

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: P943119

Luminaire Tested: **GALN-SB7B-940-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943119  
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-SB7B-940-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

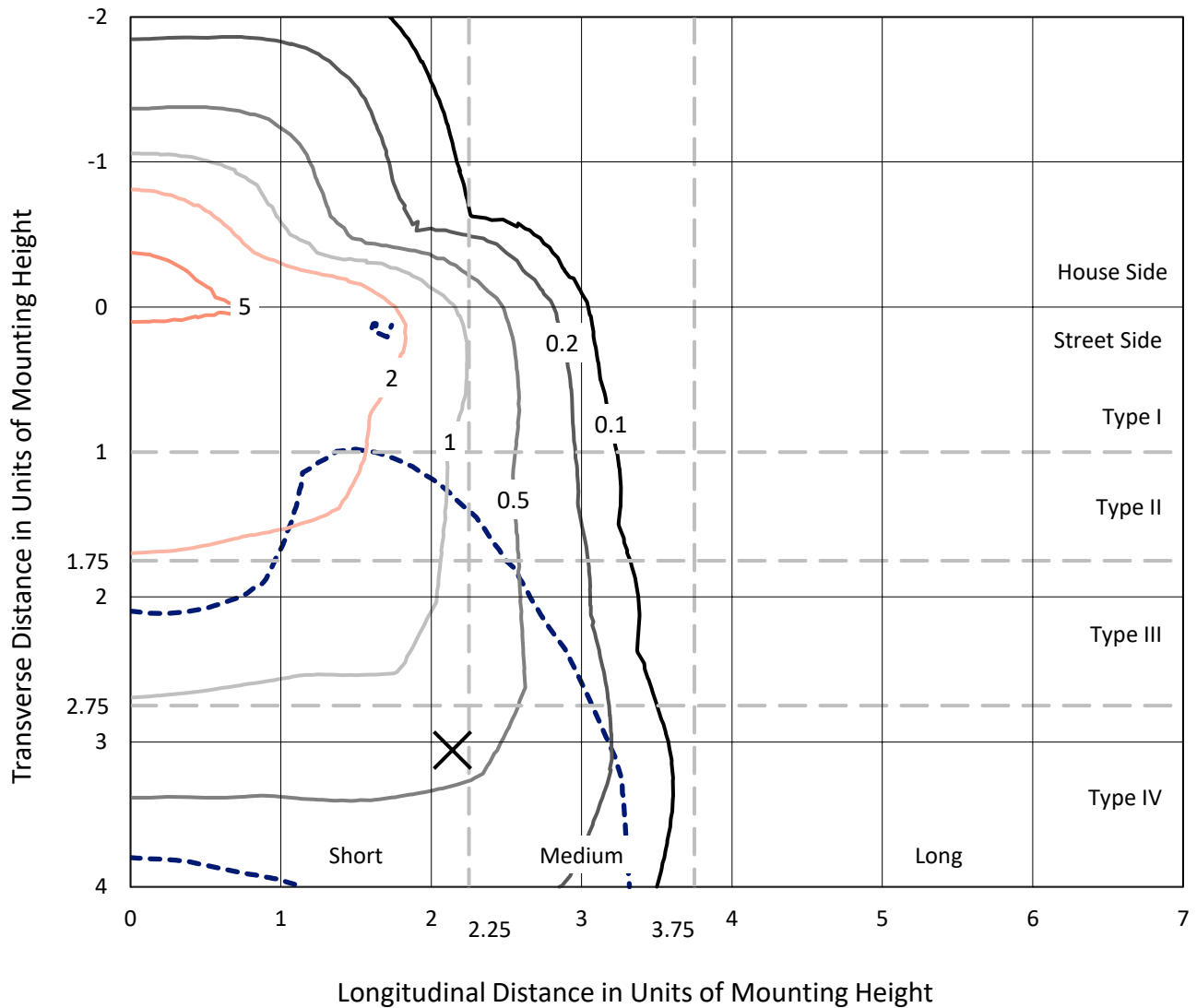
Lumens per Lamp: N/A  
Luminaire Lumens: 28682 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

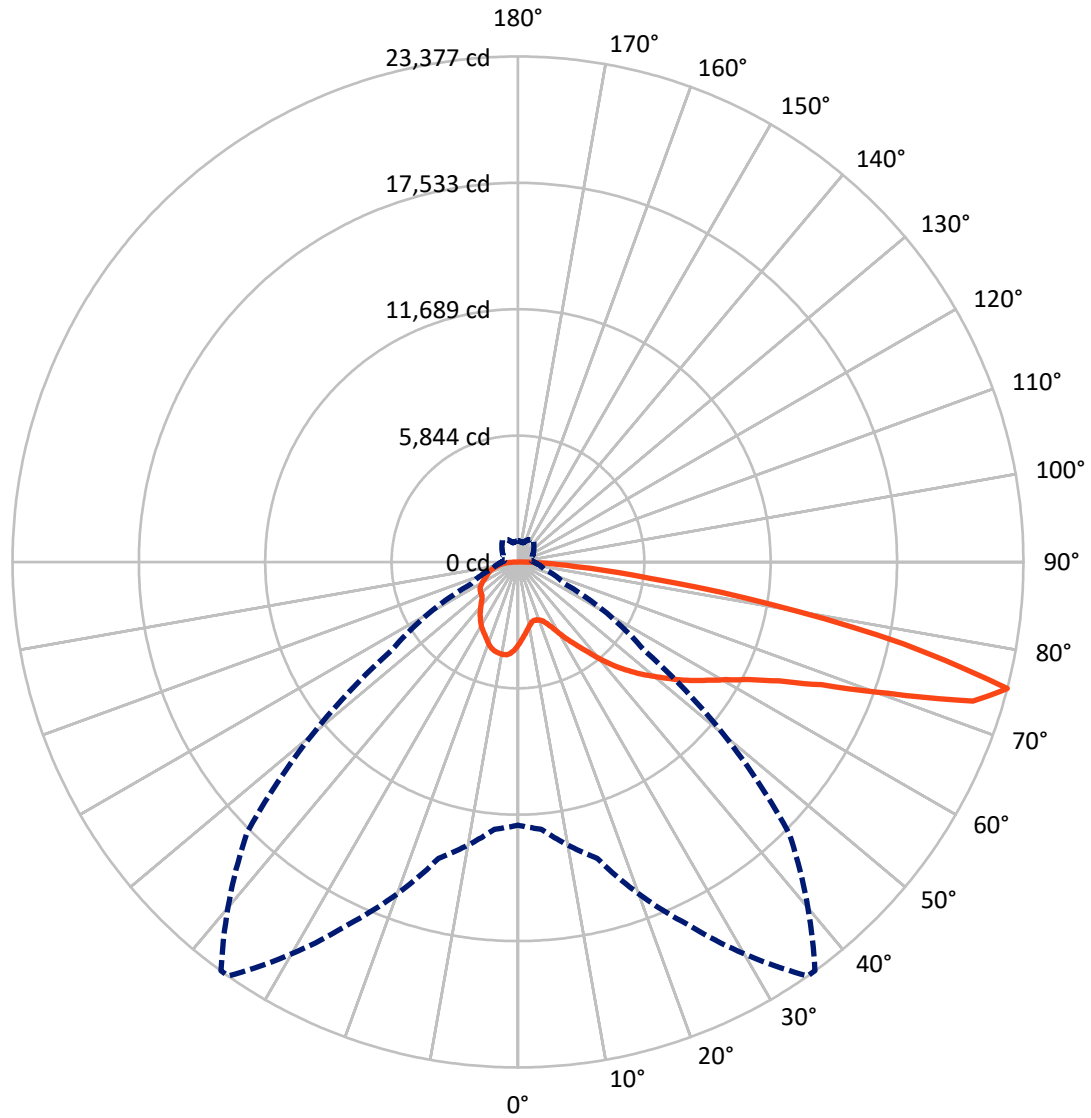
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	6825.6	0.0	6825.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	21856.4	0.0	21856.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	28682.0	0.0	28682.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.9	1.3
10°-20°	1043.8	3.6
20°-30°	1752.8	6.1
30°-40°	2724.1	9.5
40°-50°	4043.3	14.1
50°-60°	5582.0	19.5
60°-70°	6772.3	23.6
70°-80°	5596.8	19.5
80°-90°	805.0	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°	28682.0	100.0
0°-180°	28682.0	100.0

**Coefficient of Utilization**



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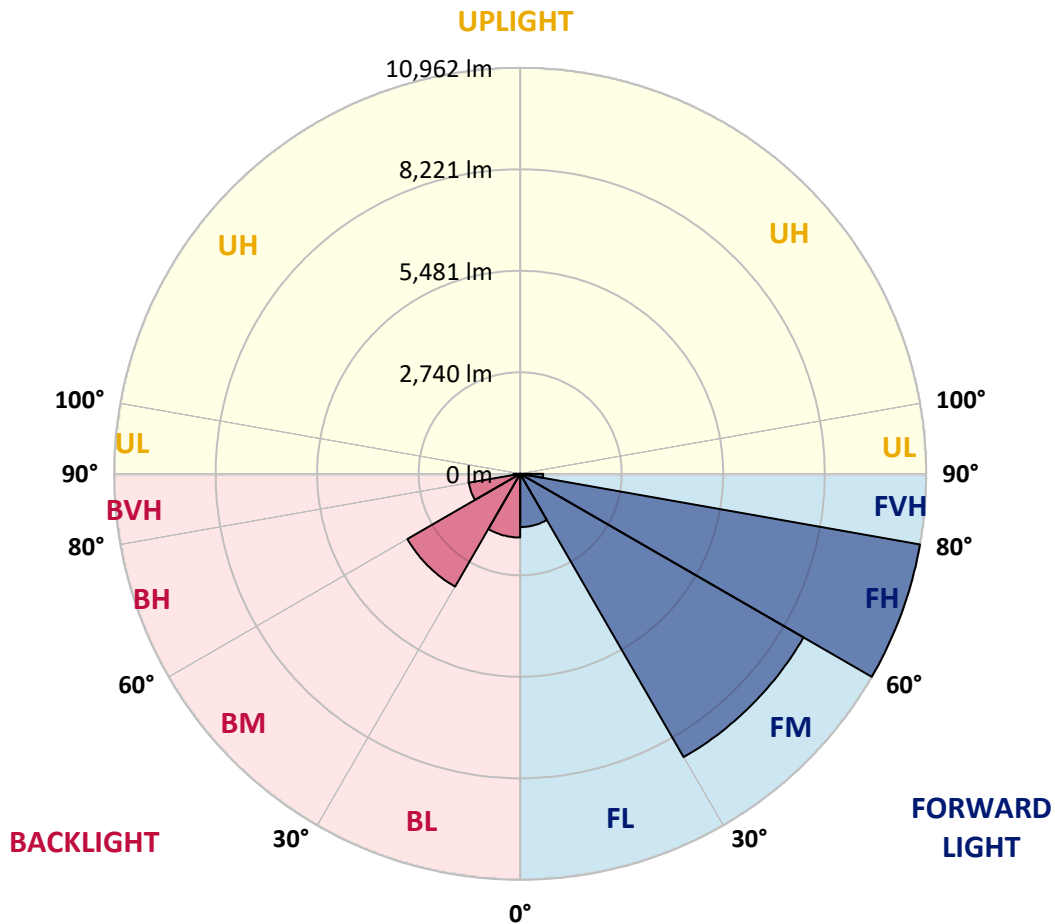
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1438.3	5.0			
FM (30°-60°)	8832.5	30.8			
FH (60°-80°)	10961.8	38.2			G4/12000
FVH (80°-90°)	623.7	2.2			G4/750
BL (0°-30°)	1720.1	6.0	B3/2500		
BM (30°-60°)	3517.0	12.3	B3/5000		
BH (60°-80°)	1407.2	4.9	B3/2500		G3/2500
BVH (80°-90°)	181.3	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°	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1
