

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: P953582

Luminaire Tested: **GALN-SB7A-830-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953582  
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-830-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

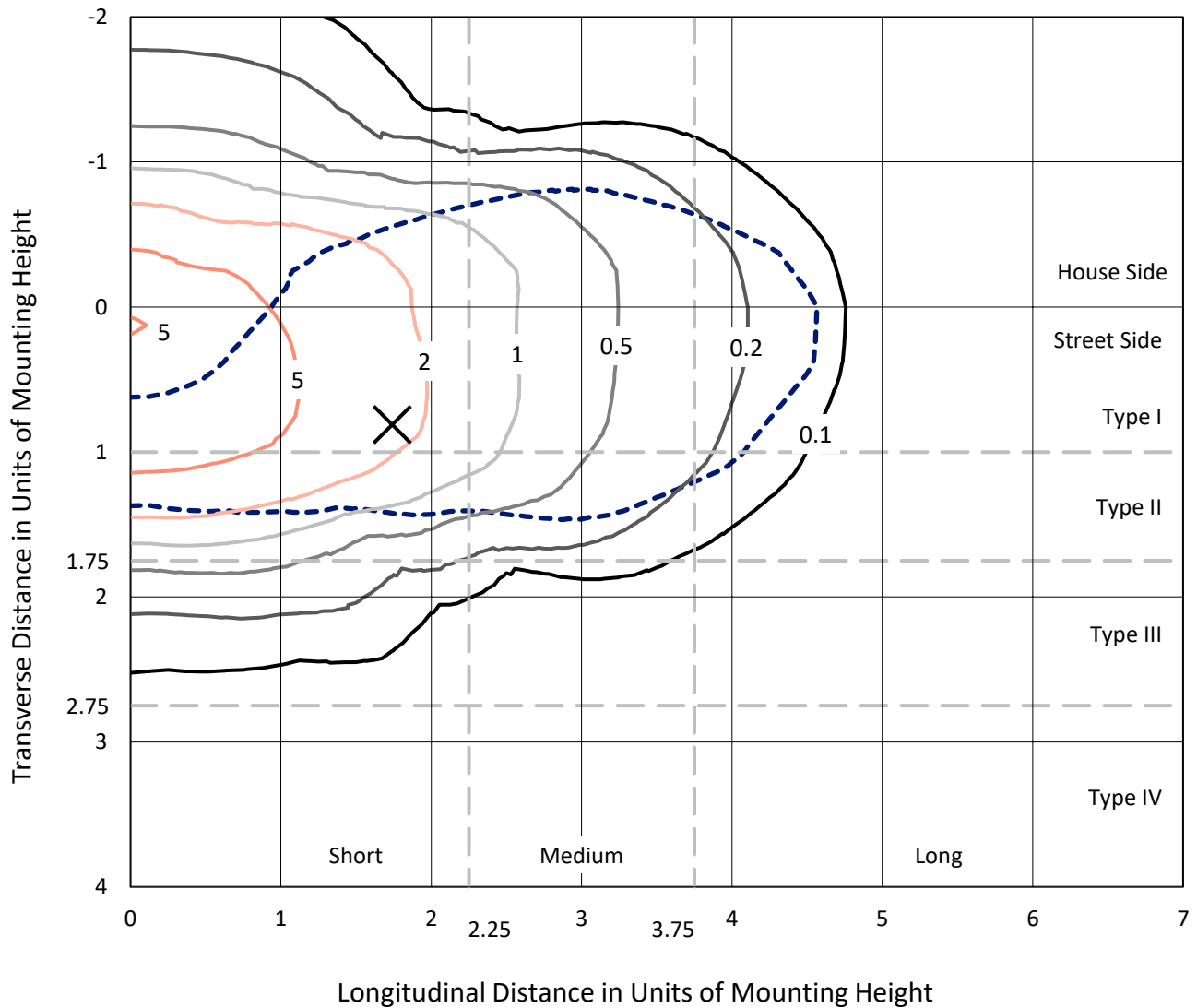
Lumens per Lamp: N/A  
Luminaire Lumens: 29049 lumens  
Efficiency: N/A  
Efficacy: 145.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

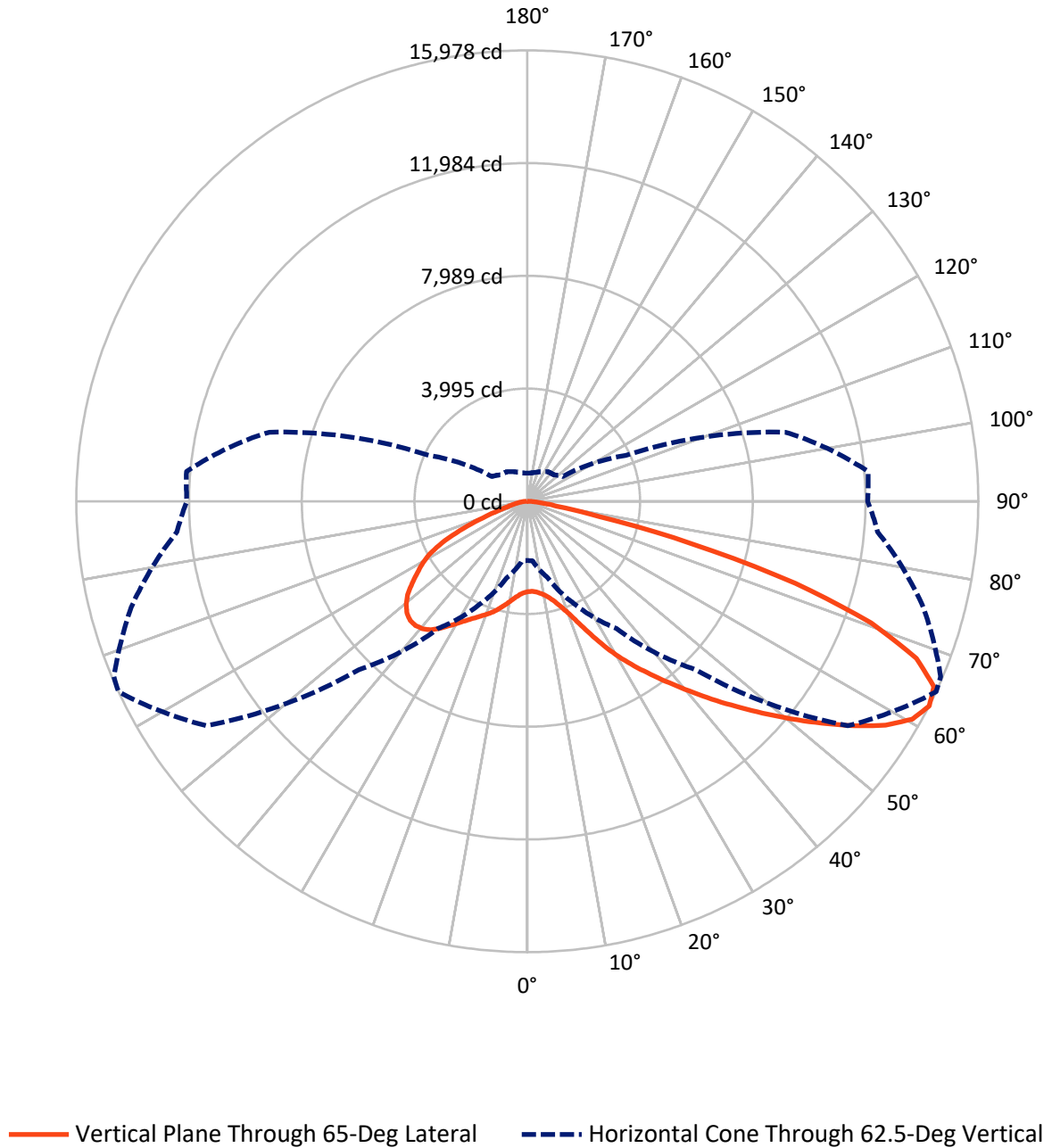
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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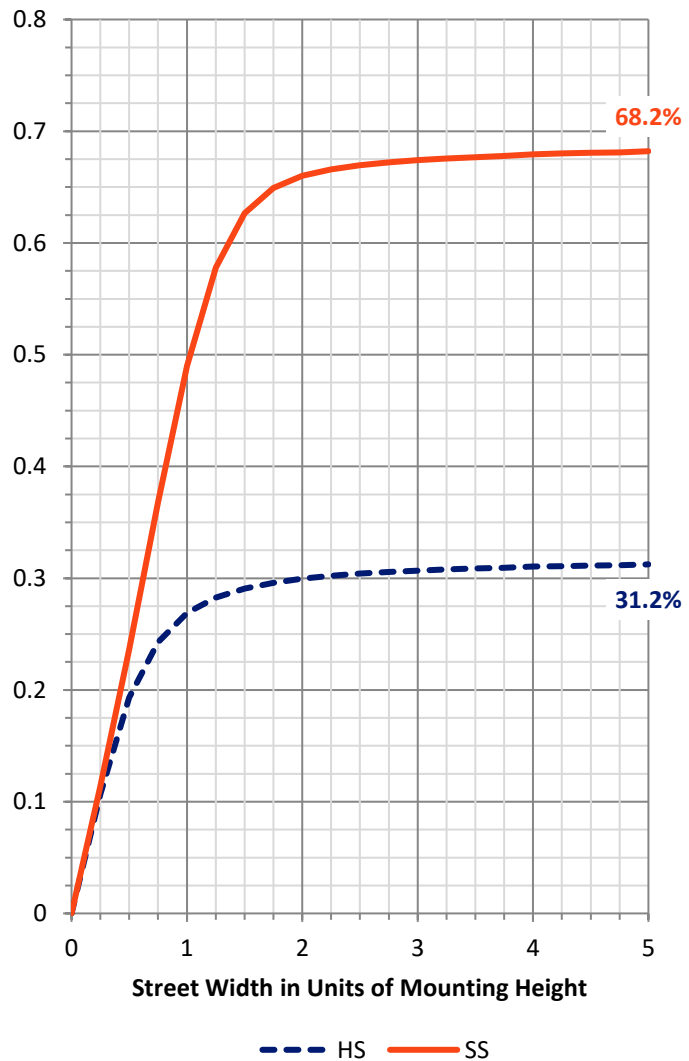
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9166.6	0.0	9166.6
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	19882.4	0.0	19882.4
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	29049.0	0.0	29049.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.1	1.1
10°-20°	1082.2	3.7
20°-30°	2194.4	7.6
30°-40°	3797.3	13.1
40°-50°	5746.5	19.8
50°-60°	6737.4	23.2
60°-70°	5648.5	19.4
70°-80°	3118.4	10.7
80°-90°	405.1	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°	29049.0	100.0
0°-180°	29049.0	100.0



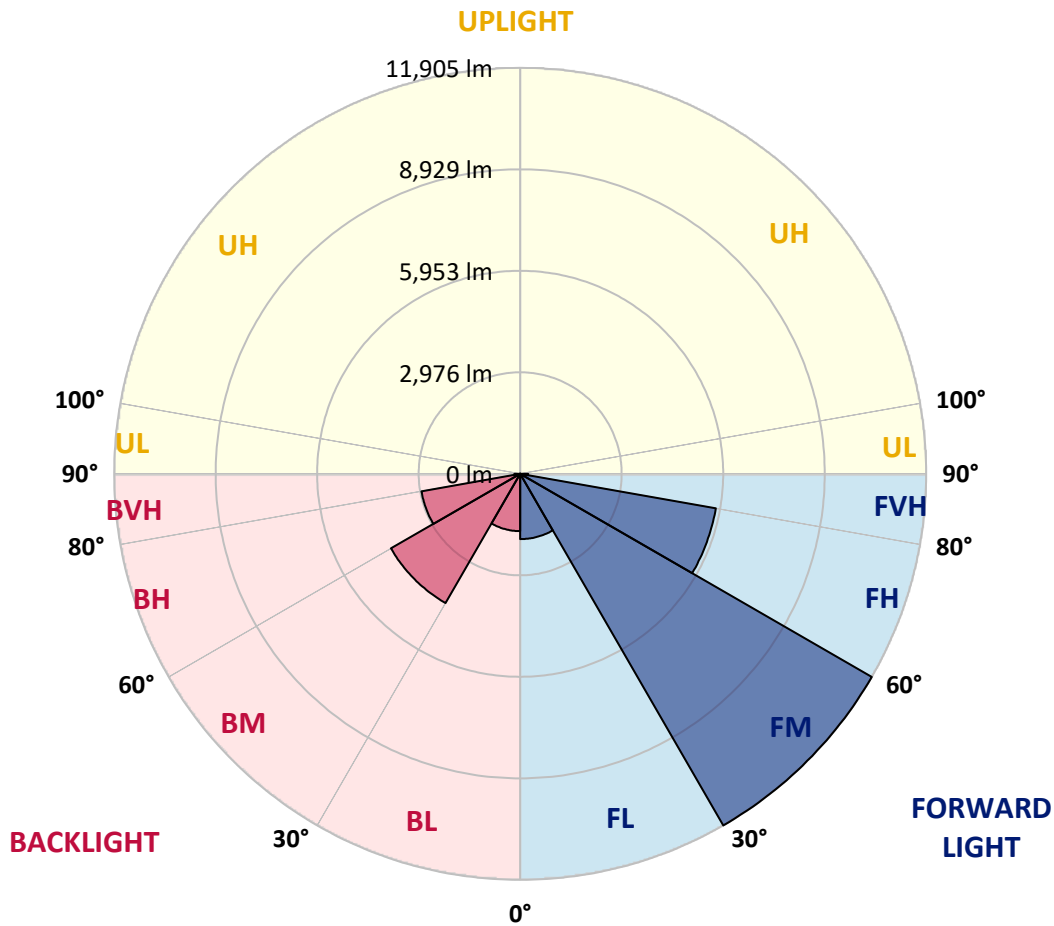
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1914.7	6.6			
