

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: P948584

Luminaire Tested: **GALN-SB3C-830-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
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-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

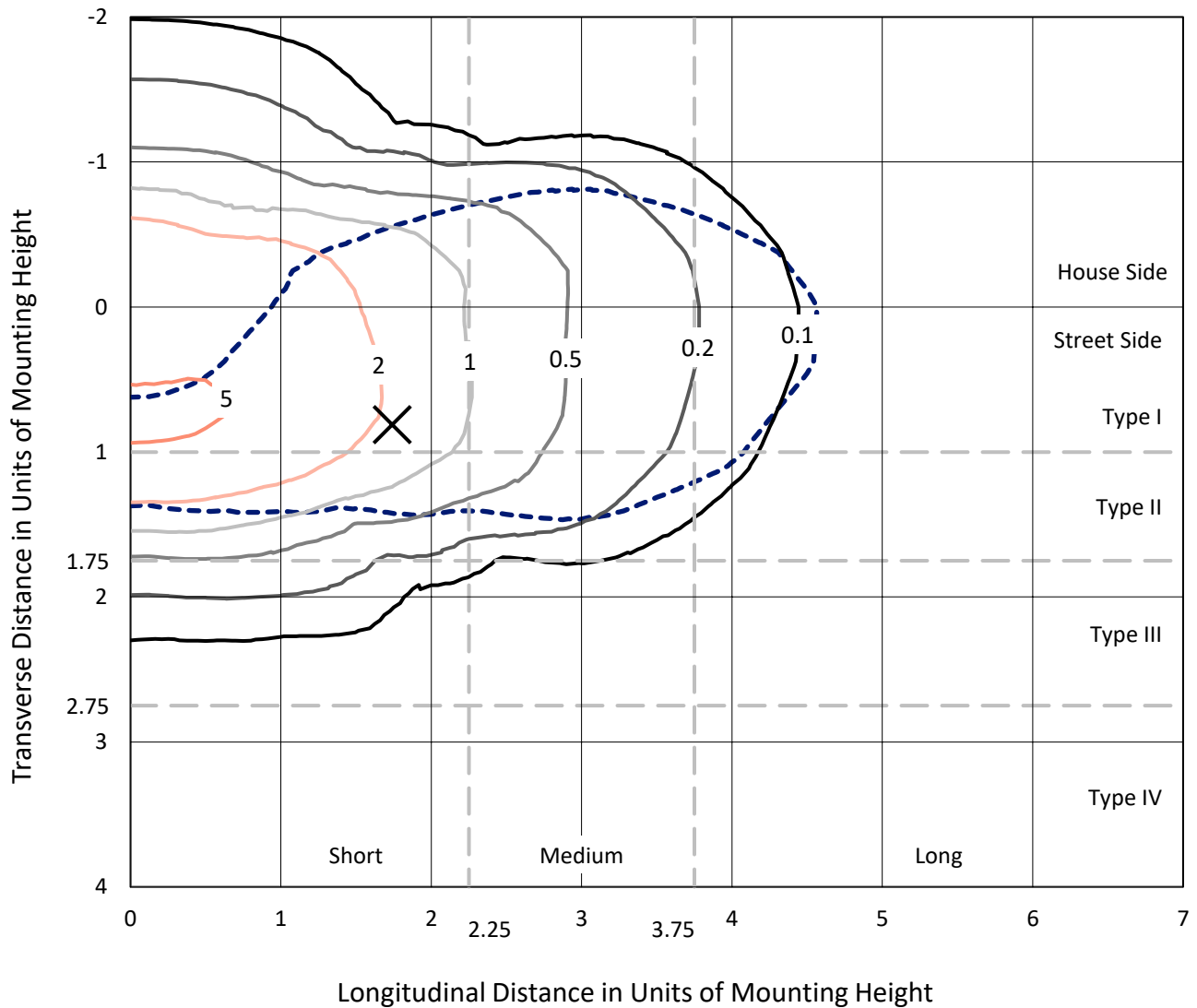
Lumens per Lamp: N/A  
Luminaire Lumens: 20461 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

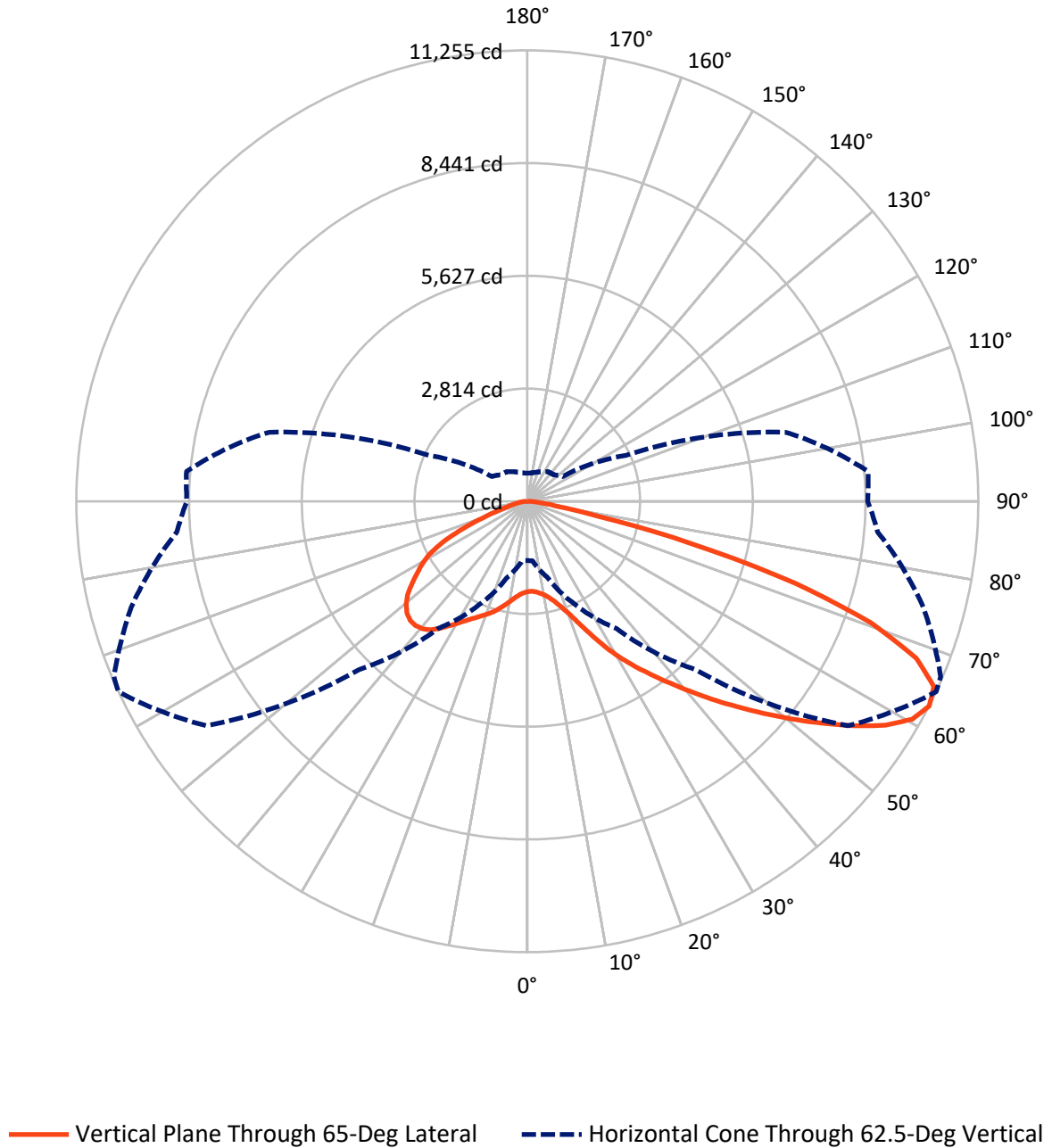
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6456.6	0.0	6456.6
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	14004.4	0.0	14004.4
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	20461.0	0.0	20461.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.8	1.1
10°-20°	762.3	3.7
20°-30°	1545.6	7.6
30°-40°	2674.7	13.1
40°-50°	4047.6	19.8
50°-60°	4745.6	23.2
60°-70°	3978.6	19.4
70°-80°	2196.5	10.7
80°-90°	285.3	1.4
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°	20461.0	100.0
0°-180°	20461.0	100.0



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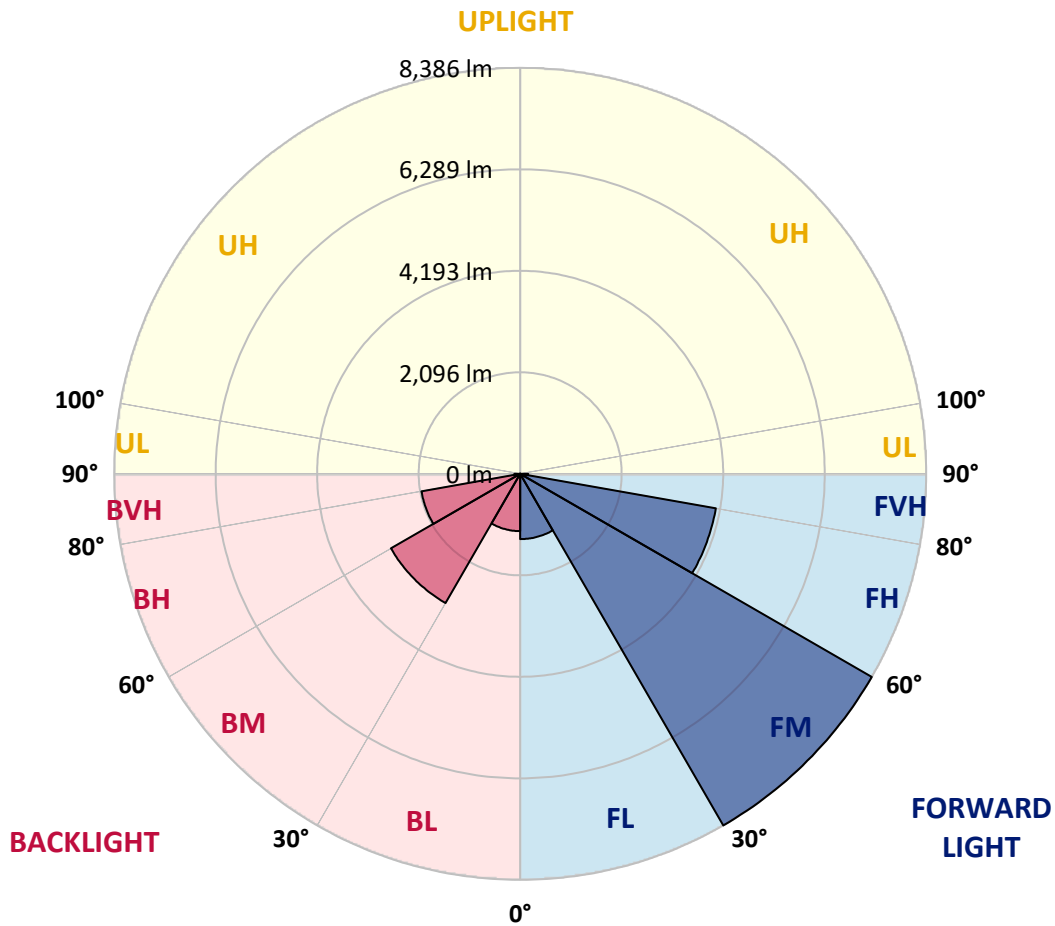
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.7	6.6			
FM (30°-60°)	8385.6	41.0			
FH (60°-80°)	4103.9	20.1			G2/5000
FVH (80°-90°)	166.3	0.8			G2/225
BL (0°-30°)	1184.1	5.8	B3/2500		
BM (30°-60°)	3082.3	15.1	B3/5000		
BH (60°-80°)	2071.2	10.1	B3/2500		G3/2500
BVH (80°-90°)	119.0	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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7
