

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: P947505

Luminaire Tested: **GALN-SB2D-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17871 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

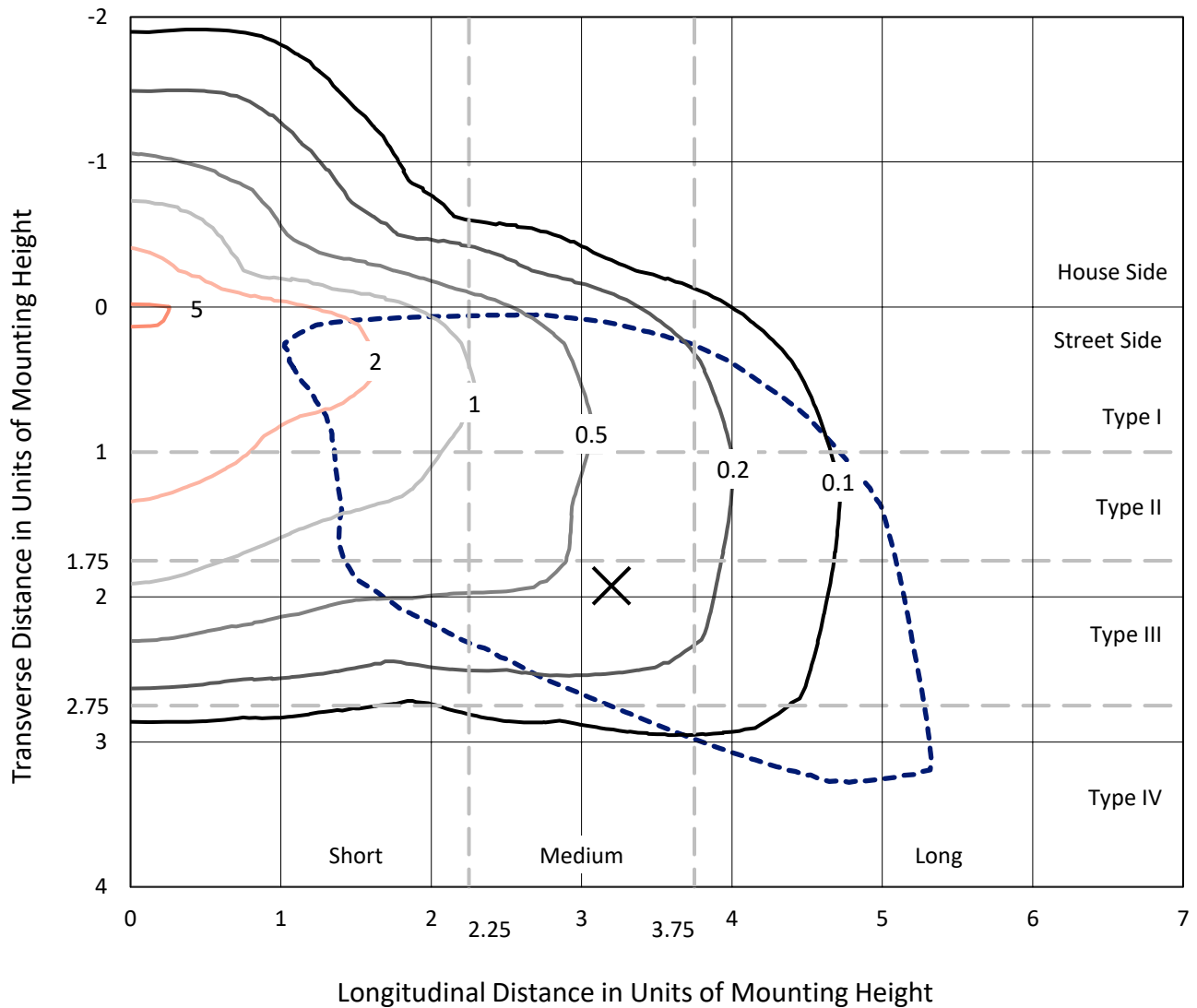
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

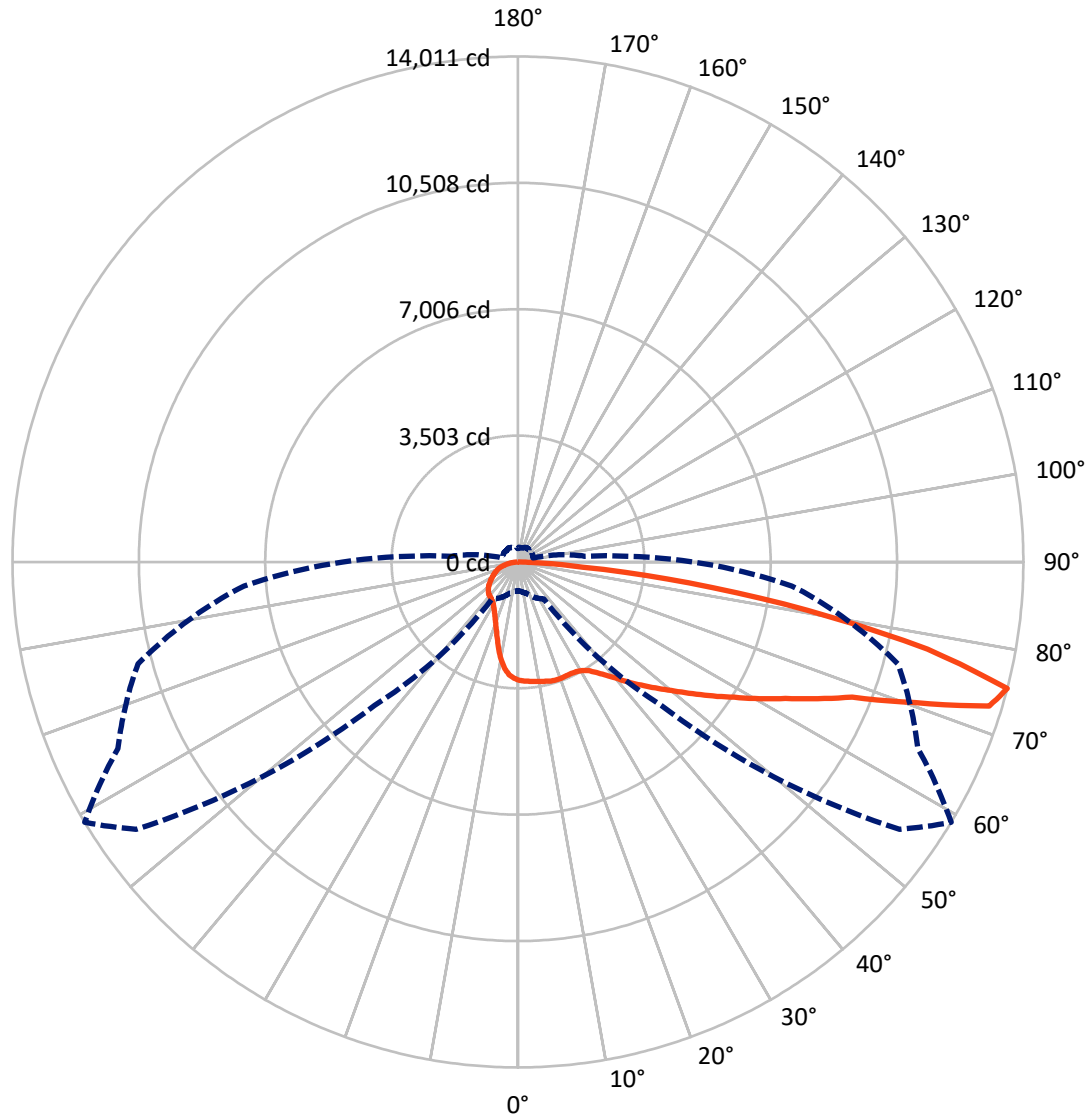
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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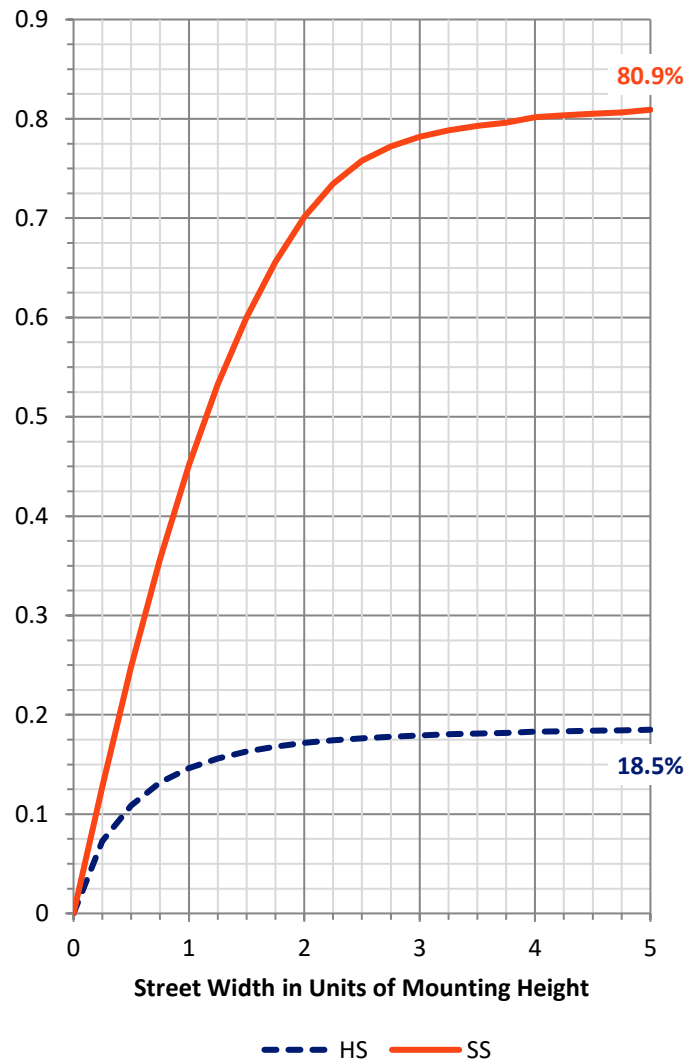
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3351.8	0.0	3351.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14519.2	0.0	14519.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	17871.0	0.0	17871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.1	1.6
10°-20°	751.8	4.2
20°-30°	1141.9	6.4
30°-40°	1697.4	9.5
40°-50°	2524.4	14.1
50°-60°	3426.5	19.2
60°-70°	4183.2	23.4
70°-80°	3282.9	18.4
80°-90°	568.7	3.2
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°	17871.0	100.0
0°-180°	17871.0	100.0

Coefficient of Utilization



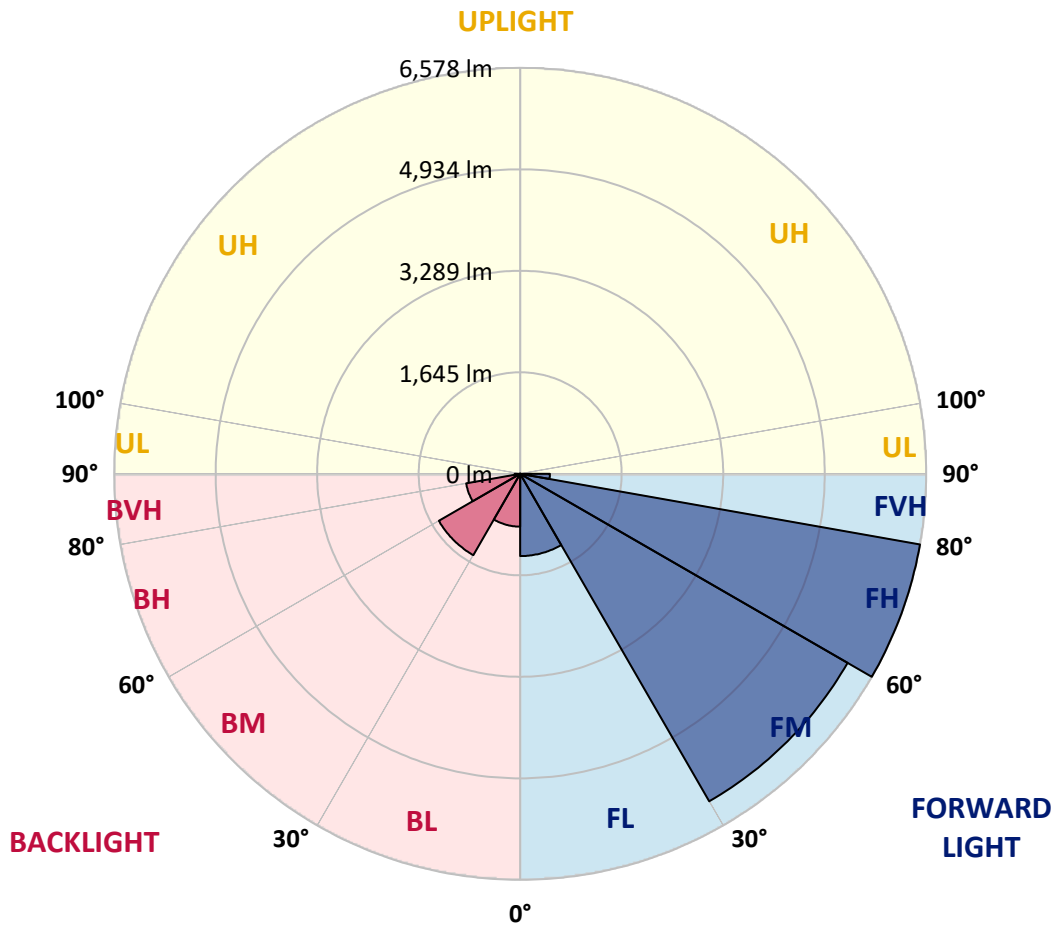
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.5	7.5			
FM (30°-60°)	6126.9	34.3			
FH (60°-80°)	6578.1	36.8			G3/7500