2.5°	3524.4	3546.1	3555.4	3550.7	3574.0	3570.9	3603.4	3643.8	3699.6	3753.8
5°	3253.0	3276.3	3296.4	3315.0	3360.0	3374.0	3425.1	3502.7	3605.0	3708.9
7.5°	3000.3	3020.4	3051.5	3085.6	3161.5	3175.5	3260.8	3381.7	3524.4	3676.3
10°	2794.1	2814.2	2846.8	2885.5	2980.1	2997.2	3105.7	3267.0	3453.0	3645.3
12.5°	2705.7	2711.9	2730.5	2769.3	2851.4	2862.3	2981.7	3166.2	3383.3	3622.1
15°	2701.0	2713.4	2715.0	2735.1	2803.4	2808.0	2918.1	3101.1	3339.9	3617.4
17.5°	2747.5	2756.9	2742.9	2755.3	2812.7	2820.4	2907.3	3070.1	3325.9	3637.6
20°	2871.6	2879.3	2837.5	2820.4	2862.3	2868.5	2953.8	3090.2	3339.9	3679.4
22.5°	3135.2	3139.8	3037.5	2967.7	2970.8	2973.9	3048.4	3172.4	3394.1	3755.4
25°	3546.1	3543.0	3380.2	3245.3	3167.7	3150.7	3200.3	3305.7	3485.6	3856.2
27.5°	4026.7	4003.5	3840.7	3639.1	3470.1	3445.3	3434.4	3479.4	3615.8	3989.5
30°	4569.4	4547.7	4372.5	4108.9	3874.8	3834.5	3732.1	3708.9	3809.7	4170.9
32.5°	5164.8	5150.9	4941.6	4622.1	4308.9	4262.4	4090.3	4028.3	4107.4	4445.4
35°	5664.1	5651.7	5478.0	5149.3	4766.3	4709.0	4533.8	4464.0	4504.3	4797.4
37.5°	6115.3	6109.1	5960.3	5701.3	5305.9	5236.2	5039.2	5016.0	5008.2	5261.0
40°	6534.0	6518.5	6363.4	6227.0	5933.9	5870.3	5696.7	5676.5	5617.6	5831.6
42.5°	6997.6	6957.3	6732.4	6668.9	6589.8	6537.1	6433.2	6436.3	6306.0	6475.0
45°	7375.9	7352.6	7121.6	7084.4	7169.7	7148.0	7237.9	7261.2	7008.4	7149.5
47.5°	7782.1	7760.4	7565.1	7538.7	7769.7	7775.9	8093.8	8101.5	7693.8	7850.4
50°	8283.0	8252.0	8058.1	8090.7	8349.6	8372.9	8954.3	8901.6	8324.8	8562.1