2.5°	2239.9	2233.5	2238.8	2238.8	2240.9	2239.9	2247.3	2249.4	2252.6	2259.0
5°	2217.6	2216.5	2226.1	2234.5	2243.0	2250.5	2260.0	2273.8	2275.9	2283.4
7.5°	2210.1	2203.8	2218.6	2229.2	2249.4	2267.5	2292.9	2316.3	2325.8	2329.0
10°	2267.5	2256.8	2270.6	2277.0	2294.0	2312.0	2341.8	2378.9	2389.5	2402.3
12.5°	2365.1	2353.4	2373.6	2383.2	2399.1	2415.0	2435.2	2471.3	2476.6	2499.9
15°	2498.9	2485.1	2497.8	2509.5	2536.0	2550.9	2571.1	2606.1	2606.1	2624.1
17.5°	2680.4	2662.3	2671.9	2676.1	2693.1	2715.4	2749.4	2780.2	2796.1	2789.7
20°	2951.1	2928.8	2928.8	2907.6	2901.2	2919.2	2963.8	3006.3	3023.3	2990.4
22.5°	3357.7	3325.8	3307.8	3235.6	3206.9	3209.0	3253.6	3305.6	3319.4	3261.1
25°	3874.6	3824.7	3800.3	3694.2	3629.4	3573.1	3608.2	3675.1	3694.2	3622.0
27.5°	4391.6	4394.8	4371.4	4244.0	4136.8	4033.9	4015.8	4085.9	4106.0	4024.3
30°	5116.6	5041.3	4996.7	4843.8	4691.0	4546.6	4472.3	4500.9	4506.2	4408.6
32.5°	5741.9	5722.8	5627.2	5493.5	5297.1	5071.0	4946.8	4901.1	4892.6	4753.6
35°	6454.2	6443.6	6342.7	6183.5	5971.2	5657.0	5433.0	5302.4	5291.8	5096.5
37.5°	7178.1	7178.1	7079.4	6905.3	6685.6	6292.8	5952.1	5745.1	5711.1	5456.3
40°	7755.6	7720.6	7738.6	7665.4	7413.8	6996.6	6528.5	6228.1	6182.4	5876.7
42.5°	8083.6	8072.0	8180.2	8262.0	8159.0	7825.7	7163.3	6751.4	6687.7	6339.5
45°	8156.9	8144.1	8337.3	8636.7	8781.1	8644.1	7853.3	7302.3	7224.8	6823.6
47.5°	7988.1	7962.6	8246.1	8718.4	9181.3	9422.2	8600.6	7900.0	7787.5	7294.9