FM (30°-60°)	11905.2	41.0			
FH (60°-80°)	5826.4	20.1			G3/7500
FVH (80°-90°)	236.1	0.8			G3/500
BL (0°-30°)	1681.0	5.8	B3/2500		
BM (30°-60°)	4376.0	15.1	B3/5000		
BH (60°-80°)	2940.6	10.1	B4/5000		G4/5000
BVH (80°-90°)	169.0	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°	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1
2.5°	3180.0	3170.9	3178.5	3178.5	3181.5	3180.0	3190.5	3193.5	3198.1	3207.1
5°	3148.3	3146.8	3160.4	3172.4	3184.5	3195.0	3208.6	3228.2	3231.2	3241.8
7.5°	3137.8	3128.7	3149.8	3164.9	3193.5	3219.2	3255.3	3288.5	3302.0	3306.6
10°	3219.2	3204.1	3223.7	3232.7	3256.8	3282.5	3324.7	3377.4	3392.5	3410.6
12.5°	3357.8	3341.2	3369.9	3383.4	3406.0	3428.6	3457.3	3508.5	3516.1	3549.2
15°	3547.7	3528.1	3546.2	3562.8	3600.5	3621.6	3650.2	3699.9	3699.9	3725.5
17.5°	3805.4	3779.8	3793.4	3799.4	3823.5	3855.2	3903.4	3947.1	3969.7	3960.7
20°	4189.7	4158.1	4158.1	4127.9	4118.9	4144.5	4207.8	4268.1	4292.2	4245.5
22.5°	4766.9	4721.7	4696.1	4593.6	4552.9	4556.0	4619.3	4693.1	4712.7	4629.8
25°	5500.9	5430.1	5395.4	5244.7	5152.8	5072.9	5122.6	5217.6	5244.7	5142.2
27.5°	6234.9	6239.4	6206.2	6025.4	5873.2	5727.0	5701.3	5800.8	5829.5	5713.4
30°	7264.2	7157.2	7093.9	6876.9	6659.9	6454.9	6349.4	6390.1	6397.6	6259.0
