

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: P941245

Luminaire Tested: **GALN-SB4C-940-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941245  
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-SB4C-940-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21551 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

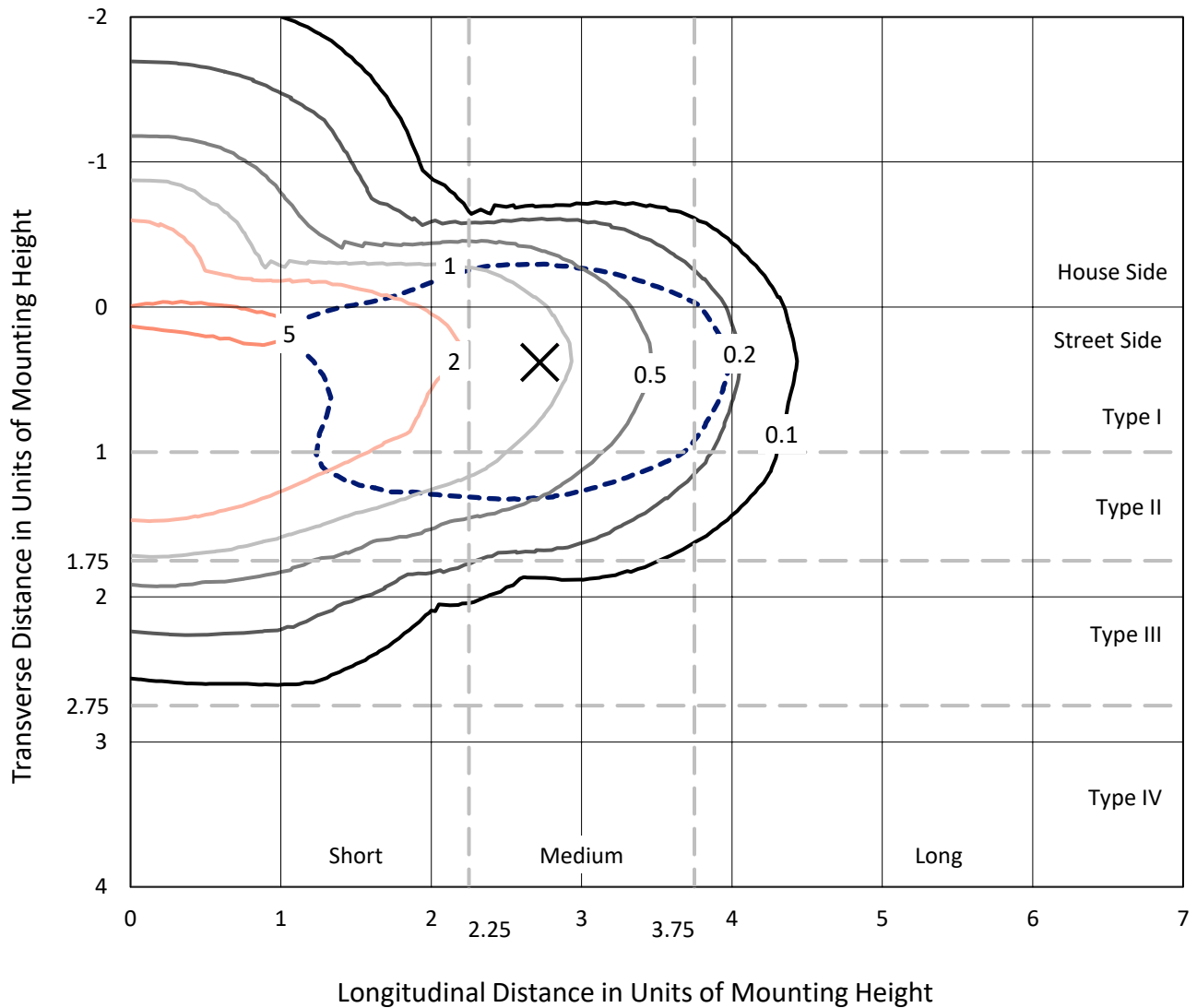
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

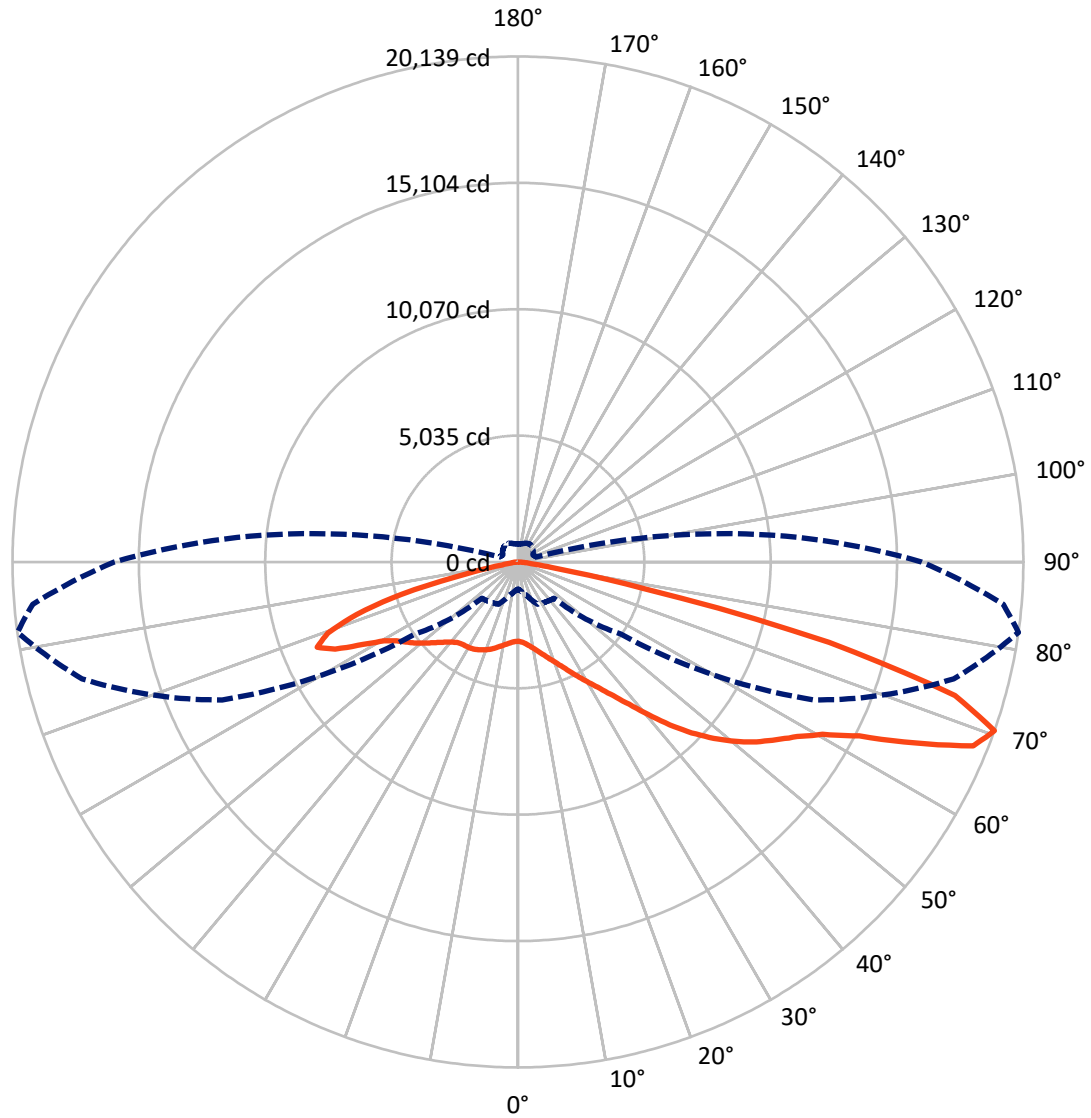
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	5312.8	0.0	5312.8
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	16238.1	0.0	16238.1
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	21551.0	0.0	21551.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.3	1.4
10°-20°	857.1	4.0
20°-30°	1433.9	6.7
30°-40°	2240.1	10.4
40°-50°	3567.5	16.6
50°-60°	4964.7	23.0
60°-70°	5193.3	24.1
70°-80°	2714.3	12.6
80°-90°	281.8	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°	21551.0	100.0
0°-180°	21551.0	100.0

**Coefficient of Utilization**



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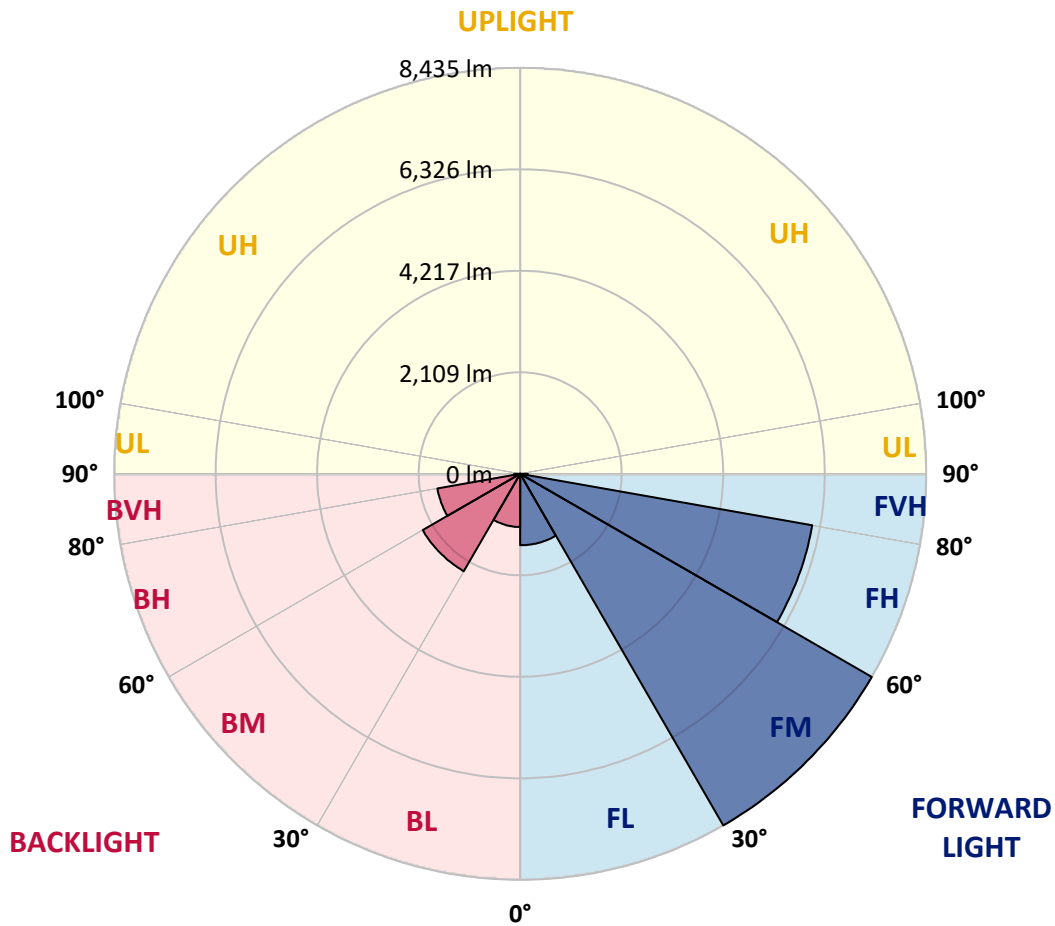
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1484.0	6.9			
FM (30°-60°)	8434.8	39.1			
FH (60°-80°)	6161.5	28.6			G3/7500
FVH (80°-90°)	157.8	0.7			G2/225
BL (0°-30°)	1105.3	5.1	B3/2500		
BM (30°-60°)	2337.4	10.8	B2/2500		
BH (60°-80°)	1746.1	8.1	B3/2500		G3/2500
BVH (80°-90°)	124.1	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°	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6
