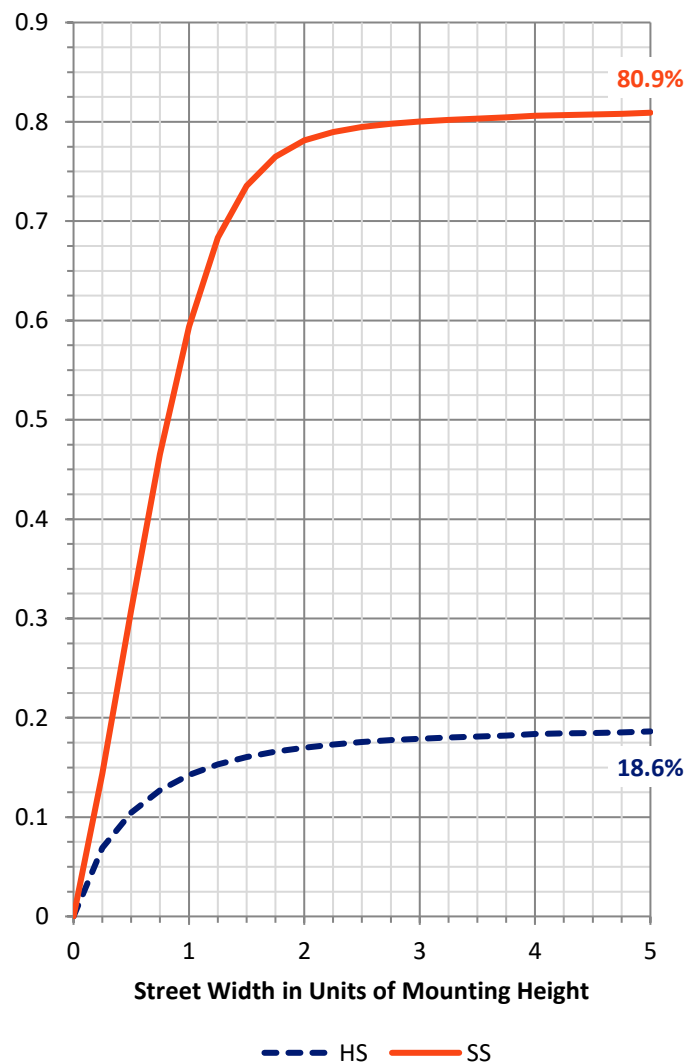
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2760.0	0.0	2760.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	11831.0	0.0	11831.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	14591.0	0.0	14591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	1.3
10°-20°	659.2	4.5
20°-30°	1244.7	8.5
30°-40°	2005.2	13.7
40°-50°	2742.8	18.8
50°-60°	3093.9	21.2
60°-70°	2887.7	19.8
70°-80°	1583.0	10.8
80°-90°	190.9	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°	14591.0	100.0
0°-180°	14591.0	100.0

Coefficient of Utilization

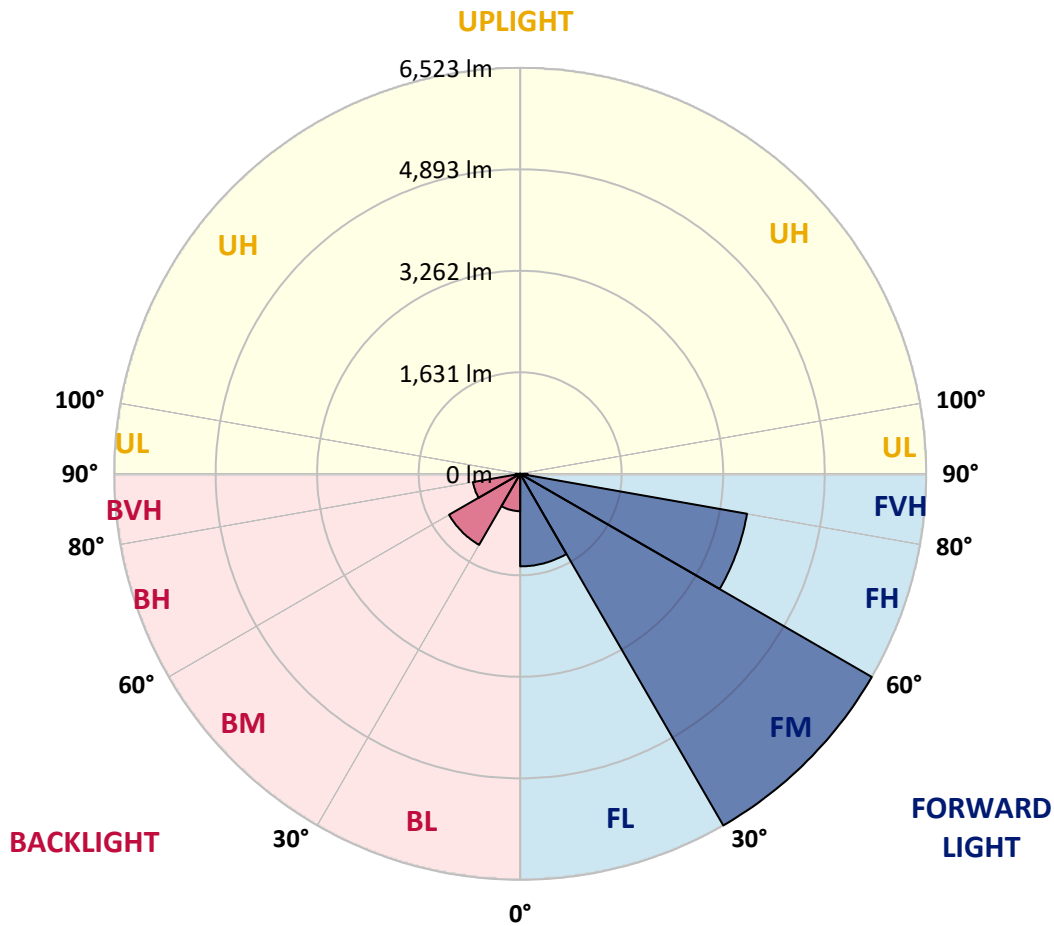


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.4	10.2			
FM (30°-60°)	6523.5	44.7			
FH (60°-80°)	3700.7	25.4			G2/5000
FVH (80°-90°)	119.4	0.8			G2/225
BL (0°-30°)	600.1	4.1	B2/1000		
BM (30°-60°)	1318.4	9.0	B2/2500		
BH (60°-80°)	770.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	71.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1712.0	1712.0	1712.0	1712.0	1712.0	1712.0	1712.0	1712.0	1712.0	1712.0
2.5°	2143.5	2158.6	2139.8	2139.8	2076.5	2043.4	1980.1	1931.9	1845.3	1830.2
5°	2533.7	2552.5	2526.2	2514.9	2440.3	2371.8	2265.6	2160.9	2006.5	1990.7
7.5°	2835.7	2859.8	2836.5	2824.4	2758.1	2681.3	2557.0	2410.9	2193.3	2162.4
10°	3082.0	3085.8	3078.2	3082.8	3030.8	2967.5	2840.2	2670.0	2398.1	2355.9
12.5°	3221.3	3238.7	3253.7	3280.9	3271.8	3232.6	3118.2	2914.8	2615.0	2560.8
15°	3286.9	3317.0	3350.9	3413.4	3463.9	3473.7	3386.3	3177.7	2835.7	2770.2
17.5°	3310.2	3338.8	3392.3	3482.7	3591.2	3664.2	3625.1	3433.0	3054.1	2978.8
20°	3428.5	3436.8	3469.1	3555.0	3672.5	3793.8	3823.1	3678.5	3270.3	3185.2
22.5°	3681.5	3665.0	3674.0	3713.2	3797.5	3915.0	3982.1	3895.4	3492.5	3394.6
