

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: P941037

Luminaire Tested: **GALN-SB4B-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21601 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

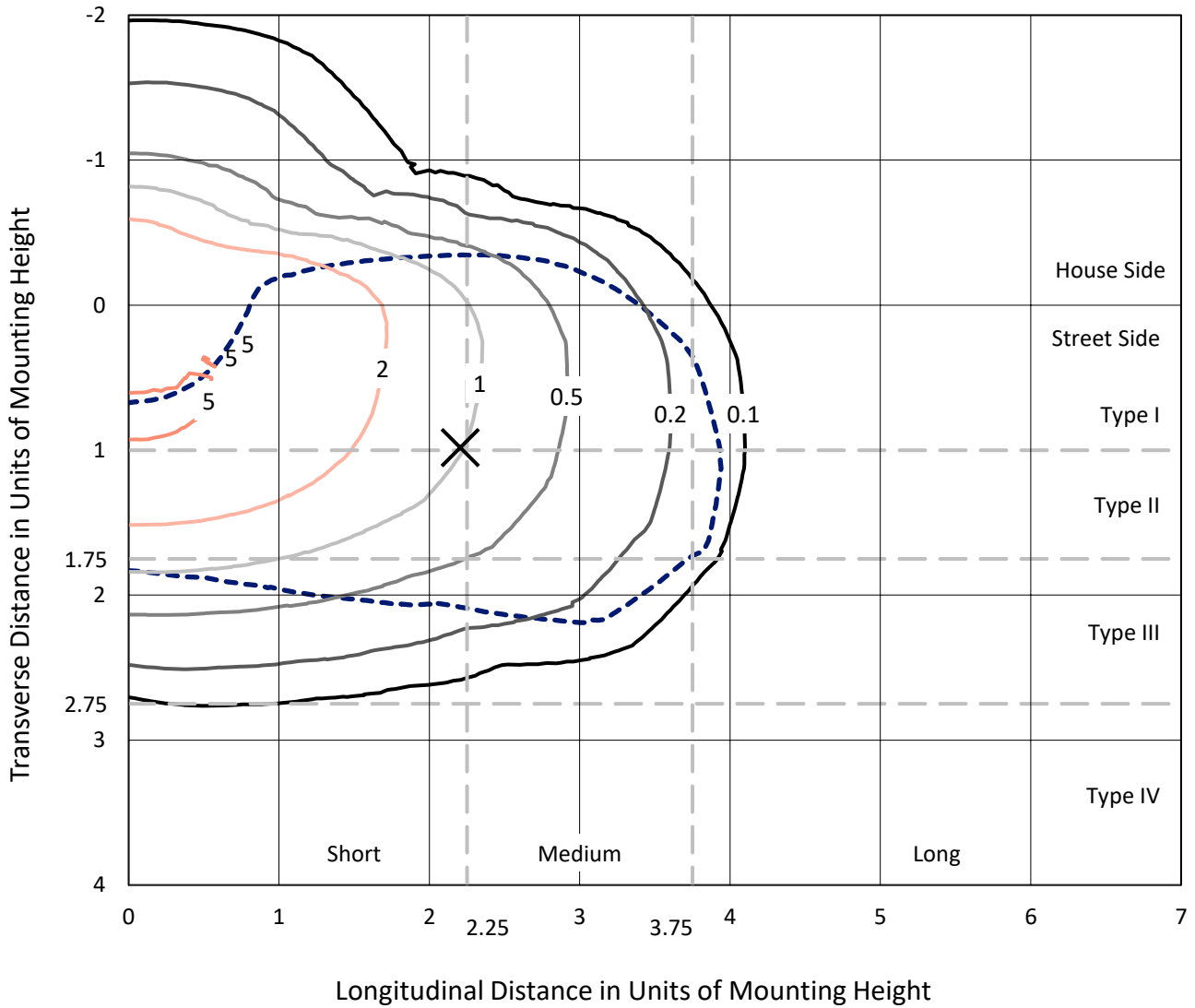
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

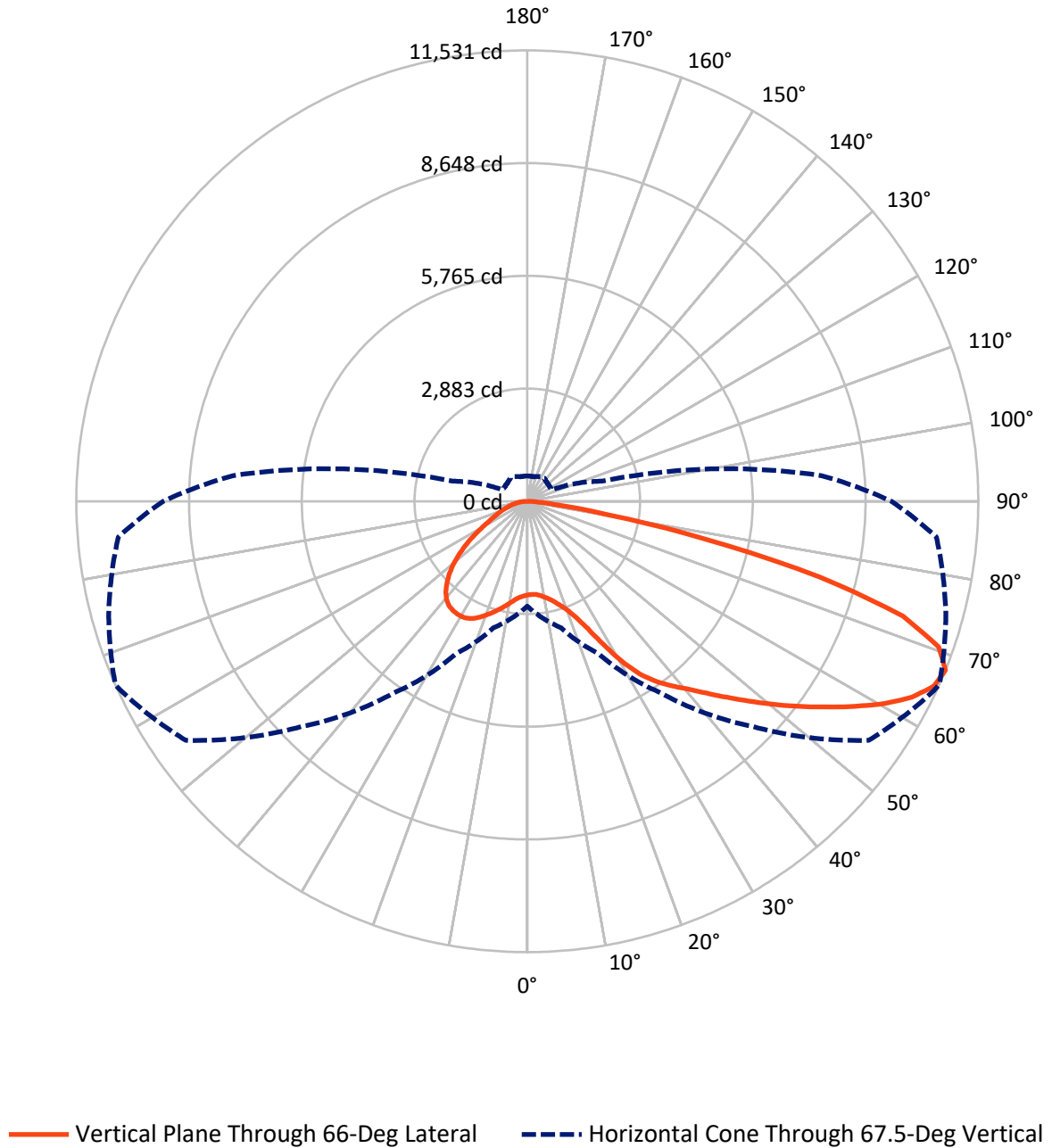
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5371.0	0.0	5371.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	16230.0	0.0	16230.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	21601.0	0.0	21601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	1.1
10°-20°	784.8	3.6
20°-30°	1512.6	7.0
30°-40°	2652.2	12.3
40°-50°	3943.0	18.3
50°-60°	4998.1	23.1
60°-70°	4890.5	22.6
70°-80°	2332.8	10.8
80°-90°	249.3	1.2
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°	21601.0	100.0
0°-180°	21601.0	100.0

Coefficient of Utilization



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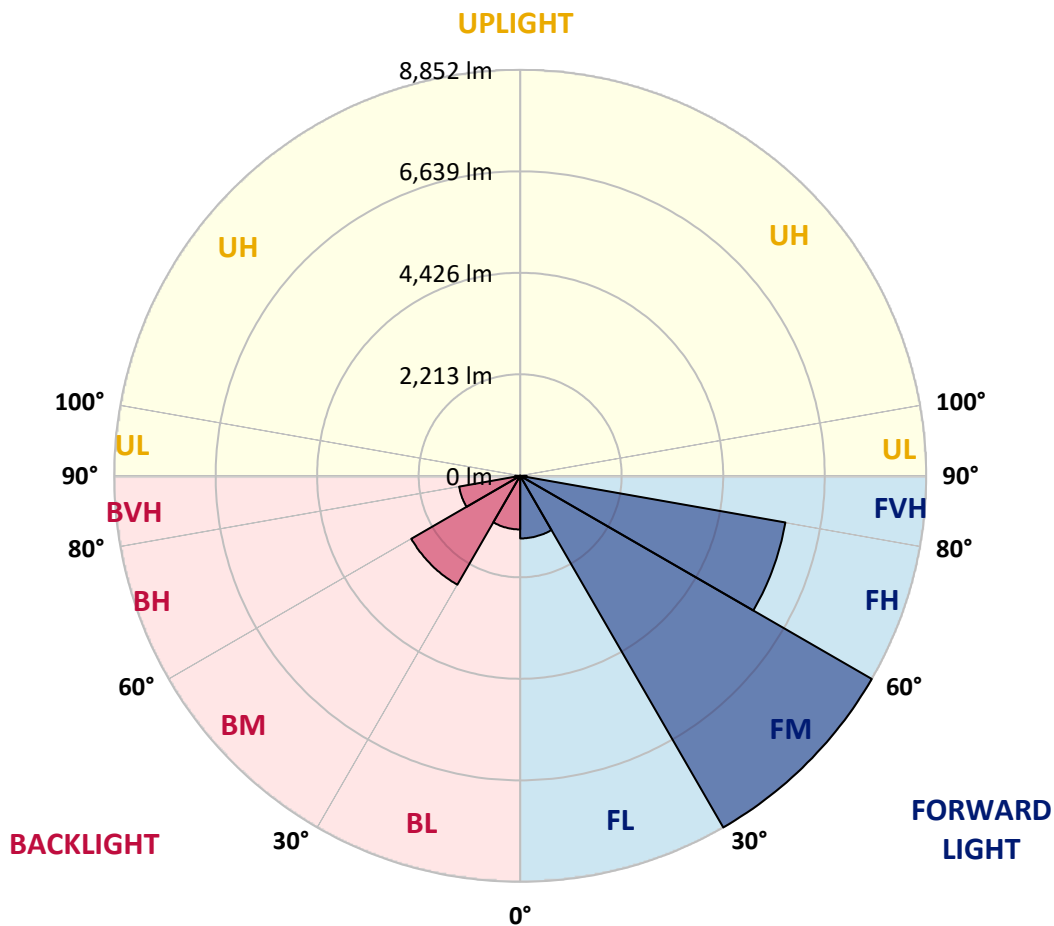
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1365.0	6.3			
FM (30°-60°)	8851.9	41.0			
FH (60°-80°)	5871.7	27.2			G3/7500
FVH (80°-90°)	141.4	0.7			G2/225
BL (0°-30°)	1170.0	5.4	B3/2500		
BM (30°-60°)	2741.4	12.7	B3/5000		
BH (60°-80°)	1351.6	6.3	B3/2500		G3/2500
BVH (80°-90°)	108.0	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8
2.5°	2370.9	2384.5	2381.1	2375.4	2374.3	2376.5	2379.9	2383.4	2382.2	2387.9
