

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: P944827

Luminaire Tested: **GALN-SB9D-950-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944827  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-950-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

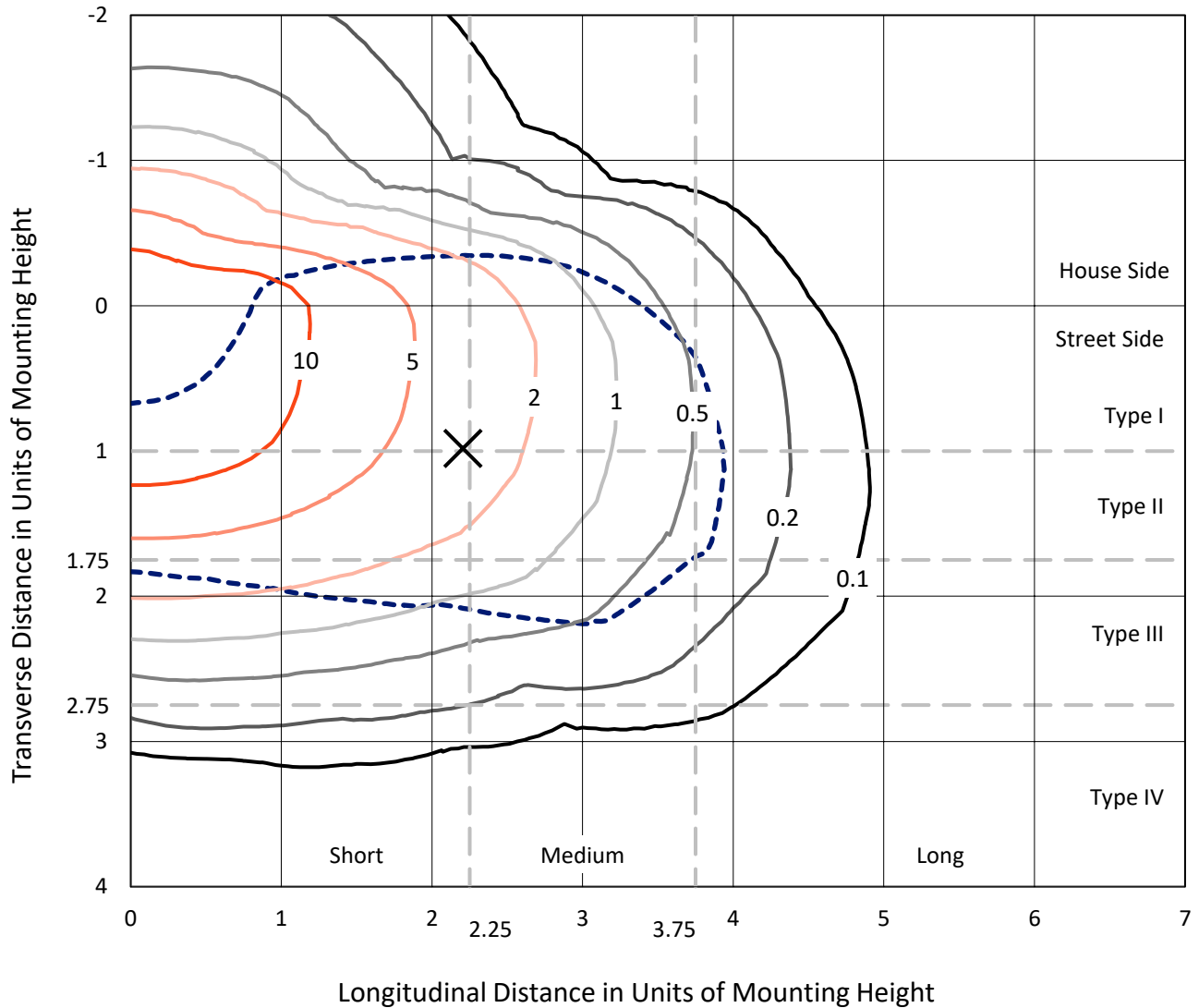
Lumens per Lamp: N/A  
Luminaire Lumens: 64522 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

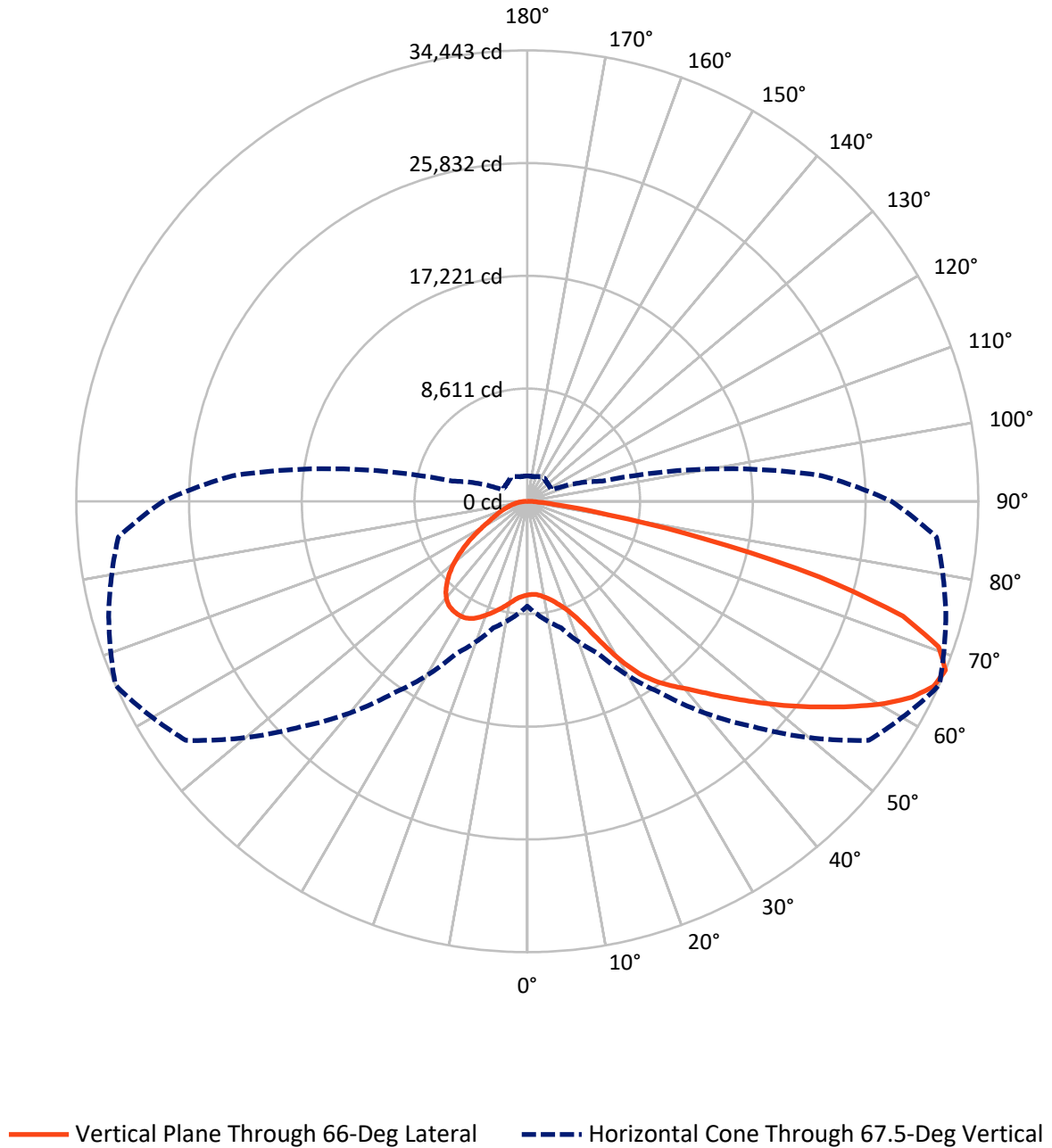
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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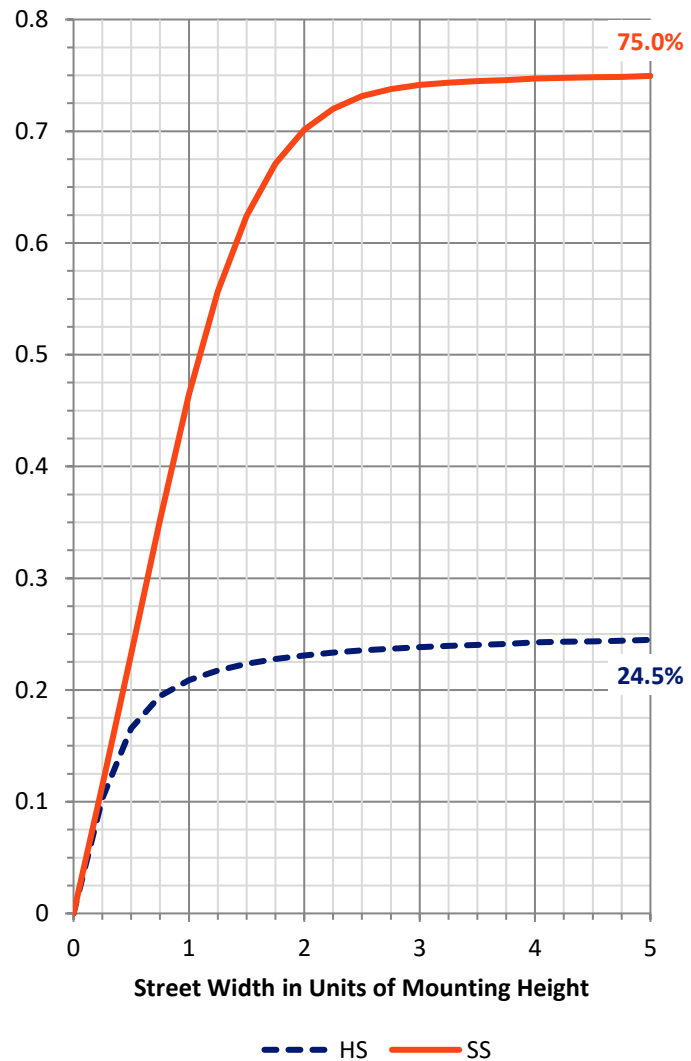
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16043.2	0.0	16043.2
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	48478.8	0.0	48478.8
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	64522.0	0.0	64522.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	709.5	1.1
10°-20°	2344.2	3.6
20°-30°	4518.3	7.0
30°-40°	7922.2	12.3
40°-50°	11777.7	18.3
50°-60°	14929.4	23.1
60°-70°	14608.0	22.6
70°-80°	6968.2	10.8
80°-90°	744.7	1.2
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°	64522.0	100.0
0°-180°	64522.0	100.0

