

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: P955094

Luminaire Tested: **GALN-SB8A-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955094
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-SB8A-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22375 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

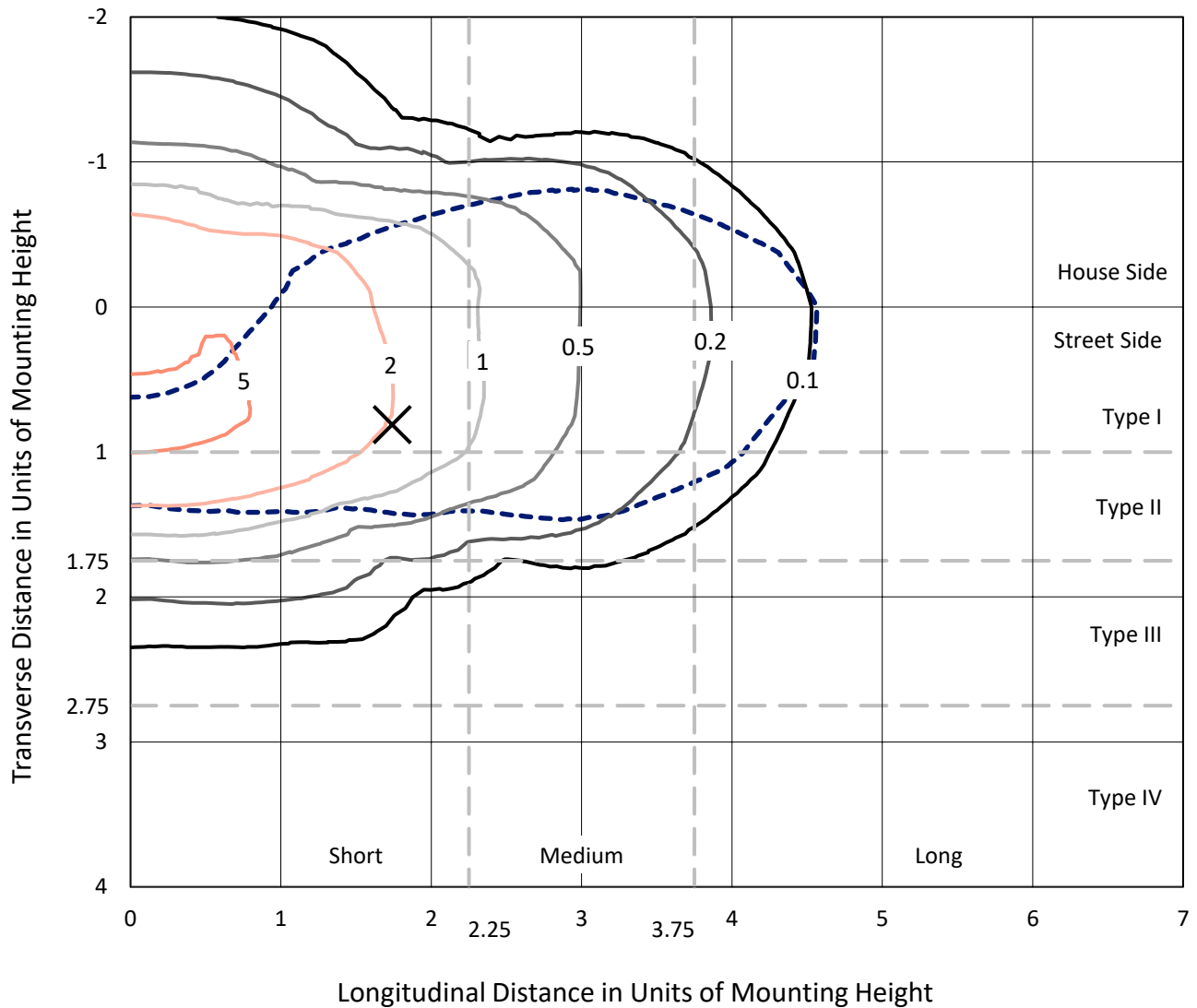
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

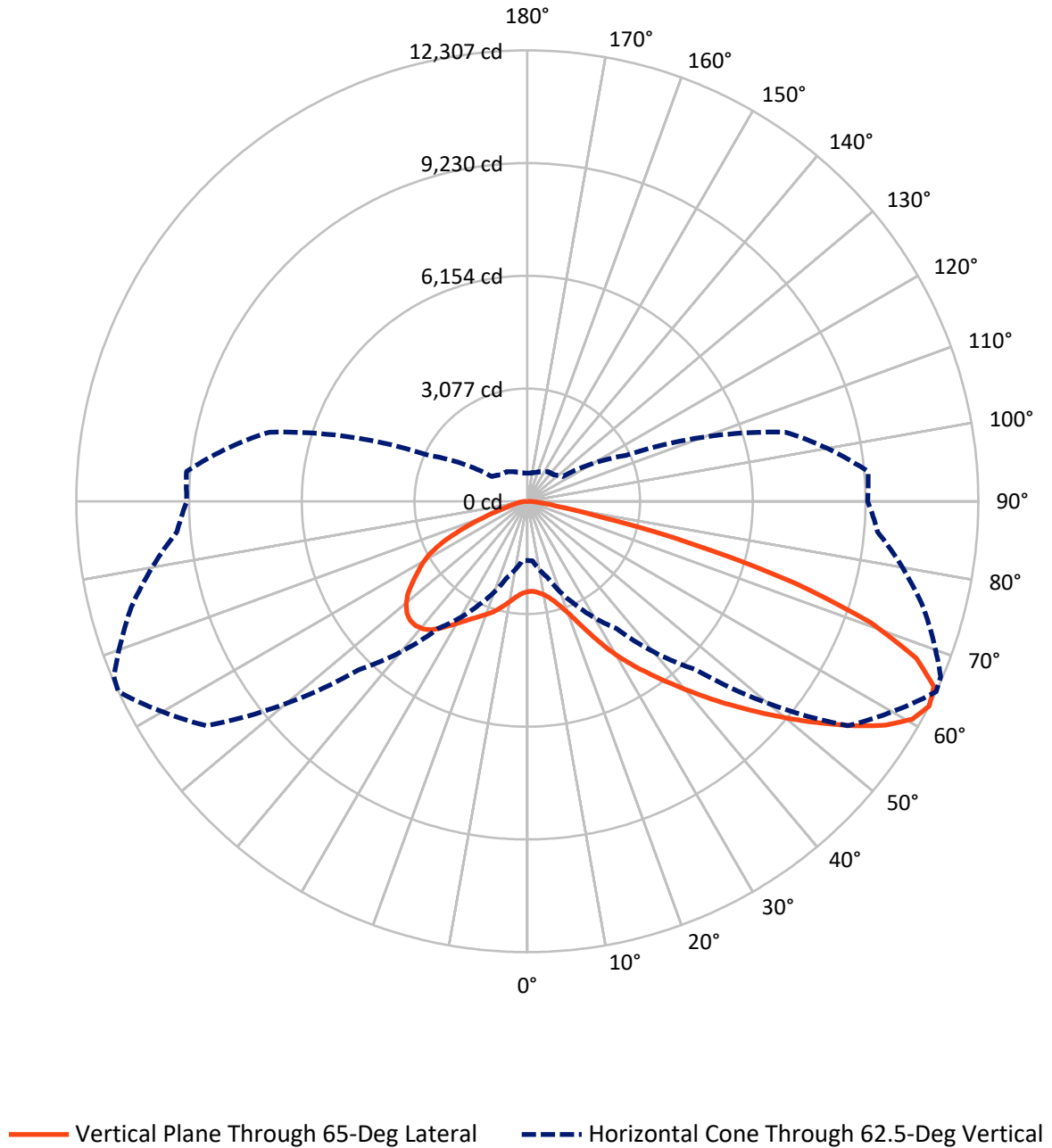
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7060.6	0.0	7060.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	15314.4	0.0	15314.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	22375.0	0.0	22375.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.8	1.1
10°-20°	833.6	3.7
20°-30°	1690.2	7.6
30°-40°	2924.9	13.1
40°-50°	4426.2	19.8
50°-60°	5189.5	23.2
60°-70°	4350.8	19.4
70°-80°	2402.0	10.7
80°-90°	312.0	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°	22375.0	100.0
0°-180°	22375.0	100.0



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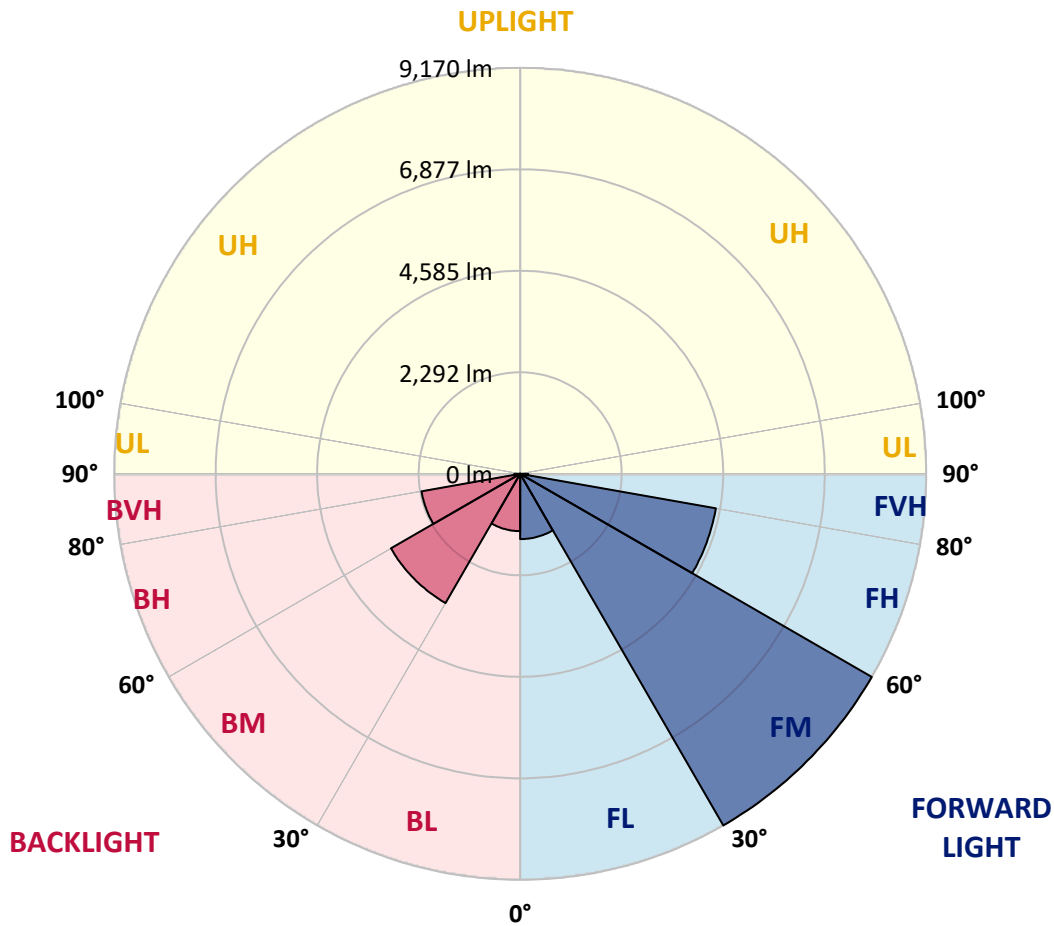
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1474.8	6.6			
FM (30°-60°)	9170.0	41.0			
FH (60°-80°)	4487.8	20.1			G2/5000
FVH (80°-90°)	181.8	0.8			G2/225
BL (0°-30°)	1294.8	5.8	B3/2500		
BM (30°-60°)	3370.6	15.1	B3/5000		
BH (60°-80°)	2265.0	10.1	B3/2500		G3/2500
BVH (80°-90°)	130.2	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°	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6
