

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: P955071

Luminaire Tested: **GALN-SB8A-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955071
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-SB8A-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35339 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

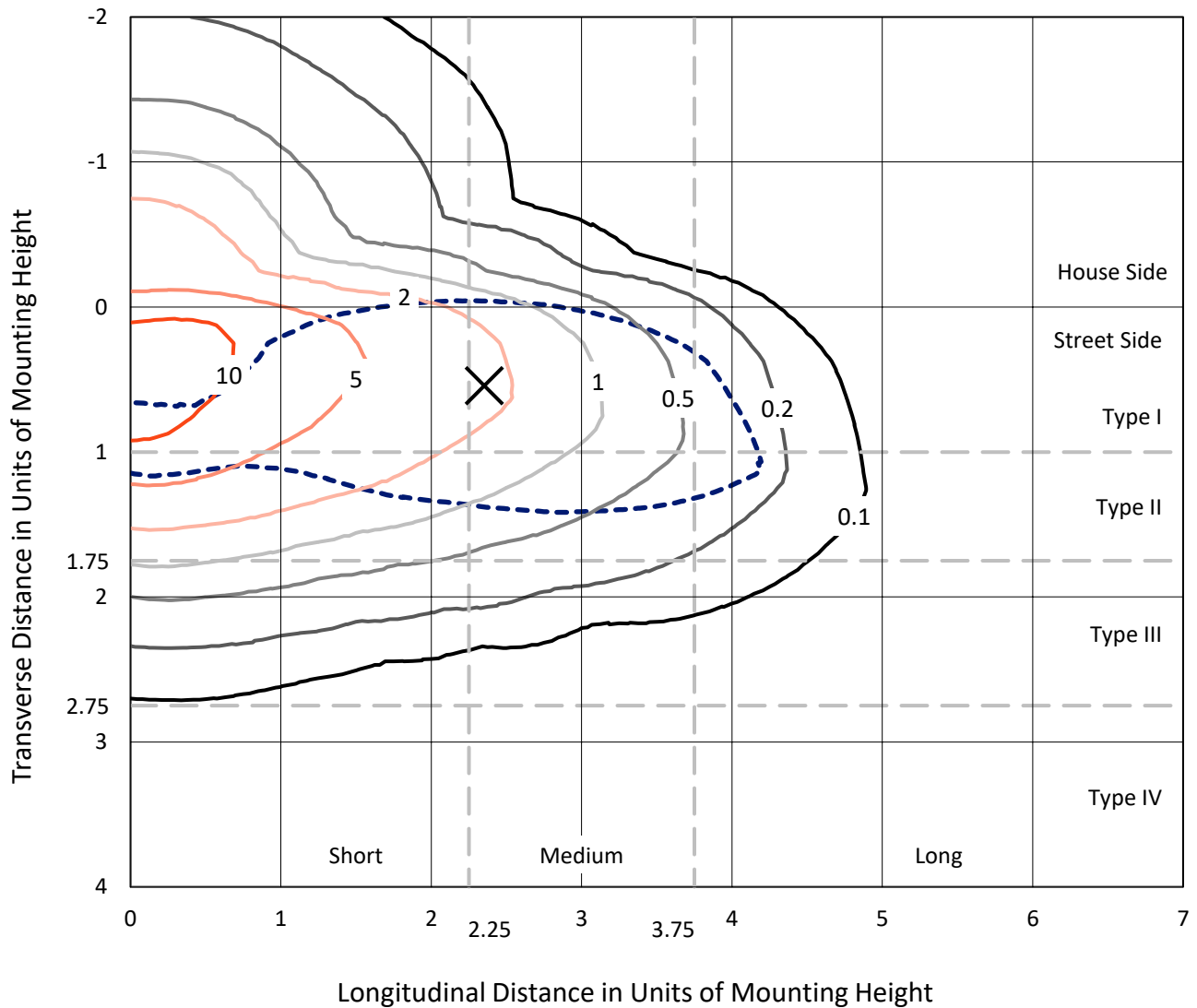
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

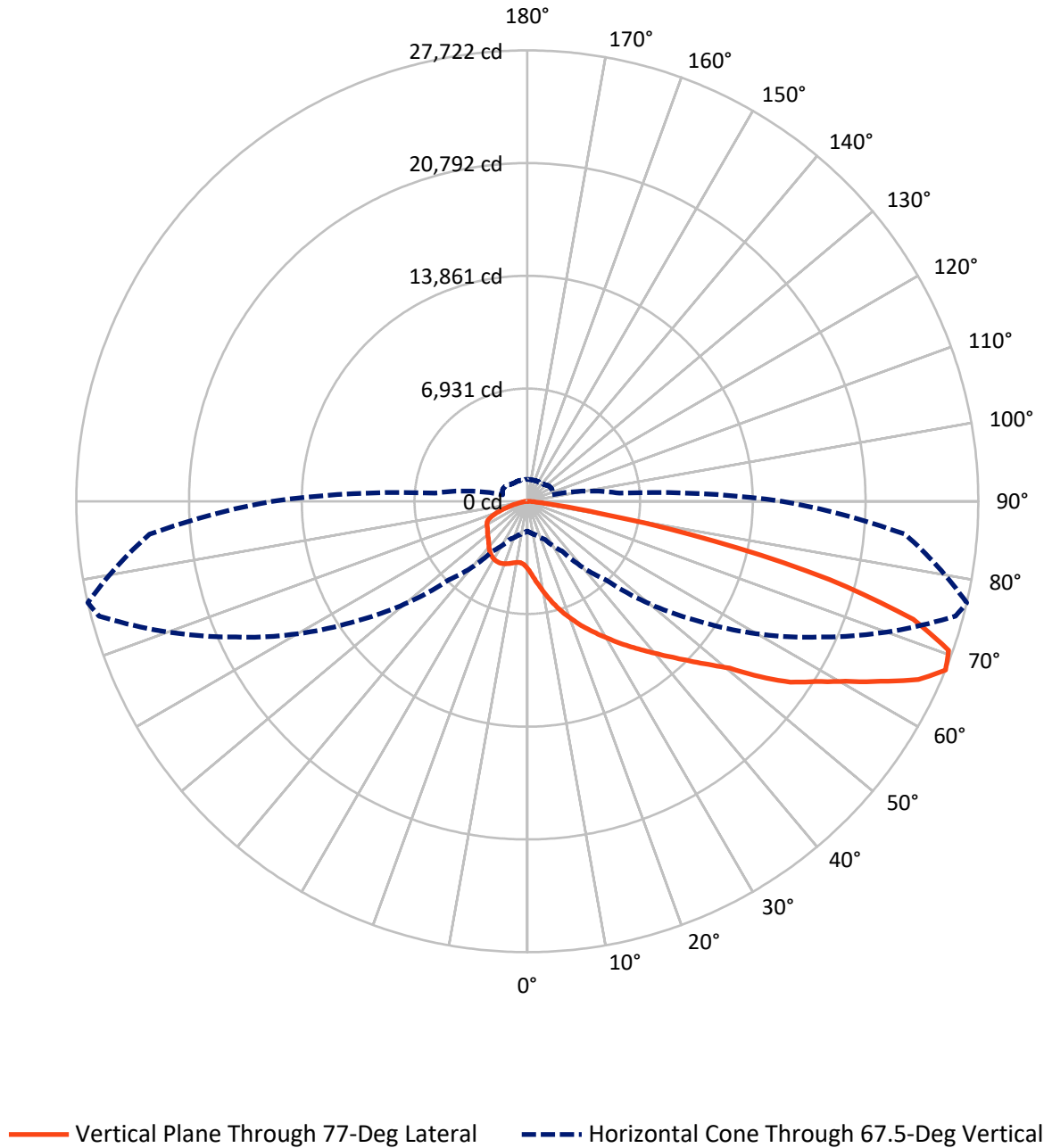
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	6684.7	0.0	6684.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	28654.3	0.0	28654.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	35339.0	0.0	35339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.4	1.3
10°-20°	1596.7	4.5
20°-30°	3014.7	8.5
30°-40°	4856.6	13.7
40°-50°	6642.9	18.8
50°-60°	7493.3	21.2
60°-70°	6994.0	19.8
70°-80°	3833.9	10.8
80°-90°	462.5	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°	35339.0	100.0
0°-180°	35339.0	100.0

Coefficient of Utilization



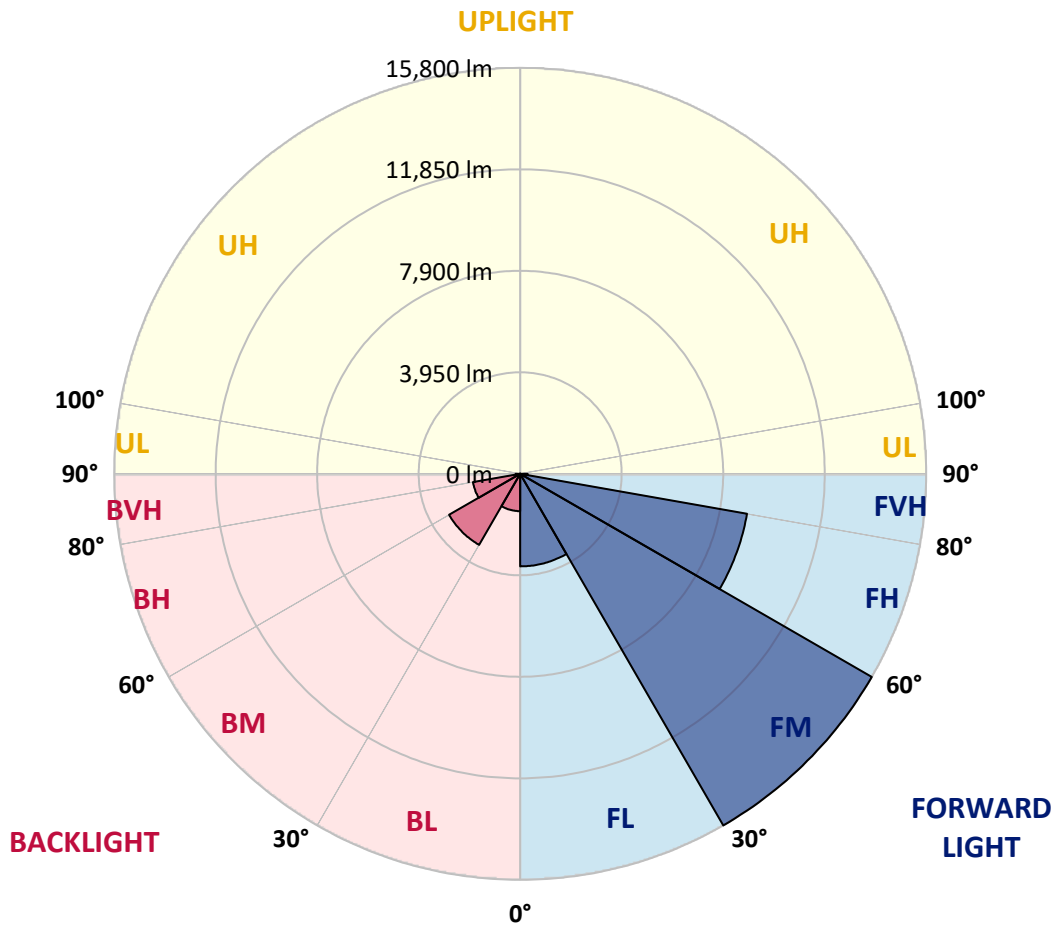
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3602.4	10.2			
FM (30°-60°)	15799.7	44.7			
FH (60°-80°)	8963.0	25.4			G4/12000
FVH (80°-90°)	289.2	0.8			G3/500
BL (0°-30°)	1453.4	4.1	B3/2500		
BM (30°-60°)	3193.1	9.0	B3/5000		
BH (60°-80°)	1864.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	173.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4146.4	4146.4	4146.4	4146.4	4146.4	4146.4	4146.4	4146.4	4146.4	4146.4