5°	2364.1	2377.7	2376.5	2376.5	2381.1	2390.2	2395.8	2401.5	2395.8	2402.6
7.5°	2368.6	2378.8	2383.4	2387.9	2399.2	2416.3	2429.9	2442.4	2435.6	2443.5
10°	2426.5	2434.4	2439.0	2439.0	2446.9	2466.2	2479.8	2502.5	2496.8	2509.3
12.5°	2532.0	2540.0	2540.0	2535.4	2541.1	2553.6	2558.1	2583.1	2572.9	2593.3
15°	2661.4	2677.3	2664.8	2656.9	2659.1	2671.6	2670.5	2689.8	2679.6	2696.6
17.5°	2804.4	2824.8	2804.4	2803.3	2798.7	2812.4	2813.5	2830.5	2812.4	2824.8
20°	2973.5	3001.9	2984.9	2990.5	2980.3	2986.0	2991.7	3016.6	2988.3	2997.3
22.5°	3211.9	3245.9	3227.7	3249.3	3242.5	3238.0	3236.8	3281.1	3236.8	3240.2
25°	3559.1	3600.0	3568.2	3597.7	3597.7	3612.5	3629.5	3686.3	3612.5	3590.9
27.5°	4072.1	4113.0	4050.6	4068.7	4063.0	4099.4	4081.2	4221.9	4142.5	4107.3
30°	4689.5	4762.2	4644.1	4639.6	4633.9	4691.8	4717.9	4811.0	4730.4	4695.2
32.5°	5356.9	5432.9	5292.2	5251.3	5229.8	5264.9	5243.4	5318.3	5262.7	5208.2
35°	6062.8	6137.7	6003.8	5924.3	5838.1	5764.3	5687.1	5706.4	5654.2	5571.4
37.5°	6730.1	6867.5	6725.6	6640.5	6481.6	6337.4	6121.8	6032.2	5983.3	5907.3
40°	7410.0	7488.3	7380.4	7307.8	7135.3	6909.5	6564.4	6374.9	6309.1	6235.3
42.5°	7910.5	7985.4	7927.5	7877.5	7742.5	7480.3	7034.3	6797.1	6701.8	6618.9
45°	8307.7	8363.3	8327.0	8345.1	8287.3	8033.0	7521.2	7249.9	7151.2	7050.2
47.5°	8467.7	8526.7	8584.6	8692.4	8791.2	8603.9	8044.4	7740.2	7635.8	7532.5
50°	8449.6	8509.7	8677.7	8906.9	9213.4	9150.9	8596.0	8262.3	8165.8	8047.8