52.5°	8613.2	8631.8	8590.0	8642.7	8996.2	9017.9	9800.9	9666.0	8949.7	9264.5
55°	8856.7	8893.9	9024.1	9145.1	9678.4	9700.2	10599.5	10393.2	9467.6	9915.7
57.5°	9169.9	9117.1	9360.6	9596.3	10326.6	10383.9	11376.3	11094.1	9926.5	10477.0
60°	9619.5	9582.3	9771.5	10120.3	11052.2	11143.7	12198.1	11725.2	10263.0	10922.0
62.5°	10531.2	10438.2	10467.7	10776.2	11967.0	12088.0	13125.3	12275.6	10430.5	11095.6
65°	11894.2	11734.5	11585.6	11799.6	13255.5	13374.9	14171.9	12708.2	10368.4	10759.2
67.5°	13610.6	13452.4	13269.5	13471.1	15153.4	15248.0	15463.5	12951.6	9880.0	9462.9
70°	15026.2	14967.3	15185.9	16015.5	18184.7	18187.8	17119.5	12750.1	8541.9	6709.2
72.5°	14838.6	14803.0	15955.0	18519.6	22005.2	21923.0	18687.1	11224.3	5754.0	3026.6
75°	12173.3	12404.3	14189.0	18474.6	23377.4	23366.6	17727.3	7135.6	2380.1	1254.4
77.5°	6527.8	6893.7	9211.7	13640.1	18249.8	18524.3	12463.2	2496.4	1021.8	803.2
80°	2128.9	2448.3	3671.7	6944.8	11858.5	11807.3	5341.6	979.9	699.3	569.0
82.5°	904.0	941.2	1640.5	3279.4	6085.9	5991.3	1700.9	562.8	491.5	389.2
85°	353.5	395.4	724.1	1516.4	2635.9	2578.5	614.0	279.1	314.8	254.3
87.5°	116.3	141.1	258.9	519.4	820.2	790.8	150.4	96.1	136.4	116.3
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°
3822.1	0°	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1
3832.9	2.5°	3854.6	3879.4	3908.9	3952.3	3989.5	4020.5	4053.1	4073.3	4081.0	4104.3
3839.1	5°	3882.5	3936.8	4009.7	4081.0	4150.8	4192.6	4229.9	4248.5	4265.5	4277.9
