

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: P952404

Luminaire Tested: **GALN-SB6B-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952404
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-SB6B-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34780 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

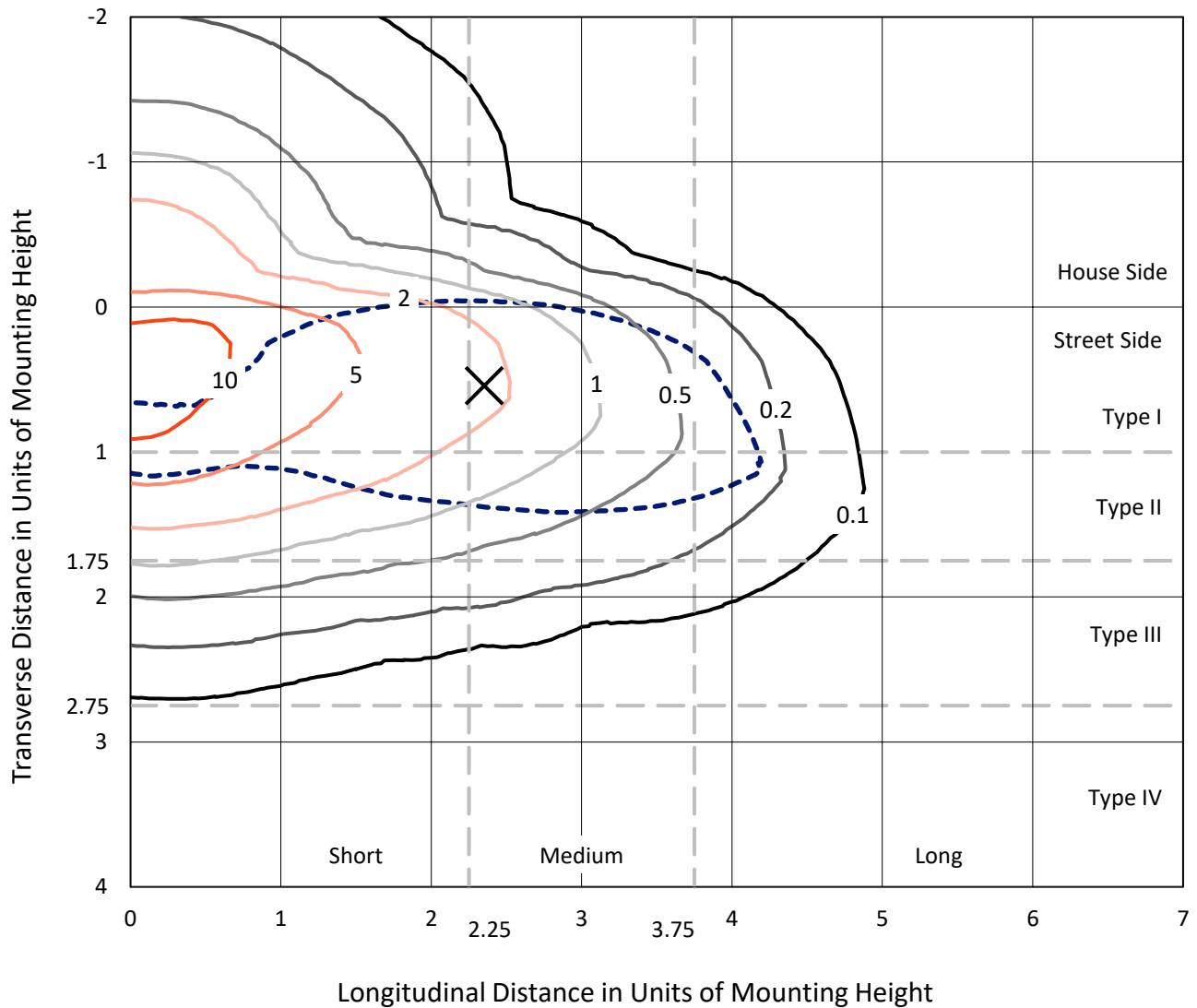
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P952404
 CATALOG NUMBER: GALN-SB6B-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

