

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: P941542

Luminaire Tested: **GALN-SB5A-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941542
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-SB5A-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21485 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

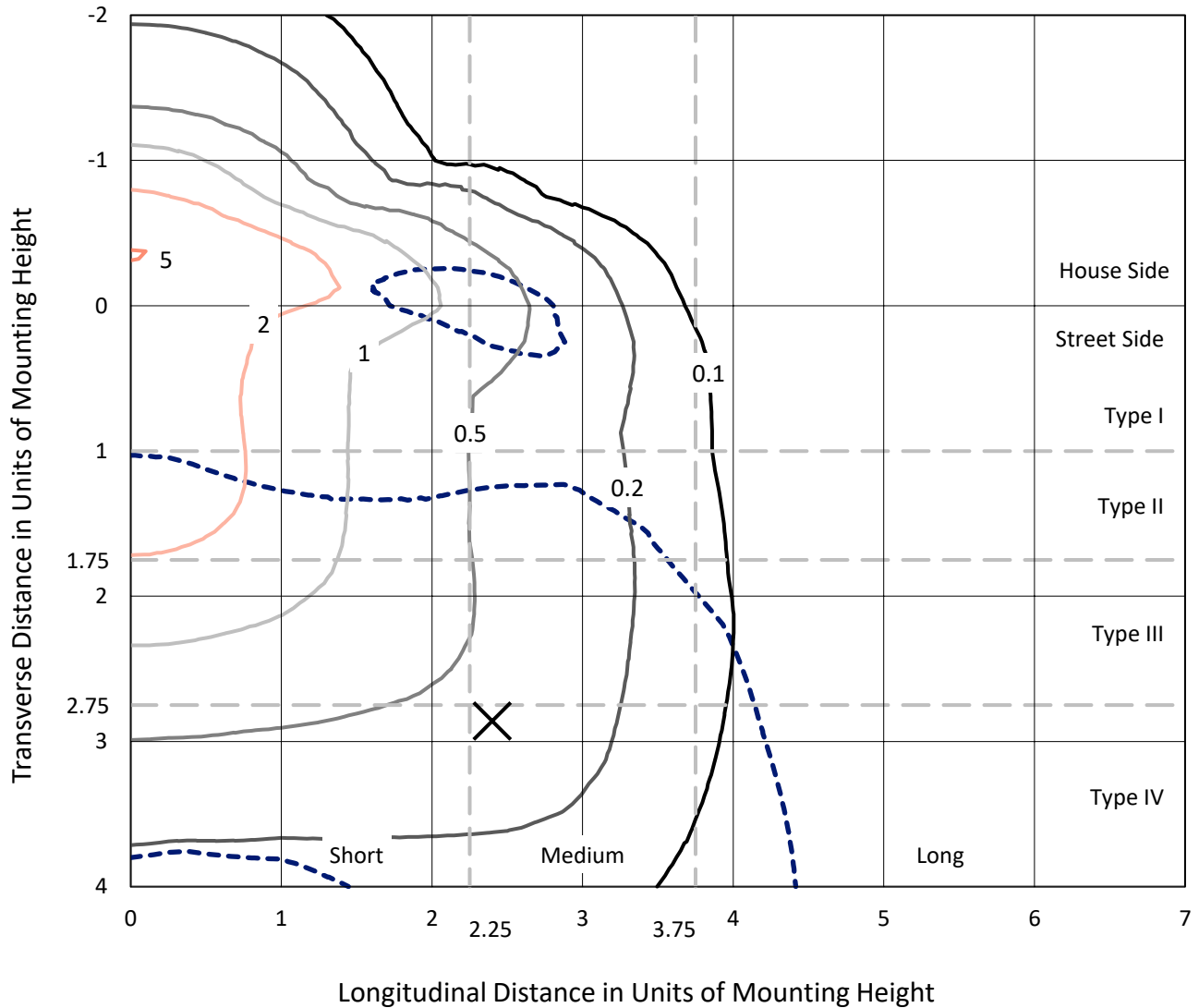
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

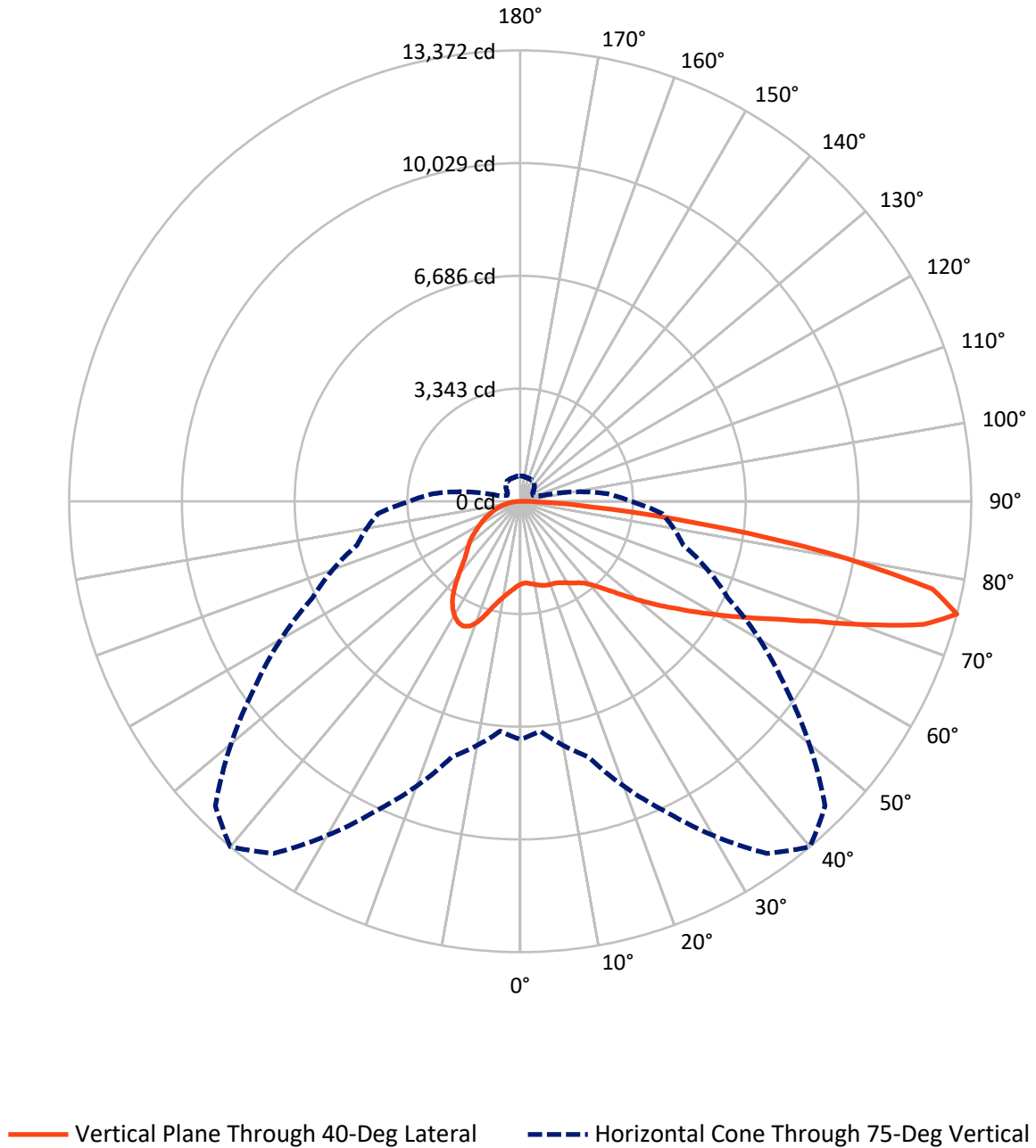
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6656.8	0.0	6656.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	14828.2	0.0	14828.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	21485.0	0.0	21485.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.2	1.1
10°-20°	823.4	3.8
20°-30°	1503.4	7.0
30°-40°	2132.3	9.9
40°-50°	2879.2	13.4
50°-60°	3873.3	18.0
60°-70°	4916.1	22.9
70°-80°	4461.7	20.8
80°-90°	650.4	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°	21485.0	100.0
0°-180°	21485.0	100.0



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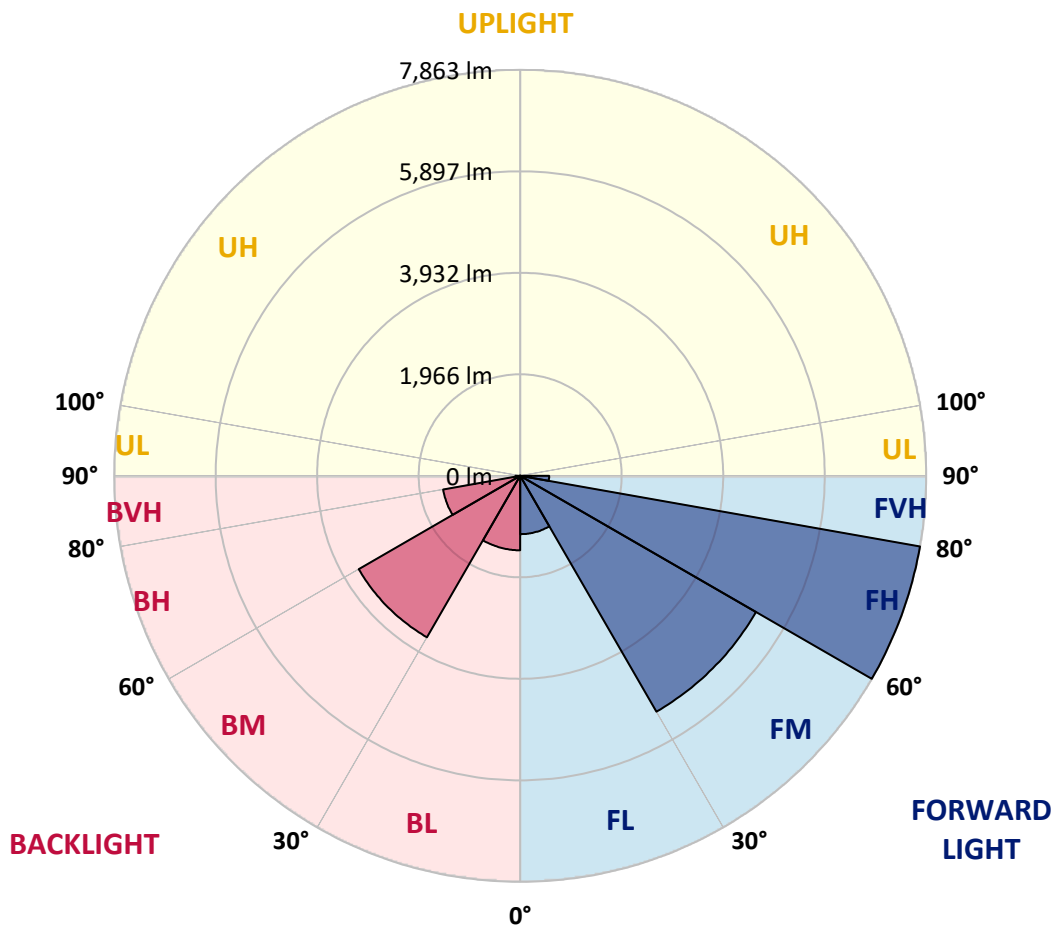
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1130.1	5.3			
FM (30°-60°)	5274.1	24.5			
FH (60°-80°)	7863.2	36.6			G4/12000
FVH (80°-90°)	560.8	2.6			G4/750
BL (0°-30°)	1441.9	6.7	B3/2500		
BM (30°-60°)	3610.7	16.8	B3/5000		
BH (60°-80°)	1514.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	89.5	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°	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8