3856.2	7.5°	3929.1	3998.8	4113.6	4206.6	4265.5	4299.6	4324.4	4318.2	4324.4	4327.5
3874.8	10°	3969.4	4067.1	4203.5	4291.9	4336.8	4338.4	4332.2	4310.5	4299.6	4301.2
3902.7	12.5°	4017.4	4126.0	4273.3	4347.7	4360.1	4326.0	4299.6	4262.4	4248.5	4242.3
3944.6	15°	4082.6	4206.6	4349.3	4377.2	4346.2	4302.7	4257.8	4197.3	4166.3	4141.5
4015.9	17.5°	4161.6	4298.1	4408.2	4388.0	4321.3	4250.0	4177.1	4085.7	4022.1	3995.7
4113.6	20°	4271.7	4394.2	4453.1	4364.8	4264.0	4155.4	4031.4	3919.8	3860.8	3834.5
4237.6	22.5°	4405.1	4522.9	4496.6	4324.4	4181.8	4008.1	3853.1	3770.9	3741.4	3722.8
4397.3	25°	4564.8	4665.6	4527.6	4265.5	4046.9	3812.8	3693.4	3667.0	3653.1	3639.1
4592.7	27.5°	4772.5	4826.8	4550.8	4178.7	3836.0	3605.0	3561.6	3566.2	3561.6	3538.3
4864.0	30°	5047.0	5036.1	4572.5	4037.6	3594.1	3417.4	3420.5	3440.6	3443.7	3428.2
5242.4	32.5°	5408.3	5298.2	4583.4	3854.6	3363.1	3253.0	3256.1	3277.8	3293.3	3267.0
5737.0	35°	5845.5	5603.6	4566.3	3625.2	3184.8	3096.4	3073.2	3079.4	3084.0	3059.2
6337.0	37.5°	6355.6	5946.3	4490.4	3370.9	3037.5	2942.9	2893.3	2851.4	2826.6	2803.4
7016.2	40°	6915.4	6320.0	4350.8	3122.8	2873.1	2780.1	2705.7	2626.6	2542.9	2511.9
7735.6	42.5°	7501.5	6704.5	4181.8	2885.5	2684.0	2608.0	2528.9	2414.2	2288.6	2225.0
8483.0	45°	8109.3	7098.4	4015.9	2651.4	2490.2	2457.6	2366.1	2228.1	2091.7	2011.0
9231.9	47.5°	8704.7	7470.5	3772.5	2415.7	2308.7	2344.4	2273.1	2145.9	1994.0	1866.8
9974.6	50°	9273.8	7819.4	3374.0	2177.0	2161.4	2310.3	2242.1	2059.1	1885.5	1722.6
