

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: P951085

Luminaire Tested: **GALN-SB5B-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

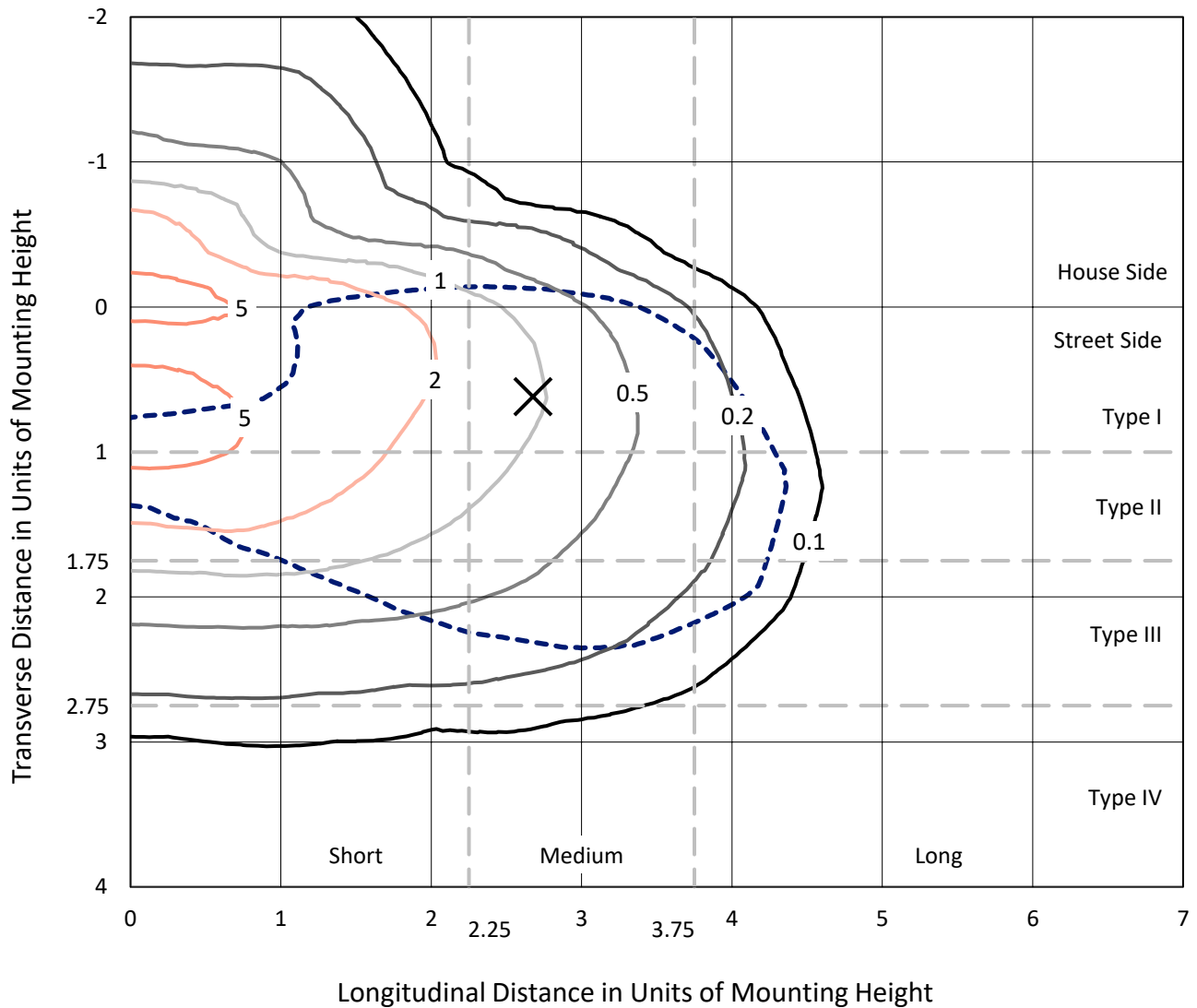
Lumens per Lamp: N/A  
Luminaire Lumens: 26239 lumens  
Efficiency: N/A  
Efficacy: 143.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): 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

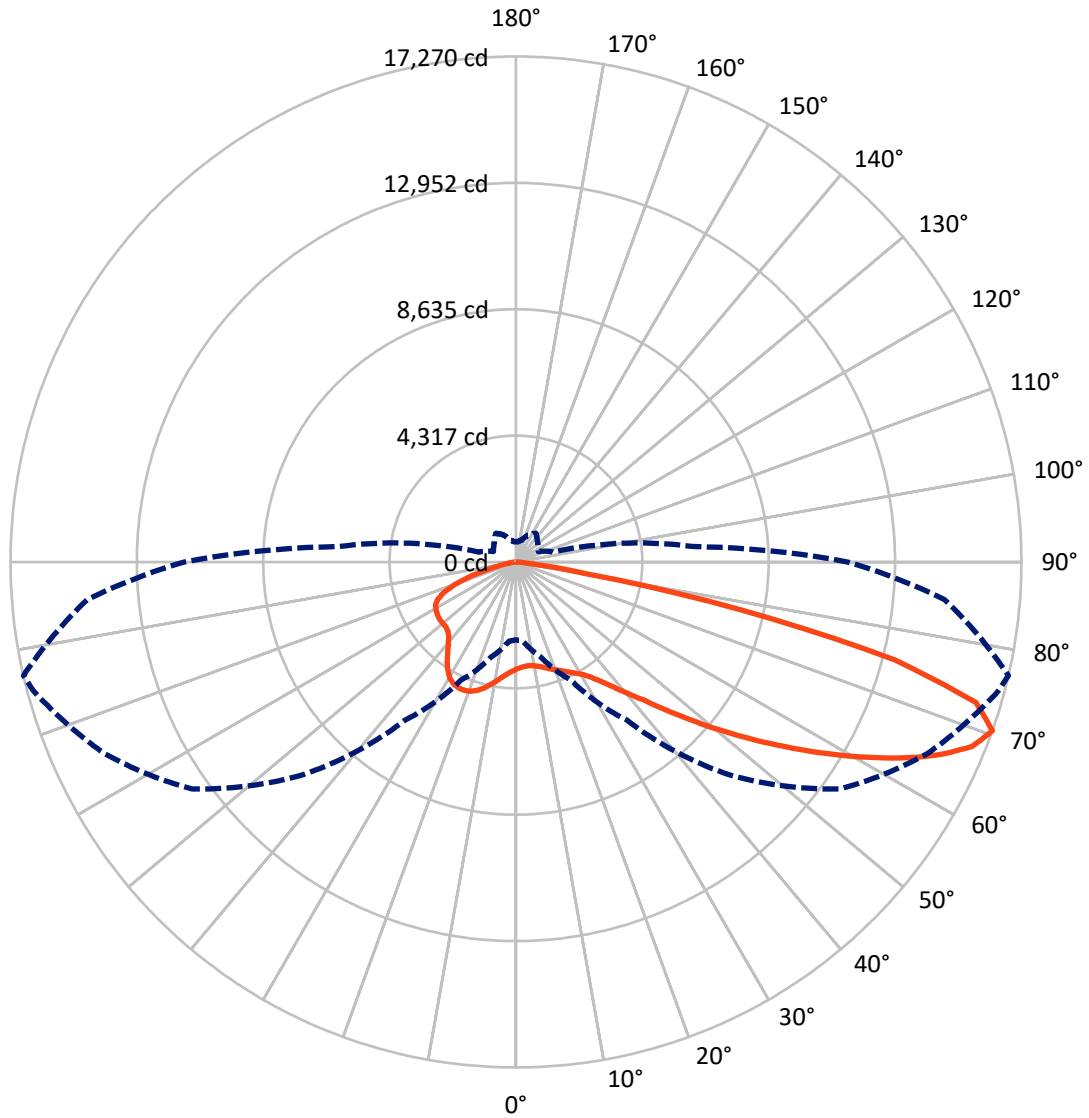
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5745.9	0.0	5745.9
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	20493.1	0.0	20493.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	26239.0	0.0	26239.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.1	1.3
10°-20°	1007.6	3.8
20°-30°	1723.1	6.6
30°-40°	2771.0	10.6
40°-50°	4326.2	16.5
50°-60°	5778.8	22.0
60°-70°	6159.3	23.5
70°-80°	3791.6	14.5
80°-90°	332.2	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°	26239.0	100.0
0°-180°	26239.0	100.0



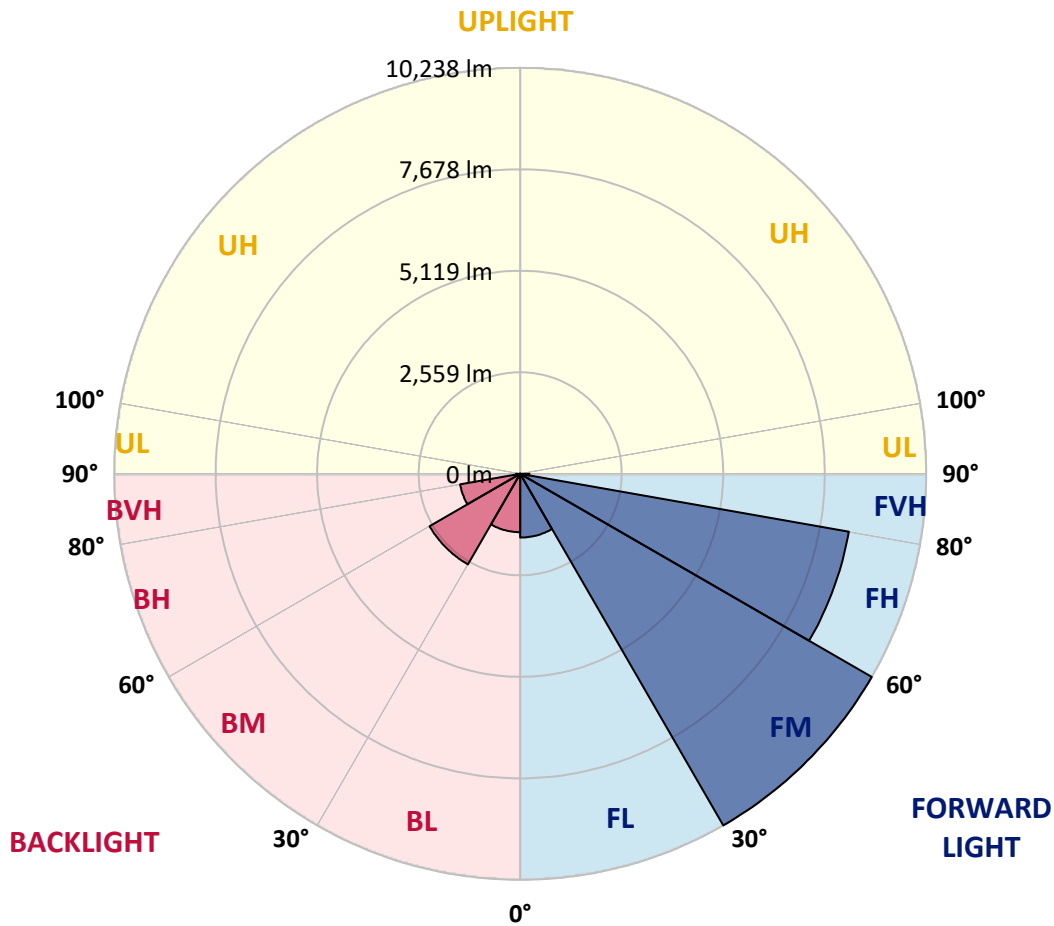
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1607.6	6.1			
FM (30°-60°)	10237.9	39.0			
FH (60°-80°)	8415.3	32.1			G4/12000
FVH (80°-90°)	232.3	0.9			G3/500
BL (0°-30°)	1472.3	5.6	B3/2500		
BM (30°-60°)	2638.1	10.1	B3/5000		
BH (60°-80°)	1535.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	99.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3660.6	3660.6	3660.6	3660.6	3660.6	3660.6	3660.6	3660.6	3660.6	3660.6
2.5°	3374.3	3373.0	3390.5	3395.8	3428.1	3450.9	3493.9	3539.6	3598.8	3605.5
