

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: P940345

Luminaire Tested: **GALN-SB3B-840-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940345
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-SB3B-840-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16013 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

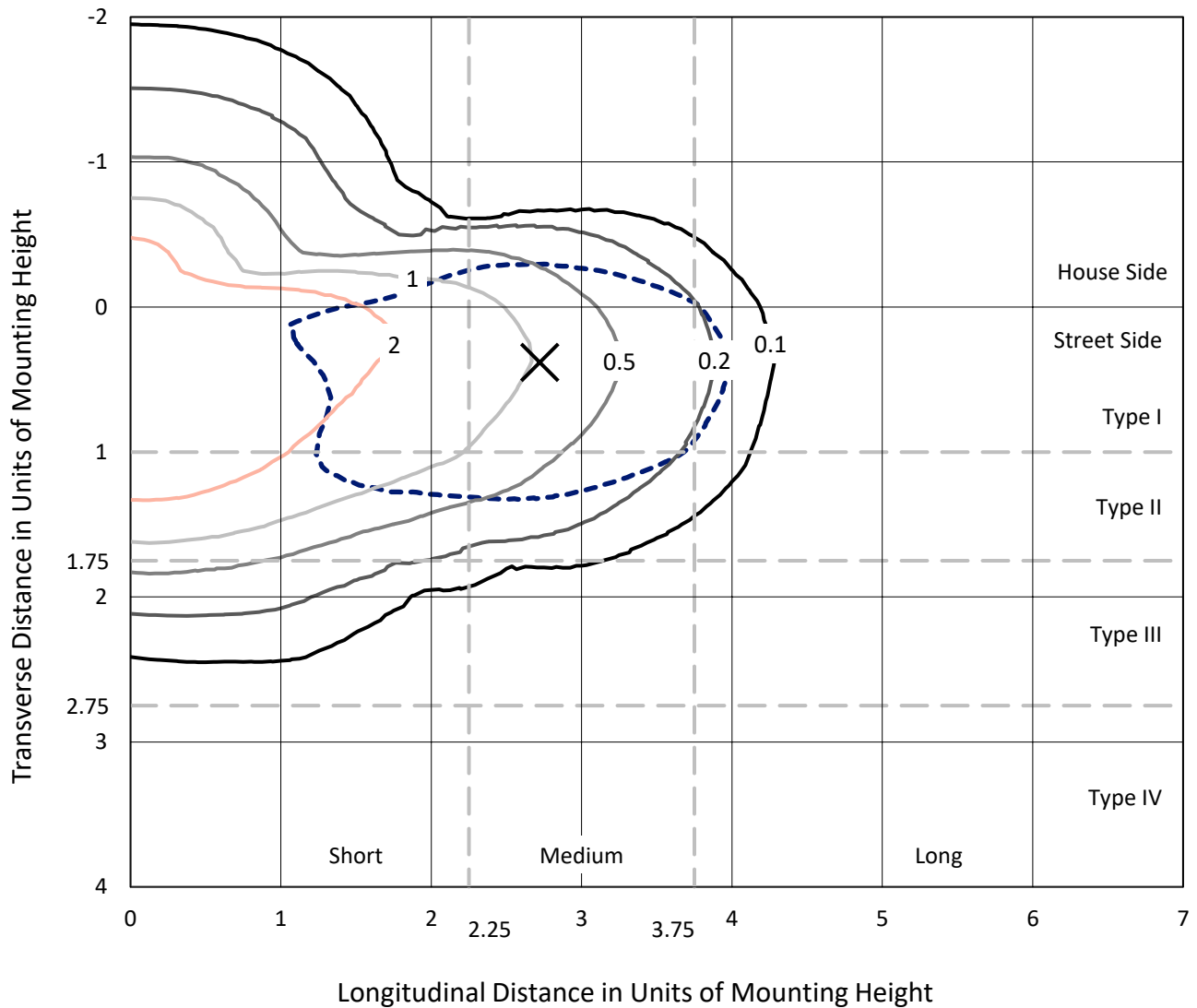
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940345
 CATALOG NUMBER: GALN-SB3B-840-U-T2

Iso-Footcandle Lines of Horizontal Illumination

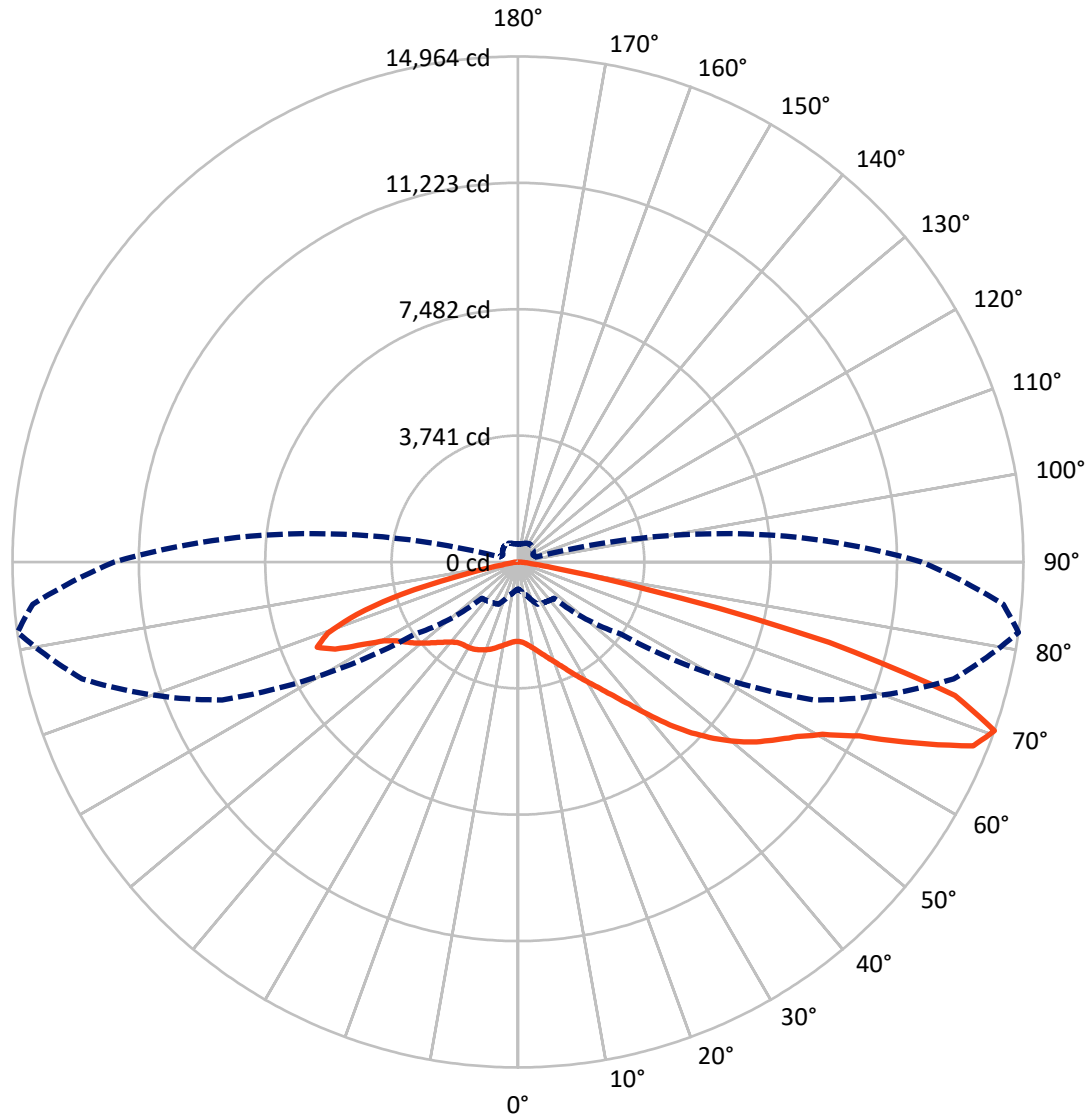
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P940345
CATALOG NUMBER: GALN-SB3B-840-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P940345
 CATALOG NUMBER: GALN-SB3B-840-U-T2

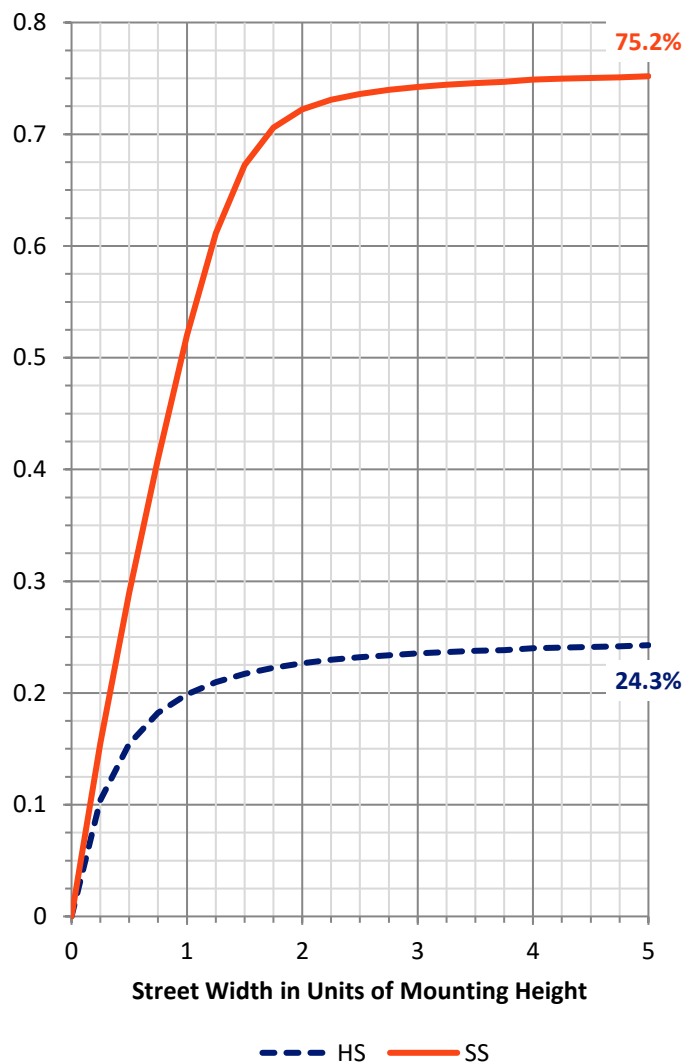
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3947.6	0.0	3947.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	12065.4	0.0	12065.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	16013.0	0.0	16013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.7	1.4
10°-20°	636.9	4.0
20°-30°	1065.4	6.7
30°-40°	1664.4	10.4
40°-50°	2650.8	16.6
50°-60°	3688.9	23.0
60°-70°	3858.8	24.1
70°-80°	2016.8	12.6
80°-90°	209.4	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°	16013.0	100.0