FVH (80°-90°)	481.6	2.7			G3/500
BL (0°-30°)	855.3	4.8	B2/1000		
BM (30°-60°)	1521.4	8.5	B2/2500		
BH (60°-80°)	888.0	5.0	B2/1000		G2/1000
BVH (80°-90°)	87.1	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-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2
2.5°	3308.1	3296.5	3308.1	3303.3	3301.3	3297.5	3298.4	3305.2	3301.3	3306.1
5°	3286.0	3279.2	3290.8	3287.9	3300.4	3302.3	3314.8	3322.5	3327.3	3328.3
7.5°	3249.4	3242.7	3259.0	3272.5	3299.4	3307.1	3333.1	3345.6	3352.3	3363.8
10°	3115.8	3112.9	3153.3	3204.2	3267.7	3307.1	3346.5	3367.7	3378.2	3409.0
12.5°	2879.3	2883.1	2936.0	3034.1	3161.0	3287.9	3361.9	3392.7	3409.0	3447.5
15°	2653.4	2652.4	2710.1	2814.9	2992.7	3203.3	3369.6	3422.5	3450.3	3507.1
17.5°	2522.6	2518.8	2559.2	2639.0	2804.3	3073.5	3350.4	3438.8	3498.4	3569.6
20°	2498.6	2490.9	2512.1	2551.5	2668.8	2931.2	3300.4	3438.8	3536.9	3629.2
22.5°	2586.1	2573.6	2564.9	2560.1	2612.0	2813.9	3243.7	3427.3	3593.6	3714.7
25°	2762.0	2742.8	2698.6	2655.3	2639.9	2761.0	3193.7	3424.4	3678.2	3830.1
27.5°	3046.6	3022.5	2933.1	2829.3	2736.0	2788.0	3171.5	3441.7	3771.4	3952.2
30°	3399.4	3373.4	3261.0	3101.4	2934.1	2887.9	3199.4	3492.6	3890.6	4114.6
32.5°	3715.7	3686.8	3590.7	3428.2	3202.3	3061.0	3287.9	3589.7	4078.1	4340.6
