

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: P942439

Luminaire Tested: **GALN-SB6B-940-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942439  
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-SB6B-940-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

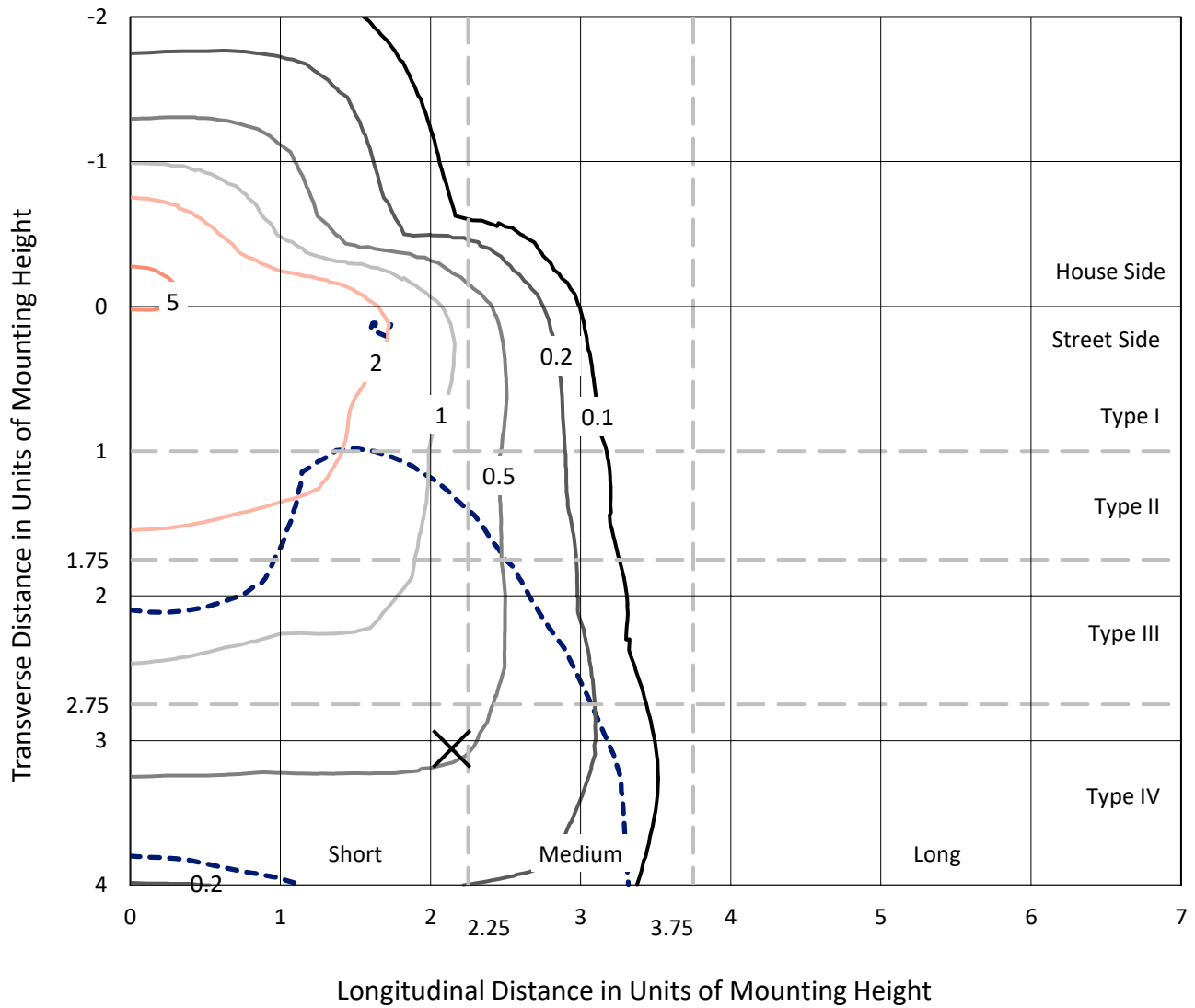
Lumens per Lamp: N/A  
Luminaire Lumens: 24456 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

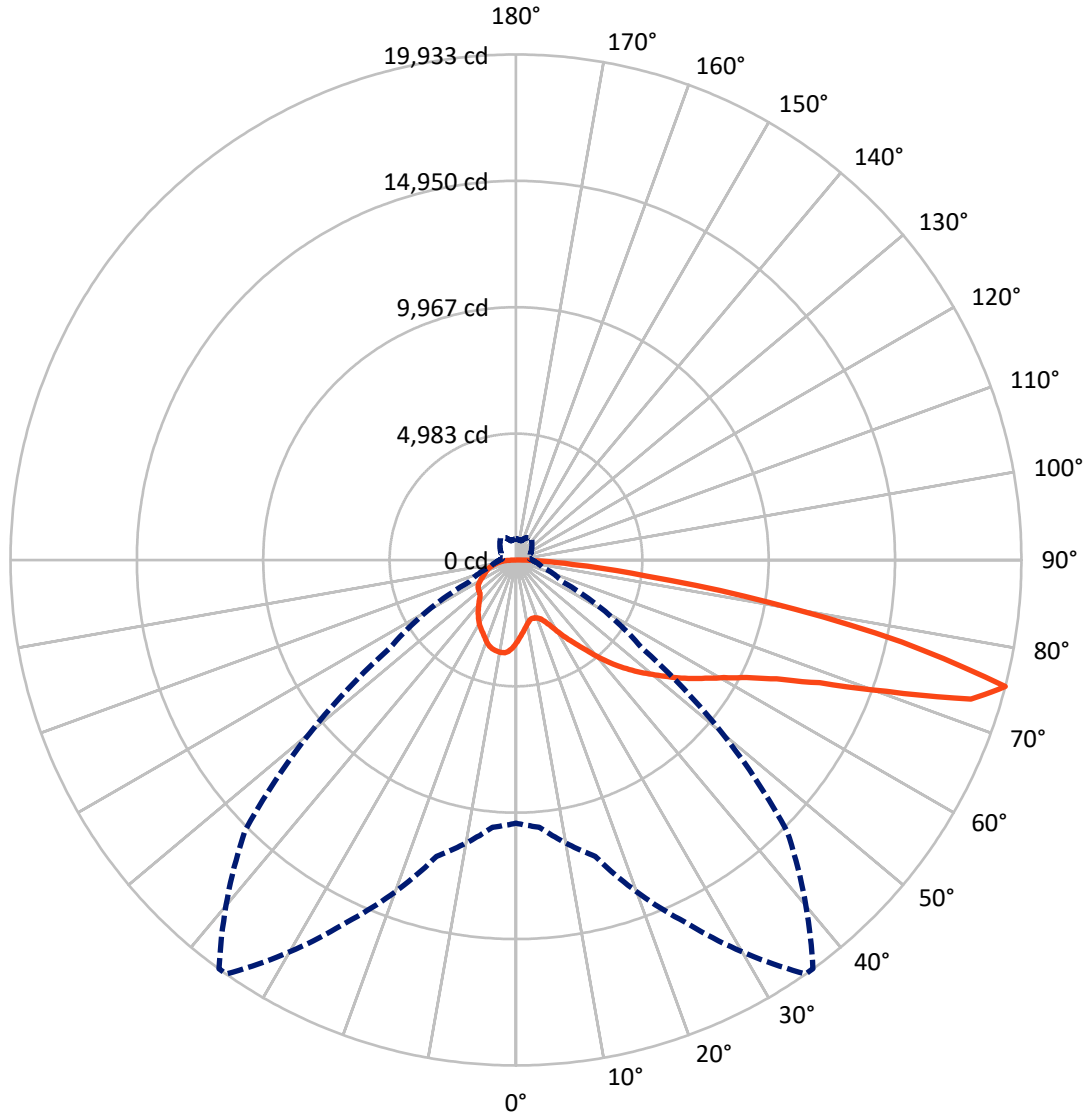
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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
<b>House Side</b>	Lumens	5819.9	0.0	5819.9
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	18636.1	0.0	18636.1
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	24456.0	0.0	24456.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.6	1.3
10°-20°	890.0	3.6
20°-30°	1494.6	6.1
30°-40°	2322.7	9.5
40°-50°	3447.6	14.1
50°-60°	4759.6	19.5
60°-70°	5774.5	23.6
70°-80°	4772.2	19.5
80°-90°	686.4	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°	24456.0	100.0
0°-180°	24456.0	100.0

**Coefficient of Utilization**



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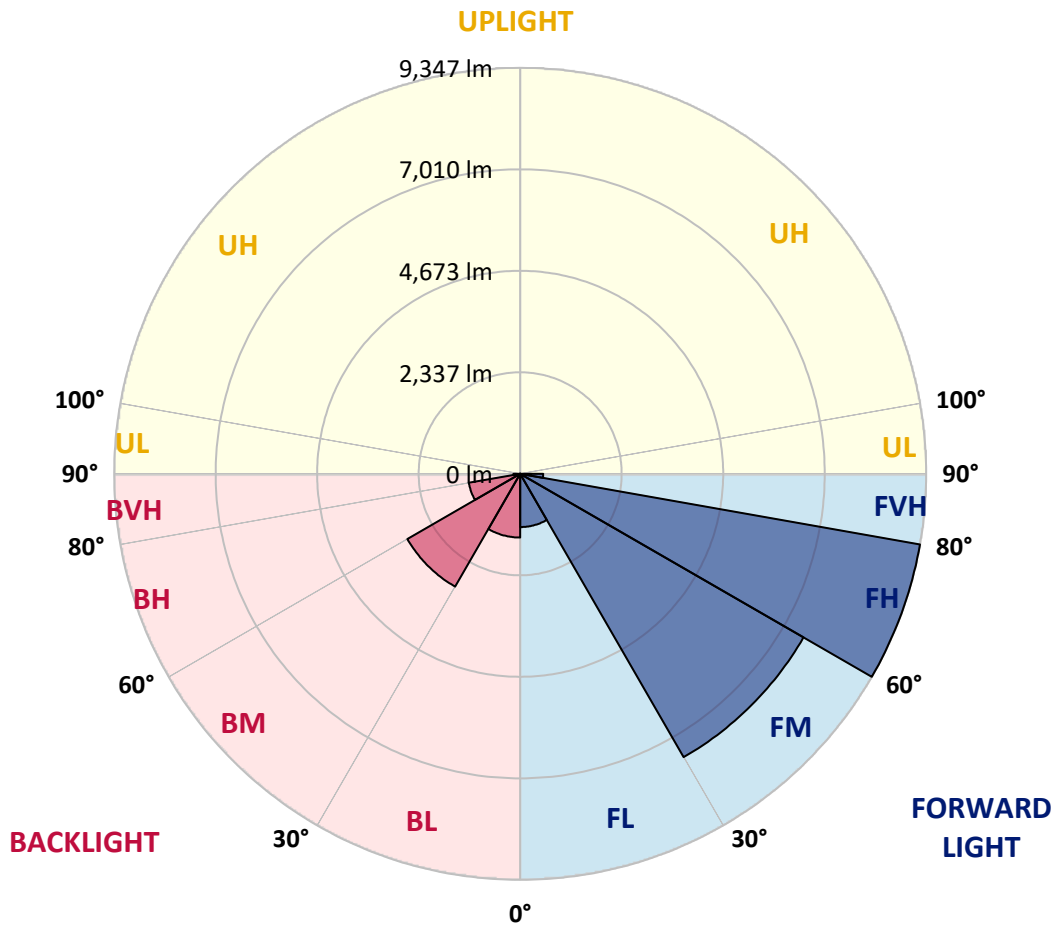
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1226.4	5.0			
FM (30°-60°)	7531.1	30.8			
FH (60°-80°)	9346.7	38.2			G4/12000
FVH (80°-90°)	531.8	2.2			G4/750
BL (0°-30°)	1466.7	6.0	B3/2500		
BM (30°-60°)	2998.8	12.3	B3/5000		
BH (60°-80°)	1199.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	154.6	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°	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9