25°	4099.6	4051.4	4003.2	3958.0	4000.9	4067.2	4143.2	4112.4	3725.2	3601.0
27.5°	4627.5	4568.8	4462.6	4314.2	4262.2	4285.6	4319.5	4313.5	3940.6	3814.9
30°	5147.2	5078.7	4952.2	4737.5	4600.4	4538.7	4513.1	4495.7	4174.9	4040.8
32.5°	5562.2	5508.0	5383.7	5143.5	4944.6	4839.2	4754.1	4692.3	4419.7	4285.6
35°	5925.3	5874.8	5732.5	5470.3	5254.2	5142.0	5030.5	4898.7	4674.2	4538.7
37.5°	6256.7	6206.2	6011.1	5738.5	5520.8	5443.2	5343.8	5120.1	4929.6	4801.5
40°	6466.0	6454.8	6272.5	5963.7	5737.7	5699.3	5666.2	5377.0	5212.8	5093.8
42.5°	6519.5	6544.4	6399.8	6145.9	5930.5	5899.7	5977.2	5667.7	5530.6	5416.9
45°	6390.7	6462.3	6367.4	6194.9	6067.6	6051.0	6252.9	5985.5	5882.3	5778.4
47.5°	6064.6	6185.9	6146.7	6122.6	6104.5	6176.1	6495.4	6322.9	6280.8	6190.4
50°	5406.3	5636.0	5704.6	5856.7	6031.5	6273.2	6716.1	6691.2	6746.2	6655.1
52.5°	4268.3	4584.6	4982.3	5363.4	5807.0	6240.8	6958.6	7220.0	7452.0	7402.3
55°	3523.4	3665.7	3971.5	4670.5	5371.7	6104.5	7067.8	7647.0	8152.4	8108.0
57.5°	2951.0	3078.2	3266.5	3850.3	4713.4	5795.0	7135.6	7907.6	8632.2	8627.7
60°	2337.1	2471.9	2664.8	3078.2	3944.4	5260.2	7120.6	8204.4	9244.5	9282.2
62.5°	1644.2	1792.6	2006.5	2392.1	3158.8	4567.3	6813.3	8419.0	9965.3	10067.8
65°	1080.8	1178.7	1339.9	1672.8	2353.7	3676.3	6226.5	8446.9	10736.6	10909.8
67.5°	757.7	795.4	890.3	1071.0	1551.6	2819.2	5291.8	8158.4	11251.0	11446.1
70°	591.2	610.1	658.3	730.6	974.6	1895.8	4055.1	7408.3	11141.0	11344.4
72.5°	510.7	528.7	546.8	555.8	653.8	1170.4	2746.8	6194.2	10105.4	10243.2
75°	463.2	467.7	482.8	479.8	498.6	759.2	1585.4	4513.1	7973.2	7925.7
77.5°	389.4	395.4	420.3	416.5	442.9	518.9	823.2	2912.5	5169.1	4846.7