2.5°	5191.6	5228.1	5182.5	5182.5	5029.3	4949.0	4795.8	4679.0	4469.2	4432.8
5°	6136.5	6182.1	6118.3	6090.9	5910.3	5744.3	5487.1	5233.6	4859.6	4821.3
7.5°	6868.0	6926.4	6869.9	6840.7	6680.1	6494.1	6193.1	5839.2	5312.0	5237.2
10°	7464.5	7473.7	7455.4	7466.4	7340.5	7187.3	6879.0	6466.7	5808.2	5706.0
12.5°	7802.0	7844.0	7880.5	7946.1	7924.2	7829.4	7552.1	7059.6	6333.6	6202.2
15°	7960.7	8033.7	8115.8	8267.2	8389.4	8413.1	8201.5	7696.2	6868.0	6709.3
17.5°	8017.3	8086.6	8216.1	8435.0	8697.7	8874.6	8779.8	8314.6	7397.1	7214.6
20°	8303.7	8323.7	8402.2	8610.1	8894.7	9188.4	9259.5	8909.3	7920.6	7714.5
22.5°	8916.6	8876.5	8898.4	8993.2	9197.5	9482.1	9644.4	9434.7	8458.7	8221.6
25°	9929.0	9812.3	9695.5	9586.1	9690.0	9850.6	10034.8	9960.0	9022.4	8721.4
27.5°	11207.8	11065.5	10808.3	10448.9	10323.0	10379.6	10461.7	10447.1	9544.1	9239.5
30°	12466.5	12300.5	11994.0	11474.1	11142.1	10992.5	10930.5	10888.5	10111.4	9786.7
32.5°	13471.6	13340.2	13039.2	12457.3	11975.7	11720.4	11514.2	11364.6	10704.3	10379.6
35°	14350.8	14228.6	13883.8	13249.0	12725.5	12453.7	12183.7	11864.5	11320.9	10992.5
37.5°	15153.5	15031.2	14558.8	13898.4	13371.2	13183.4	12942.6	12400.8	11939.3	11629.2
40°	15660.6	15633.2	15191.8	14443.9	13896.6	13803.6	13723.3	13022.8	12625.2	12336.9
42.5°	15790.1	15850.3	15500.1	14885.3	14363.6	14288.8	14476.7	13727.0	13395.0	13119.5
45°	15478.2	15651.5	15421.6	15003.9	14695.6	14655.5	15144.3	14496.8	14246.9	13995.1
47.5°	14688.3	14982.0	14887.1	14828.8	14785.0	14958.3	15731.7	15314.0	15211.8	14992.9
