

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: P953645

Luminaire Tested: **GALN-SB7A-850-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953645  
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-SB7A-850-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

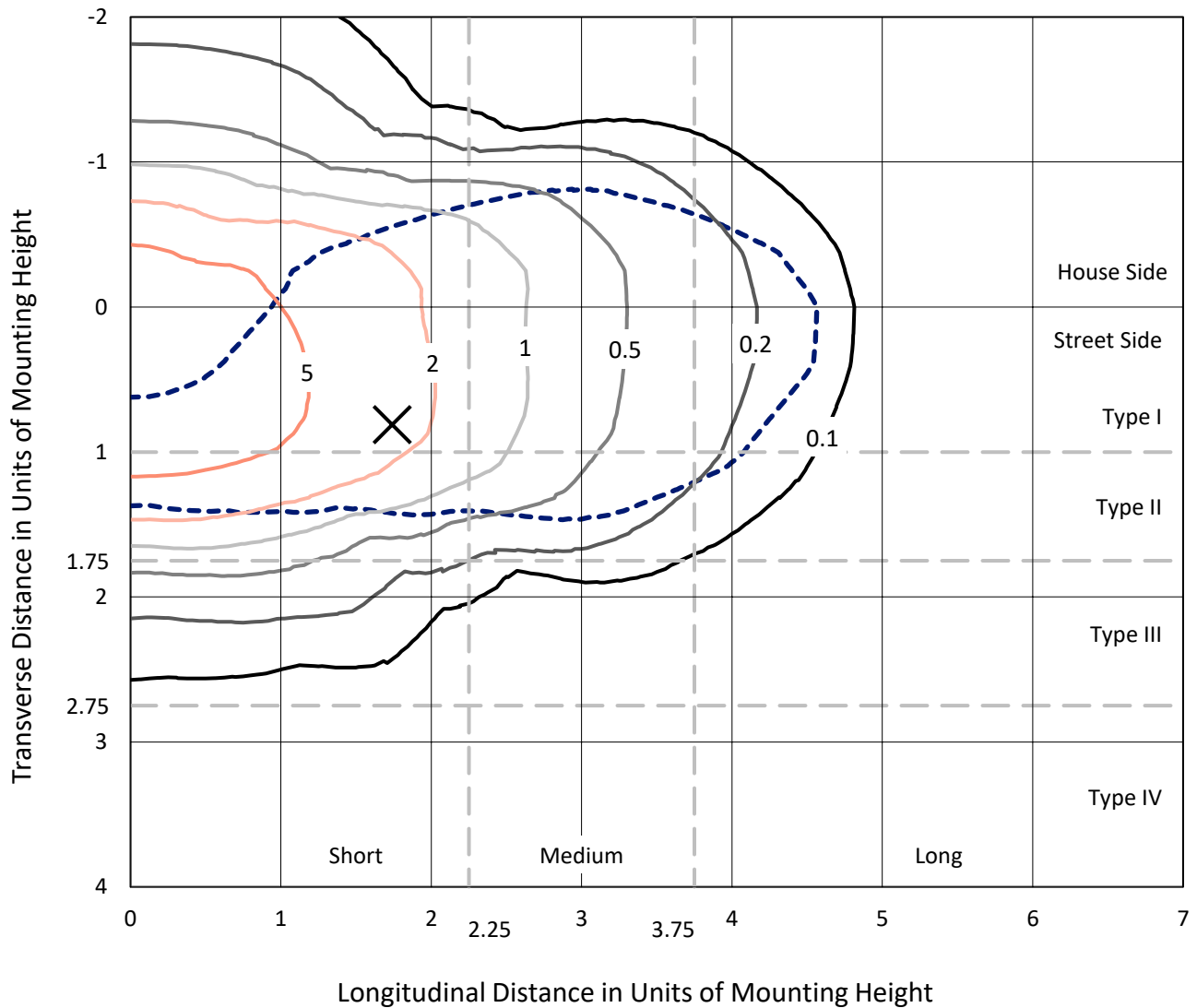
Lumens per Lamp: N/A  
Luminaire Lumens: 30923 lumens  
Efficiency: N/A  
Efficacy: 155.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

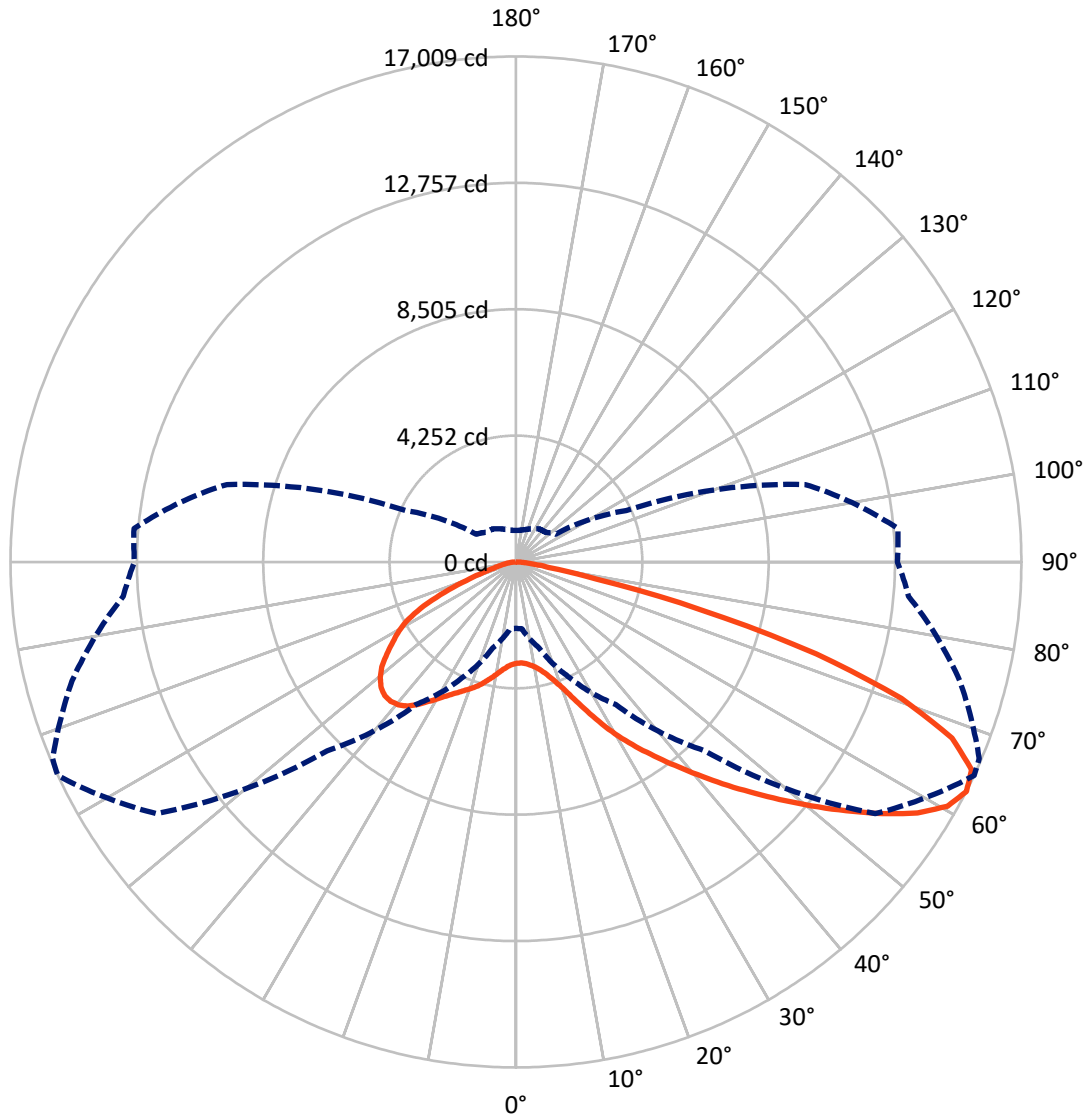
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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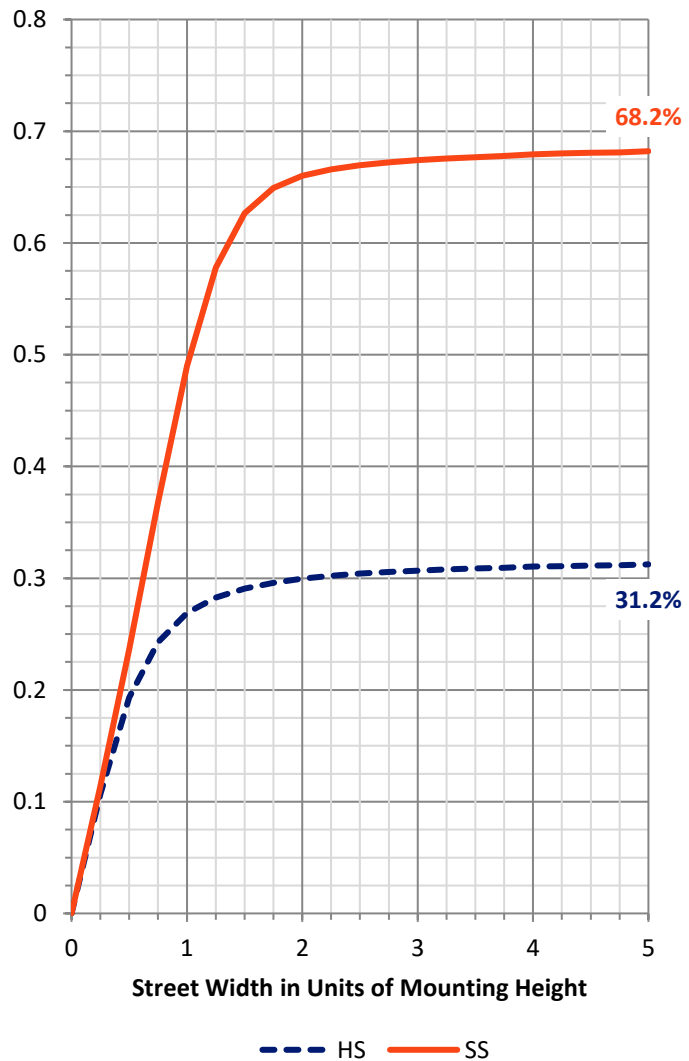
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9757.9	0.0	9757.9
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	21165.1	0.0	21165.1
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	30923.0	0.0	30923.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.7	1.1
10°-20°	1152.1	3.7
20°-30°	2335.9	7.6
30°-40°	4042.3	13.1
40°-50°	6117.2	19.8
50°-60°	7172.1	23.2
60°-70°	6012.9	19.4
70°-80°	3319.6	10.7
80°-90°	431.2	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°	30923.0	100.0
0°-180°	30923.0	100.0

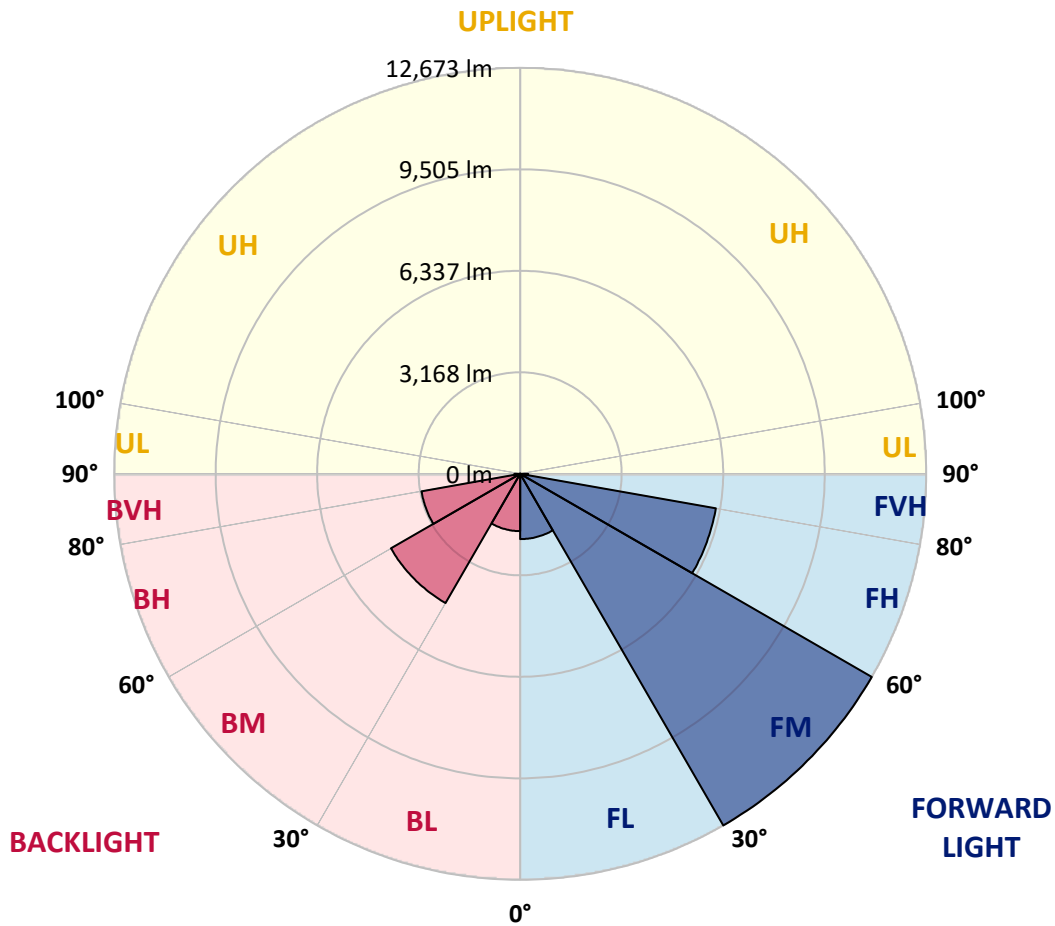


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2038.2	6.6			