0°-180°	16013.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940345

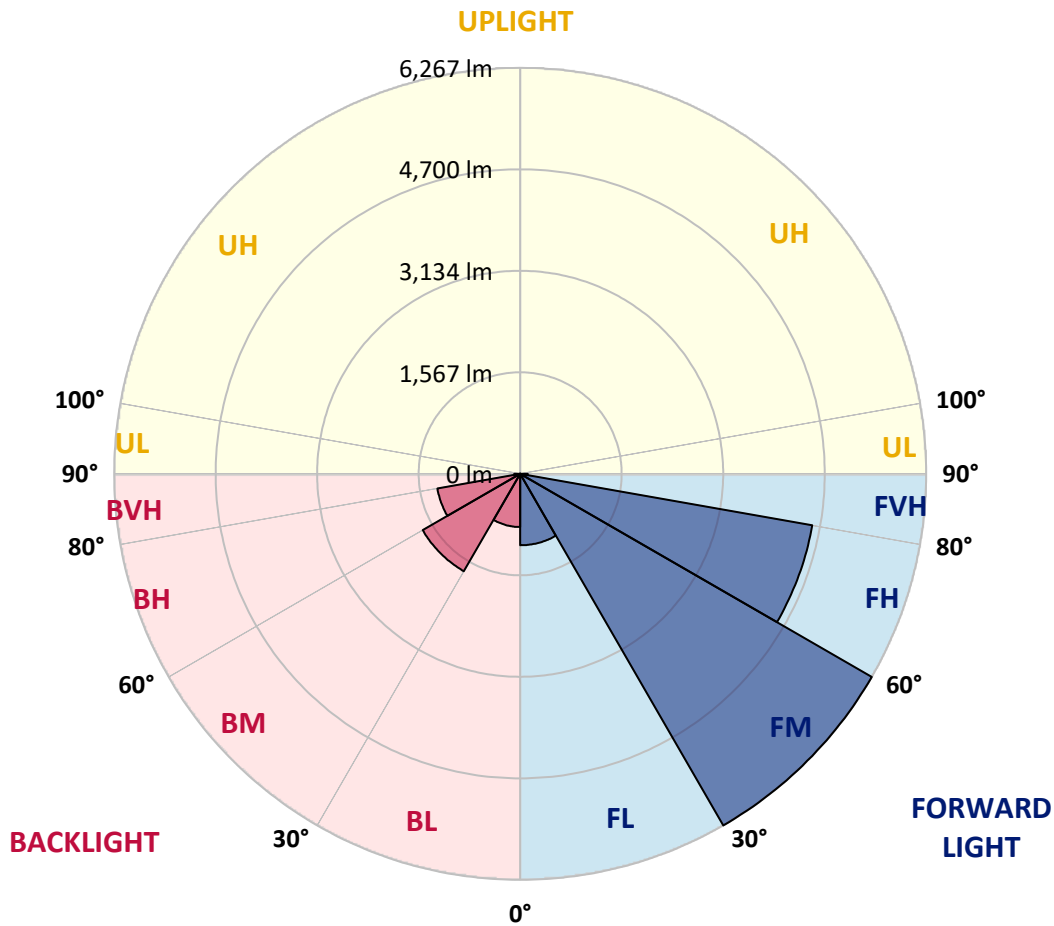
CATALOG NUMBER: GALN-SB3B-840-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1102.7	6.9			
FM (30°-60°)	6267.3	39.1			
FH (60°-80°)	4578.2	28.6			G2/5000
FVH (80°-90°)	117.2	0.7			G2/225
BL (0°-30°)	821.2	5.1	B2/1000		
BM (30°-60°)	1736.8	10.8	B2/2500		
BH (60°-80°)	1297.4	8.1	B3/2500		G3/2500
BVH (80°-90°)	92.2	0.6			G1/100
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: P940345

CATALOG NUMBER: GALN-SB3B-840-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7
2.5°	2403.8	2417.4	2413.1	2408.9	2408.9	2402.9	2402.1	2393.6	2386.8	2375.7
5°	2434.4	2448.8	2447.1	2450.5	2461.6	2464.1	2466.7	2461.6	2448.0	2434.4
7.5°	2407.2	2423.3	2428.4	2448.8	2482.8	2513.4	2536.3	2545.7	2532.9	2513.4
10°	2315.4	2333.3	2351.1	2399.5	2459.9	2532.1	2593.3	2629.8	2627.3	2608.6
12.5°	2129.3	2148.0	2186.3	2280.6	2391.0	2518.5	2632.4	2708.8	2735.2	2721.6
15°	1980.6	1996.8	2025.7	2122.5	2266.1	2459.9	2646.8	2795.5	2862.6	2855.0
17.5°	1976.4	1983.2	2001.0	2046.9	2157.4	2368.1	2631.5	2880.5	3008.8	3007.9
20°	2051.2	2053.7	2063.9	2073.3	2136.1	2298.4	2592.4	2951.0	3172.8	3172.8
22.5°	2154.8	2153.1	2163.3	2154.8	2185.4	2292.5	2567.8	3013.0	3355.4	3369.0