2.5°	2449.4	2442.4	2448.2	2448.2	2450.5	2449.4	2457.5	2459.8	2463.3	2470.3
5°	2425.0	2423.8	2434.3	2443.6	2452.9	2461.0	2471.4	2486.5	2488.8	2497.0
7.5°	2416.9	2409.9	2426.2	2437.8	2459.8	2479.6	2507.4	2533.0	2543.4	2546.9
10°	2479.6	2467.9	2483.0	2490.0	2508.6	2528.3	2560.8	2601.4	2613.1	2627.0
12.5°	2586.4	2573.6	2595.6	2606.1	2623.5	2640.9	2663.0	2702.4	2708.2	2733.8
15°	2732.6	2717.5	2731.5	2744.2	2773.3	2789.5	2811.6	2849.9	2849.9	2869.6
17.5°	2931.1	2911.4	2921.8	2926.5	2945.1	2969.4	3006.6	3040.2	3057.7	3050.7
20°	3227.1	3202.8	3202.8	3179.5	3172.6	3192.3	3241.1	3287.5	3306.1	3270.1
22.5°	3671.7	3636.9	3617.2	3538.2	3506.9	3509.2	3558.0	3614.9	3630.0	3566.1
25°	4237.1	4182.5	4155.8	4039.7	3968.9	3907.4	3945.7	4018.8	4039.7	3960.8
27.5°	4802.4	4805.9	4780.3	4641.0	4523.8	4411.2	4391.5	4468.1	4490.1	4400.8
30°	5595.3	5512.8	5464.1	5296.9	5129.8	4971.9	4890.6	4922.0	4927.8	4821.0
32.5°	6279.0	6258.1	6153.6	6007.4	5792.6	5545.3	5409.5	5359.6	5350.3	5198.2
35°	7057.9	7046.3	6936.0	6761.9	6529.7	6186.1	5941.2	5798.4	5786.8	5573.2
37.5°	7849.6	7849.6	7741.7	7551.3	7311.0	6881.5	6508.8	6282.5	6245.3	5966.7
40°	8481.1	8442.8	8462.5	8382.4	8107.3	7651.1	7139.2	6810.7	6760.7	6426.4
42.5°	8839.8	8827.0	8945.4	9034.8	8922.2	8557.7	7833.4	7383.0	7313.3	6932.5
45°	8919.9	8906.0	9117.3	9444.6	9602.5	9452.7	8587.9	7985.4	7900.7	7461.9
47.5°	8735.3	8707.5	9017.4	9534.0	10040.1	10303.6	9405.1	8639.0	8515.9	7977.3
