

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: P952301

Luminaire Tested: **GALN-SB6A-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952301
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-SB6A-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19976 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

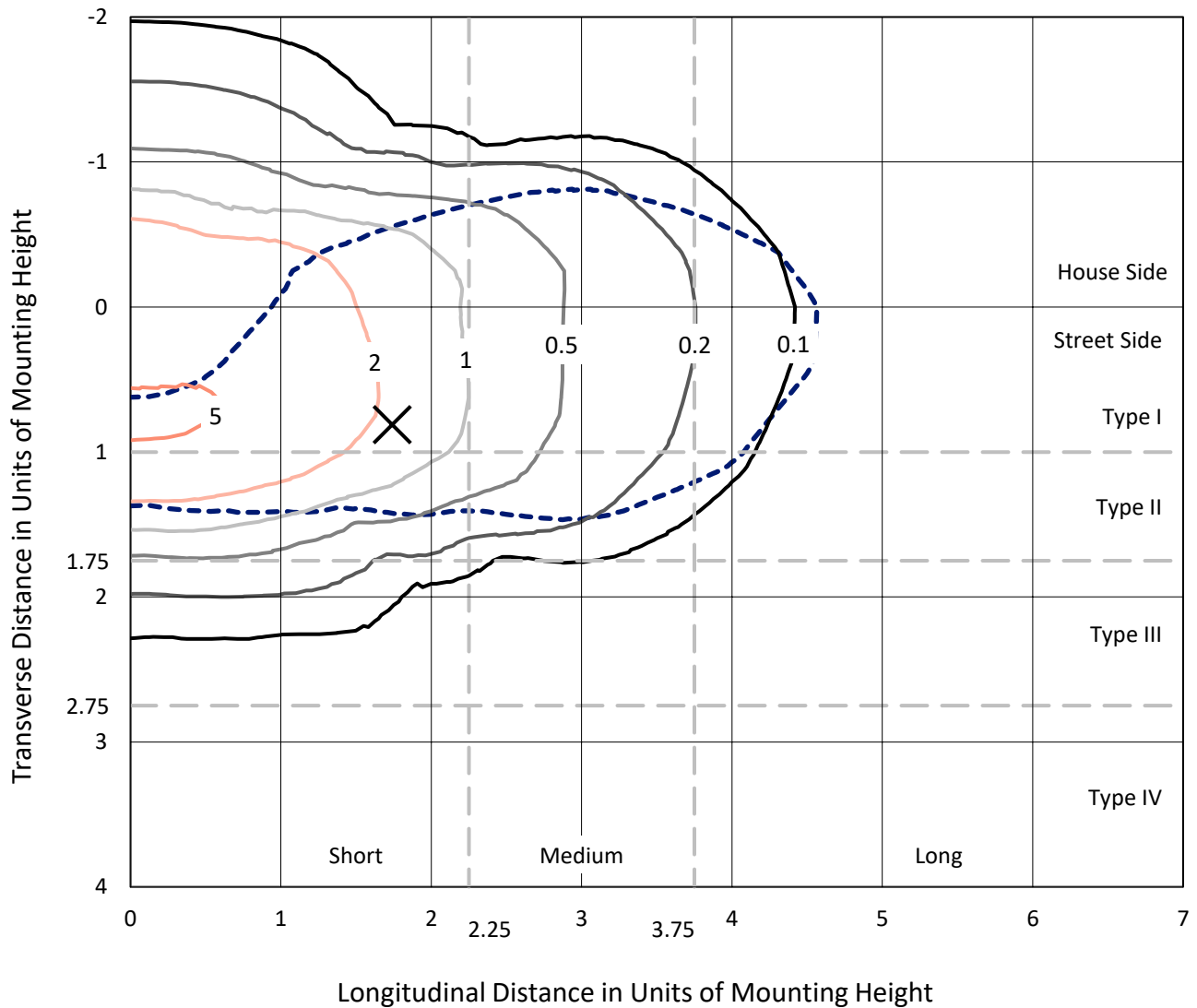
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

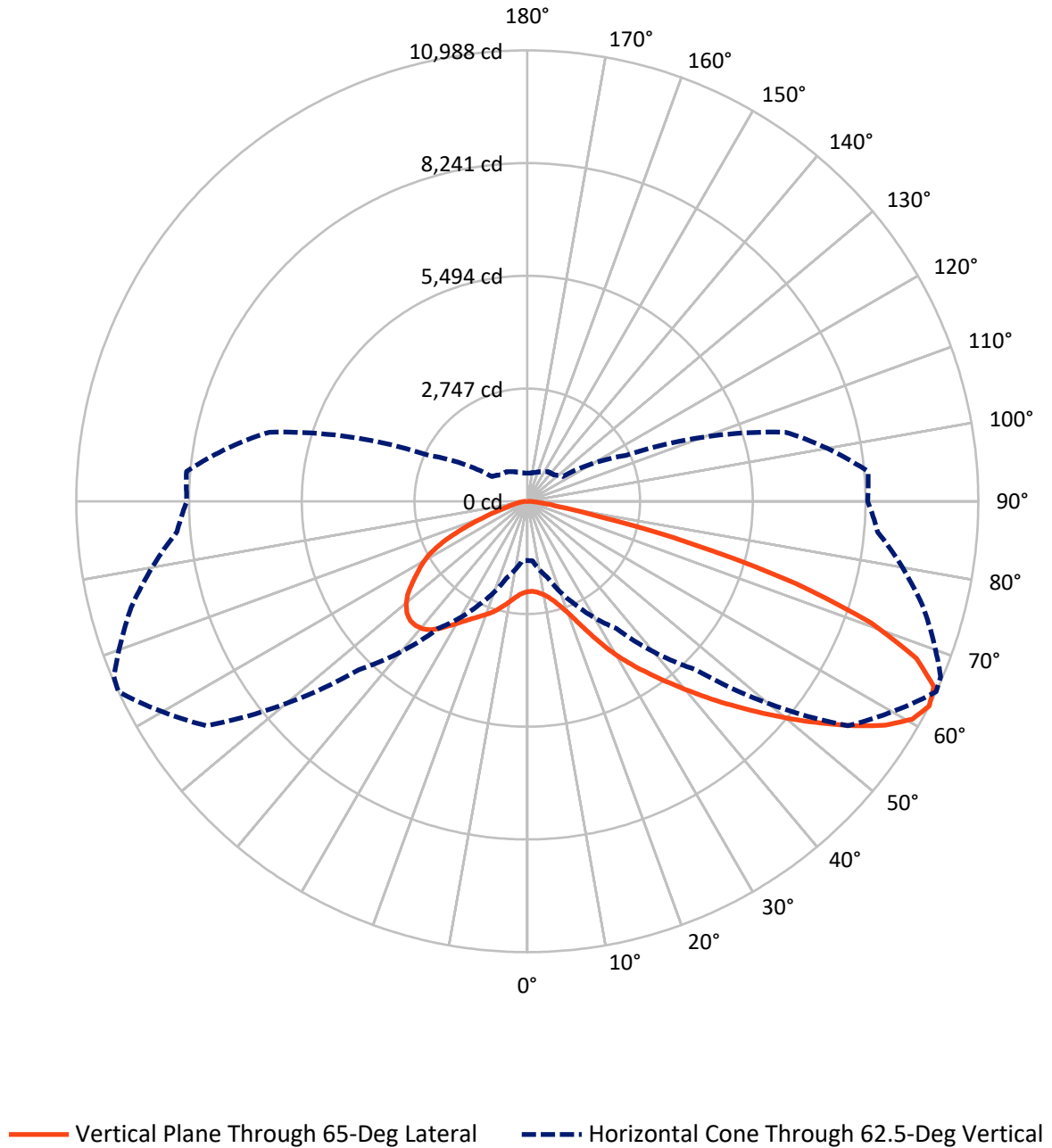
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	6303.6	0.0	6303.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	13672.4	0.0	13672.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	19976.0	0.0	19976.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	1.1
10°-20°	744.2	3.7
20°-30°	1509.0	7.6
30°-40°	2611.3	13.1
40°-50°	3951.7	19.8
50°-60°	4633.1	23.2
60°-70°	3884.3	19.4
70°-80°	2144.4	10.7
80°-90°	278.5	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°	19976.0	100.0
0°-180°	19976.0	100.0



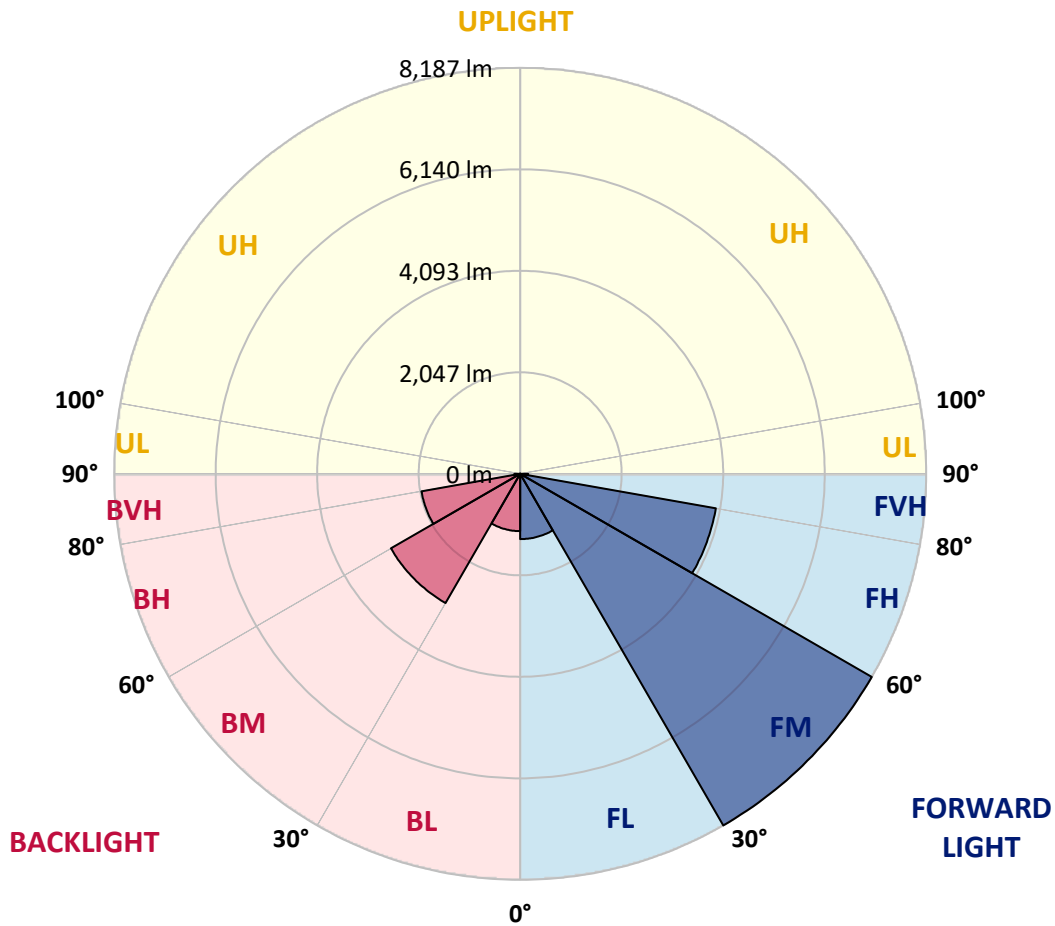
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.7	6.6			
FM (30°-60°)	8186.8	41.0			
FH (60°-80°)	4006.6	20.1			G2/5000
FVH (80°-90°)	162.3	0.8			G2/225
BL (0°-30°)	1156.0	5.8	B3/2500		
BM (30°-60°)	3009.2	15.1	B3/5000		
BH (60°-80°)	2022.1	10.1	B3/2500		G3/2500
BVH (80°-90°)	116.2	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°	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3