52.5°	8304.3	8372.4	8588.0	8969.3	9457.4	9560.6	9157.7	8801.4	8710.6	8569.9
55°	7922.9	7963.8	8287.3	8827.5	9515.2	9846.6	9708.2	9375.7	9284.9	9088.5
57.5°	7215.9	7274.9	7745.9	8445.0	9370.0	10040.7	10191.7	9979.4	9892.0	9609.4
60°	6293.2	6387.4	6926.5	7802.6	9000.0	10039.6	10630.9	10573.0	10500.4	10122.4
62.5°	5249.0	5358.0	5876.7	6894.7	8353.1	9754.7	10905.5	11070.1	11032.7	10595.7
65°	4031.3	4106.2	4622.6	5720.0	7346.4	9143.0	10937.3	11409.4	11416.3	10955.5
67.5°	2684.1	2899.7	3348.0	4292.3	5998.1	8143.1	10658.1	11465.1	11530.9	11079.2
70°	1309.7	1593.4	2032.7	2789.7	4292.3	6609.8	9928.4	11008.8	11155.2	10718.3
72.5°	543.6	635.6	875.0	1376.7	2463.9	4460.3	8462.0	9771.7	10043.0	9497.1
75°	366.6	397.2	500.5	705.9	1122.4	2199.5	6102.5	7286.2	7723.2	7172.8
77.5°	282.6	301.9	364.3	493.7	667.3	831.9	3266.3	4391.0	4616.9	4274.1
80°	222.4	237.2	272.4	359.8	473.3	444.9	1113.4	1989.5	2120.0	1778.4
82.5°	192.9	198.6	195.2	244.0	314.4	259.9	365.4	734.3	810.3	587.9
85°	139.6	155.5	162.3	150.9	166.8	131.7	149.8	259.9	286.0	255.4
87.5°	56.7	84.0	103.3	97.6	61.3	37.5	46.5	76.0	87.4	95.3
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°
2395.8	0°	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8	2395.8
2397.0	2.5°	2398.1	2406.1	2411.7	2418.5	2423.1	2429.9	2443.5	2451.4	2452.6	2458.3
2415.1	5°	2419.7	2431.0	2443.5	2461.7	2482.1	2499.1	2525.2	2543.4	2550.2	2555.9
2459.4	7.5°	2466.2	2482.1	2504.8	2536.6	2566.1	2588.8	2620.6	2642.1	2663.7	2671.6