2.5°	3005.1	3023.6	3031.5	3027.6	3047.4	3044.8	3072.5	3106.9	3154.5	3200.8
5°	2773.7	2793.6	2810.7	2826.6	2864.9	2876.8	2920.5	2986.6	3073.8	3162.4
7.5°	2558.2	2575.4	2601.9	2630.9	2695.7	2707.6	2780.3	2883.5	3005.1	3134.7
10°	2382.4	2399.6	2427.3	2460.4	2541.0	2555.6	2648.1	2785.6	2944.3	3108.2
12.5°	2307.0	2312.3	2328.2	2361.2	2431.3	2440.6	2542.4	2699.7	2884.8	3088.4
15°	2303.1	2313.6	2315.0	2332.1	2390.3	2394.3	2488.2	2644.2	2847.8	3084.4
17.5°	2342.7	2350.7	2338.8	2349.3	2398.3	2404.9	2478.9	2617.7	2835.9	3101.6
20°	2448.5	2455.1	2419.4	2404.9	2440.6	2445.8	2518.6	2634.9	2847.8	3137.3
22.5°	2673.2	2677.2	2590.0	2530.5	2533.1	2535.7	2599.2	2705.0	2894.0	3202.1
25°	3023.6	3021.0	2882.1	2767.1	2701.0	2686.5	2728.8	2818.7	2972.0	3288.0
27.5°	3433.4	3413.6	3274.8	3102.9	2958.8	2937.7	2928.4	2966.7	3083.1	3401.7
30°	3896.2	3877.7	3728.3	3503.5	3303.9	3269.5	3182.2	3162.4	3248.4	3556.4
32.5°	4403.8	4392.0	4213.5	3941.1	3674.1	3634.4	3487.6	3434.8	3502.2	3790.4
35°	4829.6	4819.0	4670.9	4390.6	4064.1	4015.2	3865.8	3806.3	3840.6	4090.5
37.5°	5214.3	5209.0	5082.1	4861.3	4524.2	4464.7	4296.8	4276.9	4270.3	4485.8
40°	5571.2	5558.0	5425.8	5309.5	5059.6	5005.4	4857.3	4840.1	4789.9	4972.3
42.5°	5966.5	5932.2	5740.5	5686.3	5618.8	5573.9	5485.3	5488.0	5376.9	5521.0
45°	6289.1	6269.3	6072.3	6040.6	6113.3	6094.8	6171.5	6191.3	5975.8	6096.1
47.5°	6635.5	6617.0	6450.4	6428.0	6624.9	6630.2	6901.3	6907.9	6560.2	6693.7