50°	8180.5	8153.8	8622.7	9308.8	10187.5	10881.7	10292.0	9332.0	9144.0	8529.9
52.5°	6974.3	6987.1	7721.9	8664.5	9993.7	11241.6	11055.9	10062.2	9835.8	9095.2
55°	5432.7	5460.6	6363.7	7401.5	9218.2	11187.0	11577.1	10814.4	10589.2	9626.9
57.5°	3890.0	4013.0	4859.3	5886.6	7728.9	10322.2	11690.8	11529.5	11311.2	10207.3
60°	2521.3	2543.4	3414.0	4449.5	5885.5	8785.3	11459.8	12071.6	11901.0	10799.3
62.5°	1615.9	1631.0	2161.5	3112.2	4235.9	6499.6	10682.1	12307.2	12255.0	11190.5
65°	1187.5	1175.9	1452.2	2057.0	2853.3	4008.4	9171.8	12193.5	12296.8	11435.5
67.5°	991.4	975.1	1110.9	1424.4	2102.3	2276.4	6786.3	11454.0	11832.5	11407.6
70°	903.1	889.2	971.6	1057.5	1640.3	1524.2	3421.0	9957.7	10540.4	11090.7
72.5°	765.0	740.6	853.2	939.1	1275.8	1169.0	1413.9	7648.8	8359.2	10074.9
75°	593.2	576.9	673.3	826.5	958.9	912.4	893.8	4644.5	5420.0	7791.6
77.5°	470.1	448.1	536.3	644.3	862.5	688.4	651.2	2000.1	2768.6	4974.2
80°	354.1	334.3	407.5	509.6	662.8	518.9	421.4	816.1	1043.6	2520.2
82.5°	251.9	234.5	284.4	373.8	445.8	465.5	258.9	457.4	514.3	971.6
85°	161.4	150.9	190.4	234.5	283.2	299.5	157.9	239.1	262.4	400.5
87.5°	88.2	72.0	102.2	109.1	131.2	119.6	75.5	87.1	94.0	145.1
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°
2465.6	0°	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6
2470.3	2.5°	2474.9	2478.4	2490.0	2493.5	2501.6	2512.1	2519.0	2526.0	2526.0	2533.0
2507.4	5°	2508.6	2516.7	2541.1	2553.9	2574.7	2595.6	2608.4	2623.5	2632.8	2637.4