2.5°	2186.8	2180.5	2185.7	2185.7	2187.8	2186.8	2194.0	2196.1	2199.2	2205.4
5°	2165.0	2164.0	2173.3	2181.6	2189.9	2197.1	2206.5	2219.9	2222.0	2229.3
7.5°	2157.7	2151.5	2166.0	2176.4	2196.1	2213.7	2238.6	2261.4	2270.7	2273.8
10°	2213.7	2203.3	2216.8	2223.0	2239.6	2257.2	2286.3	2322.5	2332.9	2345.3
12.5°	2309.1	2297.7	2317.3	2326.7	2342.2	2357.8	2377.5	2412.7	2417.9	2440.7
15°	2439.6	2426.2	2438.6	2450.0	2475.9	2490.4	2510.1	2544.3	2544.3	2561.9
17.5°	2616.9	2599.2	2608.6	2612.7	2629.3	2651.1	2684.2	2714.3	2729.8	2723.6
20°	2881.1	2859.4	2859.4	2838.6	2832.4	2850.0	2893.6	2935.0	2951.6	2919.5
22.5°	3278.1	3247.0	3229.4	3158.9	3130.9	3133.0	3176.5	3227.3	3240.8	3183.8
25°	3782.8	3734.1	3710.2	3606.6	3543.4	3488.5	3522.7	3587.9	3606.6	3536.1
27.5°	4287.5	4290.6	4267.8	4143.4	4038.8	3938.2	3920.6	3989.0	4008.7	3928.9
30°	4995.3	4921.8	4878.2	4729.0	4579.8	4438.8	4366.3	4394.2	4399.4	4304.1
32.5°	5605.8	5587.1	5493.8	5363.3	5171.5	4950.8	4829.5	4785.0	4776.7	4640.9
35°	6301.2	6290.8	6192.4	6036.9	5829.6	5522.9	5304.2	5176.7	5166.3	4975.7
37.5°	7008.0	7008.0	6911.6	6741.6	6527.1	6143.7	5811.0	5608.9	5575.7	5327.0
40°	7571.8	7537.6	7555.2	7483.7	7238.1	6830.8	6373.7	6080.4	6035.9	5737.4
42.5°	7892.0	7880.6	7986.3	8066.1	7965.6	7640.2	6993.5	6591.4	6529.2	6189.3
45°	7963.5	7951.1	8139.7	8432.0	8572.9	8439.2	7667.1	7129.2	7053.6	6661.8
47.5°	7798.8	7773.9	8050.6	8511.8	8963.6	9198.9	8396.7	7712.7	7602.9	7122.0
50°	7303.4	7279.5	7698.2	8310.7	9095.3	9715.0	9188.5	8331.4	8163.6	7615.3