2.5°	3235.1	3253.4	3247.7	3242.0	3242.0	3234.0	3232.8	3221.4	3212.2	3197.4
5°	3276.3	3295.7	3293.4	3298.0	3312.9	3316.3	3319.7	3312.9	3294.6	3276.3
7.5°	3239.7	3261.4	3268.3	3295.7	3341.5	3382.6	3413.5	3426.1	3408.9	3382.6
10°	3116.2	3140.2	3164.2	3229.4	3310.6	3407.8	3490.1	3539.3	3535.9	3510.7
12.5°	2865.8	2890.9	2942.4	3069.3	3218.0	3389.5	3542.7	3645.7	3681.1	3662.8
15°	2665.6	2687.4	2726.2	2856.6	3049.9	3310.6	3562.2	3762.3	3852.6	3842.3
17.5°	2659.9	2669.1	2693.1	2754.8	2903.5	3187.1	3541.6	3876.7	4049.3	4048.2
20°	2760.5	2764.0	2777.7	2790.3	2874.9	3093.3	3489.0	3971.6	4270.0	4270.0
22.5°	2900.1	2897.8	2911.5	2900.1	2941.2	3085.3	3455.8	4055.1	4515.9	4534.2
25°	3109.3	3097.9	3094.5	3068.2	3076.2	3159.6	3492.4	4150.0	4807.5	4845.2
27.5°	3388.4	3370.1	3357.5	3296.9	3276.3	3312.9	3604.5	4264.3	5132.3	5197.5
30°	3752.0	3718.8	3700.5	3595.3	3521.0	3526.7	3773.7	4416.4	5471.9	5577.1
32.5°	4248.3	4196.9	4147.7	3975.0	3838.9	3794.3	3992.2	4626.8	5840.1	6008.2
35°	4804.1	4762.9	4710.3	4443.9	4234.6	4131.7	4287.2	4920.7	6271.3	6537.7
37.5°	5339.3	5303.8	5329.0	4969.9	4700.0	4550.2	4673.7	5315.2	6803.0	7196.4
40°	5892.7	5865.3	5868.7	5525.7	5211.2	5043.1	5142.6	5810.4	7412.5	7979.7
42.5°	6494.3	6473.7	6405.1	6100.9	5747.5	5590.8	5682.3	6382.2	8066.6	8871.7
45°	7167.8	7155.2	7091.2	6742.4	6337.6	6161.5	6285.0	7013.4	8724.2	9711.1
47.5°	7749.9	7760.2	7752.2	7458.3	7038.6	6780.1	6927.7	7672.1	9336.0	10500.1
