

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: P940482

Luminaire Tested: **GALN-SB3C-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940482  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3C-827-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

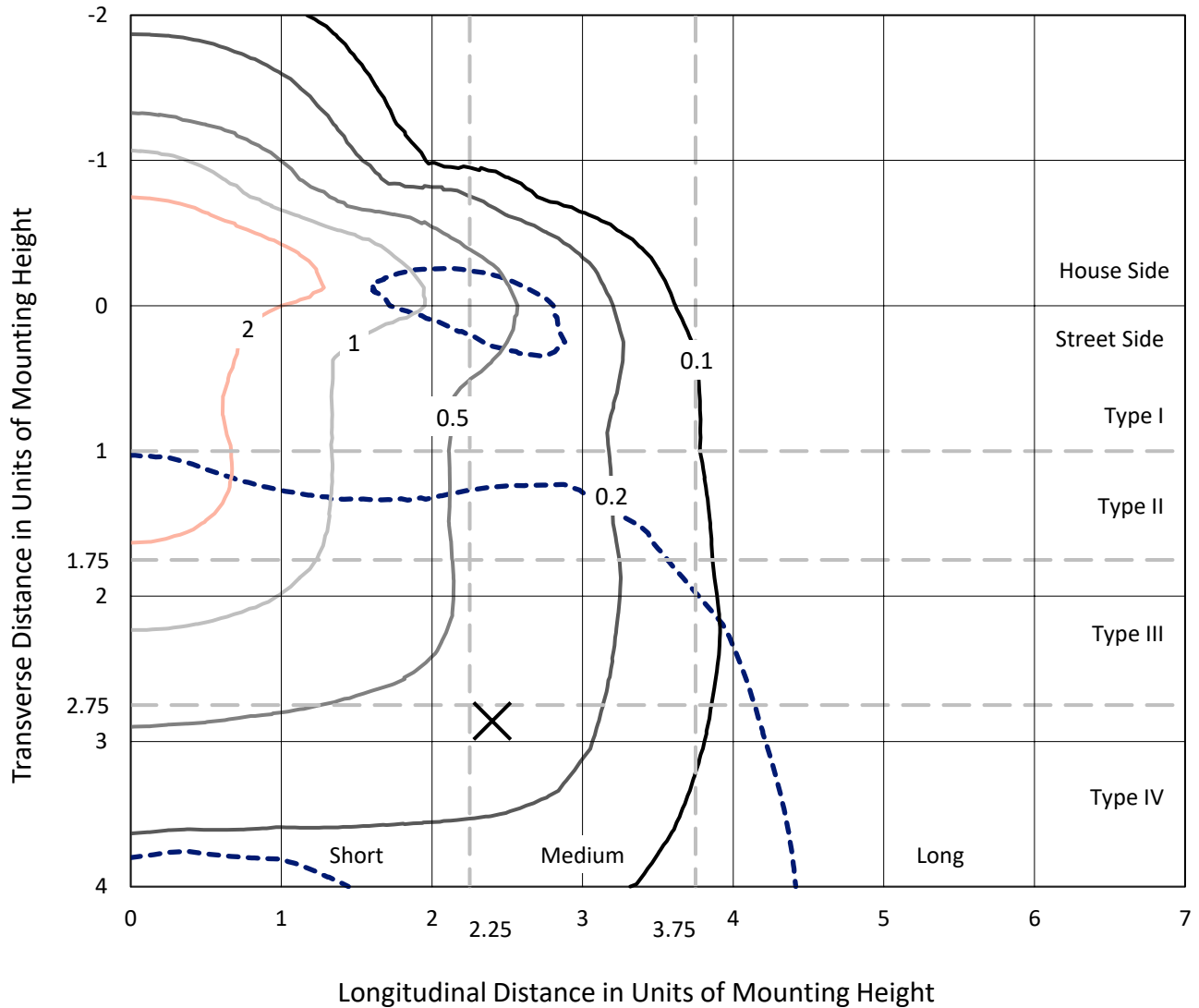
Lumens per Lamp: N/A  
Luminaire Lumens: 19368 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

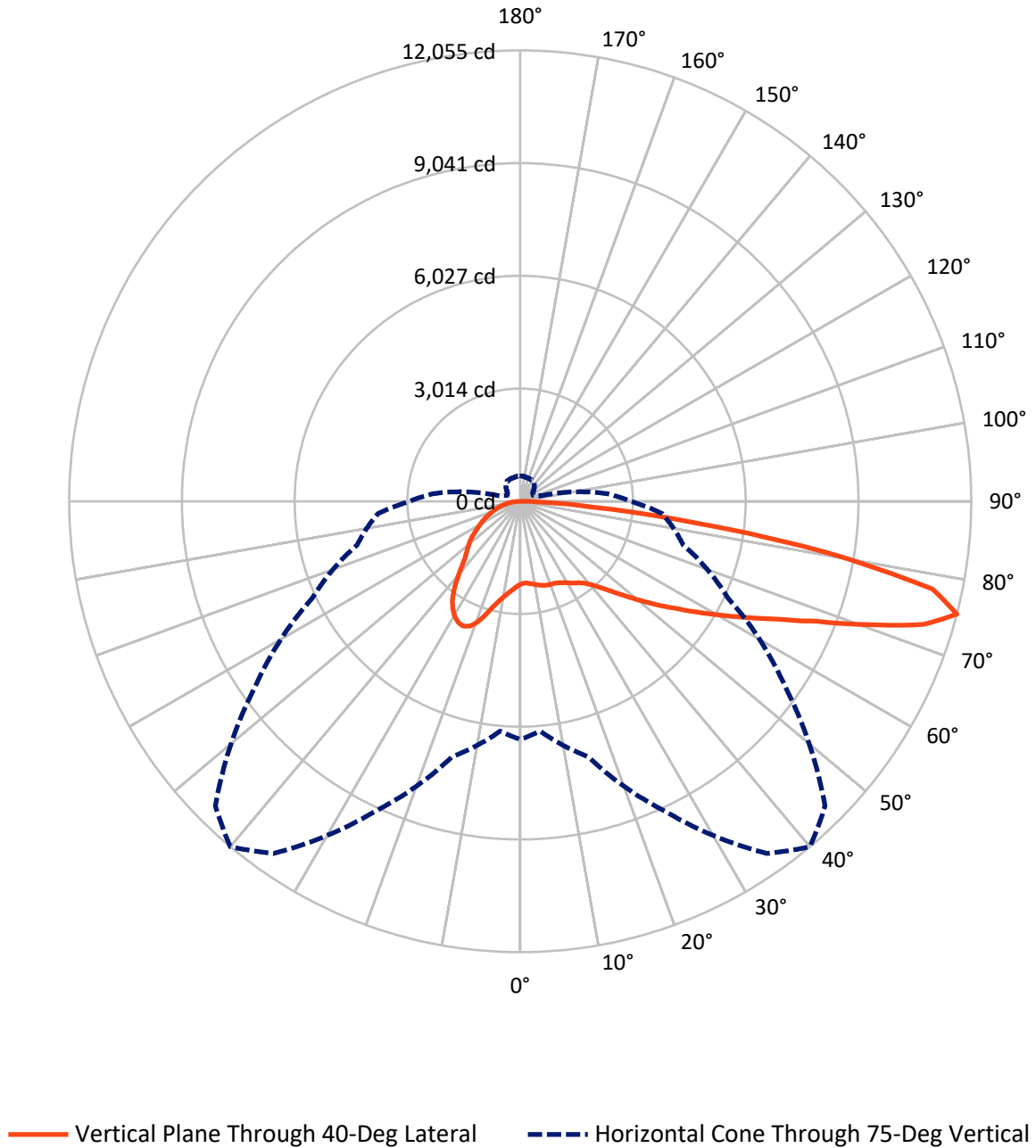
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6000.9	0.0	6000.9
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	13367.2	0.0	13367.2
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	19368.0	0.0	19368.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.1	1.1
10°-20°	742.2	3.8
20°-30°	1355.3	7.0
30°-40°	1922.2	9.9
40°-50°	2595.5	13.4
50°-60°	3491.7	18.0
60°-70°	4431.7	22.9
70°-80°	4022.1	20.8
80°-90°	586.3	3.0
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°	19368.0	100.0
0°-180°	19368.0	100.0

**Coefficient of Utilization**



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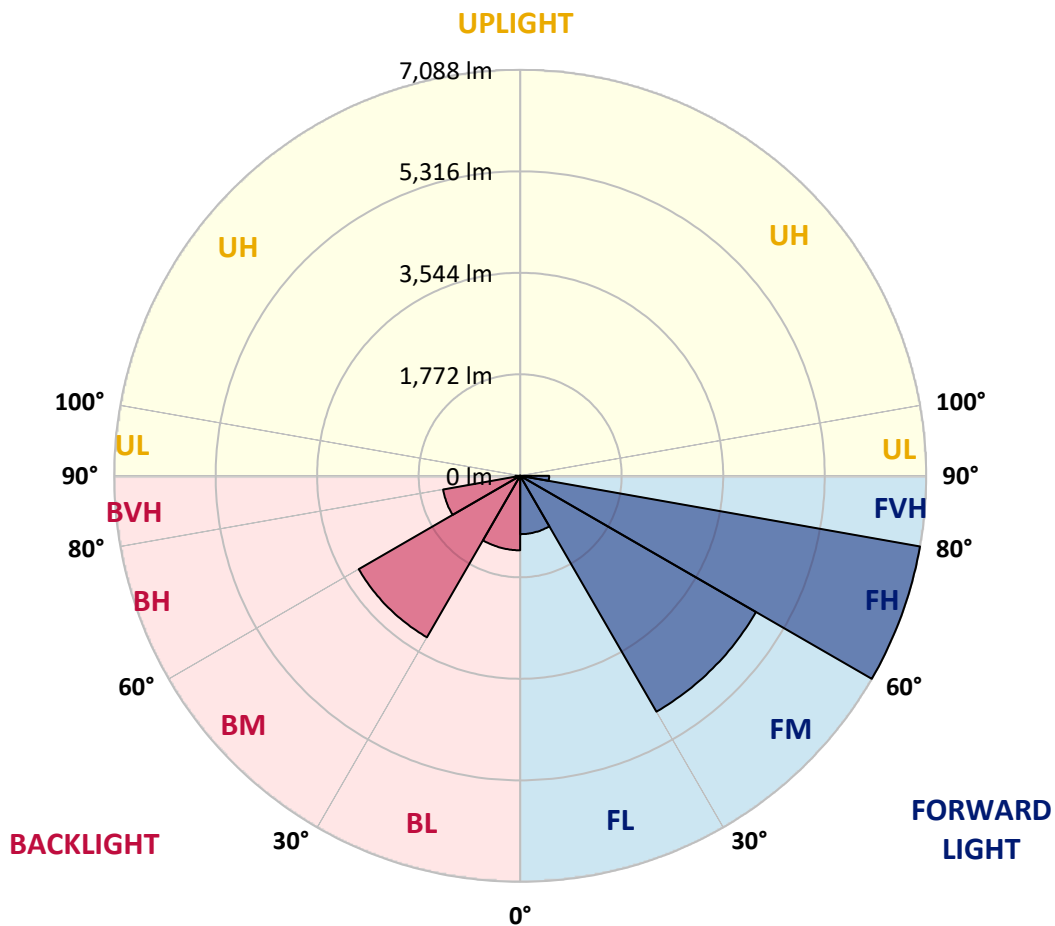
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.8	5.3			
FM (30°-60°)	4754.4	24.5			
FH (60°-80°)	7088.4	36.6			G3/7500
FVH (80°-90°)	505.6	2.6			G4/750
BL (0°-30°)	1299.8	6.7	B3/2500		
BM (30°-60°)	3254.9	16.8	B3/5000		
BH (60°-80°)	1365.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	80.7	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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8