35°	3996.4	3962.8	3876.2	3726.3	3531.1	3304.2	3447.5	3761.8	4344.4	4707.8
37.5°	4271.4	4231.9	4137.7	3979.1	3842.6	3628.2	3667.6	3982.9	4698.2	5153.9
40°	4579.0	4522.3	4407.9	4251.2	4118.5	4007.9	3957.0	4254.0	5057.7	5651.9
42.5°	4877.0	4823.2	4686.7	4553.0	4386.7	4355.0	4292.5	4571.3	5450.9	6198.9
45°	5198.1	5133.7	4968.3	4799.1	4694.4	4585.7	4617.4	4888.5	5836.5	6756.5
47.5°	5499.0	5426.9	5231.8	5043.3	4985.6	4779.9	4915.5	5237.5	6237.3	7321.8
50°	5661.5	5590.3	5427.9	5257.7	5212.5	5019.3	5238.5	5621.1	6657.5	7885.1
52.5°	5797.0	5720.1	5507.7	5413.5	5400.0	5279.8	5636.5	6059.5	7077.6	8383.1
55°	5941.2	5855.7	5584.6	5500.0	5561.5	5572.1	6108.5	6556.5	7521.7	8868.6
57.5°	6107.6	5998.9	5658.6	5573.0	5719.2	5914.3	6650.7	7071.8	7958.2	9318.5
60°	6264.3	6154.7	5800.9	5689.4	5889.3	6311.4	7272.7	7695.7	8452.3	9719.4
62.5°	6295.0	6204.7	5914.3	5913.4	6120.1	6774.7	8009.1	8325.4	8884.0	10115.5
65°	5762.4	5705.7	5533.6	5904.7	6450.8	7441.9	8829.2	9131.1	9432.9	10461.6
67.5°	4385.8	4393.4	4380.9	5097.2	6183.5	8400.4	10016.5	9993.4	10110.7	10850.0
70°	2005.4	2050.6	2344.8	3518.6	4953.9	8511.0	11979.6	11680.6	10961.5	11352.8
72.5°	1083.5	1118.1	1238.2	1704.5	2978.3	7566.9	13446.6	13659.1	12093.0	11691.2