5°	3179.5	3179.5	3199.6	3221.1	3262.8	3308.5	3374.3	3453.6	3555.8	3571.9
7.5°	3014.2	3025.0	3042.4	3084.1	3132.5	3198.3	3299.1	3412.0	3546.4	3571.9
10°	2881.2	2893.3	2914.8	2948.4	3020.9	3112.3	3244.0	3389.1	3569.2	3609.5
12.5°	2839.5	2851.6	2863.7	2889.2	2956.4	3063.9	3221.1	3399.9	3624.3	3664.6
15°	2936.3	2951.0	2941.6	2934.9	2969.9	3068.0	3231.9	3438.8	3692.8	3750.6
17.5°	3159.3	3164.7	3143.2	3080.0	3074.7	3127.1	3283.0	3492.6	3778.8	3842.0
20°	3519.5	3510.1	3465.7	3340.7	3269.5	3258.8	3370.3	3573.2	3867.5	3934.7
22.5°	4008.6	3997.9	3909.2	3711.6	3553.1	3448.3	3496.6	3678.0	3967.0	4042.2
25°	4618.7	4603.9	4473.6	4204.8	3958.9	3699.6	3668.6	3816.5	4089.3	4159.1
27.5°	5331.0	5318.9	5177.8	4823.0	4468.2	4043.6	3882.3	3979.1	4216.9	4296.2
30°	6096.9	6131.9	5881.9	5500.3	5051.4	4492.4	4169.9	4179.3	4382.2	4453.4
32.5°	6997.3	7057.8	6756.8	6273.0	5660.2	4980.2	4532.7	4458.8	4622.8	4681.9
35°	7889.6	7958.1	7708.2	7173.3	6467.8	5555.4	4911.7	4780.0	4942.6	5007.1
37.5°	8661.0	8752.3	8623.3	8158.4	7331.9	6248.8	5406.2	5157.6	5336.3	5417.0
40°	9269.7	9409.5	9400.1	9109.8	8350.5	7090.0	6033.8	5623.9	5825.5	5912.8
42.5°	9764.2	9885.2	9990.0	9975.2	9413.5	8045.5	6771.5	6230.0	6383.2	6484.0
45°	10105.6	10234.6	10460.3	10703.6	10436.1	9068.1	7616.8	6948.9	7088.7	7240.5
47.5°	10410.6	10557.1	10850.0	11235.7	11304.3	10094.8	8542.7	7786.1	7913.8	8071.0
50°	10437.5	10563.8	11018.0	11565.0	11921.1	11081.2	9537.1	8725.5	8845.1	9013.0