2.5°	2180.9	2193.2	2190.1	2186.0	2186.0	2187.0	2186.0	2193.2	2200.4	2207.6
5°	2203.5	2215.8	2209.6	2204.5	2200.4	2199.3	2196.3	2195.2	2199.3	2208.6
7.5°	2247.6	2260.0	2250.7	2241.5	2233.2	2229.1	2225.0	2218.9	2215.8	2220.9
10°	2296.9	2309.3	2298.0	2281.5	2268.2	2263.0	2258.9	2252.8	2248.7	2251.7
12.5°	2346.2	2358.6	2343.2	2320.6	2303.1	2300.0	2294.9	2292.8	2291.8	2290.8
15°	2392.5	2402.7	2383.2	2356.5	2338.0	2332.9	2327.8	2330.8	2336.0	2342.1
17.5°	2428.4	2438.7	2409.9	2375.0	2357.5	2355.5	2352.4	2362.7	2377.1	2392.5
20°	2461.3	2471.6	2434.6	2387.3	2366.8	2366.8	2367.8	2389.4	2409.9	2432.5
22.5°	2507.5	2515.7	2470.5	2405.8	2376.0	2378.1	2386.3	2407.9	2433.6	2464.4
25°	2576.3	2582.5	2527.0	2440.8	2406.9	2413.0	2420.2	2430.5	2455.1	2491.1
27.5°	2687.3	2692.4	2619.5	2502.4	2451.0	2461.3	2471.6	2464.4	2475.7	2506.5
30°	2843.4	2846.5	2754.1	2598.9	2526.0	2531.2	2533.2	2503.4	2481.8	2506.5
32.5°	3028.3	3027.3	2917.4	2716.1	2611.3	2606.1	2588.7	2530.1	2479.8	2501.4
35°	3314.9	3303.6	3161.9	2880.4	2707.8	2676.0	2634.9	2559.9	2490.1	2496.2
37.5°	3789.5	3754.6	3558.4	3149.6	2851.7	2770.5	2709.9	2608.2	2512.7	2494.2
40°	4324.7	4280.6	4064.8	3518.3	3067.4	2936.9	2839.3	2677.0	2549.6	2503.4
42.5°	4959.6	4896.9	4664.8	3952.9	3340.6	3151.6	3004.7	2764.3	2604.1	2533.2
45°	5739.3	5656.1	5327.3	4442.9	3684.8	3433.1	3236.9	2896.9	2687.3	2590.7
47.5°	6527.2	6547.7	6080.3	5003.7	4097.7	3780.3	3527.6	3096.1	2808.5	2683.2
