

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: P940495

Luminaire Tested: **GALN-SB3C-830-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940495  
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-SB3C-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20006 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

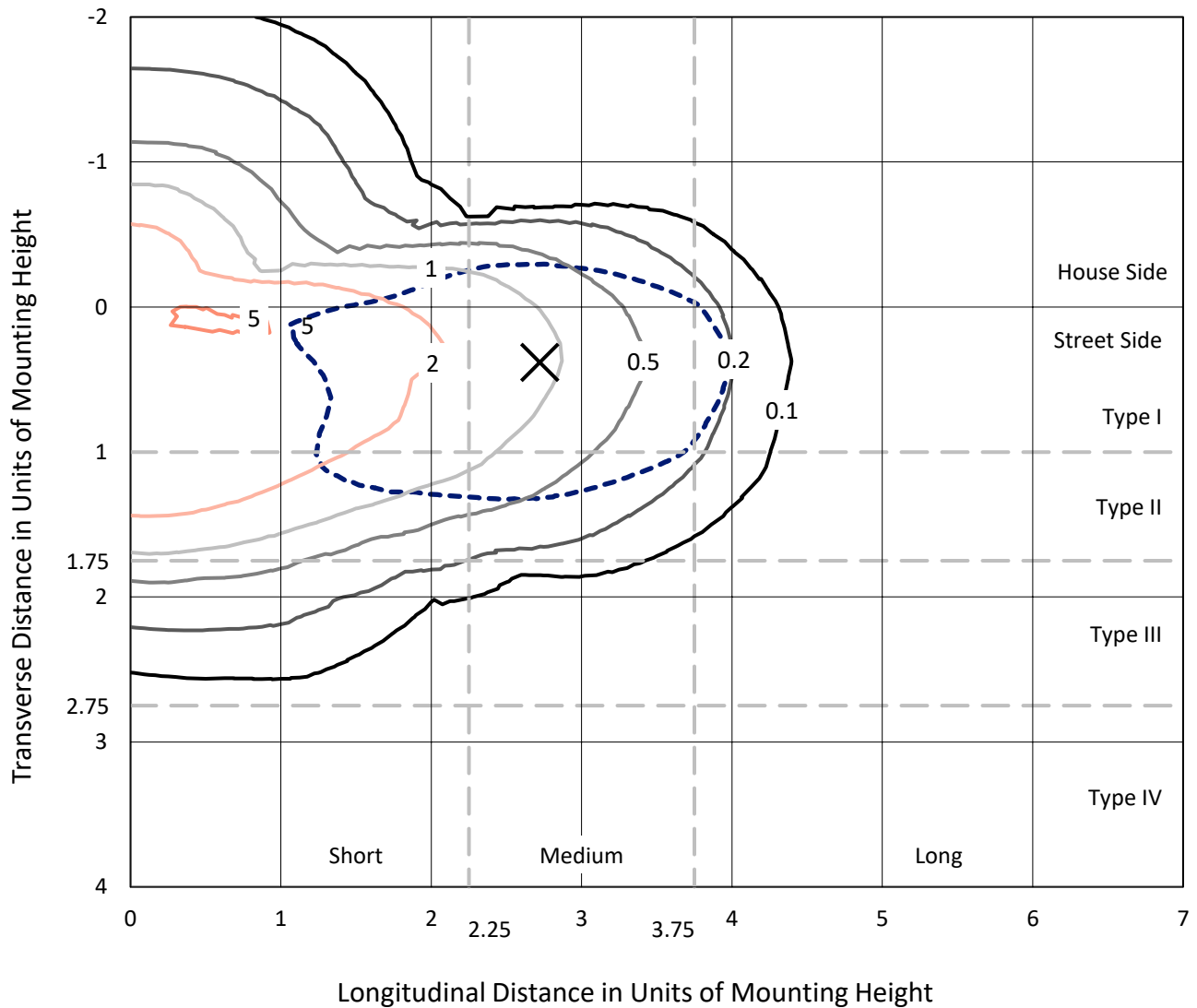
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

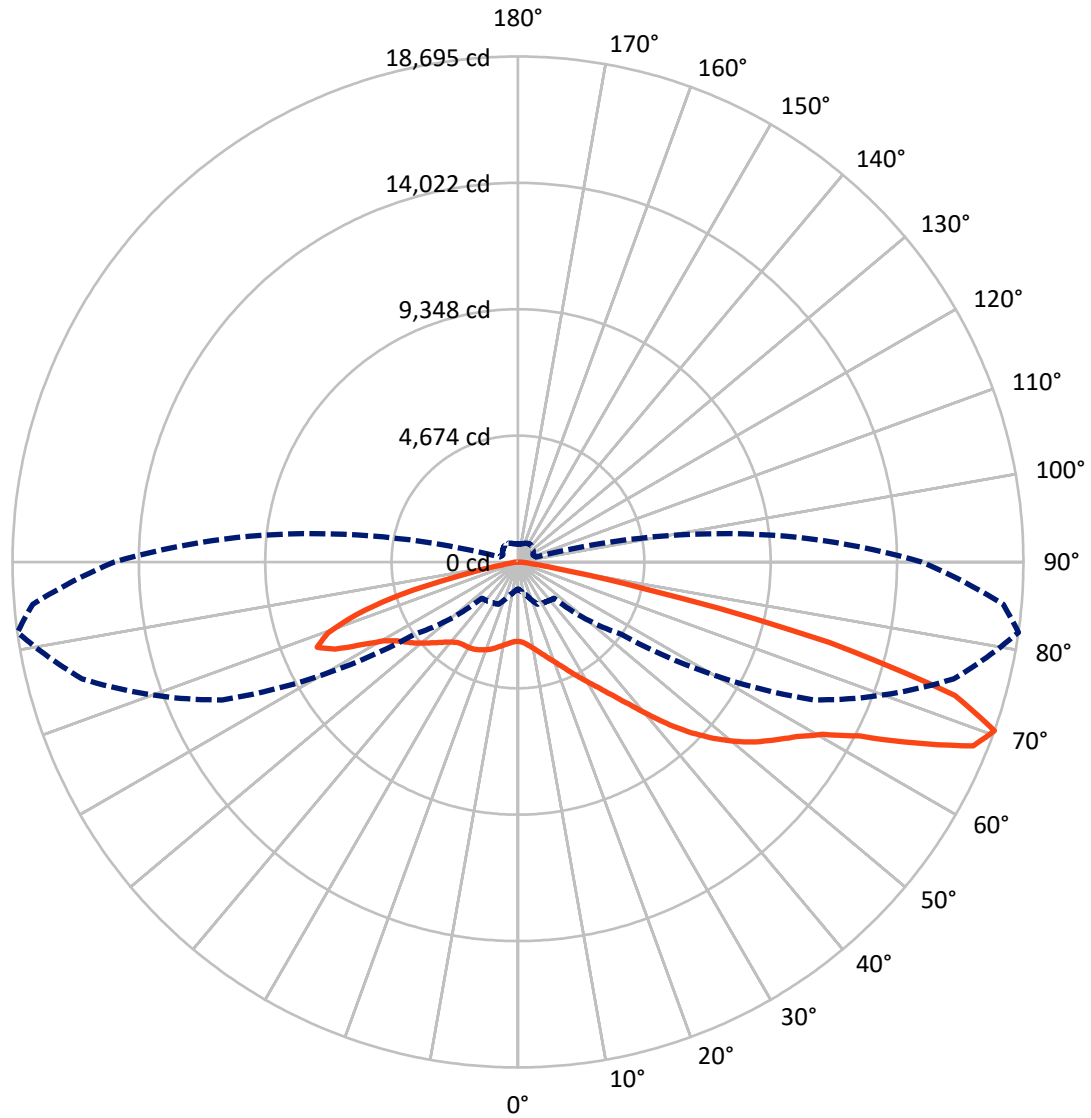
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4932.0	0.0	4932.0
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	15074.0	0.0	15074.0
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	20006.0	0.0	20006.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.9	1.4
10°-20°	795.7	4.0
20°-30°	1331.1	6.7
30°-40°	2079.5	10.4
40°-50°	3311.8	16.6
50°-60°	4608.8	23.0
60°-70°	4821.0	24.1
70°-80°	2519.7	12.6
80°-90°	261.6	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°	20006.0	100.0
0°-180°	20006.0	100.0

**Coefficient of Utilization**



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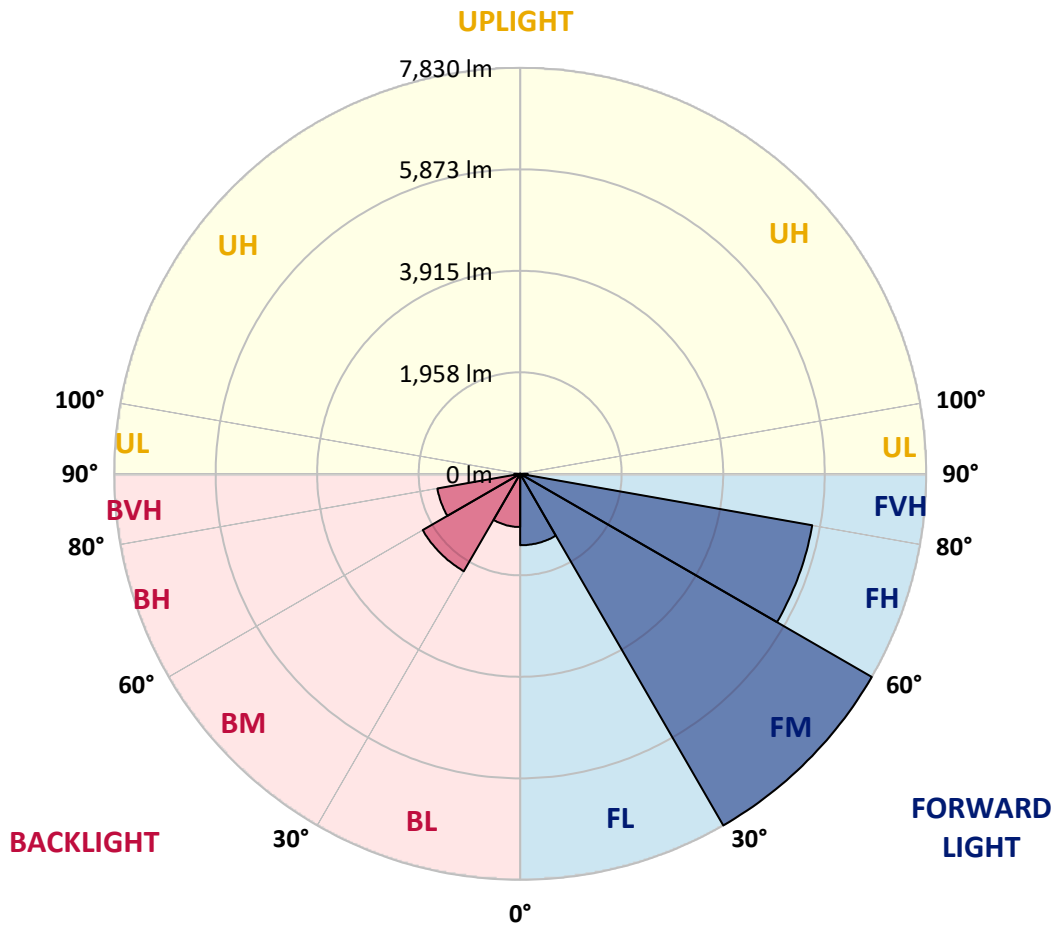
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1377.6	6.9			
FM (30°-60°)	7830.1	39.1			
FH (60°-80°)	5719.8	28.6			G3/7500
FVH (80°-90°)	146.5	0.7			G2/225
BL (0°-30°)	1026.0	5.1	B3/2500		
BM (30°-60°)	2169.9	10.8	B2/2500		
BH (60°-80°)	1620.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	115.2	0.6			G2/225