52.5°	9788.4	9987.3	10780.2	11555.6	12204.6	11906.3	10524.8	9702.4	9836.8	10038.4
55°	7598.0	7889.6	10082.7	11195.4	12103.8	12439.8	11464.2	10741.2	10913.2	11124.2
57.5°	6544.4	6672.1	8003.8	10539.6	11644.2	12578.2	12257.0	11790.7	12067.6	12298.7
60°	5881.9	5988.1	6775.6	9519.7	11039.5	12359.2	12869.8	12769.0	13247.4	13522.9
62.5°	5172.4	5273.2	5989.4	7948.7	10265.5	11995.0	13256.8	13672.1	14456.9	14757.9
65°	4468.2	4554.2	5240.9	6678.8	9281.8	11630.8	13457.1	14452.8	15576.3	15888.0
67.5°	3683.4	3754.6	4403.7	5634.7	8085.8	11132.2	13556.5	15067.0	16550.6	16818.0
70°	2658.1	2713.2	3383.8	4456.1	6584.7	10274.9	13516.2	15502.4	17055.8	17269.5
72.5°	1256.5	1306.2	2093.7	2893.3	4651.0	8605.9	12700.5	15157.0	16542.5	16436.3
75°	670.6	713.6	1202.7	1587.1	2456.5	5899.4	10393.1	13056.6	13891.1	13375.1
77.5°	454.2	487.8	744.5	952.8	1122.1	2800.5	6680.2	9039.9	8697.2	7845.3
80°	360.1	395.1	610.1	645.0	542.9	1011.9	2760.2	4184.7	3006.1	2404.1
82.5°	276.8	315.8	513.3	467.7	295.6	415.2	803.6	1323.7	770.0	585.9
85°	169.3	211.0	403.1	298.3	166.6	189.5	272.8	368.2	235.2	196.2
87.5°	86.0	120.9	204.3	108.8	75.3	44.3	72.6	72.6	61.8	53.8
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°
3660.6	0°	3660.6	3660.6	3660.6	3660.6	3660.6	3660.6	3660.6	3660.6	3660.6	3660.6
3641.8	2.5°	3674.0	3700.9	3746.6	3789.6	3823.2	3855.4	3887.7	3905.2	3910.5	3932.0
3661.9	5°	3717.0	3766.7	3855.4	3938.8	3991.2	4023.4	4046.3	4059.7	4062.4	4069.1