**Coefficient of Utilization**



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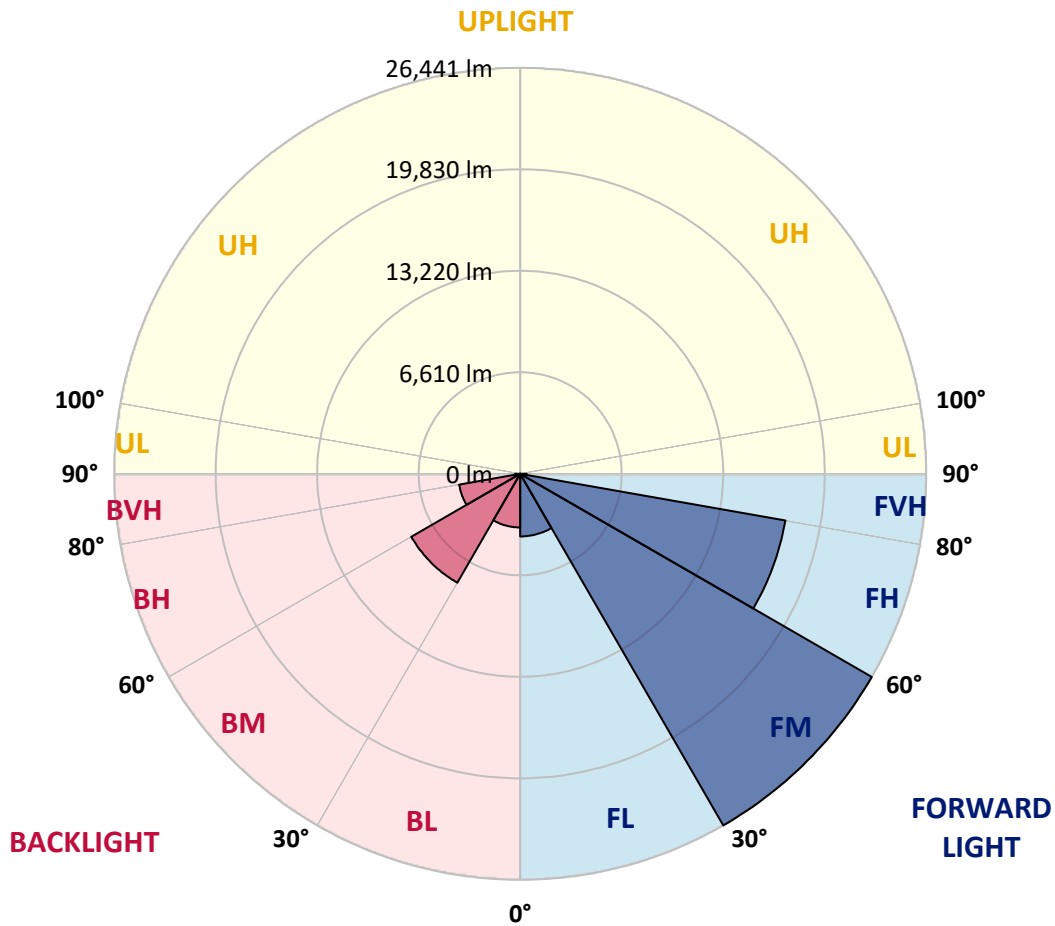
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4077.2	6.3			
FM (30°-60°)	26440.6	41.0			
FH (60°-80°)	17538.8	27.2			G5
FVH (80°-90°)	422.2	0.7			G3/500
BL (0°-30°)	3494.8	5.4	B4/5000		
BM (30°-60°)	8188.6	12.7	B4/8500		
BH (60°-80°)	4037.3	6.3	B4/5000		G4/5000
BVH (80°-90°)	322.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	7156.3	7156.3	7156.3	7156.3	7156.3	7156.3	7156.3	7156.3	7156.3	7156.3
2.5°	7081.8	7122.4	7112.3	7095.3	7091.9	7098.7	7108.9	7119.1	7115.7	7132.6
5°	7061.4	7102.1	7098.7	7098.7	7112.3	7139.4	7156.3	7173.3	7156.3	7176.7
7.5°	7075.0	7105.5	7119.1	7132.6	7166.5	7217.4	7258.0	7295.3	7275.0	7298.7
10°	7247.9	7271.6	7285.2	7285.2	7308.9	7366.5	7407.2	7475.0	7458.1	7495.3
12.5°	7563.1	7586.9	7586.9	7573.3	7590.3	7627.6	7641.1	7715.7	7685.2	7746.2
15°	7949.6	7997.1	7959.8	7936.0	7942.8	7980.1	7976.7	8034.4	8003.8	8054.7
17.5°	8376.8	8437.8	8376.8	8373.4	8359.8	8400.5	8403.9	8454.7	8400.5	8437.8
20°	8881.9	8966.6	8915.8	8932.7	8902.2	8919.2	8936.1	9010.7	8925.9	8953.1
22.5°	9593.8	9695.5	9641.2	9705.6	9685.3	9671.7	9668.4	9800.6	9668.4	9678.5
25°	10631.1	10753.2	10658.2	10746.4	10746.4	10790.4	10841.3	11010.8	10790.4	10726.0