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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1
2.5°	3003.2	3020.2	3014.9	3009.6	3009.6	3002.1	3001.1	2990.5	2982.0	2968.2
5°	3041.4	3059.5	3057.3	3061.6	3075.4	3078.6	3081.8	3075.4	3058.4	3041.4
7.5°	3007.4	3027.6	3034.0	3059.5	3101.9	3140.1	3168.8	3180.5	3164.6	3140.1
10°	2892.8	2915.1	2937.4	2997.9	3073.3	3163.5	3239.9	3285.6	3282.4	3259.0
12.5°	2660.3	2683.7	2731.4	2849.3	2987.3	3146.5	3288.8	3384.3	3417.2	3400.2
15°	2474.5	2494.7	2530.8	2651.8	2831.2	3073.3	3306.8	3492.6	3576.4	3566.9
17.5°	2469.2	2477.7	2500.0	2557.3	2695.3	2958.6	3287.7	3598.7	3759.0	3758.0
20°	2562.6	2565.8	2578.6	2590.2	2668.8	2871.6	3238.9	3686.8	3963.9	3963.9
22.5°	2692.2	2690.0	2702.8	2692.2	2730.4	2864.1	3208.1	3764.3	4192.2	4209.1
25°	2886.4	2875.8	2872.6	2848.2	2855.6	2933.1	3242.0	3852.5	4462.9	4497.9
27.5°	3145.4	3128.5	3116.8	3060.5	3041.4	3075.4	3346.1	3958.6	4764.3	4824.9
30°	3483.0	3452.2	3435.3	3337.6	3268.6	3273.9	3503.2	4099.8	5079.6	5177.3
32.5°	3943.7	3896.0	3850.3	3690.0	3563.7	3522.3	3706.0	4295.1	5421.5	5577.5
35°	4459.7	4421.5	4372.6	4125.3	3931.0	3835.5	3979.8	4568.0	5821.7	6069.0
37.5°	4956.5	4923.6	4946.9	4613.6	4363.1	4224.0	4338.7	4934.2	6315.3	6680.5
40°	5470.3	5444.8	5448.0	5129.5	4837.6	4681.5	4773.9	5393.9	6881.1	7407.7
42.5°	6028.7	6009.6	5945.9	5663.5	5335.5	5190.0	5275.0	5924.6	7488.3	8235.7
45°	6653.9	6642.3	6582.8	6259.0	5883.2	5719.8	5834.4	6510.6	8098.8	9014.9
47.5°	7194.3	7203.8	7196.4	6923.6	6534.0	6294.1	6431.0	7122.1	8666.7	9747.4
