

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: P943629

Luminaire Tested: **GALN-SB8A-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25979 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

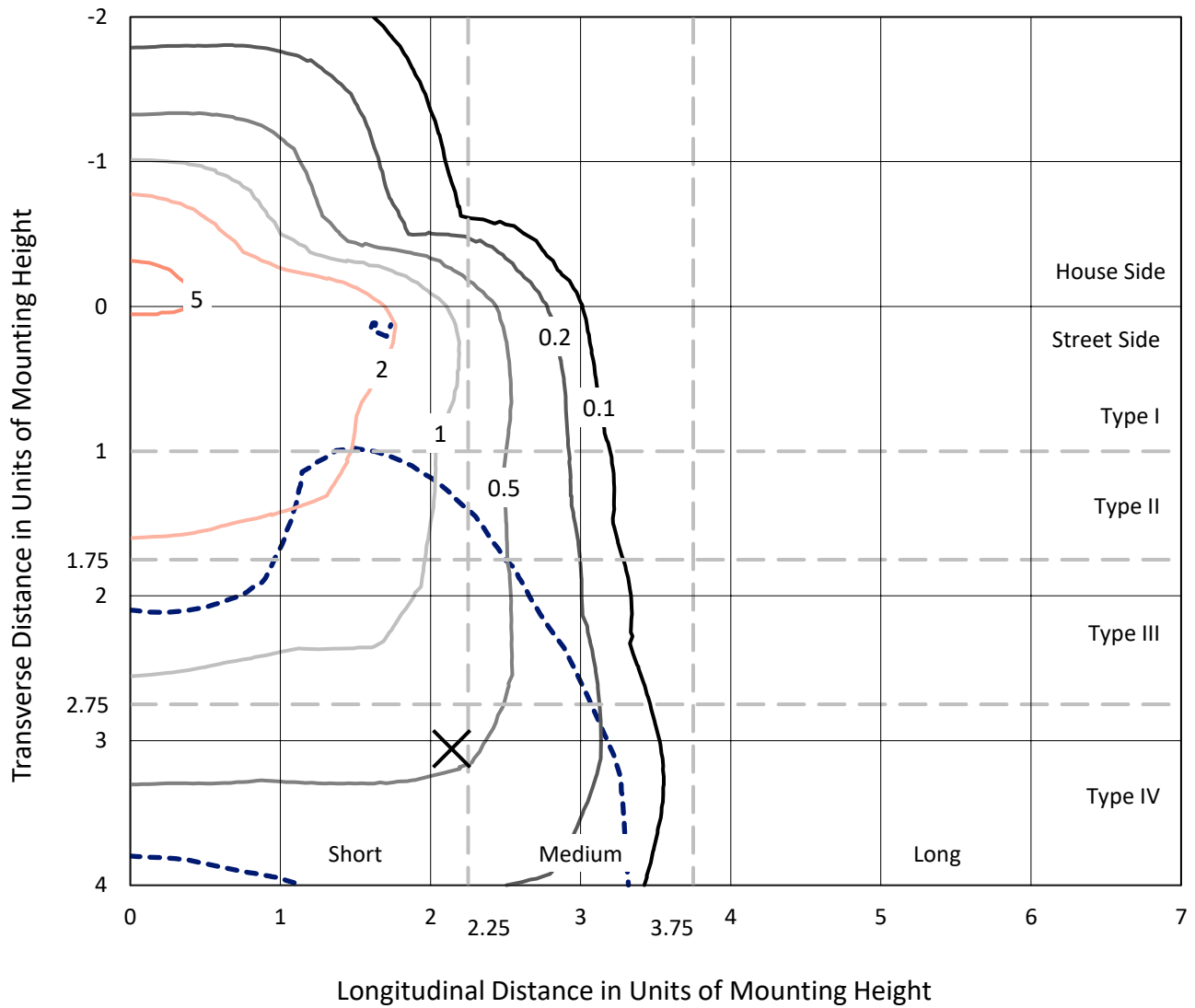
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

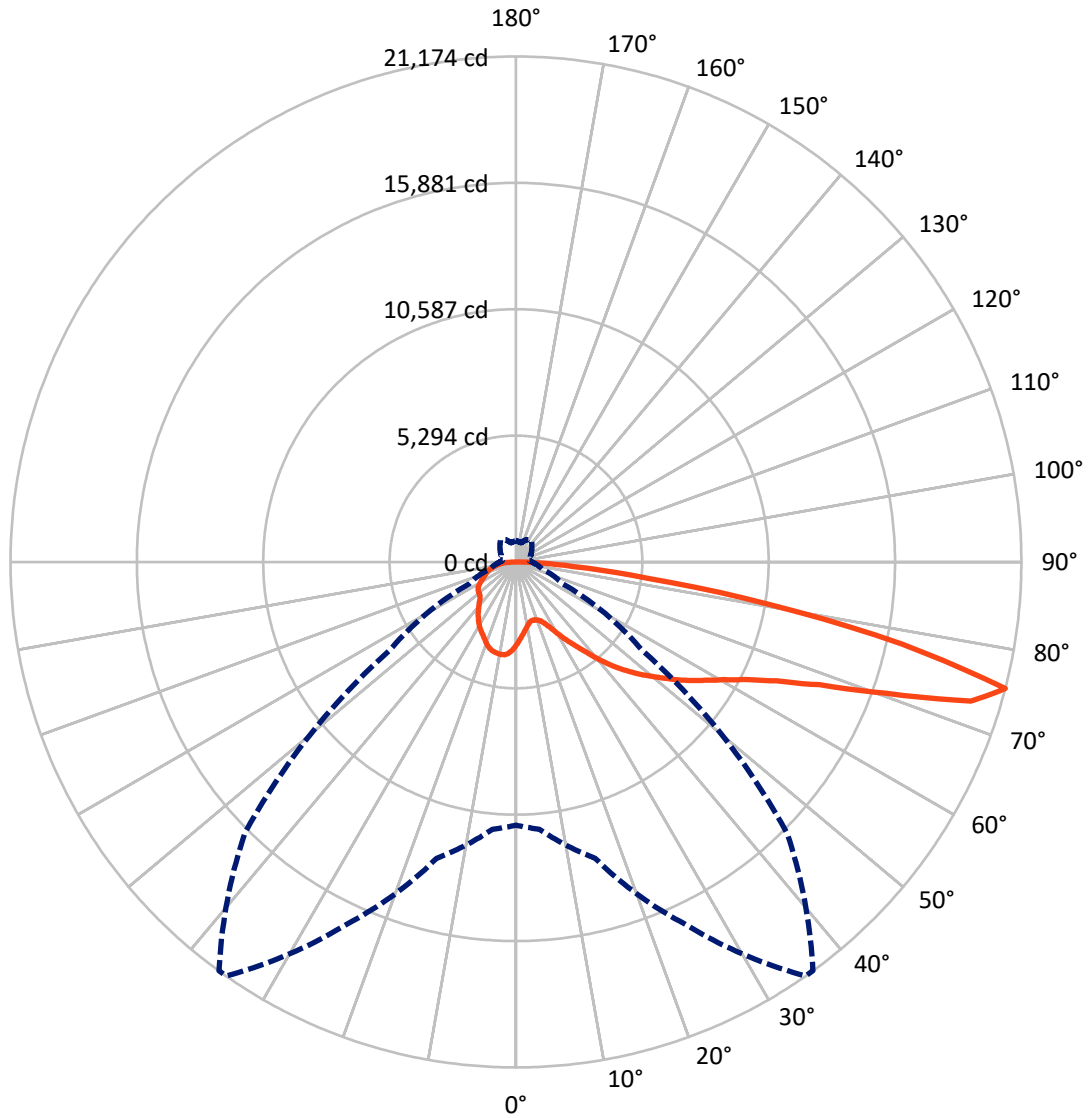
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6182.4	0.0	6182.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	19796.7	0.0	19796.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	25979.0	0.0	25979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.8	1.3
10°-20°	945.4	3.6
20°-30°	1587.6	6.1
30°-40°	2467.4	9.5
40°-50°	3662.3	14.1
50°-60°	5056.0	19.5
60°-70°	6134.1	23.6
70°-80°	5069.3	19.5
80°-90°	729.1	2.8
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°	25979.0	100.0
0°-180°	25979.0	100.0

Coefficient of Utilization



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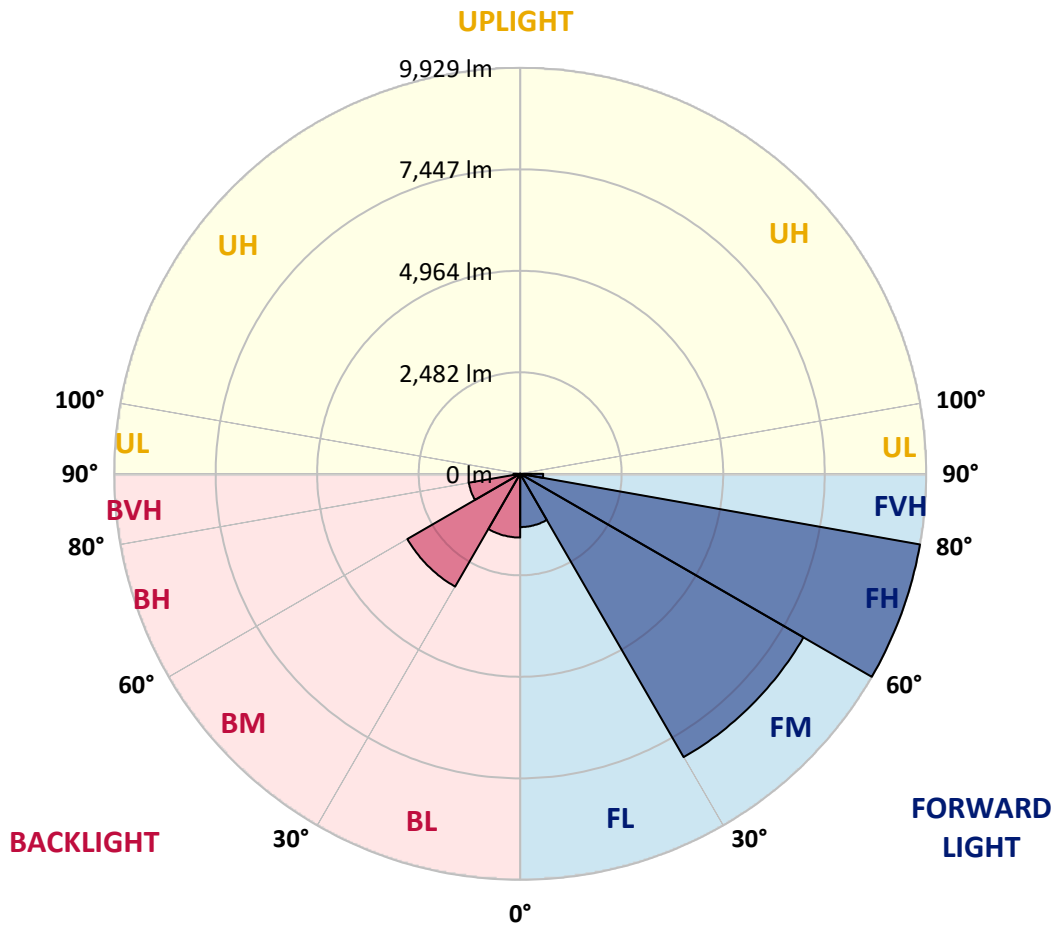
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1302.8	5.0			
FM (30°-60°)	8000.1	30.8			
FH (60°-80°)	9928.8	38.2			G4/12000
FVH (80°-90°)	564.9	2.2			G4/750
BL (0°-30°)	1558.0	6.0	B3/2500		
BM (30°-60°)	3185.5	12.3	B3/5000		
BH (60°-80°)	1274.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	164.2	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9
2.5°	3192.2	3211.9	3220.3	3216.1	3237.2	3234.4	3263.9	3300.4	3350.9	3400.1