50°	8030.1	8083.8	8162.7	8071.2	7810.5	7547.5	7576.1	8307.9	9919.2	11240.0
52.5°	7883.7	7985.5	8200.4	8346.8	8447.5	8392.6	8315.9	8939.2	10468.1	11907.9
55°	7338.2	7481.1	7837.9	8191.3	8704.8	9103.9	9204.5	9639.0	11003.3	12495.6
57.5°	6344.5	6576.6	6896.8	7611.5	8476.0	9448.1	10240.5	10609.9	11570.5	13123.5
60°	4640.6	4951.6	5349.6	6413.1	7675.5	9263.9	11122.2	12101.1	12376.7	13936.5
62.5°	2969.8	3161.9	3527.9	4529.6	5980.8	8320.5	11392.1	13965.1	13743.3	15269.9
65°	2033.2	2156.7	2491.8	3054.4	3866.4	6193.5	10669.4	15362.5	15913.7	17383.2
67.5°	1477.5	1571.2	1857.1	2350.0	2519.3	3665.1	8279.3	15298.5	18023.6	19560.5
70°	1077.2	1143.6	1383.7	1857.1	1938.3	2039.0	5015.6	13004.5	17977.8	20139.2
72.5°	798.2	843.9	1005.2	1440.9	1569.0	1376.8	2482.7	9451.5	15448.3	18215.7
75°	577.5	611.8	730.7	1102.4	1255.6	1048.6	1238.5	5523.4	10775.7	12813.5
77.5°	441.4	467.7	545.5	807.4	1005.2	786.8	768.5	2541.0	5109.4	5134.6
80°	354.5	371.7	414.0	568.3	770.8	588.9	500.9	1025.8	1614.7	1366.5
82.5°	260.7	289.3	349.9	399.1	551.2	406.0	305.3	518.0	614.1	528.3
85°	148.7	168.1	211.6	285.9	352.2	248.2	175.0	229.9	285.9	234.4
87.5°	52.6	68.6	74.3	112.1	153.2	102.9	67.5	66.3	93.8	69.8
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°
3159.6	0°	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6
3194.0	2.5°	3182.5	3176.8	3153.9	3123.1	3091.0	3060.2	3049.9	3028.1	3013.3	3005.3
3268.3	5°	3246.6	3228.3	3174.5	3105.9	3033.9	2956.1	2901.2	2850.9	2814.3	2780.0