50°	7454.4	7504.3	7577.5	7492.6	7250.6	7006.4	7032.9	7712.3	9208.1	10434.2
52.5°	7318.5	7413.0	7612.5	7748.4	7841.8	7790.9	7719.8	8298.3	9717.7	11054.2
55°	6812.1	6944.8	7276.0	7604.1	8080.7	8451.2	8544.6	8948.0	10214.5	11599.8
57.5°	5889.6	6105.1	6402.4	7065.8	7868.4	8770.7	9506.4	9849.3	10741.0	12182.6
60°	4307.9	4596.6	4966.0	5953.3	7125.3	8599.8	10324.9	11233.6	11489.4	12937.4
62.5°	2756.9	2935.3	3275.0	4204.9	5552.0	7724.0	10575.4	12963.9	12758.0	14175.2
65°	1887.5	2002.1	2313.2	2835.5	3589.2	5749.5	9904.5	14261.2	14772.9	16137.0
67.5°	1371.6	1458.6	1724.0	2181.5	2338.6	3402.3	7685.8	14201.7	16731.5	18158.2
70°	1000.0	1061.6	1284.5	1724.0	1799.4	1892.8	4656.1	12072.2	16689.0	18695.4
72.5°	741.0	783.4	933.1	1337.6	1456.5	1278.1	2304.7	8773.9	14340.8	16909.8
75°	536.1	567.9	678.3	1023.4	1165.6	973.5	1149.7	5127.4	10003.2	11894.9
77.5°	409.8	434.2	506.4	749.5	933.1	730.4	713.4	2358.8	4743.1	4766.5
80°	329.1	345.0	384.3	527.6	715.5	546.7	465.0	952.2	1498.9	1268.6
82.5°	242.0	268.6	324.8	370.5	511.7	376.9	283.4	480.9	570.1	490.4
85°	138.0	156.1	196.4	265.4	327.0	230.4	162.4	213.4	265.4	217.6
87.5°	48.8	63.7	69.0	104.0	142.3	95.5	62.6	61.6	87.0	64.8
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°
2933.1	0°	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1
2965.0	2.5°	2954.4	2949.1	2927.8	2899.2	2869.4	2840.8	2831.2	2811.0	2797.2	2789.8
3034.0	5°	3013.8	2996.8	2946.9	2883.2	2816.4	2744.2	2693.2	2646.5	2612.5	2580.7