5°	2946.5	2967.5	2985.8	3002.6	3043.4	3056.0	3102.3	3172.6	3265.3	3359.4
7.5°	2717.5	2735.8	2763.9	2794.8	2863.6	2876.2	2953.5	3063.0	3192.2	3329.9
10°	2530.8	2549.0	2578.5	2613.6	2699.3	2714.7	2813.0	2959.1	3127.6	3301.8
12.5°	2450.7	2456.3	2473.2	2508.3	2582.7	2592.5	2700.7	2867.8	3064.4	3280.7
15°	2446.5	2457.7	2459.1	2477.4	2539.2	2543.4	2643.1	2808.8	3025.1	3276.5
17.5°	2488.6	2497.0	2484.4	2495.6	2547.6	2554.6	2633.3	2780.7	3012.5	3294.8
20°	2601.0	2608.0	2570.1	2554.6	2592.5	2598.2	2675.4	2799.0	3025.1	3332.7
22.5°	2839.7	2843.9	2751.2	2688.0	2690.9	2693.7	2761.1	2873.4	3074.3	3401.5
25°	3211.9	3209.1	3061.6	2939.4	2869.2	2853.8	2898.7	2994.2	3157.1	3492.8
27.5°	3647.3	3626.2	3478.7	3296.2	3143.1	3120.6	3110.8	3151.5	3275.1	3613.6
30°	4138.8	4119.1	3960.4	3721.7	3509.6	3473.1	3380.4	3359.4	3450.6	3777.9
32.5°	4678.1	4665.5	4475.9	4186.6	3902.9	3860.7	3704.8	3648.7	3720.3	4026.5
35°	5130.3	5119.1	4961.8	4664.1	4317.2	4265.2	4106.5	4043.3	4079.8	4345.3
37.5°	5539.0	5533.4	5398.6	5164.0	4805.9	4742.7	4564.3	4543.3	4536.3	4765.2
40°	5918.2	5904.2	5763.7	5640.1	5374.7	5317.1	5159.8	5141.6	5088.2	5282.0
42.5°	6338.1	6301.6	6098.0	6040.4	5968.8	5921.0	5826.9	5829.7	5711.7	5864.8
45°	6680.8	6659.7	6450.5	6416.8	6494.0	6474.3	6555.8	6576.9	6347.9	6475.7
47.5°	7048.7	7029.1	6852.1	6828.3	7037.5	7043.1	7331.0	7338.1	6968.7	7110.5
50°	7502.4	7474.3	7298.7	7328.2	7562.8	7583.8	8110.5	8062.7	7540.3	7755.2
52.5°	7801.5	7818.4	7780.4	7828.2	8148.4	8168.1	8877.3	8755.1	8106.3	8391.4