50°	7364.4	7378.8	6829.2	5625.2	4566.1	4172.7	3854.3	3319.1	2977.0	2814.7
52.5°	8017.7	8019.8	7509.2	6275.5	5054.1	4604.1	4206.6	3573.8	3172.2	2989.3
55°	8426.6	8421.4	7985.9	6890.8	5615.0	5057.2	4597.0	3863.5	3410.5	3194.8
57.5°	8723.4	8708.0	8314.6	7419.8	6212.8	5592.4	5038.7	4192.2	3691.9	3439.2
60°	8836.4	8827.2	8537.5	7877.0	6841.5	6184.1	5548.2	4560.0	4011.4	3727.9
62.5°	8879.6	8897.0	8756.3	8319.7	7514.4	6839.4	6108.0	4999.6	4371.0	4054.6
65°	9031.6	9063.4	9034.7	8899.1	8274.5	7606.8	6850.7	5522.5	4763.4	4404.9
67.5°	9332.6	9364.4	9376.8	9592.5	9203.2	8563.2	7777.3	6173.8	5222.6	4768.5
70°	9325.4	9316.2	9533.9	10144.1	10366.0	9887.3	9026.5	6975.0	5770.1	5070.5
72.5°	8488.2	8414.2	8928.9	10138.0	11333.7	11270.0	10551.9	8008.5	6242.6	5107.5
75°	6367.9	6170.7	7079.8	9136.4	11495.0	12054.8	11521.7	8649.5	6130.6	4512.7
77.5°	2723.2	2525.0	3596.4	6763.4	10287.9	11269.0	10632.1	7546.2	4893.8	2984.2
80°	712.9	711.9	1086.8	3066.3	6996.6	8321.8	7300.7	4873.3	2796.2	1066.3
82.5°	294.8	287.6	399.6	1192.6	3418.7	4669.9	3811.1	2173.7	1009.8	288.7
85°	109.9	108.9	194.2	411.9	1206.0	1926.1	1394.0	555.7	251.7	140.7
87.5°	30.8	29.8	42.1	142.8	293.8	445.8	238.3	91.4	70.9	55.5
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°
2214.8	0°	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8
2218.9	2.5°	2221.9	2227.1	2236.3	2243.5	2252.8	2263.0	2277.4	2286.7	2295.9	2302.1
2224.0	5°	2231.2	2242.5	2266.1	2289.7	2317.5	2343.2	2373.0	2394.5	2412.0	2417.1
