

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: P940732

Luminaire Tested: **GALN-SB3D-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940732
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-SB3D-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21931 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

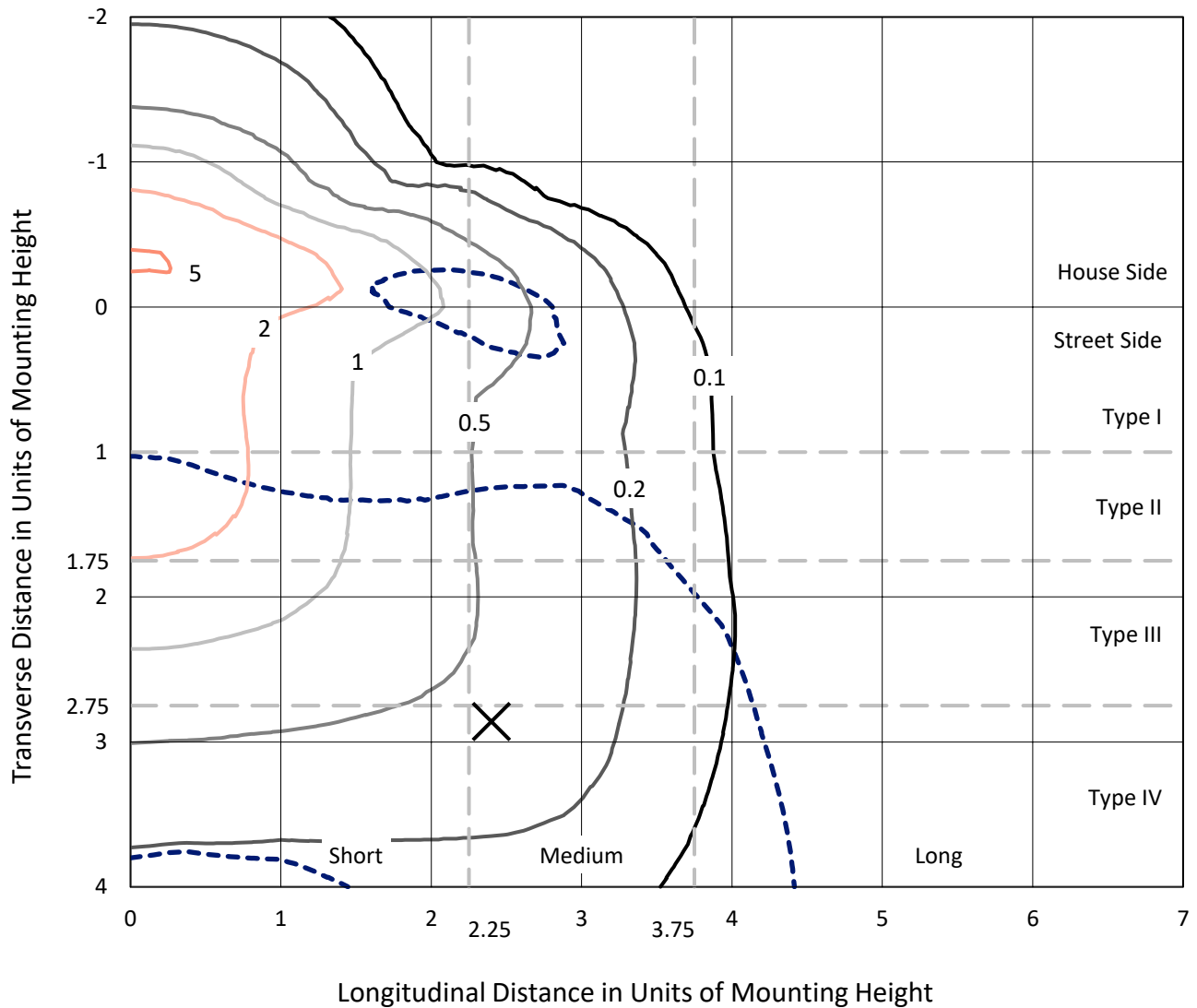
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

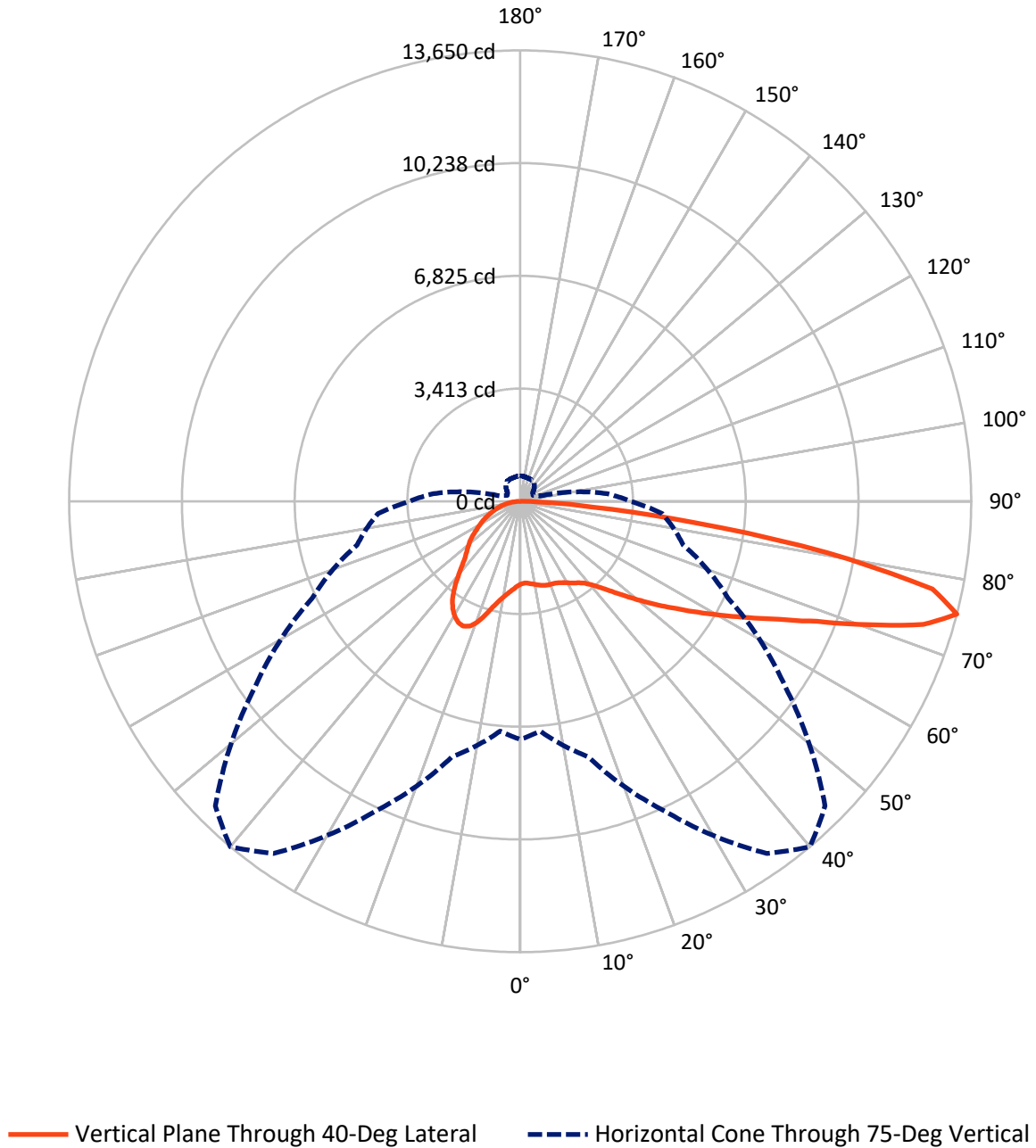
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	6794.9	0.0	6794.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	15136.0	0.0	15136.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	21931.0	0.0	21931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.3	1.1
10°-20°	840.5	3.8
20°-30°	1534.6	7.0
30°-40°	2176.5	9.9
40°-50°	2939.0	13.4
50°-60°	3953.7	18.0
60°-70°	5018.2	22.9
70°-80°	4554.3	20.8
80°-90°	663.9	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°	21931.0	100.0
0°-180°	21931.0	100.0

Coefficient of Utilization



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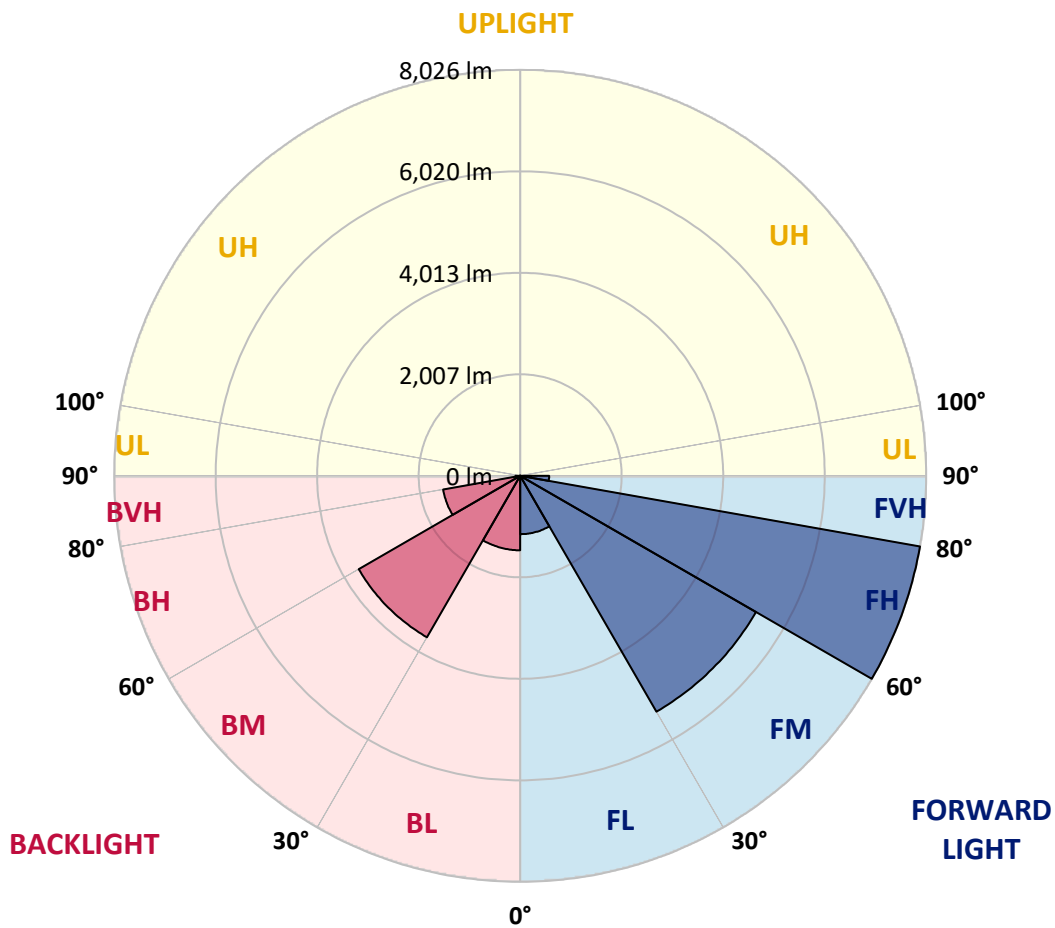
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1153.6	5.3			
FM (30°-60°)	5383.6	24.5			
FH (60°-80°)	8026.4	36.6			G4/12000
FVH (80°-90°)	572.5	2.6			G4/750
BL (0°-30°)	1471.9	6.7	B3/2500		
BM (30°-60°)	3685.6	16.8	B3/5000		
BH (60°-80°)	1546.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	91.4	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°	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8