2566.6	7.5°	2573.6	2586.4	2621.2	2643.2	2679.2	2708.2	2728.0	2748.9	2753.5	2766.3
2649.0	10°	2661.8	2676.9	2716.4	2758.2	2801.1	2837.1	2855.7	2870.8	2876.6	2878.9
2754.7	12.5°	2762.8	2784.9	2835.9	2887.0	2932.3	2963.6	2968.3	2964.8	2948.5	2934.6
2884.7	15°	2887.0	2906.7	2963.6	3019.3	3063.5	3069.3	3040.2	3021.7	3001.9	2998.5
3029.8	17.5°	3035.6	3046.0	3098.3	3152.8	3156.3	3136.6	3093.6	3076.2	3057.7	3044.9
3219.0	20°	3208.6	3205.1	3242.2	3265.4	3241.1	3180.7	3115.7	3086.7	3068.1	3053.0
3451.2	22.5°	3415.2	3388.5	3383.9	3378.0	3313.0	3186.5	3098.3	3061.1	3032.1	3011.2
3775.1	25°	3715.9	3613.7	3542.9	3503.4	3357.2	3155.2	3042.6	2960.1	2905.6	2869.6
4170.9	27.5°	4092.0	3920.2	3741.4	3645.0	3357.2	3091.3	2907.9	2774.4	2685.0	2647.9
4554.0	30°	4450.7	4270.7	4007.2	3815.7	3349.0	2986.8	2690.8	2505.1	2400.6	2363.5
4881.3	32.5°	4757.1	4560.9	4289.3	4002.6	3329.3	2817.4	2421.5	2216.0	2115.1	2070.9
5205.2	35°	5041.5	4832.6	4572.6	4208.1	3277.1	2568.9	2125.5	1968.8	1856.2	1785.4
5534.9	37.5°	5332.9	5084.5	4840.7	4393.8	3183.0	2278.7	1898.0	1764.5	1632.1	1537.0
5885.5	40°	5649.8	5352.6	5127.4	4504.1	3028.6	2002.5	1721.5	1599.6	1459.2	1358.2
6289.4	42.5°	6020.1	5674.2	5446.7	4560.9	2817.4	1806.3	1606.6	1487.0	1354.7	1272.3
6722.4	45°	6406.7	6028.3	5738.0	4559.8	2581.7	1714.6	1569.5	1451.1	1304.8	1218.9
7167.0	47.5°	6811.8	6398.6	5989.9	4485.5	2377.4	1727.3	1548.6	1373.3	1211.9	1128.3
7616.3	50°	7218.1	6803.7	6233.7	4346.2	2290.3	1699.5	1470.8	1264.2	1073.8	998.3
