

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: P949554

Luminaire Tested: **GALN-SB4B-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22524 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

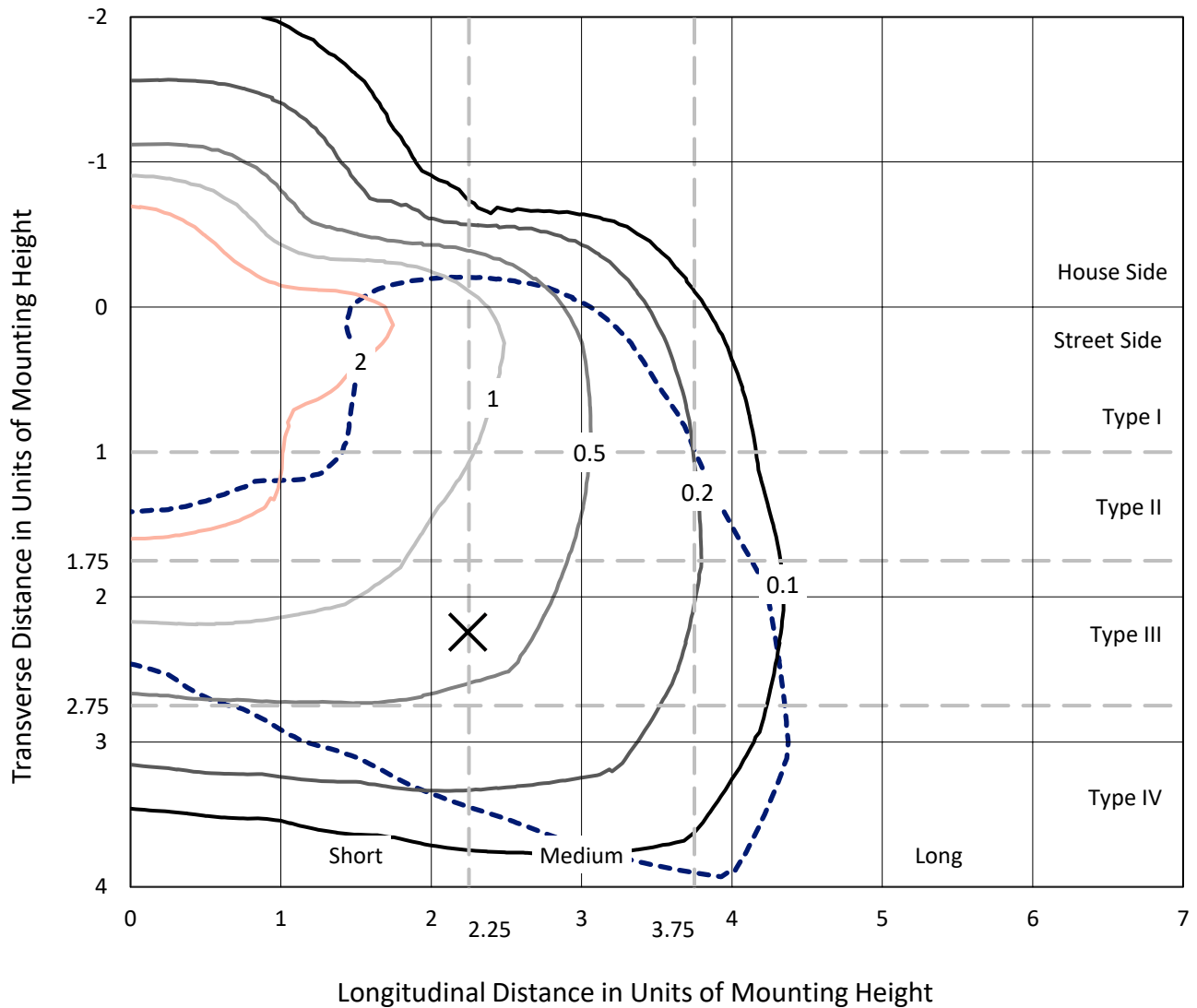
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

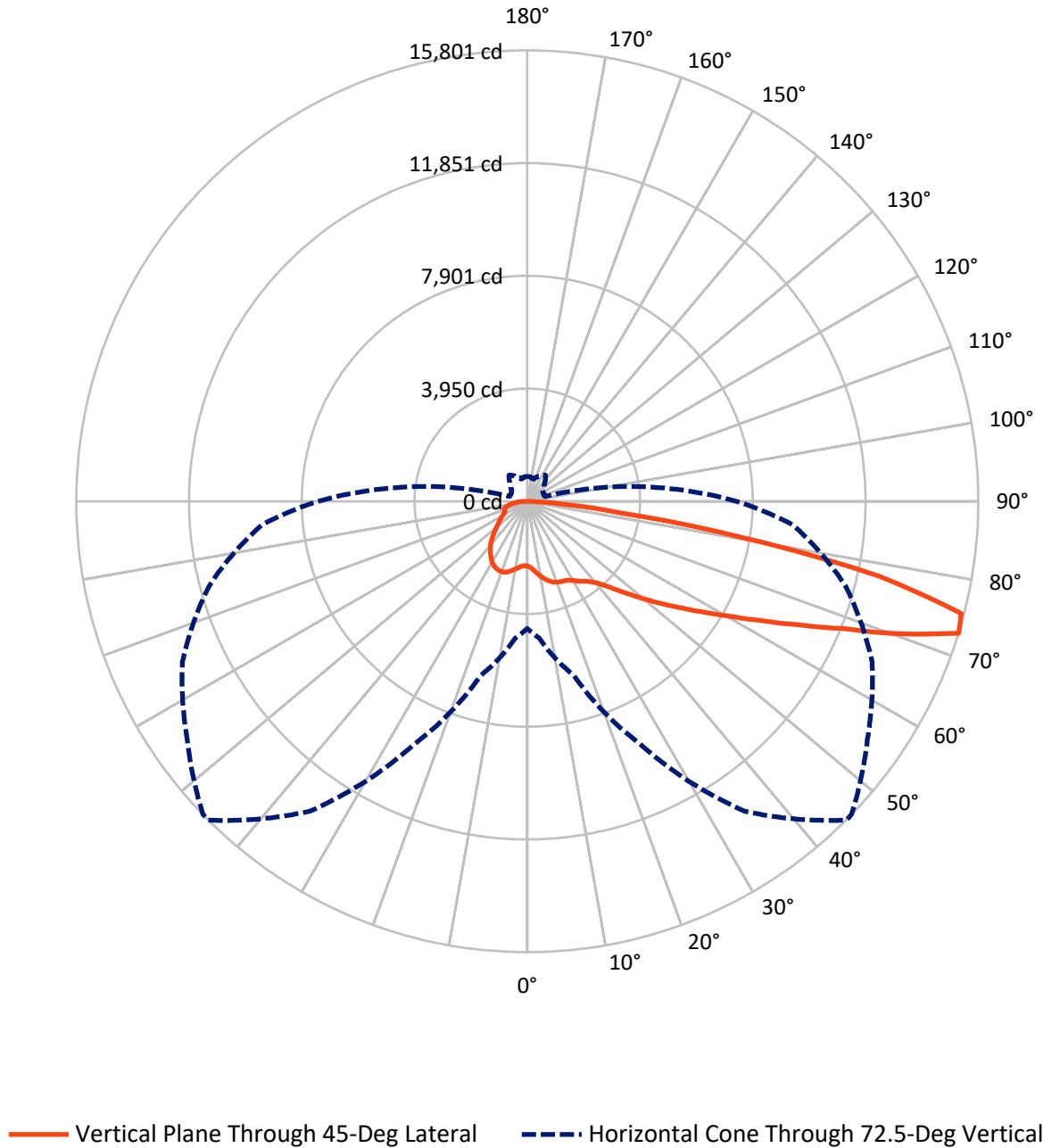
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5091.9	0.0	5091.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	17432.1	0.0	17432.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	22524.0	0.0	22524.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	1.0
10°-20°	771.1	3.4
20°-30°	1341.3	6.0
30°-40°	1922.9	8.5
40°-50°	2707.5	12.0
50°-60°	4147.1	18.4
60°-70°	6007.7	26.7
70°-80°	4797.5	21.3
80°-90°	597.5	2.7
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°	22524.0	100.0
0°-180°	22524.0	100.0



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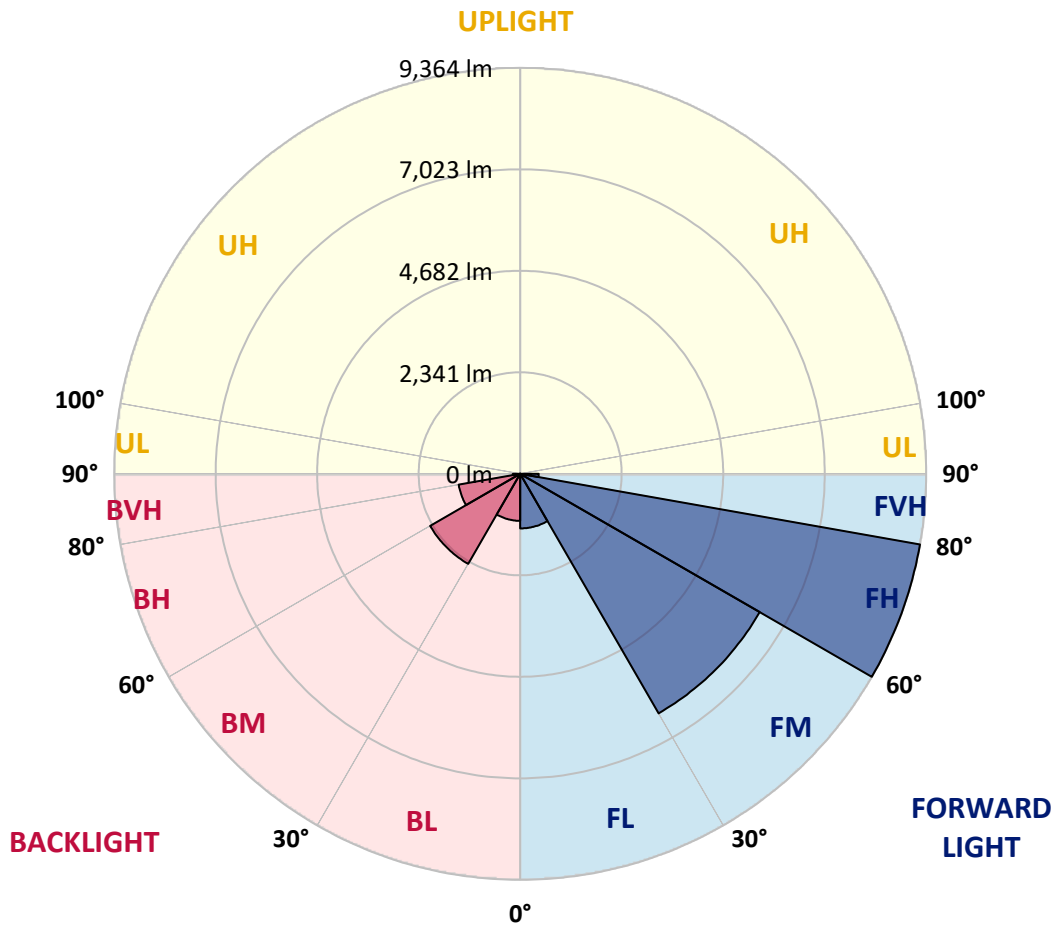
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1259.6	5.6			
FM (30°-60°)	6380.0	28.3			
FH (60°-80°)	9363.9	41.6			G4/12000
FVH (80°-90°)	428.7	1.9			G3/500
BL (0°-30°)	1084.1	4.8	B3/2500		
BM (30°-60°)	2397.6	10.6	B2/2500		
BH (60°-80°)	1441.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	168.8	0.7			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2
2.5°	2361.2	2376.6	2362.4	2349.4	2343.4	2328.0	2326.8	2317.3	2311.4	2294.8