10703.3	52.5°	9838.1	8101.5	2863.8	1959.9	2082.4	2301.0	2201.8	2000.2	1787.8	1617.2
11388.7	55°	10317.3	8247.3	2372.3	1773.8	1967.6	2221.9	2153.7	1930.4	1649.8	1468.4
11858.5	57.5°	10590.2	8129.5	1963.0	1590.8	1809.5	2091.7	2071.5	1781.6	1485.4	1345.9
11950.0	60°	10472.3	7651.9	1628.1	1431.1	1659.1	1950.6	1928.9	1634.3	1359.8	1228.0
11460.0	62.5°	9822.6	6741.7	1362.9	1291.6	1522.6	1806.4	1786.2	1521.1	1263.7	1136.5
10159.1	65°	8514.0	5484.2	1156.7	1175.3	1384.6	1632.7	1662.2	1426.5	1187.7	1063.7
7859.7	67.5°	6493.6	3972.5	995.4	1074.5	1249.7	1462.2	1547.4	1358.3	1124.1	1006.3
4547.7	70°	3701.1	2256.0	859.0	976.8	1130.3	1304.0	1459.1	1304.0	1055.9	958.2
1704.0	72.5°	1403.2	1035.8	742.7	879.2	1015.6	1170.7	1361.4	1218.7	976.8	904.0
880.7	75°	748.9	631.1	624.9	764.4	883.8	1040.4	1238.9	1135.0	917.9	955.1
609.4	77.5°	510.1	446.6	522.5	654.3	739.6	896.2	1108.6	1007.8	795.4	792.3
421.7	80°	353.5	316.3	424.8	527.2	572.1	753.6	967.5	865.2	648.1	604.7
260.5	82.5°	212.4	206.2	317.9	393.8	404.7	581.5	801.6	725.7	530.3	462.1
155.1	85°	116.3	122.5	203.1	231.0	235.7	406.2	628.0	561.3	407.8	342.7
55.8	87.5°	32.6	41.9	74.4	91.5	113.2	210.9	373.7	333.4	204.7	142.6
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>
3822.1
4102.7
4281.0
4332.2
4304.3
4239.2
4149.2
3997.3
3831.4
3725.9
3639.1
3543.0
3436.0
3279.4
3076.3
2818.9
2525.8
2232.8
2004.8
1852.9
1708.7
1598.6
1452.9
1327.3
1209.4
1116.4
1043.5
987.7
945.8
891.6
<i>986.1</i>
730.3
578.3
465.2
345.8
142.6
0.0

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