3717.0	7.5°	3796.3	3875.6	3999.2	4082.5	4121.5	4118.8	4109.4	4075.8	4062.4	4050.3
3797.7	10°	3907.8	4012.7	4164.5	4222.3	4198.1	4133.6	4050.3	3952.2	3906.5	3862.2
3907.8	12.5°	4046.3	4179.3	4328.5	4325.8	4206.2	4040.9	3847.4	3696.9	3601.5	3532.9
4043.6	15°	4214.2	4367.4	4481.7	4390.3	4128.2	3831.2	3547.7	3351.5	3265.5	3190.2
4180.6	17.5°	4387.6	4551.5	4603.9	4370.1	3932.0	3520.8	3199.6	3045.1	2960.4	2920.1
4328.5	20°	4556.9	4719.5	4676.5	4254.6	3633.7	3168.7	2882.5	2797.8	2780.4	2789.8
4472.3	22.5°	4735.6	4880.8	4691.3	4031.5	3253.4	2808.6	2651.4	2654.1	2693.0	2721.2
4622.8	25°	4918.4	5016.5	4652.3	3709.0	2844.9	2543.9	2504.9	2547.9	2624.5	2679.6
4792.1	27.5°	5094.4	5137.4	4567.7	3309.8	2494.1	2354.4	2361.1	2449.8	2565.4	2642.0
4997.7	30°	5293.3	5244.9	4405.1	2861.0	2250.9	2191.8	2248.2	2351.7	2467.3	2535.8
5257.0	32.5°	5517.7	5337.7	4147.0	2445.8	2078.9	2061.4	2154.2	2221.3	2272.4	2292.6
5601.1	35°	5797.3	5468.0	3816.5	2154.2	1924.4	1966.0	2054.7	2021.1	2001.0	1990.2
6063.3	37.5°	6160.1	5644.1	3429.4	1964.7	1799.4	1897.5	1933.8	1828.9	1749.7	1710.7
6623.7	40°	6596.8	5902.1	3057.2	1818.2	1720.1	1838.4	1775.2	1648.9	1548.1	1493.0
7254.0	42.5°	7082.0	6172.2	2744.1	1708.0	1675.8	1790.0	1658.3	1507.8	1345.2	1327.7
8005.2	45°	7591.3	6450.4	2530.4	1623.3	1654.2	1748.3	1591.1	1347.9	1232.3	1303.5
8759.1	47.5°	8100.6	6705.7	2401.4	1560.2	1643.5	1701.3	1532.0	1259.2	1177.2	1280.7
9566.7	50°	8667.7	6934.1	2343.6	1514.5	1631.4	1682.5	1443.3	1236.3	1119.4	1187.9