5°	2526.2	2546.3	2522.6	2496.5	2472.8	2434.8	2430.0	2402.8	2371.9	2336.3
7.5°	2712.4	2730.2	2702.9	2663.8	2622.3	2559.4	2558.2	2508.4	2459.7	2399.2
10°	2875.0	2898.7	2861.9	2808.6	2756.3	2685.2	2676.8	2619.9	2558.2	2479.9
12.5°	3018.6	3035.2	2999.6	2934.3	2873.8	2802.6	2791.9	2729.1	2660.2	2571.2
15°	3132.5	3153.8	3106.4	3036.4	2972.3	2902.3	2892.8	2835.8	2767.0	2673.3
17.5°	3207.2	3225.0	3176.4	3098.1	3036.4	2978.2	2971.1	2923.6	2863.1	2768.2
20°	3235.7	3254.7	3203.7	3124.2	3067.2	3022.1	3018.6	2984.2	2942.6	2856.0
22.5°	3264.2	3282.0	3215.5	3132.5	3082.6	3054.2	3053.0	3030.4	3013.8	2942.6
25°	3379.3	3384.0	3295.0	3175.2	3104.0	3079.1	3077.9	3076.7	3083.8	3028.1
27.5°	3478.9	3477.8	3401.8	3289.1	3178.8	3126.5	3125.4	3137.2	3159.8	3113.5
30°	3624.9	3611.8	3521.7	3404.2	3303.3	3222.7	3215.5	3204.9	3222.7	3185.9
32.5°	3934.6	3893.1	3747.1	3538.3	3406.6	3344.9	3335.4	3268.9	3276.1	3253.5
35°	4378.4	4323.8	4129.2	3792.2	3534.7	3446.9	3442.2	3357.9	3343.7	3323.5
37.5°	4906.4	4838.7	4612.1	4160.0	3755.4	3565.6	3558.4	3482.5	3424.4	3403.0
40°	5436.7	5351.3	5163.8	4608.5	4080.5	3763.7	3741.2	3626.1	3559.6	3524.0
42.5°	5951.7	5880.5	5720.3	5111.6	4481.6	4053.2	4003.4	3806.4	3756.6	3723.4
45°	6407.3	6343.3	6225.8	5649.1	4951.5	4447.2	4398.5	4077.0	4061.5	4061.5
47.5°	6777.5	6763.3	6638.7	6197.3	5505.6	4895.7	4811.4	4453.1	4494.6	4558.7
50°	7188.1	7148.9	7016.0	6737.2	6157.0	5409.5	5340.6	4914.7	5070.1	5245.7
52.5°	7565.4	7586.8	7438.4	7299.6	6892.6	5982.6	5861.5	5459.3	5795.1	6085.8