52.5°	6226.6	6238.0	6894.0	7735.5	8922.2	10036.3	9870.5	8983.3	8781.2	8120.0
55°	4850.3	4875.1	5681.4	6608.0	8229.9	9987.6	10335.8	9654.9	9453.8	8594.7
57.5°	3472.9	3582.8	4338.3	5255.5	6900.2	9215.5	10437.4	10293.3	10098.5	9112.9
60°	2251.0	2270.7	3048.0	3972.4	5254.4	7843.3	10231.1	10777.3	10625.0	9641.4
62.5°	1442.6	1456.1	1929.7	2778.5	3781.7	5802.7	9536.8	10987.7	10941.1	9990.7
65°	1060.2	1049.9	1296.5	1836.5	2547.4	3578.6	8188.4	10886.1	10978.4	10209.4
67.5°	885.1	870.6	991.8	1271.6	1876.9	2032.3	6058.7	10225.9	10563.8	10184.5
70°	806.3	793.9	867.4	944.1	1464.4	1360.8	3054.2	8890.1	9410.3	9901.6
72.5°	683.0	661.2	761.7	838.4	1139.0	1043.6	1262.3	6828.7	7463.0	8994.7
75°	529.6	515.1	601.1	737.9	856.0	814.6	798.0	4146.6	4838.9	6956.2
77.5°	419.7	400.0	478.8	575.2	770.0	614.6	581.4	1785.7	2471.8	4440.9
80°	316.1	298.5	363.8	455.0	591.8	463.3	376.2	728.6	931.7	2250.0
82.5°	224.9	209.3	253.9	333.7	398.0	415.6	231.1	408.3	459.1	867.4
85°	144.1	134.7	170.0	209.3	252.9	267.4	140.9	213.5	234.2	357.6
87.5°	78.8	64.3	91.2	97.4	117.1	106.7	67.4	77.7	83.9	129.5
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°
2201.3	0°	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3
2205.4	2.5°	2209.6	2212.7	2223.0	2226.1	2233.4	2242.7	2248.9	2255.2	2255.2	2261.4
2238.6	5°	2239.6	2246.9	2268.6	2280.0	2298.7	2317.3	2328.7	2342.2	2350.5	2354.7
2291.4	7.5°	2297.7	2309.1	2340.1	2359.8	2392.0	2417.9	2435.5	2454.1	2458.3	2469.7