FM	(30°-60°)	12673.2	41.0			
FH	(60°-80°)	6202.2	20.1			G3/7500
FVH	(80°-90°)	251.3	0.8			G3/500
BL	(0°-30°)	1789.5	5.8	B3/2500		
BM	(30°-60°)	4658.3	15.1	B3/5000		
BH	(60°-80°)	3130.3	10.1	B4/5000		G4/5000
BVH	(80°-90°)	179.9	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3407.6	3407.6	3407.6	3407.6	3407.6	3407.6	3407.6	3407.6	3407.6	3407.6
2.5°	3385.1	3375.5	3383.5	3383.5	3386.7	3385.1	3396.4	3399.6	3404.4	3414.0
5°	3351.4	3349.8	3364.3	3377.1	3389.9	3401.2	3415.6	3436.5	3439.7	3450.9
7.5°	3340.2	3330.6	3353.0	3369.1	3399.6	3426.8	3465.3	3500.6	3515.1	3519.9
10°	3426.8	3410.8	3431.6	3441.3	3466.9	3494.2	3539.1	3595.3	3611.3	3630.6
12.5°	3574.4	3556.8	3587.3	3601.7	3625.8	3649.8	3680.3	3734.9	3742.9	3778.2
15°	3776.6	3755.7	3775.0	3792.6	3832.7	3855.2	3885.7	3938.6	3938.6	3965.9
17.5°	4050.9	4023.6	4038.1	4044.5	4070.2	4103.9	4155.2	4201.7	4225.8	4216.2
20°	4460.0	4426.3	4426.3	4394.2	4384.6	4411.9	4479.3	4543.4	4569.1	4519.4
22.5°	5074.5	5026.3	4999.1	4890.0	4846.7	4849.9	4917.2	4995.9	5016.7	4928.5
25°	5855.8	5780.4	5743.5	5583.0	5485.2	5400.1	5453.1	5554.2	5583.0	5473.9
27.5°	6637.1	6641.9	6606.6	6414.1	6252.0	6096.4	6069.2	6175.0	6205.5	6082.0
30°	7732.8	7618.9	7551.5	7320.5	7089.5	6871.3	6759.0	6802.3	6810.3	6662.8