50°	7480.7	7456.3	7885.1	8512.5	9316.1	9950.9	9411.6	8533.7	8361.8	7800.2
52.5°	6377.7	6389.4	7061.4	7923.3	9138.8	10280.0	10110.1	9201.4	8994.4	8317.2
55°	4968.0	4993.5	5819.4	6768.4	8429.7	10230.1	10586.8	9889.3	9683.4	8803.4
57.5°	3557.2	3669.7	4443.6	5383.1	7067.7	9439.2	10690.8	10543.2	10343.7	9334.1
60°	2305.7	2325.8	3122.0	4068.9	5382.0	8033.7	10479.5	11039.0	10882.9	9875.5
62.5°	1477.7	1491.5	1976.6	2846.0	3873.6	5943.6	9768.3	11254.5	11206.7	10233.3
65°	1086.0	1075.3	1328.0	1881.1	2609.3	3665.5	8387.2	11150.4	11244.9	10457.2
67.5°	906.6	891.7	1015.9	1302.5	1922.5	2081.7	6205.8	10474.2	10820.3	10431.8
70°	825.9	813.1	888.5	967.1	1500.0	1393.8	3128.4	9105.9	9638.8	10142.0
72.5°	699.6	677.3	780.2	858.8	1166.6	1069.0	1293.0	6994.5	7644.2	9213.1
75°	542.4	527.6	615.7	755.8	876.8	834.4	817.4	4247.2	4956.3	7125.1
77.5°	429.9	409.8	490.4	589.2	788.7	629.5	595.5	1829.0	2531.8	4548.7
80°	323.8	305.7	372.6	466.0	606.1	474.5	385.3	746.3	954.3	2304.6
82.5°	230.4	214.4	260.1	341.8	407.6	425.7	236.7	418.2	470.3	888.5
85°	147.6	138.0	174.1	214.4	259.0	273.9	144.4	218.7	239.9	366.2
87.5°	80.7	65.8	93.4	99.8	120.0	109.3	69.0	79.6	86.0	132.7
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°
2254.7	0°	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7
2259.0	2.5°	2263.2	2266.4	2277.0	2280.2	2287.6	2297.2	2303.5	2309.9	2309.9	2316.3
2292.9	5°	2294.0	2301.4	2323.7	2335.4	2354.5	2373.6	2385.3	2399.1	2407.6	2411.8
2347.1	7.5°	2353.4	2365.1	2397.0	2417.1	2450.0	2476.6	2494.6	2513.7	2518.0	2529.7