32.5°	8151.9	8124.8	7989.1	7799.2	7520.4	7199.4	7023.1	6958.3	6946.2	6748.8
35°	9163.1	9148.1	9004.9	8778.8	8477.4	8031.3	7713.3	7527.9	7512.9	7235.6
37.5°	10191.0	10191.0	10050.8	9803.7	9491.7	8934.1	8450.3	8156.4	8108.2	7746.5
40°	11010.9	10961.1	10986.7	10882.7	10525.6	9933.3	9268.6	8842.1	8777.3	8343.3
42.5°	11476.5	11460.0	11613.7	11729.7	11583.5	11110.3	10169.9	9585.1	9494.7	9000.4
45°	11580.5	11562.4	11836.7	12261.7	12466.7	12272.3	11149.5	10367.3	10257.3	9687.6
47.5°	11340.9	11304.7	11707.1	12377.8	13034.9	13377.0	12210.5	11215.8	11056.1	10356.8
50°	10620.5	10585.8	11194.7	12085.4	13226.3	14127.5	13361.9	12115.6	11871.4	11074.1
52.5°	9054.6	9071.2	10025.2	11249.0	12974.6	14594.7	14353.6	13063.5	12769.6	11808.1
55°	7053.2	7089.4	8261.9	9609.2	11967.9	14523.9	15030.3	14040.1	13747.7	12498.4
57.5°	5050.3	5210.0	6308.7	7642.5	10034.3	13401.1	15178.0	14968.5	14685.2	13251.9
60°	3273.4	3302.0	4432.4	5776.7	7641.0	11405.7	14878.1	15672.3	15450.8	14020.5
62.5°	2097.9	2117.5	2806.2	4040.5	5499.4	8438.2	13868.3	15978.2	15910.4	14528.4
65°	1541.8	1526.7	1885.4	2670.6	3704.4	5204.0	11907.6	15830.5	15964.7	14846.4
67.5°	1287.1	1266.0	1442.3	1849.2	2729.4	2955.4	8810.5	14870.5	15361.8	14810.2
70°	1172.5	1154.4	1261.4	1373.0	2129.5	1978.8	4441.4	12927.9	13684.4	14398.8