55°	8022.0	8055.7	8173.7	8283.2	8766.3	8786.0	9600.6	9413.8	8575.3	8981.2
57.5°	8305.7	8257.9	8478.4	8691.9	9353.4	9405.4	10304.2	10048.6	8991.1	9489.6
60°	8713.0	8679.3	8850.6	9166.6	10010.7	10093.5	11048.5	10620.2	9295.8	9892.7
62.5°	9538.8	9454.5	9481.2	9760.7	10839.3	10948.8	11888.4	11118.7	9447.5	10050.0
65°	10773.3	10628.6	10493.8	10687.6	12006.3	12114.5	12836.3	11510.6	9391.3	9745.2
67.5°	12327.9	12184.7	12019.0	12201.5	13725.3	13811.0	14006.2	11731.1	8948.9	8571.1
70°	13610.2	13556.8	13754.8	14506.2	16471.0	16473.8	15506.1	11548.5	7736.9	6076.9
72.5°	13440.2	13407.9	14451.4	16774.3	19931.4	19857.0	16926.0	10166.5	5211.8	2741.4
75°	11026.0	11235.3	12851.8	16733.6	21174.3	21164.5	16056.7	6463.1	2155.8	1136.2
77.5°	5912.6	6244.0	8343.6	12354.6	16529.9	16778.5	11288.7	2261.1	925.5	727.5
80°	1928.3	2217.6	3325.6	6290.4	10740.9	10694.6	4838.2	887.6	633.4	515.4
82.5°	818.8	852.5	1485.9	2970.3	5512.3	5426.7	1540.6	509.8	445.2	352.5
85°	320.2	358.1	655.9	1373.5	2387.5	2335.5	556.1	252.8	285.1	230.3
87.5°	105.3	127.8	234.5	470.5	742.9	716.3	136.2	87.1	123.6	105.3
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°
3461.9	0°	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9
3471.7	2.5°	3491.4	3513.8	3540.5	3579.8	3613.6	3641.6	3671.1	3689.4	3696.4	3717.5
3477.3	5°	3516.6	3565.8	3631.8	3696.4	3759.6	3797.5	3831.2	3848.1	3863.5	3874.8
3492.8	7.5°	3558.8	3622.0	3725.9	3810.2	3863.5	3894.4	3916.9	3911.3	3916.9	3919.7