50°	13094.0	13650.3	13816.3	14184.8	14608.0	15193.6	16266.2	16206.0	16339.2	16118.5
52.5°	10337.6	11103.8	12067.0	12990.0	14064.4	15115.2	16853.6	17486.6	18048.4	17928.0
55°	8533.5	8878.3	9618.9	11311.7	13010.1	14785.0	17118.1	18520.9	19744.9	19637.3
57.5°	7147.1	7455.4	7911.5	9325.2	11415.7	14035.2	17282.3	19152.1	20906.9	20896.0
60°	5660.4	5987.0	6454.0	7455.4	9553.2	12740.1	17245.8	19870.8	22390.0	22481.2
62.5°	3982.2	4341.5	4859.6	5793.6	7650.6	11061.8	16501.5	20390.7	24135.7	24383.8
65°	2617.7	2854.8	3245.2	4051.5	5700.6	8903.8	15080.5	20458.2	26003.7	26423.3
67.5°	1835.1	1926.3	2156.2	2594.0	3757.8	6827.9	12816.7	19759.5	27249.6	27722.1
70°	1432.0	1477.6	1594.3	1769.5	2360.5	4591.5	9821.4	17942.6	26983.3	27475.8
72.5°	1236.8	1280.6	1324.4	1346.2	1583.4	2834.8	6652.8	15002.1	24475.0	24808.9
75°	1121.9	1132.8	1169.3	1162.0	1207.6	1838.8	3839.9	10930.5	19310.8	19195.9
77.5°	943.1	957.7	1017.9	1008.8	1072.6	1256.9	1993.8	7054.1	12519.4	11738.6
80°	799.0	806.3	872.0	861.0	932.2	910.3	1017.9	3595.5	5310.2	4498.4
82.5°	277.3	342.9	665.8	685.9	711.4	550.9	587.4	1466.6	1621.7	1242.3
85°	135.0	144.1	339.3	481.6	479.8	277.3	286.4	523.5	510.8	401.3
87.5°	21.9	27.4	40.1	187.9	149.6	73.0	98.5	102.2	105.8	91.2
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°
4146.4	0°	4146.4	4146.4	4146.4	4146.4	4146.4	4146.4	4146.4	4146.4	4146.4	4146.4
4294.1	2.5°	4192.0	4100.8	3909.2	3732.3	3593.6	3460.5	3385.7	3321.8	3285.3	3278.1
4494.8	5°	4305.1	4117.2	3768.8	3475.1	3283.5	3141.2	3066.4	3019.0	2995.3	2980.7