2365.0	10°	2376.4	2389.9	2425.1	2462.4	2500.8	2532.9	2549.5	2563.0	2568.1	2570.2
2459.3	12.5°	2466.6	2486.3	2531.9	2577.5	2617.9	2645.9	2650.0	2646.9	2632.4	2620.0
2575.4	15°	2577.5	2595.1	2645.9	2695.6	2735.0	2740.2	2714.3	2697.7	2680.1	2677.0
2704.9	17.5°	2710.1	2719.5	2766.1	2814.8	2817.9	2800.3	2761.9	2746.4	2729.8	2718.4
2873.9	20°	2864.6	2861.4	2894.6	2915.3	2893.6	2839.7	2781.6	2755.7	2739.1	2725.7
3081.2	22.5°	3049.0	3025.2	3021.0	3015.9	2957.8	2844.9	2766.1	2732.9	2707.0	2688.4
3370.3	25°	3317.4	3226.2	3163.0	3127.8	2997.2	2816.9	2716.3	2642.8	2594.1	2561.9
3723.7	27.5°	3653.2	3499.9	3340.2	3254.2	2997.2	2759.9	2596.1	2476.9	2397.1	2364.0
4065.7	30°	3973.5	3812.8	3577.6	3406.6	2990.0	2666.6	2402.3	2236.5	2143.2	2110.1
4358.0	32.5°	4247.1	4071.9	3829.4	3573.4	2972.3	2515.3	2161.9	1978.4	1888.3	1848.9
4647.1	35°	4501.0	4314.4	4082.3	3756.9	2925.7	2293.5	1897.6	1757.7	1657.2	1594.0
4941.5	37.5°	4761.1	4539.3	4321.7	3922.7	2841.8	2034.4	1694.5	1575.3	1457.1	1372.2
5254.4	40°	5044.1	4778.7	4577.7	4021.1	2703.9	1787.8	1536.9	1428.1	1302.7	1212.6
5615.1	42.5°	5374.7	5065.8	4862.7	4071.9	2515.3	1612.6	1434.3	1327.6	1209.5	1135.9
6001.7	45°	5719.8	5381.9	5122.8	4070.9	2304.9	1530.7	1401.2	1295.5	1164.9	1088.2
6398.6	47.5°	6081.5	5712.5	5347.7	4004.6	2122.5	1542.1	1382.5	1226.0	1082.0	1007.4
6799.7	50°	6444.2	6074.2	5565.4	3880.2	2044.8	1517.3	1313.1	1128.6	958.7	891.3