2.5°	2469.5	2483.4	2479.9	2475.3	2475.3	2476.4	2475.3	2483.4	2491.6	2499.7
5°	2495.0	2509.0	2502.0	2496.2	2491.6	2490.4	2486.9	2485.7	2490.4	2500.9
7.5°	2545.1	2559.0	2548.6	2538.1	2528.8	2524.1	2519.5	2512.5	2509.0	2514.8
10°	2600.9	2614.9	2602.1	2583.4	2568.3	2562.5	2557.9	2550.9	2546.2	2549.7
12.5°	2656.7	2670.7	2653.2	2627.6	2607.9	2604.4	2598.6	2596.2	2595.1	2593.9
15°	2709.1	2720.7	2698.6	2668.4	2647.4	2641.6	2635.8	2639.3	2645.1	2652.1
17.5°	2749.8	2761.4	2728.8	2689.3	2669.5	2667.2	2663.7	2675.3	2691.6	2709.1
20°	2787.0	2798.6	2756.8	2703.3	2680.0	2680.0	2681.2	2705.6	2728.8	2754.4
22.5°	2839.3	2848.7	2797.5	2724.2	2690.5	2692.8	2702.1	2726.5	2755.6	2790.5
25°	2917.3	2924.3	2861.4	2763.7	2725.4	2732.3	2740.5	2752.1	2780.0	2820.7
27.5°	3042.9	3048.7	2966.1	2833.5	2775.4	2787.0	2798.6	2790.5	2803.3	2838.2
30°	3219.7	3223.2	3118.5	2942.9	2860.3	2866.1	2868.4	2834.7	2810.3	2838.2
32.5°	3429.1	3427.9	3303.5	3075.5	2956.8	2951.0	2931.2	2864.9	2807.9	2832.4
35°	3753.6	3740.8	3580.3	3261.6	3066.2	3030.1	2983.6	2898.7	2819.6	2826.6
37.5°	4291.0	4251.5	4029.3	3566.3	3229.0	3137.1	3068.5	2953.3	2845.2	2824.2
40°	4897.0	4847.0	4602.7	3983.9	3473.3	3325.6	3215.1	3031.3	2887.0	2834.7
42.5°	5615.9	5544.9	5282.0	4476.0	3782.7	3568.7	3402.3	3130.1	2948.7	2868.4
45°	6498.7	6404.5	6032.3	5030.8	4172.4	3887.4	3665.2	3280.2	3042.9	2933.6
47.5°	7390.9	7414.2	6884.9	5665.9	4640.0	4280.5	3994.4	3505.9	3180.2	3038.3