4764.8	7.5°	4467.4	4192.0	3695.8	3362.0	3161.3	3059.2	3020.8	3013.5	3011.7	3013.5
5091.3	10°	4691.8	4314.2	3688.5	3334.6	3166.8	3110.2	3108.4	3110.2	3117.5	3119.3
5447.0	12.5°	4934.4	4440.1	3717.7	3358.3	3236.1	3205.1	3199.6	3197.8	3203.3	3206.9
5806.4	15°	5198.9	4606.1	3766.9	3409.4	3312.7	3279.9	3274.4	3263.5	3261.6	3259.8
6184.0	17.5°	5470.7	4770.2	3821.7	3464.1	3362.0	3316.4	3296.3	3270.8	3250.7	3245.2
6574.3	20°	5746.2	4932.6	3860.0	3491.5	3365.6	3301.8	3261.6	3217.9	3183.2	3163.1
6968.4	22.5°	6039.9	5102.2	3883.7	3484.2	3332.8	3245.2	3172.3	3121.2	3068.3	3033.6
7366.0	25°	6326.3	5250.0	3881.9	3445.9	3268.9	3157.7	3064.6	2999.0	2926.0	2889.5
7776.5	27.5°	6601.7	5383.2	3836.3	3378.4	3177.7	3053.7	2942.4	2864.0	2792.8	2758.2
8190.6	30°	6886.3	5494.4	3765.1	3279.9	3070.1	2933.3	2811.1	2743.6	2679.7	2646.9
8628.4	32.5°	7169.0	5596.6	3664.8	3157.7	2946.1	2814.7	2694.3	2632.3	2594.0	2594.0
9099.0	35°	7468.2	5667.7	3531.6	3015.4	2814.7	2688.8	2594.0	2557.5	2553.9	2532.0
9597.0	37.5°	7783.8	5713.3	3369.3	2869.4	2685.2	2566.6	2537.4	2493.7	2457.2	2409.7
10144.3	40°	8115.8	5758.9	3174.1	2718.0	2548.4	2482.7	2469.9	2411.6	2307.6	2190.8
10764.5	42.5°	8518.9	5789.9	2971.6	2566.6	2404.3	2382.4	2400.6	2300.3	2134.3	2046.7
11512.4	45°	8985.9	5841.0	2785.5	2417.0	2256.5	2256.5	2333.1	2201.8	2065.0	2010.2
12366.1	47.5°	9591.5	5959.6	2612.2	2252.9	2119.7	2156.2	2183.5	2083.2	2006.6	1939.1
13405.9	50°	10467.1	6244.2	2433.5	2086.9	2015.7	2088.7	2050.4	1992.0	1902.6	1847.9
15058.6	52.5°	11554.4	6412.0	2274.8	1937.3	1926.3	1999.3	1944.6	1889.9	1822.4	1749.4