3128.5	7.5°	3098.7	3069.0	2983.0	2871.6	2752.7	2632.7	2543.5	2475.6	2429.9	2400.2
3238.9	10°	3197.5	3151.8	3020.2	2853.5	2669.9	2497.9	2392.8	2334.4	2305.7	2289.8
3365.2	12.5°	3311.1	3246.3	3058.4	2812.1	2543.5	2347.1	2275.0	2258.0	2259.0	2260.1
3524.4	15°	3451.2	3360.9	3089.2	2721.9	2379.0	2231.4	2218.7	2246.3	2275.0	2288.8
3704.9	17.5°	3609.4	3482.0	3094.5	2573.3	2217.6	2157.1	2197.5	2256.9	2300.4	2319.5
3906.6	20°	3779.2	3605.1	3056.3	2363.1	2084.9	2096.6	2168.8	2245.2	2293.0	2317.4
4137.0	22.5°	3973.5	3736.7	2965.0	2142.3	1976.7	2030.8	2115.7	2190.0	2239.9	2264.3
4407.7	25°	4195.3	3884.3	2821.7	1956.5	1883.2	1956.5	2041.4	2103.0	2143.3	2165.6
4710.2	27.5°	4441.6	4038.2	2630.6	1808.9	1801.5	1880.0	1950.1	1997.9	2019.1	2036.1
5031.9	30°	4689.0	4178.4	2399.2	1697.5	1730.4	1804.7	1854.6	1875.8	1882.2	1885.4
5390.7	32.5°	4956.5	4299.4	2156.1	1605.1	1662.4	1731.4	1761.2	1770.7	1741.0	1720.8
5825.9	35°	5280.3	4428.9	1918.3	1531.9	1595.5	1655.0	1664.5	1656.1	1621.0	1579.6
6371.6	37.5°	5680.5	4590.2	1728.2	1479.8	1532.9	1572.2	1560.5	1558.4	1561.6	1512.7
7027.6	40°	6170.9	4800.4	1589.2	1439.5	1482.0	1490.5	1457.5	1475.6	1491.5	1417.2
7747.4	42.5°	6715.5	5054.2	1501.1	1411.9	1439.5	1419.3	1368.4	1388.5	1386.4	1288.8
8470.3	45°	7270.7	5330.2	1470.3	1391.7	1400.2	1359.9	1303.6	1308.9	1264.3	1176.2
9163.5	47.5°	7822.7	5626.3	1489.4	1374.7	1351.4	1305.7	1262.2	1238.9	1173.0	1107.2
9828.1	50°	8364.1	5937.4	1559.5	1340.8	1284.5	1258.0	1226.1	1184.7	1114.7	1058.4