50°	8338.9	8355.2	7732.9	6369.6	5170.4	4724.9	4364.3	3758.3	3370.9	3187.1
52.5°	9078.7	9081.0	8502.9	7105.9	5722.9	5213.4	4763.3	4046.7	3591.9	3384.9
55°	9541.7	9535.8	9042.6	7802.7	6358.0	5726.4	5205.3	4374.8	3861.8	3617.5
57.5°	9877.8	9860.4	9414.9	8401.7	7035.0	6332.4	5705.5	4747.0	4180.5	3894.4
60°	10005.8	9995.3	9667.3	8919.3	7746.8	7002.4	6282.4	5163.4	4542.3	4221.2
62.5°	10054.6	10074.4	9915.0	9420.7	8508.7	7744.5	6916.3	5661.2	4949.4	4591.1
65°	10226.8	10262.8	10230.3	10076.7	9369.5	8613.4	7757.3	6253.3	5393.7	4987.8
67.5°	10567.6	10603.6	10617.6	10861.9	10421.0	9696.4	8806.5	6990.8	5913.7	5399.5
70°	10559.4	10549.0	10795.6	11486.5	11737.8	11195.7	10221.0	7898.1	6533.6	5741.5
72.5°	9611.4	9527.7	10110.5	11479.5	12833.5	12761.4	11948.3	9068.2	7068.7	5783.4
75°	7210.6	6987.3	8016.7	10345.4	13016.1	13650.0	13046.3	9794.1	6941.9	5109.9
77.5°	3083.6	2859.1	4072.3	7658.4	11649.4	12760.2	12039.0	8544.8	5541.4	3379.1
80°	807.3	806.1	1230.7	3472.1	7922.5	9423.0	8266.8	5518.2	3166.2	1207.4
82.5°	333.8	325.7	452.5	1350.5	3871.1	5287.9	4315.4	2461.3	1143.4	326.9
85°	124.5	123.3	219.8	466.4	1365.6	2181.0	1578.4	629.3	285.0	159.4
87.5°	34.9	33.7	47.7	161.7	332.7	504.8	269.9	103.5	80.3	62.8
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°
2507.8	0°	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8
2512.5	2.5°	2516.0	2521.8	2532.3	2540.4	2550.9	2562.5	2578.8	2589.3	2599.7	2606.7
2518.3	5°	2526.5	2539.2	2566.0	2592.8	2624.2	2653.2	2687.0	2711.4	2731.2	2737.0