7175.9	52.5°	6803.8	6458.7	5752.9	3703.0	1966.0	1425.0	1224.0	1002.2	907.9	861.2
7564.5	55°	7165.5	6839.1	5957.1	3444.9	1769.1	1317.2	1074.7	954.5	867.4	825.0
7944.9	57.5°	7528.3	7278.5	6150.9	3186.9	1521.4	1184.6	992.9	896.5	827.0	790.8
8263.0	60°	7905.5	7781.1	6350.9	2949.5	1276.8	1014.6	932.7	849.8	779.4	738.9
8568.8	62.5°	8294.1	8334.6	6507.4	2643.8	1051.9	911.0	878.8	793.9	725.5	687.1
8821.7	65°	8685.9	8868.3	6610.0	2219.9	852.9	812.5	820.8	732.7	663.3	630.1
9007.2	67.5°	8981.3	9252.8	6581.0	1680.0	699.6	719.2	748.3	668.5	603.2	577.3
8977.1	70°	9014.4	9207.2	6295.0	1150.4	585.6	628.0	667.4	605.2	537.9	519.2
8554.3	72.5°	8572.9	8585.4	5498.0	751.4	495.4	551.4	582.4	541.0	475.7	457.0
7483.7	75°	7415.3	7100.2	4036.7	495.4	414.6	473.6	502.6	473.6	410.4	414.6
5599.6	77.5°	5618.2	5028.5	2451.0	352.4	346.2	398.0	437.4	416.6	362.7	407.3
2815.8	80°	2894.6	2720.5	1093.4	263.2	273.6	318.2	359.6	332.7	287.1	273.6
629.1	82.5°	663.3	771.1	431.1	188.6	197.9	229.0	274.6	249.8	206.2	174.1
262.2	85°	232.1	253.9	190.7	118.1	116.1	143.0	186.5	166.9	139.9	111.9
110.9	87.5°	73.6	96.4	71.5	47.7	49.7	64.3	86.0	78.8	65.3	42.5
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>
2201.3
2261.4
2356.7
2465.5
2565.0
2620.0
2677.0
2719.5
2726.7
2694.6
2574.4
2380.6
2129.8
1868.6
1614.7
1395.0
1230.2
1150.4
1100.6
1017.7
895.4
861.2
820.8
784.5
735.8
686.1
629.1
578.3
520.3
456.0
400.0
358.6
249.8
172.0
118.1
44.6
0.0

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