2242.5	7.5°	2251.7	2270.2	2310.3	2350.4	2394.5	2436.6	2479.8	2516.8	2546.6	2557.9
2275.4	10°	2287.7	2312.3	2368.8	2425.3	2483.9	2548.6	2604.1	2657.5	2699.6	2717.1
2314.4	12.5°	2332.9	2363.7	2437.7	2515.7	2596.9	2686.3	2758.2	2823.9	2876.3	2899.9
2368.8	15°	2391.4	2431.5	2526.0	2630.8	2750.0	2874.3	2965.7	3038.6	3097.2	3125.9
2425.3	17.5°	2455.1	2508.6	2627.7	2785.9	2956.4	3119.8	3226.6	3280.0	3340.6	3368.4
2477.7	20°	2516.8	2582.5	2753.0	2983.1	3210.2	3383.8	3470.1	3484.4	3488.5	3491.6
2527.0	22.5°	2580.5	2668.8	2910.2	3231.7	3475.2	3595.4	3607.7	3546.1	3459.8	3419.7
2575.3	25°	2650.3	2767.4	3115.7	3506.0	3703.2	3717.6	3623.1	3473.1	3309.8	3234.8
2614.4	27.5°	2718.1	2881.4	3362.2	3768.0	3867.6	3741.3	3537.9	3325.2	3128.0	3048.9
2642.1	30°	2785.9	3011.9	3634.4	3997.0	3942.6	3682.7	3403.3	3166.0	2967.7	2884.5
2666.7	32.5°	2854.7	3163.9	3947.7	4162.4	3929.2	3558.4	3235.8	2987.3	2812.6	2725.3
2688.3	35°	2932.8	3350.9	4244.6	4252.8	3839.9	3375.6	3015.0	2773.6	2621.5	2551.7
2714.0	37.5°	3034.5	3588.2	4506.6	4275.4	3683.7	3107.4	2740.7	2520.9	2395.6	2363.7
2752.0	40°	3160.9	3873.8	4706.9	4239.5	3452.6	2781.8	2440.8	2265.1	2194.2	2201.4
2803.4	42.5°	3325.2	4193.2	4847.6	4147.0	3131.1	2445.9	2177.8	2099.7	2133.6	2162.4
2880.4	45°	3538.9	4525.0	4934.9	3989.8	2767.4	2161.3	2022.7	2041.2	2066.8	2069.9
3004.7	47.5°	3812.1	4861.0	4992.4	3752.6	2396.6	1961.0	1924.0	1928.2	1923.0	1901.4
3190.6	50°	4153.2	5187.6	5043.8	3438.2	2081.2	1835.7	1786.4	1772.0	1701.1	1631.3