80°	329.9	332.9	360.0	355.5	384.9	375.8	420.3	1484.5	2192.5	1857.3
82.5°	114.5	141.6	274.9	283.2	293.7	227.5	242.5	605.6	669.6	512.9
85°	55.7	59.5	140.1	198.8	198.1	114.5	118.2	216.2	210.9	165.7
87.5°	9.0	11.3	16.6	77.6	61.8	30.1	40.7	42.2	43.7	37.7
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°
1712.0	0°	1712.0	1712.0	1712.0	1712.0	1712.0	1712.0	1712.0	1712.0	1712.0	1712.0
1773.0	2.5°	1730.8	1693.1	1614.1	1541.0	1483.8	1428.8	1397.9	1371.5	1356.5	1353.5
1855.8	5°	1777.5	1699.9	1556.1	1434.8	1355.7	1297.0	1266.1	1246.5	1236.7	1230.7
1967.3	7.5°	1844.5	1730.8	1525.9	1388.1	1305.3	1263.1	1247.3	1244.3	1243.5	1244.3
2102.1	10°	1937.2	1781.3	1522.9	1376.8	1307.5	1284.2	1283.4	1284.2	1287.2	1287.9
2249.0	12.5°	2037.4	1833.2	1535.0	1386.6	1336.1	1323.3	1321.1	1320.3	1322.6	1324.1
2397.4	15°	2146.6	1901.8	1555.3	1407.7	1367.8	1354.2	1352.0	1347.4	1346.7	1345.9
2553.3	17.5°	2258.8	1969.6	1577.9	1430.3	1388.1	1369.3	1361.0	1350.5	1342.2	1339.9
2714.5	20°	2372.5	2036.6	1593.7	1441.6	1389.6	1363.3	1346.7	1328.6	1314.3	1306.0
2877.1	22.5°	2493.8	2106.6	1603.5	1438.6	1376.1	1339.9	1309.8	1288.7	1266.8	1252.5
3041.3	25°	2612.0	2167.7	1602.8	1422.8	1349.7	1303.8	1265.3	1238.2	1208.1	1193.0
3210.8	27.5°	2725.8	2222.6	1583.9	1394.9	1312.0	1260.8	1214.9	1182.5	1153.1	1138.8
3381.8	30°	2843.3	2268.6	1554.6	1354.2	1267.6	1211.1	1160.7	1132.8	1106.4	1092.9
3562.5	32.5°	2960.0	2310.8	1513.1	1303.8	1216.4	1162.2	1112.4	1086.8	1071.0	1071.0
3756.9	35°	3083.5	2340.1	1458.2	1245.0	1162.2	1110.2	1071.0	1056.0	1054.5	1045.4
3962.5	37.5°	3213.8	2359.0	1391.1	1184.8	1108.7	1059.7	1047.7	1029.6	1014.5	995.0
4188.4	40°	3350.9	2377.8	1310.5	1122.2	1052.2	1025.1	1019.8	995.7	952.8	904.6