2539.2	7.5°	2549.7	2570.7	2616.0	2661.4	2711.4	2759.1	2807.9	2849.8	2883.5	2896.3
2576.5	10°	2590.4	2618.3	2682.3	2746.3	2812.6	2885.9	2948.7	3009.2	3056.9	3076.6
2620.7	12.5°	2641.6	2676.5	2760.3	2848.7	2940.5	3041.7	3123.2	3197.6	3256.9	3283.7
2682.3	15°	2707.9	2753.3	2860.3	2978.9	3113.9	3254.6	3358.1	3440.7	3507.0	3539.6
2746.3	17.5°	2780.0	2840.5	2975.4	3154.6	3347.7	3532.6	3653.6	3714.1	3782.7	3814.1
2805.6	20°	2849.8	2924.3	3117.4	3377.9	3635.0	3831.6	3929.3	3945.5	3950.2	3953.7
2861.4	22.5°	2921.9	3022.0	3295.3	3659.4	3935.1	4071.2	4085.1	4015.3	3917.6	3872.3
2916.1	25°	3001.0	3133.6	3528.0	3970.0	4193.3	4209.6	4102.6	3932.7	3747.8	3662.9
2960.3	27.5°	3077.8	3262.7	3807.1	4266.6	4379.4	4236.3	4006.0	3765.2	3541.9	3452.3
2991.7	30°	3154.6	3410.5	4115.4	4526.0	4464.3	4170.0	3853.7	3585.0	3360.5	3266.2
3019.6	32.5°	3232.5	3582.6	4470.1	4713.2	4449.2	4029.3	3664.1	3382.6	3184.8	3085.9
3044.1	35°	3320.9	3794.3	4806.3	4815.6	4348.0	3822.2	3414.0	3140.6	2968.5	2889.4
3073.1	37.5°	3436.1	4063.0	5102.9	4841.2	4171.2	3518.7	3103.4	2854.5	2712.6	2676.5
3116.2	40°	3579.1	4386.4	5329.7	4800.5	3909.5	3149.9	2763.7	2564.8	2484.6	2492.7
3174.3	42.5°	3765.2	4748.1	5489.1	4695.8	3545.4	2769.6	2466.0	2377.6	2415.9	2448.5
3261.6	45°	4007.2	5123.9	5588.0	4517.8	3133.6	2447.4	2290.3	2311.3	2340.3	2343.8
3402.3	47.5°	4316.6	5504.2	5653.1	4249.1	2713.7	2220.5	2178.7	2183.3	2177.5	2153.1
3612.9	50°	4702.8	5874.1	5711.3	3893.2	2356.6	2078.6	2022.8	2006.5	1926.2	1847.1