32.5°	8677.8	8648.9	8504.5	8302.4	8005.6	7663.8	7476.1	7407.2	7394.3	7184.2
35°	9754.3	9738.2	9585.8	9345.2	9024.3	8549.4	8210.9	8013.6	7997.5	7702.4
37.5°	10848.4	10848.4	10699.2	10436.1	10104.0	9510.4	8995.4	8682.6	8631.3	8246.2
40°	11721.2	11668.2	11695.5	11584.8	11204.6	10574.1	9866.6	9412.6	9343.6	8881.5
42.5°	12216.9	12199.3	12362.9	12486.4	12330.8	11827.1	10826.0	10203.5	10107.2	9581.0
45°	12327.6	12308.4	12600.3	13052.8	13271.0	13064.0	11868.8	11036.1	10919.0	10312.6
47.5°	12072.5	12034.0	12462.4	13176.3	13875.8	14240.0	12998.2	11939.4	11769.3	11024.9
50°	11305.7	11268.8	11916.9	12865.1	14079.5	15038.9	14223.9	12897.1	12637.2	11788.6
52.5°	9638.8	9656.4	10672.0	11974.7	13811.6	15536.3	15279.6	13906.3	13593.4	12569.9
55°	7508.2	7546.7	8794.9	10229.2	12739.9	15460.9	15999.9	14945.9	14634.6	13304.6
57.5°	5376.1	5546.1	6715.7	8135.5	10681.6	14265.6	16157.1	15934.1	15632.5	14106.8
60°	3484.6	3515.1	4718.3	6149.4	8133.9	12141.5	15837.9	16683.3	16447.5	14925.0
62.5°	2233.2	2254.1	2987.2	4301.2	5854.2	8982.6	14763.0	17009.0	16936.8	15465.7
65°	1641.2	1625.2	2007.0	2842.9	3943.4	5539.7	12675.8	16851.8	16994.6	15804.2
67.5°	1370.1	1347.6	1535.3	1968.5	2905.4	3146.1	9378.9	15829.8	16352.9	15765.7
70°	1248.2	1228.9	1342.8	1461.5	2266.9	2106.5	4727.9	13761.9	14567.2	15327.7