10456.5	52.5°	8866.3	6250.5	1638.0	1284.5	1200.6	1216.6	1196.4	1148.6	1079.6	1022.3
11051.0	55°	9341.9	6563.7	1668.8	1207.0	1122.1	1180.5	1168.8	1080.7	997.9	951.2
11673.1	57.5°	9859.9	6940.6	1634.8	1108.3	1058.4	1139.1	1094.5	996.8	949.0	914.0
12483.1	60°	10577.5	7531.9	1561.6	986.2	997.9	1077.5	1001.1	960.7	908.7	869.4
13697.5	62.5°	11769.7	8634.8	1443.7	865.2	926.8	986.2	956.5	916.1	863.1	824.8
15773.9	65°	13531.9	10167.8	1221.9	770.7	847.1	897.0	908.7	868.4	813.2	772.8
17593.5	67.5°	15018.1	11129.5	924.6	692.1	765.4	824.8	857.8	818.5	760.1	720.8
18019.2	70°	14936.4	10431.0	705.9	614.7	693.2	753.7	796.2	765.4	702.8	665.6
16367.4	72.5°	13266.5	8726.1	571.1	536.1	620.0	679.4	730.4	707.0	643.3	607.2
11990.5	75°	9746.3	6194.3	456.5	456.5	528.7	601.9	658.2	643.3	584.9	559.4
5034.0	77.5°	4108.3	2598.7	357.8	379.0	439.5	517.0	587.1	592.4	541.4	573.3
1331.2	80°	1092.4	716.6	272.8	298.3	345.0	426.8	510.6	508.5	453.3	423.6
494.7	82.5°	416.1	282.4	194.3	210.2	249.5	327.0	404.5	417.2	362.0	313.2
194.3	85°	160.3	121.0	120.0	126.3	145.4	216.6	305.7	316.3	272.8	231.4
54.1	87.5°	41.4	36.1	44.6	42.5	66.9	115.7	175.2	181.5	166.7	96.6
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>
2933.1
2798.3
2593.4
2406.6
2294.1
2262.2
2287.7
2323.8
2323.8
2270.7
2172.0
2042.5
1892.8
1727.2
1581.7
1515.9
1419.3
1287.7
1179.4
1107.2
1054.1
1023.4
946.9
910.8
867.3
824.8
774.9
721.9
668.8
607.2
552.0
520.2
393.8
313.2
238.9
138.0
0.0

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