2.5°	2419.2	2432.9	2429.5	2424.9	2424.9	2426.1	2424.9	2432.9	2440.9	2448.9
5°	2444.3	2458.0	2451.1	2445.4	2440.9	2439.7	2436.3	2435.2	2439.7	2450.0
7.5°	2493.3	2507.0	2496.7	2486.5	2477.4	2472.8	2468.2	2461.4	2458.0	2463.7
10°	2548.0	2561.7	2549.1	2530.9	2516.1	2510.4	2505.8	2499.0	2494.4	2497.9
12.5°	2602.7	2616.4	2599.3	2574.2	2554.8	2551.4	2545.7	2543.4	2542.3	2541.2
15°	2654.0	2665.4	2643.7	2614.1	2593.6	2587.9	2582.2	2585.6	2591.3	2598.1
17.5°	2693.9	2705.3	2673.4	2634.6	2615.2	2613.0	2609.5	2620.9	2636.9	2654.0
20°	2730.3	2741.7	2700.7	2648.3	2625.5	2625.5	2626.6	2650.6	2673.4	2698.4
22.5°	2781.6	2790.7	2740.6	2668.8	2635.7	2638.0	2647.1	2671.1	2699.6	2733.7
25°	2858.0	2864.8	2803.3	2707.5	2669.9	2676.8	2684.7	2696.1	2723.5	2763.4
27.5°	2981.0	2986.7	2905.8	2775.9	2718.9	2730.3	2741.7	2733.7	2746.3	2780.5
30°	3154.2	3157.7	3055.1	2883.0	2802.1	2807.8	2810.1	2777.0	2753.1	2780.5
32.5°	3359.4	3358.2	3236.3	3012.9	2896.7	2891.0	2871.6	2806.7	2750.8	2774.8
35°	3677.3	3664.7	3507.5	3195.3	3003.8	2968.5	2922.9	2839.7	2762.2	2769.1
37.5°	4203.7	4165.0	3947.4	3493.8	3163.4	3073.3	3006.1	2893.3	2787.3	2766.8
40°	4797.4	4748.4	4509.1	3902.9	3402.7	3257.9	3149.7	2969.6	2828.3	2777.0
42.5°	5501.7	5432.2	5174.6	4384.9	3705.8	3496.1	3333.1	3066.5	2888.7	2810.1
45°	6366.6	6274.3	5909.6	4928.5	4087.5	3808.3	3590.7	3213.5	2981.0	2873.9
47.5°	7240.6	7263.4	6744.9	5550.7	4545.6	4193.5	3913.2	3434.6	3115.5	2976.5