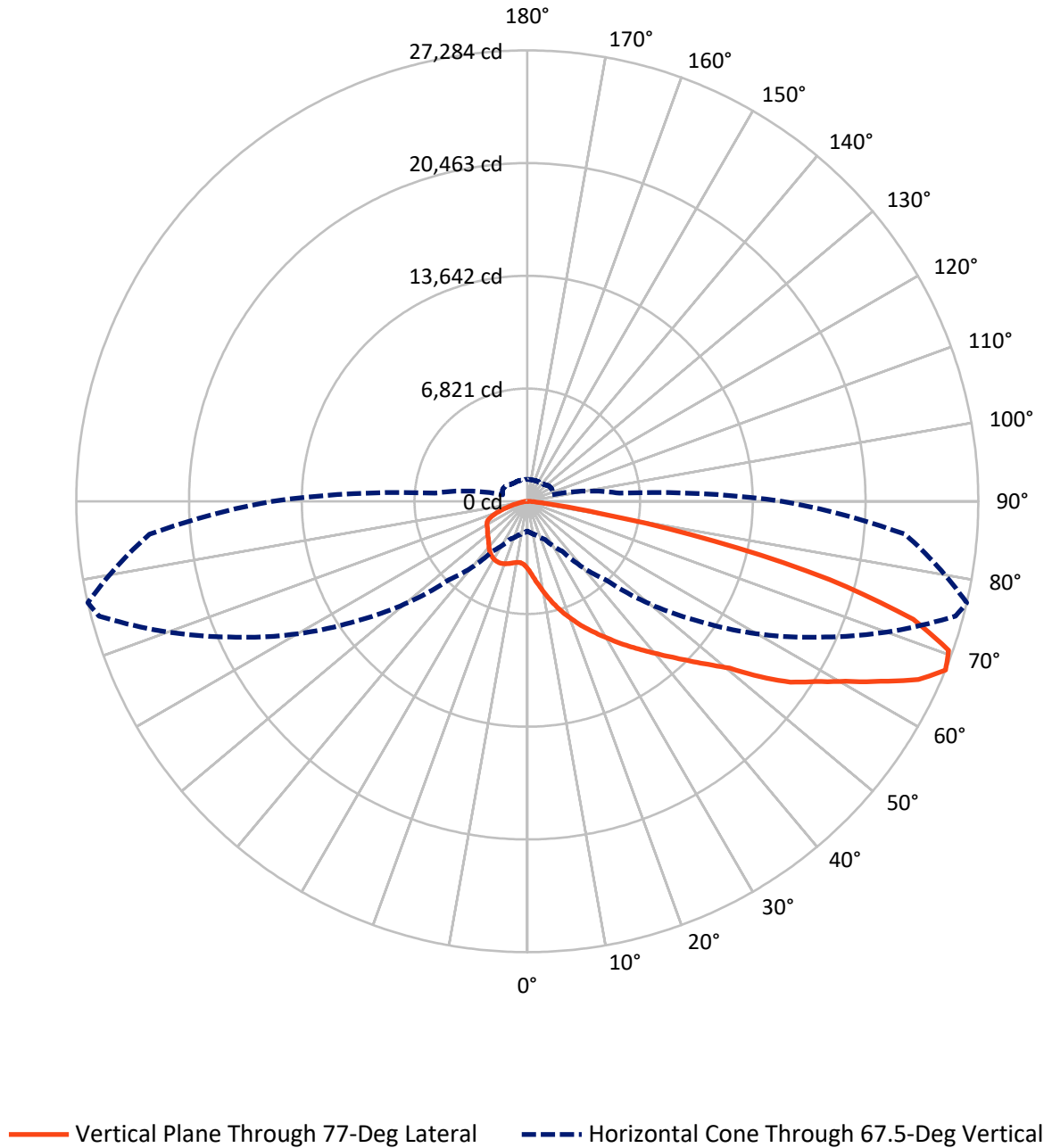
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P952404
CATALOG NUMBER: GALN-SB6B-735-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P952404