72.5°	1057.2	1023.6	1179.2	1297.9	1763.2	1615.6	1954.1	10570.9	11552.7	13923.9
75°	819.8	797.3	930.5	1142.3	1325.2	1261.0	1235.3	6418.9	7490.6	10768.2
77.5°	649.8	619.3	741.2	890.4	1192.0	951.4	900.0	2764.2	3826.3	6874.5
80°	489.3	462.0	563.1	704.3	916.1	717.1	582.4	1127.8	1442.3	3483.0
82.5°	348.1	324.1	393.1	516.6	616.1	643.3	357.8	632.1	710.7	1342.8
85°	223.0	208.6	263.1	324.1	391.5	413.9	218.2	330.5	362.6	553.5
87.5°	121.9	99.5	141.2	150.8	181.3	165.2	104.3	120.3	130.0	200.5
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°
3407.6	0°	3407.6	3407.6	3407.6	3407.6	3407.6	3407.6	3407.6	3407.6	3407.6	3407.6
3414.0	2.5°	3420.4	3425.2	3441.3	3446.1	3457.3	3471.8	3481.4	3491.0	3491.0	3500.6
3465.3	5°	3466.9	3478.2	3511.9	3529.5	3558.4	3587.3	3604.9	3625.8	3638.6	3645.0
3547.2	7.5°	3556.8	3574.4	3622.6	3653.0	3702.8	3742.9	3770.2	3799.0	3805.5	3823.1
3661.1	10°	3678.7	3699.6	3754.1	3811.9	3871.2	3921.0	3946.6	3967.5	3975.5	3978.7
3807.1	12.5°	3818.3	3848.8	3919.4	3989.9	4052.5	4095.8	4102.3	4097.4	4075.0	4055.7
3986.7	15°	3989.9	4017.2	4095.8	4172.8	4233.8	4241.8	4201.7	4176.1	4148.8	4144.0
4187.3	17.5°	4195.3	4209.7	4281.9	4357.3	4362.2	4334.9	4275.5	4251.5	4225.8	4208.1
4448.8	20°	4434.3	4429.5	4480.9	4513.0	4479.3	4395.8	4306.0	4265.9	4240.2	4219.4