72.5°	993.2	961.5	1107.7	1219.2	1656.3	1517.6	1835.6	9930.3	10852.6	13080.1
75°	770.1	749.0	874.1	1073.1	1244.9	1184.6	1160.5	6029.9	7036.6	10115.6
77.5°	610.4	581.7	696.3	836.4	1119.8	893.7	845.5	2596.7	3594.4	6457.9
80°	459.7	434.0	529.0	661.6	860.6	673.7	547.1	1059.5	1354.9	3271.9
82.5°	327.0	304.4	369.2	485.3	578.7	604.3	336.1	593.8	667.6	1261.4
85°	209.5	195.9	247.2	304.4	367.7	388.8	205.0	310.5	340.6	519.9
87.5°	114.5	93.4	132.6	141.7	170.3	155.2	98.0	113.0	122.1	188.4
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°
3201.1	0°	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1	3201.1
3207.1	2.5°	3213.1	3217.7	3232.7	3237.2	3247.8	3261.4	3270.4	3279.4	3279.4	3288.5
3255.3	5°	3256.8	3267.4	3299.0	3315.6	3342.7	3369.9	3386.4	3406.0	3418.1	3424.1
3332.2	7.5°	3341.2	3357.8	3403.0	3431.7	3478.4	3516.1	3541.7	3568.8	3574.8	3591.4
3439.2	10°	3455.8	3475.4	3526.6	3580.9	3636.6	3683.3	3707.5	3727.1	3734.6	3737.6
3576.3	12.5°	3586.9	3615.5	3681.8	3748.2	3806.9	3847.6	3853.6	3849.1	3828.0	3809.9
3745.1	15°	3748.2	3773.8	3847.6	3920.0	3977.2	3984.8	3947.1	3923.0	3897.4	3892.8
3933.5	17.5°	3941.1	3954.6	4022.4	4093.3	4097.8	4072.2	4016.4	3993.8	3969.7	3953.1
4179.2	20°	4165.6	4161.1	4209.3	4239.5	4207.8	4129.4	4045.0	4007.4	3983.3	3963.7