3893.2	52.5°	5142.5	6213.8	5735.7	3451.2	2078.6	1960.0	1869.2	1766.9	1616.8	1592.4
4245.6	55°	5631.0	6527.8	5672.9	2908.0	1844.8	1807.6	1670.3	1547.0	1530.8	1509.8
4709.8	57.5°	6214.9	6866.3	5544.9	2302.0	1605.2	1629.6	1495.9	1509.8	1480.7	1448.2
5306.5	60°	6853.5	7216.4	5320.4	1749.4	1357.4	1407.5	1450.5	1449.3	1441.2	1414.4
5935.8	62.5°	7428.1	7446.7	4878.4	1340.0	1139.9	1235.3	1352.8	1351.6	1344.6	1329.5
6593.0	65°	7770.1	7411.9	4141.0	1055.0	960.8	1093.4	1220.2	1229.5	1230.7	1229.5
7087.3	67.5°	7709.6	7003.6	3129.0	839.8	813.1	949.2	1088.7	1101.5	1110.8	1113.2
7150.1	70°	7025.7	6106.8	2040.2	670.0	681.6	822.4	964.3	977.1	985.2	994.5
6204.5	72.5°	5476.3	4489.9	1167.8	542.0	566.5	713.0	841.0	856.1	860.8	878.2
4317.8	75°	3337.2	2640.4	630.4	426.9	465.3	609.5	718.9	736.3	744.4	765.4
2120.5	77.5°	1586.6	1143.4	359.4	332.7	374.5	497.8	607.2	627.0	604.9	616.5
585.1	80°	536.2	424.6	226.8	253.6	286.1	388.5	486.2	506.0	459.5	457.1
194.3	82.5°	187.3	172.2	144.2	168.7	184.9	278.0	367.6	393.2	342.0	340.8
87.2	85°	73.3	69.8	80.3	91.9	110.5	171.0	241.9	254.7	210.5	169.8
25.6	87.5°	15.1	16.3	19.8	20.9	33.7	59.3	87.2	107.0	84.9	72.1
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>
2507.8
2602.1
2739.3
2897.5
3077.8
3283.7
3537.3
3812.9
3963.0
3885.1
3675.7
3462.8
3276.7
3098.7
2906.8
2702.1
2520.6
2478.8
2367.1
2171.7
1857.6
1600.6
1513.3
1442.4
1405.1
1323.7
1229.5
1115.5
999.2
885.2
767.7
607.2
452.5
324.5
167.5
66.3
0.0

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