55°	7953.4	7954.6	7913.1	7894.1	7663.9	6616.2	6483.3	6114.3	6648.2	7008.9
57.5°	8317.7	8320.1	8381.8	8549.1	8558.5	7347.1	7196.4	6918.7	7596.3	7964.1
60°	8642.8	8659.4	8827.9	9219.5	9345.2	8184.8	8042.4	7869.2	8576.3	8946.5
62.5°	8752.0	8812.5	9187.4	9743.9	10122.4	9212.3	9072.3	8969.1	9606.3	9950.4
65°	8566.9	8705.7	9430.7	10177.0	10922.1	10433.3	10294.5	10181.7	10676.5	11000.5
67.5°	8112.4	8291.6	9416.4	10631.4	11892.7	11902.2	11772.9	11508.3	11823.9	11948.5
70°	6915.2	7183.3	8587.0	10801.1	13006.9	13911.1	13786.5	13105.4	12968.9	12366.2
72.5°	4455.5	4816.2	6323.1	9404.6	13254.9	15801.2	15794.1	14547.0	13330.8	11554.6
75°	1625.6	1846.3	2937.9	5903.1	11126.2	15705.1	15751.4	14300.2	12169.2	8925.2
77.5°	592.1	647.9	958.7	2268.7	6842.8	12601.1	12697.2	11432.4	8661.8	4479.2
80°	310.9	341.7	491.2	880.4	2932.0	7483.5	7634.2	6794.2	4071.0	1349.1
82.5°	172.0	186.3	275.3	478.2	1320.6	3200.1	3290.3	2684.0	1432.2	571.9
85°	92.6	98.5	129.3	261.0	645.5	1109.4	1134.3	802.1	570.7	335.8
87.5°	27.3	33.2	42.7	83.1	252.7	249.2	255.1	159.0	225.4	169.7
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°
2272.2	0°	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2
2290.0	2.5°	2282.9	2279.4	2266.3	2260.4	2253.2	2252.1	2258.0	2259.2	2260.4	2261.6
2316.1	5°	2304.3	2292.4	2280.5	2273.4	2275.8	2277.0	2288.8	2297.2	2303.1	2307.8
2364.8	7.5°	2345.8	2336.3	2316.1	2314.9	2318.5	2329.2	2344.6	2363.6	2374.3	2382.6