50°	7062.6	7036.1	6870.9	6898.6	7119.4	7139.2	7635.0	7590.1	7098.2	7300.5
52.5°	7344.2	7360.0	7324.3	7369.3	7670.7	7689.2	8356.9	8241.8	7631.0	7899.4
55°	7551.7	7583.5	7694.5	7797.6	8252.4	8270.9	9037.7	8861.9	8072.6	8454.7
57.5°	7818.8	7773.8	7981.4	8182.4	8805.1	8854.0	9700.1	9459.5	8464.0	8933.3
60°	8202.2	8170.5	8331.7	8629.2	9423.8	9501.8	10400.8	9997.6	8750.8	9312.7
62.5°	8979.6	8900.2	8925.4	9188.5	10203.8	10306.9	11191.4	10466.9	8893.6	9460.8
65°	10141.7	10005.5	9878.6	10061.0	11302.5	11404.3	12083.8	10835.8	8840.7	9173.9
67.5°	11605.2	11470.4	11314.4	11486.2	12920.7	13001.3	13185.1	11043.3	8424.3	8068.7
70°	12812.3	12762.0	12948.5	13655.8	15505.4	15508.0	14597.1	10871.5	7283.3	5720.6
72.5°	12652.3	12621.9	13604.2	15790.9	18763.0	18692.9	15933.7	9570.5	4906.2	2580.7
75°	10379.7	10576.6	12098.4	15752.6	19933.0	19923.7	15115.3	6084.2	2029.4	1069.6
77.5°	5566.0	5878.0	7854.5	11630.3	15560.9	15794.9	10626.9	2128.5	871.3	684.8
80°	1815.2	2087.6	3130.7	5921.6	10111.3	10067.6	4554.6	835.6	596.3	485.2
82.5°	770.8	802.5	1398.8	2796.2	5189.2	5108.5	1450.3	479.9	419.1	331.8
85°	301.4	337.1	617.4	1293.0	2247.5	2198.6	523.5	238.0	268.4	216.8
87.5°	99.2	120.3	220.8	442.9	699.4	674.3	128.2	82.0	116.3	99.2
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°
3258.9	0°	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9	3258.9
3268.2	2.5°	3286.7	3307.8	3333.0	3370.0	3401.7	3428.2	3455.9	3473.1	3479.7	3499.5
3273.5	5°	3310.5	3356.8	3418.9	3479.7	3539.2	3574.9	3606.6	3622.5	3637.0	3647.6