2422.4	10°	2434.1	2447.9	2484.0	2522.2	2561.5	2594.4	2611.4	2625.2	2630.5	2632.6
2519.0	12.5°	2526.5	2546.6	2593.3	2640.1	2681.5	2710.1	2714.4	2711.2	2696.3	2683.6
2637.9	15°	2640.1	2658.1	2710.1	2761.1	2801.4	2806.7	2780.2	2763.2	2745.1	2742.0
2770.6	17.5°	2775.9	2785.5	2833.3	2883.1	2886.3	2868.3	2829.0	2813.1	2796.1	2784.4
2943.7	20°	2934.1	2930.9	2964.9	2986.1	2963.8	2908.6	2849.2	2822.6	2805.7	2791.9
3156.0	22.5°	3123.1	3098.6	3094.4	3089.1	3029.6	2913.9	2833.3	2799.3	2772.7	2753.6
3452.1	25°	3398.0	3304.6	3239.8	3203.7	3070.0	2885.3	2782.3	2706.9	2657.0	2624.1
3814.1	27.5°	3741.9	3584.8	3421.3	3333.2	3070.0	2826.9	2659.2	2537.1	2455.3	2421.4
4164.4	30°	4069.9	3905.4	3664.4	3489.3	3062.5	2731.3	2460.7	2290.8	2195.3	2161.3
4463.8	32.5°	4350.2	4170.8	3922.4	3660.2	3044.5	2576.4	2214.4	2026.5	1934.1	1893.8
4760.0	35°	4610.3	4419.2	4181.4	3848.1	2996.7	2349.2	1943.7	1800.4	1697.4	1632.7
5061.4	37.5°	4876.7	4649.6	4426.6	4017.9	2910.7	2083.8	1735.6	1613.5	1492.5	1405.5
5382.0	40°	5166.5	4894.8	4688.8	4118.8	2769.6	1831.2	1574.3	1462.8	1334.4	1242.0
5751.4	42.5°	5505.2	5188.8	4980.8	4170.8	2576.4	1651.8	1469.2	1359.8	1238.8	1163.4
6147.4	45°	5858.6	5512.6	5247.2	4169.7	2360.9	1567.9	1435.2	1326.9	1193.2	1114.6
6554.0	47.5°	6229.1	5851.2	5477.6	4101.8	2174.0	1579.6	1416.1	1255.8	1108.2	1031.8
6964.8	50°	6600.7	6221.7	5700.5	3974.4	2094.4	1554.1	1345.0	1156.0	981.9	912.9