2427.7	10°	2407.5	2389.7	2366.0	2369.5	2376.6	2392.1	2424.1	2439.5	2457.3	2472.8
2504.8	12.5°	2470.4	2455.0	2427.7	2430.0	2441.9	2469.2	2500.0	2519.0	2530.9	2542.8
2587.9	15°	2552.3	2525.0	2495.3	2495.3	2516.7	2546.3	2560.6	2576.0	2583.1	2596.2
2676.8	17.5°	2636.5	2600.9	2561.8	2559.4	2585.5	2599.7	2608.0	2610.4	2612.8	2627.0
2763.5	20°	2720.7	2681.6	2625.8	2621.1	2627.0	2624.6	2623.5	2621.1	2624.6	2642.4
2852.5	22.5°	2803.8	2758.7	2681.6	2660.2	2643.6	2621.1	2619.9	2618.7	2621.1	2638.9
2948.6	25°	2901.1	2846.5	2743.3	2679.2	2623.5	2592.6	2596.2	2597.3	2599.7	2614.0
3048.2	27.5°	3006.7	2946.2	2800.2	2673.3	2572.4	2551.1	2545.1	2548.7	2557.0	2579.5
3147.9	30°	3112.3	3041.1	2852.5	2649.6	2508.4	2478.7	2459.7	2468.0	2494.1	2516.7
3234.5	32.5°	3208.4	3137.2	2894.0	2597.3	2426.5	2380.2	2355.3	2366.0	2392.1	2400.4
3330.6	35°	3321.1	3240.5	2911.8	2514.3	2337.5	2266.3	2233.1	2217.7	2230.7	2222.4
3443.4	37.5°	3446.9	3362.7	2909.4	2405.1	2233.1	2151.2	2104.9	2046.8	2019.5	1991.0
3609.5	40°	3633.2	3512.2	2880.9	2273.4	2103.7	2029.0	1945.9	1847.5	1785.7	1730.0
3877.6	42.5°	3887.1	3719.8	2828.7	2128.7	1957.8	1887.8	1775.1	1660.0	1562.7	1470.1
4284.6	45°	4265.6	3991.5	2763.5	1974.4	1800.0	1731.2	1609.0	1479.6	1369.3	1250.6
4862.5	47.5°	4811.4	4357.0	2701.8	1798.8	1633.9	1571.0	1460.6	1340.8	1210.3	1095.2
5697.8	50°	5561.3	4881.4	2644.8	1627.9	1470.1	1422.7	1334.9	1212.6	1080.9	988.4
6676.7	52.5°	6515.3	5594.6	2621.1	1463.0	1317.1	1299.3	1229.3	1115.4	990.8	912.5