27.5°	12163.4	12285.5	12099.0	12153.2	12136.3	12244.8	12190.5	12610.9	12373.6	12268.5
30°	14007.6	14224.5	13872.0	13858.4	13841.5	14014.4	14092.3	14370.3	14129.6	14024.5
32.5°	16000.9	16228.0	15807.7	15685.6	15621.2	15726.3	15661.9	15885.7	15719.5	15556.8
35°	18109.5	18333.3	17933.2	17695.9	17438.3	17217.9	16987.4	17045.0	16889.1	16641.6
37.5°	20102.8	20513.0	20089.3	19835.0	19360.4	18929.9	18285.8	18018.0	17872.2	17645.1
40°	22133.5	22367.4	22045.3	21828.4	21313.1	20638.5	19607.9	19041.8	18845.1	18624.8
42.5°	23628.5	23852.2	23679.3	23530.2	23126.7	22343.7	21011.4	20302.9	20018.1	19770.6
45°	24815.0	24981.1	24872.6	24926.9	24754.0	23994.6	22465.7	21655.5	21360.5	21058.8
47.5°	25293.0	25469.3	25642.1	25964.2	26259.1	25699.8	24028.5	23120.0	22808.1	22499.6
50°	25238.7	25418.4	25920.1	26604.9	27520.2	27333.8	25676.0	24679.4	24391.2	24038.7
52.5°	24804.8	25008.2	25652.3	26791.4	28249.1	28557.6	27354.1	26289.6	26018.4	25598.1
55°	23665.8	23787.8	24754.0	26367.6	28422.0	29411.9	28998.3	28005.0	27733.8	27147.3
57.5°	21553.8	21730.1	23136.9	25225.2	27988.0	29991.5	30442.4	29808.5	29547.5	28703.3
60°	18797.7	19079.1	20689.3	23306.4	26882.9	29988.2	31754.4	31581.5	31364.5	30235.6