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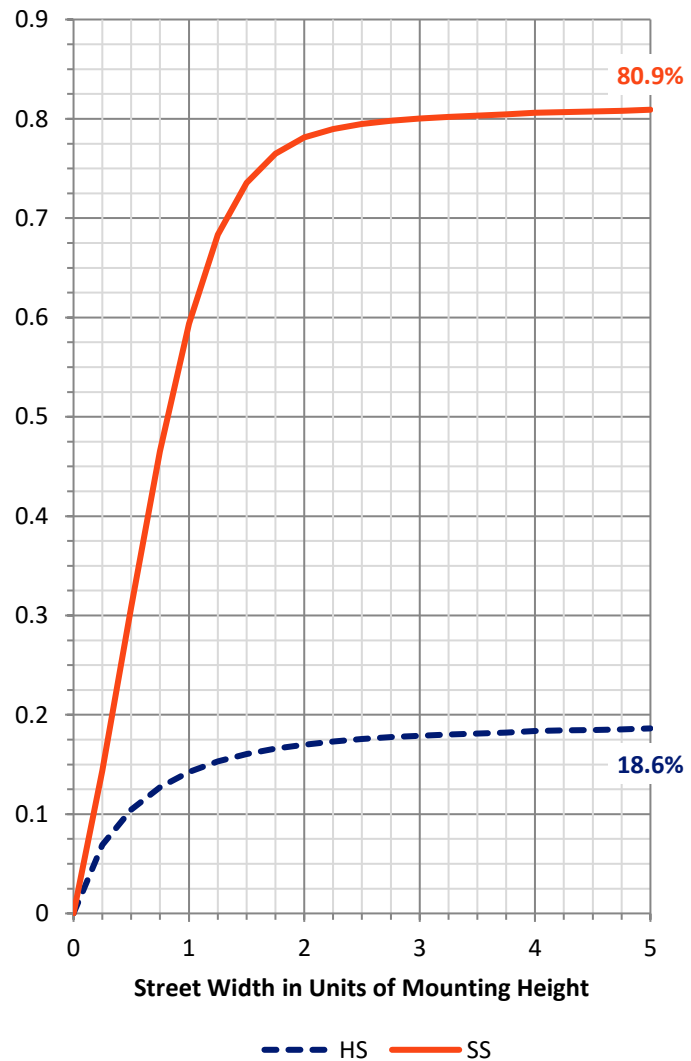
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6579.0	0.0	6579.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	28201.0	0.0	28201.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	34780.0	0.0	34780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.4	1.3
10°-20°	1571.4	4.5
20°-30°	2967.0	8.5
30°-40°	4779.8	13.7
40°-50°	6537.9	18.8
50°-60°	7374.7	21.2
60°-70°	6883.4	19.8
70°-80°	3773.3	10.8
80°-90°	455.1	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°	34780.0	100.0
0°-180°	34780.0	100.0