4769.7	22.5°	4719.9	4683.0	4676.6	4668.6	4578.7	4403.9	4281.9	4230.6	4190.5	4161.6
5217.3	25°	5135.4	4994.3	4896.4	4841.8	4639.7	4360.5	4204.9	4091.0	4015.6	3965.9
5764.3	27.5°	5655.2	5417.8	5170.7	5037.6	4639.7	4272.3	4018.8	3834.3	3710.8	3659.5
6293.8	30°	6151.0	5902.3	5538.1	5273.4	4628.5	4127.9	3718.8	3462.1	3317.7	3266.4
6746.2	32.5°	6574.5	6303.4	5928.0	5531.7	4601.2	3893.7	3346.6	3062.7	2923.1	2862.1
7193.8	35°	6967.6	6678.8	6319.4	5815.7	4529.0	3550.4	2937.5	2720.9	2565.3	2467.4
7649.4	37.5°	7370.3	7026.9	6690.0	6072.4	4399.1	3149.3	2623.1	2438.6	2255.7	2124.1
8133.9	40°	7808.2	7397.5	7086.3	6224.8	4185.7	2767.5	2379.2	2210.8	2016.6	1877.1
8692.2	42.5°	8320.0	7841.9	7527.5	6303.4	3893.7	2496.3	2220.4	2055.1	1872.2	1758.3
9290.6	45°	8854.3	8331.2	7930.2	6301.8	3568.0	2369.6	2169.0	2005.4	1803.3	1684.5
9905.1	47.5°	9414.2	8843.0	8278.3	6199.1	3285.7	2387.2	2140.2	1897.9	1674.9	1559.4
10526.0	50°	9975.7	9402.9	8615.2	6006.6	3165.3	2348.7	2032.7	1747.1	1484.0	1379.7
11108.3	52.5°	10532.4	9998.1	8905.6	5732.2	3043.4	2205.9	1894.7	1551.4	1405.4	1333.2
11709.9	55°	11092.3	10586.9	9221.6	5332.8	2738.6	2039.1	1663.7	1477.6	1342.8	1277.0
12298.7	57.5°	11653.8	11267.2	9521.7	4933.3	2355.1	1833.7	1536.9	1387.7	1280.2	1224.1
12791.3	60°	12237.8	12045.3	9831.3	4565.9	1976.5	1570.6	1443.9	1315.5	1206.5	1143.9