3370.1	7.5°	3338.0	3306.0	3213.4	3093.3	2965.2	2836.0	2740.0	2666.8	2617.6	2585.6
3489.0	10°	3444.4	3395.2	3253.4	3073.9	2876.0	2690.8	2577.6	2514.7	2483.8	2466.7
3625.1	12.5°	3566.8	3497.0	3294.6	3029.3	2740.0	2528.4	2450.6	2432.3	2433.5	2434.6
3796.6	15°	3717.7	3620.5	3327.7	2932.1	2562.7	2403.8	2390.0	2419.8	2450.6	2465.5
3991.0	17.5°	3888.1	3750.9	3333.5	2772.0	2388.9	2323.7	2367.2	2431.2	2478.1	2498.7
4208.3	20°	4071.1	3883.5	3292.3	2545.6	2245.9	2258.5	2336.3	2418.6	2470.1	2496.4
4456.4	22.5°	4280.3	4025.3	3194.0	2307.7	2129.3	2187.6	2279.1	2359.2	2412.9	2439.2
4748.0	25°	4519.3	4184.3	3039.6	2107.6	2028.7	2107.6	2199.1	2265.4	2308.8	2332.9
5074.0	27.5°	4784.6	4350.1	2833.7	1948.6	1940.6	2025.2	2100.7	2152.2	2175.0	2193.3
5420.5	30°	5051.1	4501.0	2584.4	1828.5	1864.0	1944.0	1997.8	2020.7	2027.5	2031.0
5807.0	32.5°	5339.3	4631.4	2322.6	1729.1	1790.8	1865.1	1897.2	1907.5	1875.4	1853.7
6275.8	35°	5688.0	4770.9	2066.4	1650.2	1718.8	1782.8	1793.1	1783.9	1746.2	1701.6
6863.6	37.5°	6119.2	4944.7	1861.7	1594.1	1651.3	1693.6	1681.0	1678.7	1682.2	1629.6
7570.3	40°	6647.5	5171.2	1711.9	1550.7	1596.4	1605.6	1570.1	1589.5	1606.7	1526.6
8345.7	42.5°	7234.1	5444.5	1617.0	1520.9	1550.7	1528.9	1474.0	1495.8	1493.5	1388.3
9124.4	45°	7832.2	5741.8	1583.8	1499.2	1508.4	1464.9	1404.3	1410.0	1362.0	1267.1
9871.2	47.5°	8426.9	6060.8	1604.4	1480.9	1455.7	1406.6	1359.7	1334.5	1263.6	1192.7
10587.0	50°	9010.1	6395.9	1679.9	1444.3	1383.7	1355.1	1320.8	1276.2	1200.7	1140.1