Coefficient of Utilization



REPORT NUMBER: P952404

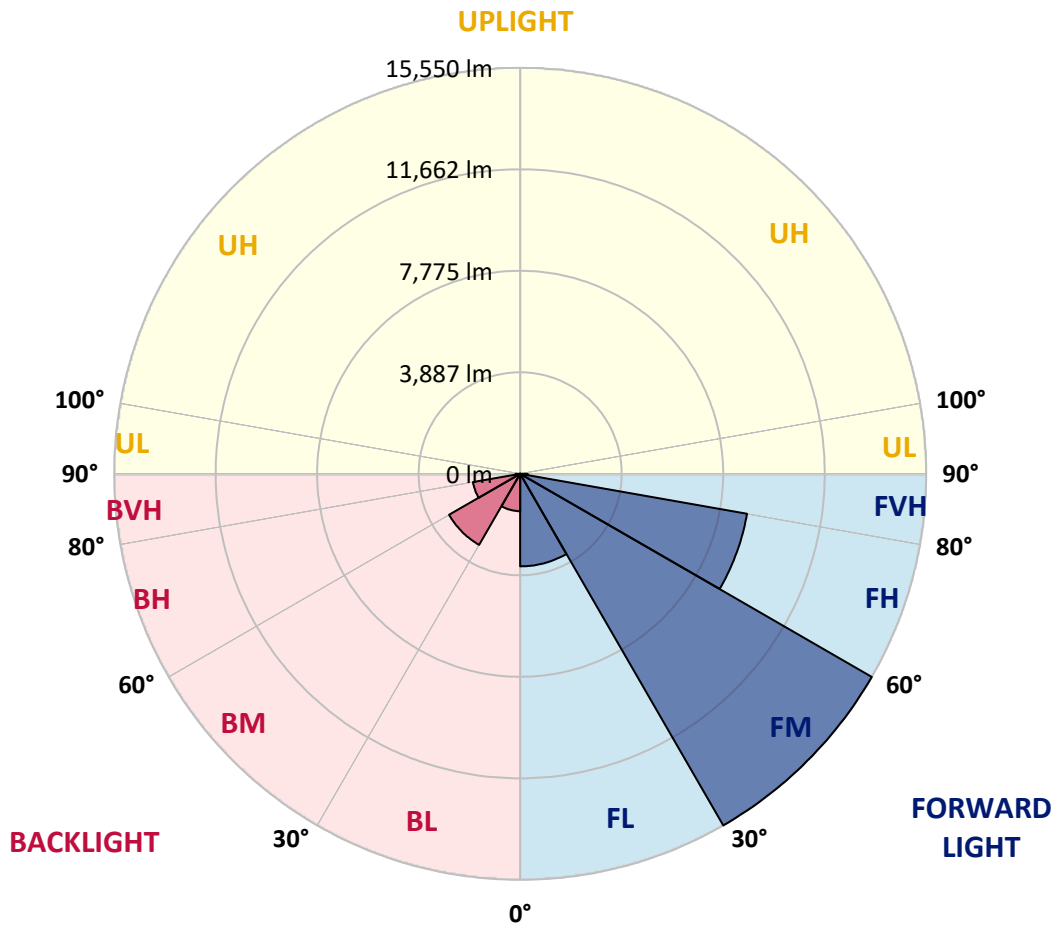
CATALOG NUMBER: GALN-SB6B-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3545.4	10.2			
FM (30°-60°)	15549.8	44.7			
FH (60°-80°)	8821.2	25.4			G4/12000
FVH (80°-90°)	284.6	0.8			G3/500
BL (0°-30°)	1430.4	4.1	B3/2500		
BM (30°-60°)	3142.6	9.0	B3/5000		
BH (60°-80°)	1835.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	170.5	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-G4