3288.0	7.5°	3350.2	3409.6	3507.5	3586.8	3637.0	3666.1	3687.3	3682.0	3687.3	3689.9
3303.9	10°	3384.5	3467.8	3584.2	3659.5	3697.9	3699.2	3693.9	3675.4	3666.1	3667.5
3327.7	12.5°	3425.5	3518.1	3643.7	3707.1	3717.7	3688.6	3666.1	3634.4	3622.5	3617.2
3363.4	15°	3481.0	3586.8	3708.4	3732.2	3705.8	3668.8	3630.4	3578.9	3552.4	3531.3
3424.2	17.5°	3548.5	3664.8	3758.7	3741.5	3684.6	3623.8	3561.7	3483.7	3429.5	3407.0
3507.5	20°	3642.3	3746.8	3797.0	3721.7	3635.7	3543.2	3437.4	3342.2	3292.0	3269.5
3613.2	22.5°	3756.0	3856.5	3834.0	3687.3	3565.7	3417.6	3285.4	3215.3	3190.2	3174.3
3749.4	25°	3892.2	3978.1	3860.5	3637.0	3450.6	3251.0	3149.2	3126.7	3114.8	3102.9
3916.0	27.5°	4069.4	4115.6	3880.3	3563.0	3270.8	3073.8	3036.8	3040.8	3036.8	3017.0
4147.4	30°	4303.4	4294.1	3898.8	3442.7	3064.6	2913.9	2916.5	2933.7	2936.3	2923.1
4470.0	32.5°	4611.4	4517.5	3908.1	3286.7	2867.6	2773.7	2776.4	2794.9	2808.1	2785.6
4891.7	35°	4984.2	4778.0	3893.5	3091.0	2715.6	2640.2	2620.4	2625.7	2629.6	2608.5
5403.3	37.5°	5419.2	5070.2	3828.7	2874.2	2590.0	2509.3	2467.0	2431.3	2410.2	2390.3
5982.4	40°	5896.5	5388.8	3709.8	2662.7	2449.8	2370.5	2307.0	2239.6	2168.2	2141.8
6595.9	42.5°	6396.2	5716.7	3565.7	2460.4	2288.5	2223.7	2156.3	2058.5	1951.4	1897.2
7233.1	45°	6914.5	6052.5	3424.2	2260.8	2123.3	2095.5	2017.5	1899.8	1783.5	1714.7
7871.7	47.5°	7422.2	6369.8	3216.6	2059.8	1968.6	1999.0	1938.2	1829.8	1700.2	1591.8
8504.9	50°	7907.4	6667.2	2876.8	1856.2	1843.0	1969.9	1911.7	1755.7	1607.6	1468.8
9126.3	52.5°	8388.6	6907.9	2441.9	1671.1	1775.6	1962.0	1877.4	1705.5	1524.4	1378.9