16311.8	55°	12295.0	6443.0	2141.6	1827.8	1866.1	1858.8	1838.8	1789.5	1753.0	1656.4
17548.6	57.5°	13123.2	6505.0	2032.1	1762.2	1827.8	1747.6	1740.3	1698.3	1650.9	1585.2
19057.2	60°	14113.7	6601.7	1937.3	1736.6	1795.0	1674.6	1638.1	1621.7	1574.3	1541.4
20872.3	62.5°	15193.6	6689.3	1840.6	1740.3	1756.7	1603.5	1548.7	1543.3	1514.1	1503.1
22576.1	65°	15930.6	6450.3	1720.2	1736.6	1696.5	1530.5	1461.2	1459.3	1435.6	1432.0
23314.9	67.5°	15673.4	5693.3	1557.9	1685.5	1634.5	1457.5	1380.9	1373.6	1342.6	1344.4
22543.2	70°	14385.5	4613.4	1333.5	1559.7	1557.9	1391.8	1297.0	1273.3	1231.3	1238.6
19600.8	72.5°	11970.3	3418.5	1032.5	1349.9	1435.6	1331.7	1200.3	1162.0	1109.1	1116.4
14469.4	75°	8644.8	2324.0	751.6	1027.0	1249.6	1260.5	1105.5	1039.8	975.9	986.9
8053.8	77.5°	4423.6	1317.1	552.7	707.8	981.4	1145.6	1019.7	932.2	917.6	1019.7
2322.2	80°	1442.9	660.4	383.1	496.2	643.9	937.6	893.8	793.5	789.9	813.6
487.1	82.5°	430.5	279.1	246.3	326.5	355.7	718.7	771.6	600.2	516.2	543.6
162.4	85°	147.8	135.0	140.5	162.4	169.6	421.4	540.0	397.7	375.8	414.1
36.5	87.5°	34.7	47.4	40.1	36.5	36.5	102.2	209.8	166.0	229.8	153.2
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>
4146.4
3278.1
2978.9
3019.0
3121.2
3208.7
3258.0
3250.7
3170.4
3035.4
2889.5
2756.3
2645.1
2595.8
2526.5
2402.4
2174.4
2048.6
2019.4
1937.3
1842.4
1734.8
1658.2
1563.3
1550.6
1503.1
1430.2
1344.4
1245.9
1114.6
990.5
1005.1
698.7
561.8
408.6
147.8
0.0

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