25°	2310.3	2301.8	2299.3	2279.7	2285.7	2347.7	2595.0	3083.5	3572.1	3600.2
27.5°	2517.6	2504.0	2494.7	2449.7	2434.4	2461.6	2678.2	3168.5	3813.4	3861.9
30°	2787.8	2763.2	2749.6	2671.4	2616.2	2620.5	2804.0	3281.5	4065.8	4144.0
32.5°	3156.6	3118.4	3081.8	2953.5	2852.4	2819.3	2966.3	3437.9	4339.4	4464.3
35°	3569.6	3539.0	3499.9	3301.9	3146.4	3069.9	3185.5	3656.2	4659.7	4857.7
37.5°	3967.2	3940.9	3959.6	3692.8	3492.2	3380.9	3472.7	3949.4	5054.8	5347.1
40°	4378.5	4358.1	4360.6	4105.7	3872.1	3747.2	3821.1	4317.3	5507.7	5929.2
42.5°	4825.4	4810.1	4759.1	4533.1	4270.6	4154.2	4222.1	4742.1	5993.7	6591.9
45°	5325.9	5316.5	5269.0	5009.8	4709.0	4578.2	4669.9	5211.2	6482.3	7215.6
47.5°	5758.4	5766.0	5760.1	5541.7	5229.9	5037.8	5147.4	5700.6	6936.9	7801.9
50°	5966.6	6006.5	6065.1	5997.1	5803.4	5608.0	5629.2	6173.0	7370.3	8351.6
52.5°	5857.8	5933.4	6093.2	6201.9	6276.7	6235.9	6179.0	6642.1	7778.1	8847.9
55°	5452.5	5558.7	5823.8	6086.4	6467.9	6764.4	6839.2	7162.1	8175.8	9284.6
57.5°	4714.1	4886.6	5124.5	5655.6	6297.9	7020.2	7609.0	7883.5	8597.2	9751.1
60°	3448.1	3679.2	3974.9	4765.1	5703.1	6883.4	8264.1	8991.5	9196.2	10355.2
62.5°	2206.7	2349.4	2621.3	3365.6	4443.9	6182.4	8464.7	10376.5	10211.6	11346.0
65°	1510.8	1602.5	1851.5	2269.5	2872.8	4601.9	7927.7	11414.8	11824.3	12916.2