Type II Medium



REPORT NUMBER: P952404
 CATALOG NUMBER: GALN-SB6B-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4080.8	4080.8	4080.8	4080.8	4080.8	4080.8	4080.8	4080.8	4080.8	4080.8
2.5°	5109.5	5145.4	5100.5	5100.5	4949.7	4870.7	4719.9	4605.0	4398.5	4362.6
5°	6039.5	6084.4	6021.5	5994.6	5816.9	5653.5	5400.3	5150.8	4782.7	4745.0
7.5°	6759.4	6816.9	6761.2	6732.5	6574.5	6391.4	6095.1	5746.8	5228.0	5154.4
10°	7346.5	7355.4	7337.5	7348.3	7224.4	7073.6	6770.2	6364.4	5716.3	5615.8
12.5°	7678.6	7719.9	7755.8	7820.4	7798.9	7705.5	7432.6	6947.9	6233.4	6104.1
15°	7834.8	7906.6	7987.4	8136.4	8256.7	8280.0	8071.8	7574.5	6759.4	6603.2
17.5°	7890.5	7958.7	8086.1	8301.6	8560.1	8734.3	8640.9	8183.1	7280.0	7100.5
20°	8172.3	8192.1	8269.3	8473.9	8754.0	9043.1	9113.1	8768.4	7795.3	7592.4
22.5°	8775.6	8736.1	8757.6	8851.0	9052.0	9332.1	9491.9	9285.4	8324.9	8091.5
25°	9772.0	9657.1	9542.2	9434.4	9536.8	9694.8	9876.1	9802.5	8879.7	8583.5
27.5°	11030.5	10890.4	10637.3	10283.6	10159.7	10215.4	10296.2	10281.8	9393.1	9093.3
30°	12269.3	12105.9	11804.3	11292.6	10965.8	10818.6	10757.6	10716.3	9951.5	9631.9
32.5°	13258.5	13129.2	12833.0	12260.3	11786.3	11535.0	11332.1	11184.9	10535.0	10215.4
35°	14123.8	14003.5	13664.2	13039.4	12524.2	12256.7	11991.0	11676.8	11141.8	10818.6
37.5°	14913.8	14793.5	14328.5	13678.6	13159.7	12974.8	12737.8	12204.6	11750.4	11445.2
40°	15412.9	15385.9	14951.5	14215.4	13676.8	13585.2	13506.2	12816.8	12425.4	12141.8
42.5°	15540.3	15599.6	15254.9	14649.9	14136.4	14062.8	14247.7	13509.8	13183.1	12912.0
45°	15233.3	15403.9	15177.7	14766.6	14463.1	14423.6	14904.8	14267.5	14021.5	13773.7
47.5°	14456.0	14745.0	14651.7	14594.2	14551.1	14721.7	15482.9	15071.8	14971.2	14755.8
50°	12886.8	13434.4	13597.8	13960.4	14377.0	14953.3	16008.9	15949.7	16080.7	15863.5
52.5°	10174.1	10928.1	11876.1	12784.5	13842.0	14876.1	16587.0	17210.0	17762.9	17644.5
55°	8398.5	8737.8	9466.8	11132.8	12804.3	14551.1	16847.3	18227.9	19432.6	19326.7
57.5°	7034.1	7337.5	7786.3	9177.7	11235.1	13813.2	17008.9	18849.1	20576.2	20565.5
60°	5570.9	5892.3	6351.9	7337.5	9402.1	12538.6	16973.0	19556.5	22035.8	22125.6
62.5°	3919.2	4272.9	4782.7	5702.0	7529.6	10886.9	16240.5	20068.1	23753.9	23998.1
65°	2576.3	2809.7	3193.9	3987.4	5610.4	8763.0	14842.0	20134.6	25592.4	26005.3
67.5°	1806.1	1895.9	2122.1	2553.0	3698.4	6719.9	12614.0	19447.0	26818.6	27283.6
70°	1409.3	1454.2	1569.1	1741.5	2323.2	4518.8	9666.0	17658.8	26556.5	27041.2
72.5°	1217.2	1260.3	1303.4	1325.0	1558.3	2789.9	6547.6	14764.8	24087.9	24416.4
75°	1104.1	1114.9	1150.8	1143.6	1188.5	1809.7	3779.2	10757.6	19005.3	18892.2
77.5°	928.2	942.5	1001.8	992.8	1055.7	1237.0	1962.3	6942.5	12321.3	11552.9
80°	786.4	793.5	858.2	847.4	917.4	895.9	1001.8	3538.6	5226.2	4427.3
82.5°	272.9	337.5	655.3	675.0	700.2	542.2	578.1	1443.4	1596.0	1222.6
85°	132.9	141.8	333.9	474.0	472.2	272.9	281.9	515.3	502.7	395.0
87.5°	21.5	26.9	39.5	184.9	147.2	71.8	96.9	100.5	104.1	89.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P952404
 CATALOG NUMBER: GALN-SB6B-735-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4080.8	0°	4080.8	4080.8	4080.8	4080.8	4080.8	4080.8	4080.8	4080.8	4080.8	4080.8