50°	8169.3	8185.3	7575.6	6240.1	5065.2	4628.8	4275.5	3681.8	3302.4	3122.3
52.5°	8894.1	8896.4	8330.0	6961.4	5606.5	5107.4	4666.4	3964.4	3518.9	3316.0
55°	9347.6	9341.9	8858.7	7644.0	6228.7	5609.9	5099.4	4285.8	3783.3	3544.0
57.5°	9676.9	9659.8	9223.4	8230.9	6891.9	6203.6	5589.4	4650.4	4095.5	3815.2
60°	9802.3	9792.0	9470.7	8738.0	7589.3	6860.0	6154.6	5058.4	4449.9	4135.4
62.5°	9850.1	9869.5	9713.4	9229.1	8335.7	7587.0	6775.7	5546.1	4848.7	4497.7
65°	10018.8	10054.1	10022.2	9871.8	9179.0	8438.3	7599.6	6126.1	5284.0	4886.3
67.5°	10352.7	10388.0	10401.7	10641.0	10209.1	9499.2	8627.4	6848.6	5793.4	5289.7
70°	10344.7	10334.4	10576.0	11252.9	11499.1	10968.0	10013.1	7737.4	6400.8	5624.7
72.5°	9416.0	9333.9	9904.8	11246.1	12572.5	12501.8	11705.3	8883.8	6925.0	5665.8
75°	7064.0	6845.2	7853.7	10135.0	12751.4	13372.4	12781.0	9594.9	6800.7	5006.0
77.5°	3020.9	2801.0	3989.5	7502.7	11412.4	12500.7	11794.2	8371.0	5428.7	3310.4
80°	790.8	789.7	1205.6	3401.5	7761.4	9231.4	8098.7	5406.0	3101.8	1182.8
82.5°	327.0	319.1	443.3	1323.0	3792.4	5180.3	4227.7	2411.3	1120.2	320.2
85°	121.9	120.8	215.4	457.0	1337.8	2136.6	1546.3	616.5	279.2	156.1
87.5°	34.2	33.0	46.7	158.4	325.9	494.6	264.4	101.4	78.6	61.5
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°
2456.8	0°	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8
2461.4	2.5°	2464.8	2470.5	2480.8	2488.7	2499.0	2510.4	2526.4	2536.6	2546.9	2553.7
2467.1	5°	2475.1	2487.6	2513.8	2540.0	2570.8	2599.3	2632.3	2656.3	2675.6	2681.3