67.5°	1097.8	1167.5	1379.9	1746.1	1871.9	2723.3	6151.8	11367.2	13392.0	14534.0
70°	800.4	849.7	1028.1	1379.9	1440.2	1515.0	3726.8	9662.7	13358.0	14964.0
72.5°	593.1	627.1	746.9	1070.6	1165.8	1023.0	1844.7	7022.7	11478.5	13534.8
75°	429.1	454.6	543.0	819.1	933.0	779.2	920.2	4104.0	8006.7	9520.8
77.5°	328.0	347.5	405.3	599.9	746.9	584.6	571.0	1888.0	3796.4	3815.1
80°	263.4	276.2	307.6	422.3	572.7	437.6	372.2	762.2	1199.8	1015.4
82.5°	193.7	215.0	260.0	296.5	409.6	301.6	226.9	384.9	456.3	392.6
85°	110.5	124.9	157.2	212.4	261.7	184.4	130.0	170.8	212.4	174.2
87.5°	39.1	51.0	55.2	83.3	113.9	76.5	50.1	49.3	69.7	51.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940345
 CATALOG NUMBER: GALN-SB3B-840-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2347.7	0°	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7
2373.2	2.5°	2364.7	2360.5	2343.5	2320.5	2296.7	2273.8	2266.1	2250.0	2238.9	2233.0
2428.4	5°	2412.3	2398.7	2358.8	2307.8	2254.2	2196.5	2155.7	2118.3	2091.1	2065.6
2504.0	7.5°	2480.3	2456.5	2387.6	2298.4	2203.3	2107.2	2035.9	1981.5	1945.0	1921.2
2592.4	10°	2559.3	2522.7	2417.4	2284.0	2137.0	1999.3	1915.2	1868.5	1845.5	1832.8
2693.5	12.5°	2650.2	2598.4	2448.0	2250.8	2035.9	1878.7	1820.9	1807.3	1808.1	1809.0
2821.0	15°	2762.4	2690.1	2472.6	2178.6	1904.2	1786.1	1775.9	1798.0	1820.9	1831.9