4226.2	2.5°	4125.7	4035.9	3847.4	3673.2	3536.8	3405.7	3332.1	3269.3	3233.4	3226.2
4423.7	5°	4237.0	4052.0	3709.1	3420.1	3231.6	3091.6	3017.9	2971.3	2947.9	2933.6
4689.4	7.5°	4396.8	4125.7	3637.3	3308.8	3111.3	3010.8	2973.1	2965.9	2964.1	2965.9
5010.8	10°	4617.6	4245.9	3630.1	3281.9	3116.7	3061.0	3059.2	3061.0	3068.2	3070.0
5360.8	12.5°	4856.4	4369.8	3658.9	3305.2	3184.9	3154.4	3149.0	3147.2	3152.6	3156.2
5714.5	15°	5116.7	4533.2	3707.3	3355.5	3260.3	3228.0	3222.6	3211.8	3210.0	3208.2
6086.2	17.5°	5384.2	4694.8	3761.2	3409.3	3308.8	3263.9	3244.2	3219.0	3199.3	3193.9
6470.4	20°	5655.3	4854.6	3798.9	3436.3	3312.4	3249.5	3210.0	3167.0	3132.8	3113.1
6858.1	22.5°	5944.3	5021.5	3822.2	3429.1	3280.1	3193.9	3122.1	3071.8	3019.7	2985.6
7249.5	25°	6226.2	5166.9	3820.5	3391.4	3217.2	3107.7	3016.1	2951.5	2879.7	2843.8
7653.5	27.5°	6497.3	5298.0	3775.6	3324.9	3127.5	3005.4	2895.9	2818.7	2748.6	2714.5
8061.0	30°	6777.4	5407.5	3705.6	3228.0	3021.5	2886.9	2766.6	2700.2	2637.3	2605.0
8491.9	32.5°	7055.6	5508.1	3606.8	3107.7	2899.5	2770.2	2651.7	2590.7	2553.0	2553.0
8955.1	35°	7350.1	5578.1	3475.7	2967.7	2770.2	2646.3	2553.0	2517.0	2513.5	2491.9
9445.2	37.5°	7660.7	5623.0	3316.0	2824.0	2642.7	2526.0	2497.3	2454.2	2418.3	2371.6
9983.8	40°	7987.4	5667.8	3123.9	2675.0	2508.1	2443.4	2430.9	2373.4	2271.1	2156.2
10594.2	42.5°	8384.2	5698.4	2924.6	2526.0	2366.2	2344.7	2362.6	2263.9	2100.5	2014.4
11330.3	45°	8843.8	5748.6	2741.5	2378.8	2220.8	2220.8	2296.2	2167.0	2032.3	1978.4
12170.5	47.5°	9439.8	5865.3	2570.9	2217.2	2086.2	2122.1	2149.0	2050.3	1974.9	1908.4
13193.8	50°	10301.6	6145.4	2395.0	2053.9	1983.8	2055.6	2017.9	1960.5	1872.5	1818.7
14820.4	52.5°	11371.6	6310.6	2238.8	1906.6	1895.9	1967.7	1913.8	1860.0	1793.5	1721.7
16053.8	55°	12100.5	6341.1	2107.7	1798.9	1836.6	1829.4	1809.7	1761.2	1725.3	1630.2
17271.0	57.5°	12915.6	6402.1	2000.0	1734.3	1798.9	1719.9	1712.7	1671.4	1624.8	1560.1
18755.8	60°	13890.4	6497.3	1906.6	1709.1	1766.6	1648.1	1612.2	1596.0	1549.4	1517.0
20542.1	62.5°	14953.3	6583.5	1811.5	1712.7	1728.9	1578.1	1524.2	1518.8	1490.1	1479.3
22218.9	65°	15678.6	6348.3	1693.0	1709.1	1669.7	1506.3	1438.1	1436.3	1412.9	1409.3
22946.1	67.5°	15425.4	5603.2	1533.2	1658.9	1608.6	1434.5	1359.1	1351.9	1321.4	1323.2
22186.6	70°	14157.9	4540.4	1312.4	1535.0	1533.2	1369.8	1276.5	1253.1	1211.8	1219.0
19290.8	72.5°	11780.9	3364.4	1016.2	1328.5	1412.9	1310.6	1181.3	1143.6	1091.6	1098.7
14240.5	75°	8508.0	2287.2	739.7	1010.8	1229.8	1240.6	1088.0	1023.3	960.5	971.3
7926.4	77.5°	4353.7	1296.2	544.0	696.6	965.9	1127.5	1003.6	917.4	903.0	1003.6
2285.4	80°	1420.1	649.9	377.0	488.3	633.7	922.8	879.7	781.0	777.4	800.7
479.4	82.5°	423.7	274.7	242.4	321.4	350.1	707.4	759.4	590.7	508.1	535.0
159.8	85°	145.4	132.9	138.2	159.8	167.0	414.7	531.4	391.4	369.8	407.5
35.9	87.5°	34.1	46.7	39.5	35.9	35.9	100.5	206.5	163.4	226.2	150.8
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>
4080.8
3226.2
2931.8
2971.3
3071.8
3158.0
3206.5
3199.3
3120.3
2987.4
2843.8
2712.7
2603.2
2554.7
2486.5
2364.4
2140.0
2016.2
1987.4
1906.6
1813.3
1707.4
1632.0
1538.6
1526.0
1479.3
1407.5
1323.2
1226.2
1096.9
974.9
989.2
687.6
553.0
402.2
145.4
0.0

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