62.5°	15678.9	16004.3	17553.5	20594.4	24950.6	29137.3	32574.7	33066.3	32954.4	31649.3
65°	12041.4	12265.1	13807.6	17085.7	21943.6	27310.0	32669.7	34079.9	34100.3	32723.9
67.5°	8017.4	8661.5	10000.6	12821.1	17916.3	24323.4	31835.7	34246.0	34442.7	33093.4
70°	3912.1	4759.6	6071.5	8332.7	12821.1	19743.5	29655.9	32883.2	33320.6	32015.4
72.5°	1623.8	1898.4	2613.7	4112.1	7359.7	13322.8	25276.0	29188.1	29998.3	28367.7
75°	1095.0	1186.5	1495.0	2108.6	3352.7	6569.9	18228.2	21764.0	23069.1	21425.0
77.5°	844.1	901.7	1088.2	1474.7	1993.3	2484.9	9756.5	13116.0	13790.6	12766.8
80°	664.4	708.5	813.6	1074.6	1413.6	1328.9	3325.6	5942.7	6332.6	5312.2
82.5°	576.3	593.3	583.1	728.9	939.0	776.3	1091.6	2193.3	2420.5	1756.0
85°	417.0	464.4	484.8	450.9	498.3	393.2	447.5	776.3	854.3	762.8
87.5°	169.5	250.9	308.5	291.5	183.1	111.9	139.0	227.1	261.0	284.8
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°
7156.3	0°	7156.3	7156.3	7156.3	7156.3	7156.3	7156.3	7156.3	7156.3	7156.3	7156.3
7159.7	2.5°	7163.1	7186.9	7203.8	7224.1	7237.7	7258.0	7298.7	7322.5	7325.8	7342.8
7214.0	5°	7227.5	7261.4	7298.7	7353.0	7414.0	7464.8	7542.8	7597.0	7617.4	7634.3
7346.2	7.5°	7366.5	7414.0	7481.8	7576.7	7664.8	7732.6	7827.6	7892.0	7956.4	7980.1