2965.4	17.5°	2889.0	2787.0	2476.9	2059.7	1775.0	1726.6	1758.9	1806.5	1841.3	1856.6
3126.9	20°	3024.9	2885.6	2446.3	1891.4	1668.8	1678.1	1735.9	1797.1	1835.3	1854.9
3311.3	22.5°	3180.4	2990.9	2373.2	1714.7	1582.1	1625.5	1693.4	1752.9	1792.9	1812.4
3527.9	25°	3358.0	3109.0	2258.5	1566.0	1507.4	1566.0	1634.0	1683.2	1715.5	1733.4
3770.1	27.5°	3555.1	3232.2	2105.5	1447.9	1441.9	1504.8	1560.9	1599.1	1616.1	1629.7
4027.6	30°	3753.1	3344.4	1920.3	1358.7	1385.0	1444.5	1484.4	1501.4	1506.5	1509.1
4314.7	32.5°	3967.2	3441.3	1725.7	1284.7	1330.6	1385.9	1409.6	1417.3	1393.5	1377.4
4663.1	35°	4226.4	3544.9	1535.4	1226.1	1277.1	1324.7	1332.3	1325.5	1297.5	1264.3
5099.9	37.5°	4546.7	3674.1	1383.3	1184.5	1227.0	1258.4	1249.1	1247.4	1249.9	1210.8
5625.0	40°	4939.3	3842.3	1272.0	1152.2	1186.2	1193.0	1166.6	1181.1	1193.8	1134.3
6201.1	42.5°	5375.2	4045.4	1201.5	1130.1	1152.2	1136.0	1095.3	1111.4	1109.7	1031.5
6779.7	45°	5819.6	4266.3	1176.8	1113.9	1120.7	1088.5	1043.4	1047.7	1012.0	941.5
7334.6	47.5°	6261.4	4503.4	1192.1	1100.4	1081.7	1045.1	1010.3	991.6	938.9	886.2
7866.5	50°	6694.7	4752.3	1248.2	1073.2	1028.1	1006.9	981.4	948.3	892.2	847.1
8369.5	52.5°	7096.6	5003.0	1311.1	1028.1	961.0	973.7	957.6	919.4	864.1	818.3
8845.3	55°	7477.3	5253.7	1335.7	966.1	898.1	944.9	935.5	865.0	798.7	761.3