13264.5	62.5°	12839.4	12902.0	10073.5	4092.6	1628.4	1410.2	1360.5	1228.9	1123.0	1063.7
13656.0	65°	13445.8	13728.2	10232.4	3436.5	1320.4	1257.8	1270.6	1134.3	1026.8	975.4
13943.2	67.5°	13903.1	14323.4	10187.4	2600.6	1082.9	1113.4	1158.3	1034.8	933.7	893.6
13896.6	70°	13954.4	14252.8	9744.7	1780.8	906.4	972.2	1033.2	936.9	832.6	803.8
13242.1	72.5°	13271.0	13290.2	8510.9	1163.1	766.9	853.5	901.6	837.5	736.4	707.5
11584.8	75°	11478.9	10991.2	6248.8	766.9	641.7	733.2	778.1	733.2	635.3	641.7
8668.2	77.5°	8697.0	7784.2	3794.2	545.5	535.8	616.1	677.0	644.9	561.5	630.5
4358.9	80°	4480.9	4211.3	1692.6	407.5	423.5	492.5	556.7	515.0	444.4	423.5
973.8	82.5°	1026.8	1193.6	667.4	292.0	306.4	354.6	425.1	386.6	319.3	269.5
405.9	85°	359.4	393.1	295.2	182.9	179.7	221.4	288.8	258.3	216.6	173.3
171.7	87.5°	113.9	149.2	110.7	73.8	77.0	99.5	133.2	121.9	101.1	65.8
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°  
3407.6  
3500.6  
3648.2  
3816.7  
3970.7  
4055.7  
4144.0  
4209.7  
4221.0  
4171.2  
3985.1  
3685.1  
3296.9  
2892.6  
2499.5  
2159.4  
1904.3  
1780.8  
1703.8  
1575.4  
1386.1  
1333.2  
1270.6  
1214.5  
1139.1  
*1062.1*  
973.8  
895.2  
805.4  
705.9  
619.3  
555.1  
386.6  
266.3  
182.9  
69.0  
0.0

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