11264.0	52.5°	9551.0	6733.3	1764.5	1383.7	1293.4	1310.5	1288.8	1237.3	1163.0	1101.2
11904.4	55°	10063.3	7070.6	1797.7	1300.2	1208.7	1271.6	1259.1	1164.1	1074.9	1024.6
12574.5	57.5°	10621.4	7476.6	1761.1	1193.9	1140.1	1227.0	1179.0	1073.8	1022.3	984.6
13447.1	60°	11394.4	8113.5	1682.2	1062.4	1074.9	1160.7	1078.4	1034.9	978.9	936.6
14755.3	62.5°	12678.6	9301.7	1555.2	932.0	998.3	1062.4	1030.3	986.9	929.7	888.5
16992.1	65°	14576.9	10953.0	1316.2	830.2	912.6	966.3	978.9	935.4	876.0	832.5
18952.2	67.5°	16177.9	11989.0	996.0	745.6	824.5	888.5	924.0	881.7	818.8	776.5
19410.7	70°	16089.8	11236.6	760.5	662.1	746.7	811.9	857.7	824.5	757.0	717.0
17631.4	72.5°	14291.0	9400.0	615.2	577.5	667.8	731.9	786.8	761.6	693.0	654.1
12916.5	75°	10499.0	6672.7	491.7	491.7	569.5	648.4	709.0	693.0	630.1	602.7
5422.7	77.5°	4425.6	2799.4	385.4	408.2	473.4	556.9	632.4	638.1	583.2	617.5
1434.0	80°	1176.7	771.9	293.9	321.3	371.7	459.7	550.1	547.8	488.3	456.3
532.9	82.5°	448.3	304.2	209.3	226.4	268.7	352.2	435.7	449.4	390.0	337.3
209.3	85°	172.7	130.4	129.2	136.1	156.7	233.3	329.3	340.8	293.9	249.3
58.3	87.5°	44.6	38.9	48.0	45.7	72.0	124.6	188.7	195.5	179.5	104.1
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>
3159.6
3014.4
2793.7
2592.4
2471.2
2436.9
2464.4
2503.2
2503.2
2446.1
2339.7
2200.2
2039.0
1860.6
1703.9
1633.0
1528.9
1387.1
1270.5
1192.7
1135.6
1102.4
1020.1
981.2
934.3
888.5
834.8
777.6
720.4
654.1
594.6
560.3
424.3
337.3
257.3
148.7
0.0

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