9710.7	55°	8797.1	7032.1	2022.8	1512.5	1677.7	1894.5	1836.4	1646.0	1406.7	1252.0
10111.3	57.5°	9029.8	6931.7	1673.8	1356.5	1542.9	1783.5	1766.3	1519.1	1266.6	1147.6
10189.3	60°	8929.3	6524.5	1388.2	1220.3	1414.6	1663.2	1644.7	1393.5	1159.5	1047.1
9771.5	62.5°	8375.4	5748.4	1162.1	1101.3	1298.3	1540.2	1523.0	1297.0	1077.5	969.1
8662.3	65°	7259.5	4676.2	986.3	1002.1	1180.6	1392.2	1417.3	1216.3	1012.7	906.9
6701.6	67.5°	5536.9	3387.2	848.8	916.2	1065.6	1246.7	1319.4	1158.1	958.5	858.0
3877.7	70°	3155.8	1923.6	732.4	832.9	963.8	1111.9	1244.1	1111.9	900.3	817.0
1453.0	72.5°	1196.5	883.1	633.3	749.6	866.0	998.2	1160.8	1039.2	832.9	770.8
750.9	75°	638.6	538.1	532.8	651.8	753.6	887.1	1056.3	967.8	782.7	814.4
519.6	77.5°	435.0	380.8	445.5	557.9	630.6	764.2	945.3	859.4	678.2	675.6
359.6	80°	301.4	269.7	362.2	449.5	487.8	642.5	825.0	737.7	552.6	515.6
222.1	82.5°	181.1	175.8	271.0	335.8	345.1	495.8	683.5	618.7	452.2	394.0
132.2	85°	99.2	104.4	173.2	197.0	201.0	346.4	535.4	478.6	347.7	292.2
47.6	87.5°	27.8	35.7	63.5	78.0	96.5	179.8	318.6	284.2	174.5	121.6
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

180°  
3258.9  
3498.2  
3650.3  
3693.9  
3670.1  
3614.6  
3537.9  
3408.3  
3266.9  
3177.0  
3102.9  
3021.0  
2929.7  
2796.2  
2623.0  
2403.5  
2153.7  
1903.8  
1709.4  
1579.9  
1456.9  
1363.1  
1238.8  
1131.7  
1031.2  
951.9  
889.8  
842.2  
806.5  
760.2  
*840.8*  
622.7  
493.1  
396.6  
294.8  
121.6  
0.0

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