4480.6	22.5°	4433.9	4399.2	4393.2	4385.7	4301.3	4137.0	4022.4	3974.2	3936.5	3909.4
4901.1	25°	4824.2	4691.6	4599.7	4548.4	4358.5	4096.3	3950.1	3843.1	3772.3	3725.5
5415.0	27.5°	5312.5	5089.5	4857.4	4732.3	4358.5	4013.4	3775.3	3602.0	3485.9	3437.7
5912.3	30°	5778.2	5544.6	5202.5	4953.8	4348.0	3877.8	3493.5	3252.3	3116.7	3068.4
6337.3	32.5°	6176.1	5921.4	5568.7	5196.5	4322.4	3657.7	3143.8	2877.0	2745.9	2688.7
6757.8	35°	6545.3	6274.0	5936.5	5463.2	4254.5	3335.2	2759.5	2556.0	2409.8	2317.9
7185.8	37.5°	6923.6	6601.1	6284.6	5704.4	4132.5	2958.4	2464.1	2290.8	2119.0	1995.4
7641.0	40°	7335.0	6949.2	6656.8	5847.5	3932.0	2599.7	2235.0	2076.8	1894.4	1763.3
8165.5	42.5°	7815.8	7366.7	7071.3	5921.4	3657.7	2345.0	2085.8	1930.6	1758.8	1651.8
8727.6	45°	8317.7	7826.4	7449.6	5919.9	3351.8	2226.0	2037.6	1883.9	1694.0	1582.5
9304.8	47.5°	8843.6	8307.1	7776.6	5823.4	3086.5	2242.6	2010.5	1782.9	1573.4	1464.9
9888.1	50°	9371.1	8833.1	8093.1	5642.6	2973.5	2206.4	1909.5	1641.2	1394.1	1296.1
10435.1	52.5°	9894.1	9392.2	8365.9	5384.9	2859.0	2072.3	1779.9	1457.4	1320.2	1252.4
11000.3	55°	10420.1	9945.3	8662.8	5009.6	2572.6	1915.5	1562.9	1388.0	1261.4	1199.6
11553.4	57.5°	10947.6	10584.3	8944.6	4634.3	2212.4	1722.6	1443.8	1303.6	1202.7	1149.9