7556.4	10°	7573.3	7641.1	7739.4	7868.2	7963.2	8051.3	8149.6	8203.9	8268.3	8295.4
7807.2	12.5°	7831.0	7902.1	8031.0	8210.6	8298.8	8359.8	8393.7	8380.1	8393.7	8417.4
8108.9	15°	8125.9	8203.9	8349.6	8542.9	8603.9	8549.6	8475.1	8407.3	8397.1	8403.9
8475.1	17.5°	8475.1	8532.7	8702.2	8864.9	8820.8	8597.1	8434.4	8325.9	8271.7	8254.7
8942.9	20°	8963.2	8963.2	9102.2	9203.9	8909.0	8529.3	8275.1	8098.8	7986.9	7939.4
9580.2	22.5°	9556.5	9502.2	9590.4	9519.2	8892.0	8339.5	7986.9	7681.8	7512.3	7444.5
10471.8	25°	10309.1	10244.7	10220.9	9780.2	8770.0	8037.7	7464.8	7095.3	6946.2	6908.9
11756.6	27.5°	11444.7	11282.0	10973.5	9922.6	8546.3	7563.1	6854.6	6512.2	6427.5	6430.9
13407.5	30°	12956.7	12631.2	11875.3	9946.3	8180.1	6891.9	6230.9	5986.8	5946.1	5963.1
14794.1	32.5°	14356.8	14048.3	12797.3	9837.9	7617.4	6234.3	5671.5	5508.8	5447.8	5468.1
15851.8	35°	15455.1	15370.4	13651.6	9685.3	6925.8	5617.3	5169.8	5030.8	4912.1	4885.0
16848.4	37.5°	16492.5	16458.6	14292.3	9471.7	6241.0	5180.0	4766.4	4583.3	4410.4	4315.5
17950.2	40°	17631.5	17597.6	14712.7	9142.9	5634.2	4800.3	4403.6	4163.0	3949.4	3776.5
19197.7	42.5°	18912.9	18712.9	14912.7	8671.7	5118.9	4478.2	4108.7	3783.3	3501.9	3342.6