9343.2	57.5°	7892.0	5555.3	1308.5	887.1	847.1	911.7	876.0	797.9	759.6	731.6
9991.6	60°	8466.4	6028.6	1249.9	789.4	798.7	862.4	801.3	769.0	727.3	695.9
10963.6	62.5°	9420.6	6911.4	1155.6	692.5	741.8	789.4	765.6	733.3	690.8	660.2
12625.6	65°	10831.1	8138.4	978.0	616.9	678.1	718.0	727.3	695.1	650.9	618.6
14082.0	67.5°	12020.6	8908.2	740.1	554.0	612.6	660.2	686.6	655.1	608.4	576.9
14422.7	70°	11955.2	8349.1	565.0	492.0	554.9	603.3	637.3	612.6	562.5	532.8
13100.6	72.5°	10618.6	6984.5	457.1	429.1	496.2	543.8	584.6	565.9	514.9	486.0
9597.3	75°	7801.0	4958.0	365.4	365.4	423.1	481.8	526.8	514.9	468.2	447.8
4029.3	77.5°	3288.3	2080.1	286.3	303.3	351.8	413.8	469.9	474.1	433.3	458.8
1065.5	80°	874.3	573.5	218.4	238.8	276.2	341.6	408.7	407.0	362.8	339.0
396.0	82.5°	333.1	226.0	155.5	168.2	199.7	261.7	323.7	333.9	289.7	250.7
155.5	85°	128.3	96.9	96.0	101.1	116.4	173.3	244.7	253.2	218.4	185.2
43.3	87.5°	33.1	28.9	35.7	34.0	53.5	92.6	140.2	145.3	133.4	77.3
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>
2347.7
2239.8
2075.8
1926.3
1836.2
1810.7
1831.1
1860.0
1860.0
1817.5
1738.5
1634.8
1515.0
1382.5
1266.0
1213.4
1136.0
1030.7
944.0
886.2
843.7
819.1
757.9
729.0
694.2
660.2
620.3
577.8
535.3
486.0
441.8
416.4
315.2
250.7
191.2
110.5
0.0

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