2487.6	7.5°	2497.9	2518.4	2562.8	2607.3	2656.3	2703.0	2750.8	2791.9	2824.9	2837.4
2524.1	10°	2537.7	2565.1	2627.8	2690.4	2755.4	2827.2	2888.7	2948.0	2994.7	3014.1
2567.4	12.5°	2587.9	2622.1	2704.1	2790.7	2880.7	2979.9	3059.7	3132.6	3190.7	3216.9
2627.8	15°	2652.8	2697.3	2802.1	2918.4	3050.5	3188.4	3289.8	3370.7	3435.7	3467.6
2690.4	17.5°	2723.5	2782.7	2914.9	3090.4	3279.6	3460.8	3579.3	3638.5	3705.8	3736.5
2748.6	20°	2791.9	2864.8	3054.0	3309.2	3561.0	3753.6	3849.4	3865.3	3869.9	3873.3
2803.3	22.5°	2862.5	2960.5	3228.3	3585.0	3855.0	3988.4	4002.0	3933.7	3838.0	3793.5
2856.8	25°	2940.0	3069.9	3456.2	3889.2	4108.0	4124.0	4019.1	3852.8	3671.6	3588.4
2900.1	27.5°	3015.2	3196.4	3729.7	4179.8	4290.4	4150.2	3924.6	3688.7	3469.9	3382.1
2930.9	30°	3090.4	3341.1	4031.7	4433.9	4373.5	4085.2	3775.3	3512.0	3292.1	3199.8
2958.2	32.5°	3166.8	3509.8	4379.2	4617.4	4358.7	3947.4	3589.5	3313.8	3120.0	3023.2
2982.2	35°	3253.4	3717.2	4708.6	4717.7	4259.6	3744.5	3344.5	3076.7	2908.1	2830.6
3010.7	37.5°	3366.2	3980.4	4999.1	4742.7	4086.4	3447.1	3040.3	2796.4	2657.4	2622.1
3052.8	40°	3506.4	4297.2	5221.4	4702.9	3830.0	3085.9	2707.5	2512.7	2434.0	2442.0
3109.8	42.5°	3688.7	4651.6	5377.5	4600.3	3473.3	2713.2	2415.8	2329.2	2366.8	2398.7
3195.3	45°	3925.7	5019.7	5474.3	4426.0	3069.9	2397.6	2243.7	2264.3	2292.7	2296.2
3333.1	47.5°	4228.8	5392.3	5538.1	4162.7	2658.5	2175.4	2134.3	2138.9	2133.2	2109.3
3539.4	50°	4607.1	5754.7	5595.1	3814.0	2308.7	2036.3	1981.7	1965.7	1887.1	1809.6