2529.8	10°	2535.4	2558.1	2591.0	2634.2	2665.9	2695.5	2728.4	2746.5	2768.1	2777.2
2613.7	12.5°	2621.7	2645.5	2688.6	2748.8	2778.3	2798.7	2810.1	2805.5	2810.1	2818.0
2714.8	15°	2720.4	2746.5	2795.3	2860.0	2880.5	2862.3	2837.3	2814.6	2811.2	2813.5
2837.3	17.5°	2837.3	2856.6	2913.4	2967.8	2953.1	2878.2	2823.7	2787.4	2769.2	2763.6
2993.9	20°	3000.8	3000.8	3047.3	3081.3	2982.6	2855.5	2770.4	2711.3	2673.9	2658.0
3207.3	22.5°	3199.4	3181.2	3210.7	3186.9	2976.9	2791.9	2673.9	2571.8	2515.0	2492.3
3505.8	25°	3451.3	3429.8	3421.8	3274.3	2936.1	2690.9	2499.1	2375.4	2325.5	2313.0
3935.9	27.5°	3831.5	3777.0	3673.8	3321.9	2861.2	2532.0	2294.8	2180.2	2151.8	2153.0
4488.6	30°	4337.7	4228.7	3975.7	3329.9	2738.6	2307.3	2086.0	2004.3	1990.7	1996.3
4952.8	32.5°	4806.4	4703.1	4284.4	3293.6	2550.2	2087.1	1898.7	1844.3	1823.8	1830.6
5306.9	35°	5174.1	5145.8	4570.4	3242.5	2318.7	1880.6	1730.8	1684.2	1644.5	1635.4
5640.6	37.5°	5521.4	5510.1	4784.9	3171.0	2089.4	1734.2	1595.7	1534.4	1476.5	1444.8
6009.5	40°	5902.8	5891.4	4925.6	3060.9	1886.3	1607.1	1474.3	1393.7	1322.2	1264.3
6427.1	42.5°	6331.8	6264.8	4992.6	2903.1	1713.7	1499.2	1375.5	1266.6	1172.4	1119.0
6899.2	45°	6800.5	6649.6	4991.4	2702.3	1568.5	1400.5	1270.0	1115.6	1028.2	978.3
7383.9	47.5°	7297.6	7017.3	4930.1	2479.8	1427.7	1291.5	1106.6	988.5	930.6	900.0
7910.5	50°	7810.6	7361.2	4825.7	2224.5	1283.6	1167.8	1004.4	923.8	879.6	851.2