3438.2	52.5°	4541.5	5487.6	5065.4	3047.9	1835.7	1730.9	1650.8	1560.4	1427.9	1406.3
3749.5	55°	4972.9	5764.9	5009.9	2568.1	1629.2	1596.4	1475.1	1366.2	1351.9	1333.4
4159.3	57.5°	5488.6	6063.9	4896.9	2032.9	1417.6	1439.2	1321.0	1333.4	1307.7	1278.9
4686.3	60°	6052.6	6373.1	4698.7	1545.0	1198.8	1243.0	1281.0	1280.0	1272.8	1249.1
5242.1	62.5°	6560.0	6576.5	4308.3	1183.4	1006.7	1090.9	1194.7	1193.7	1187.5	1174.1
5822.5	65°	6862.0	6545.7	3657.0	931.7	848.5	965.6	1077.6	1085.8	1086.8	1085.8
6259.1	67.5°	6808.6	6185.1	2763.3	741.7	718.0	838.2	961.5	972.8	981.0	983.1
6314.5	70°	6204.6	5393.1	1801.8	591.7	602.0	726.3	851.6	862.9	870.1	878.3
5479.4	72.5°	4836.3	3965.2	1031.4	478.7	500.3	629.7	742.7	756.1	760.2	775.6
3813.2	75°	2947.2	2331.9	556.8	377.0	410.9	538.3	634.8	650.3	657.4	675.9
1872.7	77.5°	1401.2	1009.8	317.4	293.8	330.8	439.7	536.2	553.7	534.2	544.4
516.7	80°	473.6	374.9	200.3	223.9	252.7	343.1	429.4	446.9	405.8	403.7
171.6	82.5°	165.4	152.0	127.4	149.0	163.3	245.5	324.6	347.2	302.0	301.0
77.0	85°	64.7	61.6	70.9	81.2	97.6	151.0	213.7	225.0	185.9	150.0
22.6	87.5°	13.4	14.4	17.5	18.5	29.8	52.4	77.0	94.5	75.0	63.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
2214.8
2298.0
2419.2
2558.9
2718.1
2899.9
3123.9
3367.3
3499.8
3431.0
3246.1
3058.1
2893.8
2736.6
2567.1
2386.3
2226.1
2189.1
2090.5
1917.9
1640.5
1413.5
1336.5
1273.8
1240.9
1169.0
1085.8
985.1
882.4
781.7
678.0
536.2
399.6
286.6
147.9
58.6
0.0

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