4444.5	42.5°	3517.3	2390.6	1226.9	1059.7	992.7	983.7	991.2	949.8	881.2	845.1
4753.3	45°	3710.2	2411.7	1150.1	998.0	931.7	931.7	963.3	909.1	852.6	830.0
5105.8	47.5°	3960.2	2460.6	1078.6	930.2	875.2	890.3	901.6	860.1	828.5	800.6
5535.1	50°	4321.7	2578.1	1004.7	861.6	832.3	862.4	846.6	822.5	785.6	763.0
6217.5	52.5°	4770.6	2647.4	939.2	799.9	795.4	825.5	802.9	780.3	752.4	722.3
6734.9	55°	5076.4	2660.2	884.2	754.7	770.5	767.5	759.2	738.9	723.8	683.9
7245.6	57.5°	5418.4	2685.8	839.0	727.6	754.7	721.5	718.5	701.2	681.6	654.5
7868.5	60°	5827.4	2725.8	799.9	717.0	741.1	691.4	676.4	669.6	650.0	636.4
8617.9	62.5°	6273.2	2761.9	760.0	718.5	725.3	662.0	639.4	637.2	625.1	620.6
9321.4	65°	6577.5	2663.2	710.2	717.0	700.5	631.9	603.3	602.5	592.8	591.2
9626.4	67.5°	6471.3	2350.7	643.2	695.9	674.8	601.8	570.2	567.1	554.3	555.1
9307.8	70°	5939.6	1904.8	550.6	644.0	643.2	574.7	535.5	525.7	508.4	511.4
8092.9	72.5°	4942.4	1411.5	426.3	557.4	592.8	549.8	495.6	479.8	457.9	460.9
5974.2	75°	3569.3	959.6	310.3	424.0	515.9	520.4	456.4	429.3	403.0	407.5
3325.3	77.5°	1826.5	543.8	228.2	292.2	405.2	473.0	421.0	384.9	378.8	421.0
958.8	80°	595.8	272.7	158.2	204.9	265.9	387.1	369.1	327.6	326.1	335.9
201.1	82.5°	177.8	115.2	101.7	134.8	146.9	296.8	318.6	247.8	213.1	224.4
67.0	85°	61.0	55.7	58.0	67.0	70.0	174.0	222.9	164.2	155.2	171.0
15.1	87.5°	14.3	19.6	16.6	15.1	15.1	42.2	86.6	68.5	94.9	63.3
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>
1712.0
1353.5
1229.9
1246.5
1288.7
1324.8
1345.2
1342.2
1309.0
1253.3
1193.0
1138.1
1092.1
1071.8
1043.2
991.9
897.8
845.8
833.8
799.9
760.7
716.3
684.6
645.5
640.2
620.6
590.5
555.1
514.4
460.2
409.0
415.0
288.5
232.0
168.7
61.0
0.0

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