75°	795.1	814.3	897.9	1083.5	1250.7	5624.0	12920.8	14011.0	12234.3	10901.9
77.5°	595.1	603.7	672.0	858.5	640.3	2964.9	10324.1	11603.7	10473.1	8957.1
80°	431.7	441.3	492.2	644.1	449.0	1084.4	7089.1	8144.7	7172.8	5709.6
82.5°	298.0	301.9	324.0	438.4	313.4	421.1	4022.4	4776.1	4004.1	2003.5
85°	179.8	184.6	194.2	255.7	177.9	200.0	1736.2	1795.8	1196.9	478.8
87.5°	74.0	78.8	86.5	107.7	70.2	55.8	286.5	359.6	224.0	140.4
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°
3280.2	0°	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2	3280.2
3289.8	2.5°	3285.0	3278.3	3260.0	3235.0	3211.9	3183.1	3170.6	3160.0	3150.4	3132.1
3315.8	5°	3305.2	3286.9	3237.9	3174.4	3102.3	3023.5	2946.6	2893.7	2848.5	2814.9
3345.6	7.5°	3335.9	3301.3	3211.9	3082.1	2916.8	2747.6	2594.7	2486.1	2404.4	2374.6
3387.9	10°	3367.7	3326.3	3170.6	2941.8	2656.3	2395.7	2192.9	2081.4	2016.0	1994.8
3437.8	12.5°	3405.2	3344.6	3106.2	2746.6	2365.0	2079.4	1902.5	1837.2	1803.5	1792.0
3499.4	15°	3460.0	3360.0	3009.1	2502.4	2087.1	1848.7	1734.3	1689.1	1671.8	1670.9
3562.8	17.5°	3501.3	3362.9	2858.1	2240.9	1873.7	1709.3	1615.1	1597.8	1609.3	1626.6
3625.3	20°	3547.4	3336.9	2660.1	2002.5	1723.7	1587.2	1547.8	1559.3	1587.2	1612.2