8432.5	52.5°	8292.9	7673.3	4699.7	1935.1	1137.2	1047.5	959.0	896.6	850.1	818.3
8938.7	55°	8741.2	7942.2	4521.6	1638.8	1018.0	967.0	937.5	885.2	831.9	794.5
9452.8	57.5°	9139.6	8117.0	4214.0	1360.8	932.9	911.3	914.8	866.0	804.7	772.9
9959.0	60°	9471.0	8245.3	3758.9	1103.2	863.7	856.9	879.6	829.6	758.1	721.8
10386.9	62.5°	9669.6	8243.0	3200.5	903.4	804.7	806.9	833.0	784.2	711.6	677.6
10610.5	65°	9652.6	8041.0	2587.6	772.9	747.9	750.2	784.2	734.3	673.0	652.6
10498.1	67.5°	9311.0	7548.4	1985.0	687.8	685.5	695.7	735.4	700.3	649.2	646.9
9828.5	70°	8386.0	6525.8	1430.0	619.7	620.8	635.6	687.8	678.7	636.7	641.2
8263.4	72.5°	6724.5	4975.5	960.2	548.2	549.3	573.1	642.4	661.7	624.2	684.4
5863.0	75°	4478.4	3102.9	617.4	472.1	473.3	503.9	602.6	628.8	590.2	682.1
3050.7	77.5°	2151.8	1394.8	447.2	397.2	397.2	425.6	520.9	562.9	502.8	530.0
980.6	80°	743.4	524.3	351.8	320.1	313.2	332.5	439.2	488.0	433.5	399.5
320.1	82.5°	292.8	272.4	282.6	248.5	225.9	238.3	341.6	402.9	318.9	288.3
180.5	85°	168.0	177.0	199.7	164.6	130.5	146.4	250.8	289.4	240.6	212.2
59.0	87.5°	45.4	62.4	91.9	85.1	59.0	62.4	119.2	160.0	138.5	106.7
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>
2395.8
2457.1
2554.7
2672.8
2781.7
2820.3
2821.4
2771.5
2654.6
2488.9
2315.3
2156.4
2015.6
1839.7
1642.2
1445.9
1270.0
1122.4
976.0
893.2
841.0
804.7
779.7
752.5
705.9
667.3
651.4
650.3
640.1
693.4
687.8
485.7
374.5
287.1
216.8
110.1
0.0

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