3814.0	52.5°	5037.9	6087.4	5619.0	3381.0	2036.3	1920.1	1831.2	1731.0	1584.0	1560.0
4159.3	55°	5516.5	6395.1	5557.5	2848.8	1807.3	1770.8	1636.4	1515.6	1499.6	1479.1
4614.0	57.5°	6088.5	6726.7	5432.2	2255.1	1572.6	1596.5	1465.4	1479.1	1450.6	1418.7
5198.6	60°	6714.1	7069.7	5212.2	1713.9	1329.8	1378.8	1421.0	1419.9	1411.9	1385.7
5815.0	62.5°	7277.1	7295.3	4779.2	1312.7	1116.7	1210.2	1325.3	1324.1	1317.3	1302.5
6458.9	65°	7612.1	7261.1	4056.7	1033.6	941.3	1071.2	1195.4	1204.5	1205.6	1204.5
6943.2	67.5°	7552.8	6861.1	3065.4	822.7	796.5	929.9	1066.6	1079.1	1088.3	1090.5
7004.7	70°	6882.8	5982.6	1998.7	656.4	667.8	805.7	944.7	957.2	965.2	974.3
6078.3	72.5°	5364.9	4398.6	1144.1	531.0	555.0	698.5	823.9	838.7	843.3	860.3
4230.0	75°	3269.3	2586.7	617.6	418.2	455.8	597.1	704.2	721.3	729.3	749.8
2077.4	77.5°	1554.3	1120.2	352.1	325.9	366.9	487.7	594.8	614.2	592.6	604.0
573.2	80°	525.3	415.9	222.2	248.4	280.3	380.6	476.3	495.7	450.1	447.8
190.3	82.5°	183.5	168.7	141.3	165.2	181.2	272.3	360.1	385.2	335.0	333.9
85.5	85°	71.8	68.4	78.6	90.0	108.3	167.5	237.0	249.6	206.3	166.4
25.1	87.5°	14.8	16.0	19.4	20.5	33.0	58.1	85.5	104.8	83.2	70.7
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>
2456.8
2549.1
2683.6
2838.6
3015.2
3216.9
3465.3
3735.4
3882.4
3806.0
3600.9
3392.4
3210.1
3035.7
2847.7
2647.1
2469.4
2428.3
2319.0
2127.5
1819.8
1568.0
1482.5
1413.0
1376.6
1296.8
1204.5
1092.8
978.9
867.2
752.1
594.8
443.3
317.9
164.1
65.0
0.0

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