3708.0	22.5°	3580.1	3289.8	2420.7	1817.0	1593.9	1517.0	1515.1	1539.1	1554.5	1567.0
3805.1	25°	3609.0	3210.0	2166.9	1661.2	1487.2	1474.7	1495.9	1488.2	1477.6	1488.2
3902.2	27.5°	3630.1	3084.1	1940.0	1524.7	1412.2	1445.9	1433.4	1416.1	1415.1	1420.9
4016.6	30°	3623.4	2915.8	1753.5	1394.9	1359.4	1392.1	1362.3	1359.4	1356.5	1359.4
4188.7	32.5°	3623.4	2724.5	1610.3	1305.5	1325.7	1313.2	1310.3	1303.6	1292.1	1291.1
4422.3	35°	3643.6	2533.2	1487.2	1257.5	1297.8	1268.0	1270.0	1253.6	1229.6	1218.1
4731.8	37.5°	3684.9	2379.4	1365.1	1234.4	1248.8	1247.9	1240.2	1212.3	1170.0	1133.5
5118.3	40°	3784.9	2334.2	1281.5	1223.8	1225.7	1237.3	1217.1	1163.3	1067.1	1007.5
5510.6	42.5°	3941.6	2410.1	1263.2	1197.9	1210.4	1221.9	1182.5	1057.5	989.2	953.7
5922.0	45°	4140.6	2542.8	1302.7	1160.4	1173.8	1194.0	1076.7	1017.1	986.4	987.3
6329.6	47.5°	4392.5	2682.2	1375.7	1127.7	1121.0	1132.5	1006.6	970.0	927.7	938.3
6720.9	50°	4683.8	2823.5	1444.9	1083.5	1062.3	1024.8	961.4	926.8	872.9	847.9
7098.7	52.5°	4999.1	2960.0	1472.8	1029.6	998.9	955.6	930.6	888.3	822.9	781.6
7455.4	55°	5298.1	3084.1	1442.0	965.2	935.4	901.8	897.9	872.0	801.8	744.1
7772.6	57.5°	5580.7	3187.9	1365.1	899.8	871.0	850.8	876.8	864.3	775.8	701.8