3509.6	10°	3595.3	3683.8	3807.4	3887.4	3928.1	3929.5	3923.9	3904.3	3894.4	3895.8
3534.9	12.5°	3638.8	3737.1	3870.6	3938.0	3949.2	3918.3	3894.4	3860.7	3848.1	3842.5
3572.8	15°	3697.8	3810.2	3939.4	3964.7	3936.6	3897.2	3856.5	3801.7	3773.7	3751.2
3637.4	17.5°	3769.4	3893.0	3992.7	3974.5	3914.1	3849.5	3783.5	3700.6	3643.0	3619.2
3725.9	20°	3869.2	3980.1	4033.5	3953.4	3862.1	3763.8	3651.5	3550.4	3497.0	3473.1
3838.3	22.5°	3989.9	4096.7	4072.8	3916.9	3787.7	3630.4	3490.0	3415.5	3388.8	3372.0
3982.9	25°	4134.6	4225.9	4100.9	3863.5	3665.5	3453.5	3345.3	3321.4	3308.8	3296.2
4159.9	27.5°	4322.8	4371.9	4122.0	3784.9	3474.5	3265.3	3225.9	3230.1	3225.9	3204.9
4405.6	30°	4571.4	4561.5	4141.6	3657.1	3255.4	3095.3	3098.1	3116.4	3119.2	3105.2
4748.3	32.5°	4898.6	4798.9	4151.4	3491.4	3046.2	2946.5	2949.3	2968.9	2983.0	2959.1
5196.3	35°	5294.6	5075.5	4136.0	3283.5	2884.7	2804.6	2783.5	2789.2	2793.4	2770.9
5739.8	37.5°	5756.7	5385.9	4067.2	3053.2	2751.2	2665.6	2620.6	2582.7	2560.2	2539.2
6355.0	40°	6263.7	5724.4	3940.8	2828.5	2602.4	2518.1	2450.7	2379.1	2303.2	2275.1
7006.6	42.5°	6794.5	6072.7	3787.7	2613.6	2431.0	2362.2	2290.6	2186.7	2072.9	2015.3
7683.5	45°	7345.1	6429.4	3637.4	2401.5	2255.5	2226.0	2143.1	2018.1	1894.6	1821.5
8361.9	47.5°	7884.4	6766.5	3416.9	2188.1	2091.2	2123.5	2058.9	1943.7	1806.1	1690.9
9034.6	50°	8399.8	7082.5	3056.0	1971.8	1957.8	2092.6	2030.8	1865.1	1707.8	1560.3
9694.7	52.5°	8911.0	7338.1	2594.0	1775.2	1886.1	2084.1	1994.3	1811.7	1619.3	1464.8