7350.1	52.5°	6969.0	6615.5	5892.6	3792.9	2013.7	1459.6	1253.7	1026.5	929.9	882.1
7748.2	55°	7339.5	7005.1	6101.7	3528.6	1812.1	1349.2	1100.8	977.7	888.5	845.0
8137.8	57.5°	7711.0	7455.2	6300.2	3264.2	1558.3	1213.3	1017.0	918.2	847.1	810.0
8463.7	60°	8097.4	7970.1	6505.1	3021.1	1307.8	1039.2	955.4	870.5	798.3	756.9
8776.8	62.5°	8495.5	8536.9	6665.4	2708.0	1077.5	933.1	900.2	813.1	743.1	703.8
9035.8	65°	8896.8	9083.6	6770.5	2273.8	873.6	832.2	840.7	750.5	679.4	645.4
9225.9	67.5°	9199.3	9477.4	6740.8	1720.8	716.5	736.7	766.4	684.7	617.8	591.3
9195.1	70°	9233.3	9430.7	6447.8	1178.3	599.8	643.3	683.6	619.9	550.9	531.8
8762.0	72.5°	8781.1	8793.8	5631.5	769.6	507.4	564.7	596.6	554.1	487.2	468.1
7665.4	75°	7595.3	7272.6	4134.7	507.4	424.6	485.1	514.8	485.1	420.4	424.6
5735.5	77.5°	5754.6	5150.6	2510.5	360.9	354.6	407.6	448.0	426.7	371.5	417.2
2884.2	80°	2964.9	2786.5	1119.9	269.6	280.2	325.9	368.4	340.8	294.0	280.2
644.4	82.5°	679.4	789.8	441.6	193.2	202.8	234.6	281.3	255.8	211.2	178.3
268.6	85°	237.8	260.1	195.3	121.0	118.9	146.5	191.1	170.9	143.3	114.6
113.6	87.5°	75.4	98.7	73.2	48.8	51.0	65.8	88.1	80.7	66.9	43.5
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

180°
2254.7
2316.3
2413.9
2525.4
2627.3
2683.6
2742.0
2785.5
2792.9
2760.0
2636.9
2438.4
2181.5
1914.0
1653.9
1428.8
1260.0
1178.3
1127.4
1042.4
917.2
882.1
840.7
803.6
753.7
702.7
644.4
592.3
532.9
467.1
409.8
367.3
255.8
176.2
121.0
45.6
0.0

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