8072.6	60°	5820.1	3259.0	1253.6	833.5	813.3	802.7	842.2	838.3	739.3	656.6
8341.8	62.5°	6010.5	3286.9	1130.6	770.1	765.2	746.0	794.1	794.1	693.1	612.4
8578.3	65°	6159.5	3260.0	1005.6	707.6	717.2	688.3	735.4	729.7	644.1	573.0
8850.3	67.5°	6291.2	3171.5	867.2	646.0	668.1	631.6	673.9	660.5	590.3	533.6
9085.9	70°	6349.8	2965.8	709.5	584.5	611.4	575.9	612.4	587.4	529.7	491.3
8827.3	72.5°	5878.8	2464.9	558.6	520.1	543.2	514.3	546.1	517.2	464.3	447.0
7622.7	75°	4863.6	1849.7	429.7	449.9	467.2	445.1	466.3	445.1	397.0	409.5
5630.7	77.5°	3532.1	1248.8	328.8	375.9	383.6	372.0	390.3	366.3	323.0	320.1
2806.2	80°	1756.4	731.6	257.6	297.1	294.2	286.5	307.6	296.1	259.6	275.0
757.6	82.5°	508.6	313.4	187.5	208.6	202.8	204.8	220.2	225.9	338.4	335.5
235.5	85°	159.6	123.1	112.5	116.3	110.6	113.4	129.8	257.6	238.4	139.4
73.1	87.5°	41.3	42.3	27.9	29.8	30.8	36.5	41.3	156.7	75.0	49.0
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>
3280.2
3123.5
2787.0
2322.7
1962.1
1794.9
1674.7
1633.4
1620.9
1573.8
1494.9
1430.5
1369.9
1303.6
1229.6
1145.9
1015.2
953.7
992.1
965.2
854.7
780.6
744.1
698.0
653.7
609.5
569.1
529.7
483.6
432.6
374.0
305.7
272.1
343.2
150.9
51.9
0.0

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