10315.4	55°	9345.0	7470.1	2148.8	1606.6	1782.2	2012.5	1950.7	1748.5	1494.3	1330.0
10740.9	57.5°	9592.1	7363.3	1778.0	1440.9	1638.9	1894.6	1876.3	1613.7	1345.4	1219.0
10823.8	60°	9485.4	6930.8	1474.6	1296.3	1502.7	1766.8	1747.1	1480.3	1231.7	1112.3
10380.0	62.5°	8897.0	6106.4	1234.5	1169.9	1379.1	1636.1	1617.9	1377.7	1144.6	1029.4
9201.7	65°	7711.6	4967.4	1047.7	1064.5	1254.1	1478.8	1505.5	1292.1	1075.8	963.4
7119.0	67.5°	5881.7	3598.1	901.6	973.3	1132.0	1324.4	1401.6	1230.3	1018.2	911.5
4119.1	70°	3352.3	2043.4	778.0	884.8	1023.8	1181.1	1321.6	1181.1	956.4	867.9
1543.4	72.5°	1271.0	938.1	672.7	796.3	919.9	1060.3	1233.1	1103.9	884.8	818.8
797.7	75°	678.3	571.6	566.0	692.4	800.5	942.4	1122.1	1028.0	831.4	865.1
551.9	77.5°	462.1	404.5	473.3	592.7	669.9	811.8	1004.2	912.9	720.5	717.7
382.0	80°	320.2	286.5	384.8	477.5	518.2	682.5	876.4	783.7	587.0	547.7
235.9	82.5°	192.4	186.8	287.9	356.7	366.6	526.7	726.1	657.3	480.3	418.5
140.4	85°	105.3	110.9	184.0	209.3	213.5	368.0	568.8	508.4	369.4	310.4
50.6	87.5°	29.5	37.9	67.4	82.9	102.5	191.0	338.5	301.9	185.4	129.2
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>
3461.9
3716.1
3877.6
3923.9
3898.6
3839.7
3758.2
3620.6
3470.3
3374.8
3296.2
3209.1
3112.2
2970.3
2786.4
2553.2
2287.8
2022.4
1815.9
1678.3
1547.7
1447.9
1315.9
1202.2
1095.4
1011.2
945.2
894.6
856.7
807.5
<i>893.2</i>
661.5
523.8
421.3
313.2
129.2
0.0

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