12016.1	60°	11496.1	11315.3	9235.5	4289.2	1856.7	1475.4	1356.4	1235.8	1133.3	1074.6
12460.7	62.5°	12061.3	12120.1	9463.1	3844.6	1529.7	1324.7	1278.0	1154.4	1055.0	999.2
12828.4	65°	12631.0	12896.2	9612.3	3228.2	1240.3	1181.6	1193.6	1065.5	964.5	916.3
13098.2	67.5°	13060.5	13455.4	9570.1	2443.0	1017.3	1045.9	1088.1	972.1	877.1	839.5
13054.5	70°	13108.7	13389.0	9154.1	1672.9	851.5	913.3	970.6	880.1	782.2	755.1
12439.6	72.5°	12466.7	12484.8	7995.1	1092.6	720.4	801.8	847.0	786.7	691.8	664.6
10882.7	75°	10783.3	10325.1	5870.1	720.4	602.8	688.7	730.9	688.7	596.8	602.8
8142.8	77.5°	8170.0	7312.4	3564.3	512.4	503.4	578.7	636.0	605.9	527.5	592.3
4094.8	80°	4209.3	3956.1	1590.0	382.8	397.9	462.7	523.0	483.8	417.5	397.9
914.8	82.5°	964.5	1121.3	627.0	274.3	287.9	333.1	399.4	363.2	299.9	253.2
381.3	85°	337.6	369.2	277.3	171.8	168.8	208.0	271.3	242.6	203.5	162.8
161.3	87.5°	107.0	140.2	104.0	69.3	72.3	93.4	125.1	114.5	94.9	61.8
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

<u>180°</u>
3201.1
3288.5
3427.1
3585.4
3730.1
3809.9
3892.8
3954.6
3965.2
3918.5
3743.6
3461.8
3097.1
2717.3
2348.1
2028.6
1788.9
1672.9
1600.5
1480.0
1302.1
1252.4
1193.6
1140.9
1070.0
997.7
914.8
841.0
756.6
663.1
581.7
521.5
363.2
250.2
171.8
64.8
0.0

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