8037.7	52.5°	7620.9	7234.4	6443.8	4147.7	2202.1	1596.2	1371.0	1122.5	1016.9	964.7
8473.0	55°	8026.1	7660.4	6672.5	3858.6	1981.6	1475.4	1203.8	1069.1	971.6	924.0
8899.0	57.5°	8432.4	8152.6	6889.6	3569.6	1704.1	1326.8	1112.1	1004.1	926.4	885.7
9255.4	60°	8854.9	8715.6	7113.6	3303.8	1430.2	1136.5	1044.8	951.9	873.0	827.7
9597.8	62.5°	9290.2	9335.5	7288.9	2961.3	1178.3	1020.4	984.4	889.2	812.6	769.6
9881.1	65°	9729.0	9933.3	7403.8	2486.5	955.4	910.1	919.4	820.7	742.9	705.8
10088.9	67.5°	10059.9	10364.0	7371.3	1881.7	783.6	805.6	838.1	748.7	675.6	646.6
10055.2	70°	10097.0	10312.9	7051.0	1288.5	655.9	703.5	747.6	677.9	602.5	581.6
9581.6	72.5°	9602.5	9616.4	6158.3	841.6	554.9	617.6	652.4	606.0	532.8	511.9
8382.4	75°	8305.8	7952.9	4521.5	554.9	464.3	530.5	563.0	530.5	459.7	464.3
6272.0	77.5°	6292.9	5632.4	2745.4	394.7	387.7	445.8	489.9	466.7	406.3	456.2
3154.0	80°	3242.2	3047.2	1224.7	294.9	306.5	356.4	402.8	372.6	321.6	306.5
704.6	82.5°	742.9	863.7	482.9	211.3	221.7	256.5	307.6	279.8	231.0	195.0
293.7	85°	260.0	284.4	213.6	132.3	130.0	160.2	209.0	186.9	156.7	125.4
124.2	87.5°	82.4	108.0	80.1	53.4	55.7	72.0	96.3	88.2	73.1	47.6
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>
2465.6
2533.0
2639.8
2761.6
2873.1
2934.6
2998.5
3046.0
3054.2
3018.2
2883.5
2666.5
2385.5
2093.0
1808.6
1562.5
1377.9
1288.5
1232.8
1139.9
1003.0
964.7
919.4
878.8
824.2
768.5
704.6
647.7
582.7
510.8
448.1
401.7
279.8
192.7
132.3
49.9
0.0

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