10402.6	52.5°	9230.7	7111.5	2300.6	1468.8	1613.9	1667.7	1400.3	1209.4	1049.5	1053.6
11243.8	55°	9792.5	7227.1	2253.6	1408.3	1575.0	1635.4	1396.2	1179.9	997.1	978.3
12133.4	57.5°	10391.8	7292.9	2195.8	1341.1	1507.8	1553.5	1392.2	1157.0	981.0	950.1
13043.2	60°	11001.9	7389.7	2120.6	1259.2	1417.7	1455.4	1382.8	1149.0	971.6	919.2
13900.5	62.5°	11548.8	7423.3	2030.5	1181.2	1302.2	1358.6	1362.6	1142.3	946.1	856.0
14612.8	65°	11907.6	7278.2	1873.3	1092.5	1177.2	1259.2	1323.7	1119.4	900.4	810.3
14964.8	67.5°	11892.9	6864.3	1627.4	978.3	1056.2	1149.0	1267.2	1080.4	845.3	753.9
14698.8	70°	11339.2	6047.2	1315.6	845.3	923.2	1030.7	1194.7	1022.7	779.4	692.1
13070.0	72.5°	9725.3	4733.0	955.5	689.4	768.7	908.4	1100.6	952.8	712.2	637.0
9659.4	75°	6947.6	2995.4	647.7	529.5	598.0	770.0	983.7	870.8	650.4	639.7
4837.8	77.5°	3549.0	1431.2	428.7	387.0	416.6	607.4	826.5	778.1	659.8	528.1
1376.1	80°	1154.3	528.1	270.1	263.4	276.8	404.5	639.7	638.3	499.9	358.8
333.3	82.5°	368.2	227.1	176.0	169.3	162.6	254.0	446.1	505.3	337.3	227.1
119.6	85°	146.5	135.7	103.5	95.4	68.5	119.6	233.8	336.0	251.3	163.9
30.9	87.5°	53.8	53.8	28.2	20.2	14.8	40.3	63.2	100.8	143.8	84.7
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>
3660.6
3944.1
4079.9
4053.0
3848.7
3516.8
3182.2
2932.2
2785.7
2728.0
2694.4
2660.8
2551.9
2303.3
2001.0
1720.1
1497.0
1345.2
1341.1
1329.0
1239.0
1081.8
991.7
954.1
923.2
856.0
810.3
757.9
700.1
632.9
603.4
470.3
317.1
225.8
168.0
83.3
0.0

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