7818.1	55°	7610.5	6447.7	2621.1	1305.2	1183.0	1188.9	1140.3	1034.7	926.7	856.7
8995.2	57.5°	8728.2	7311.5	2573.6	1159.3	1069.1	1094.0	1063.1	970.6	873.3	800.9
10232.8	60°	9758.1	8035.3	2381.4	1026.4	968.2	1007.4	987.2	907.7	789.1	728.5
11267.4	62.5°	10549.6	8443.5	2011.2	920.8	885.2	930.3	919.6	824.6	773.6	748.7
12117.0	65°	10945.9	8377.0	1537.8	827.0	815.2	885.2	862.6	859.1	818.7	790.2
12393.5	67.5°	10702.6	7805.1	1115.4	758.2	774.8	843.6	930.3	944.5	869.7	814.0
11615.1	70°	9635.9	6770.4	830.6	692.9	723.8	844.8	1060.8	988.4	853.1	787.9
9315.6	72.5°	7330.5	5048.7	644.3	624.1	657.3	850.8	1118.9	968.2	805.7	870.9
5803.4	75°	4192.1	2771.8	517.3	539.9	574.3	795.0	1089.2	916.0	768.9	799.7
2299.5	77.5°	1598.3	1065.5	427.2	456.8	461.6	694.1	1041.8	912.5	732.1	714.3
689.4	80°	554.1	416.5	353.6	363.1	357.1	617.0	999.1	793.8	599.2	536.3
284.8	82.5°	226.6	207.6	280.0	268.2	253.9	479.4	806.9	649.0	490.0	433.1
137.6	85°	98.5	131.7	185.1	162.6	147.1	332.2	646.7	549.4	414.1	357.1
45.1	87.5°	20.2	49.8	78.3	73.6	75.9	221.9	459.2	390.4	293.1	219.5
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

<u>180°</u>
2272.2
2266.3
2310.2
2385.0
2469.2
2547.5
2600.9
2631.8
2649.6
2650.7
2632.9
2602.1
2541.6
2430.0
2248.5
2008.8
1733.5
1461.8
1236.4
1082.1
982.5
906.5
849.6
789.1
719.0
740.4
780.7
804.5
777.2
863.8
799.7
651.4
518.5
428.3
356.0
172.0
0.0

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