20608.0	45°	20313.0	19862.2	14909.3	8071.6	4685.0	4183.3	3793.4	3332.4	3071.4	2922.2
22055.5	47.5°	21797.9	20960.5	14726.3	7407.2	4264.7	3857.8	3305.3	2952.7	2779.8	2688.3
23628.5	50°	23330.2	21987.7	14414.4	6644.4	3834.1	3488.3	3000.2	2759.5	2627.3	2542.5
25187.9	52.5°	24770.9	22920.0	14038.1	5780.0	3396.8	3129.0	2864.6	2678.1	2539.1	2444.2
26699.8	55°	26110.0	23723.4	13505.9	4895.2	3040.9	2888.3	2800.2	2644.2	2484.9	2373.0
28235.5	57.5°	27299.9	24245.5	12587.2	4064.6	2786.6	2722.2	2732.4	2586.6	2403.5	2308.6
29747.5	60°	28289.8	24628.5	11227.8	3295.1	2579.8	2559.5	2627.3	2478.1	2264.5	2156.1
31025.5	62.5°	28883.0	24621.8	9559.9	2698.5	2403.5	2410.3	2488.3	2342.5	2125.5	2023.8
31693.3	65°	28832.2	24018.3	7729.3	2308.6	2234.0	2240.8	2342.5	2193.3	2010.3	1949.3
31357.7	67.5°	27811.8	22547.1	5929.2	2054.4	2047.6	2078.1	2196.7	2091.6	1939.1	1932.3
29357.6	70°	25048.9	19492.6	4271.4	1851.0	1854.3	1898.4	2054.4	2027.2	1901.8	1915.4
24682.8	72.5°	20085.9	14861.9	2868.0	1637.4	1640.8	1712.0	1918.8	1976.4	1864.5	2044.2
17512.9	75°	13377.0	9268.3	1844.2	1410.3	1413.6	1505.2	1800.1	1878.1	1762.8	2037.4
9112.4	77.5°	6427.5	4166.3	1335.7	1186.5	1186.5	1271.3	1556.0	1681.5	1501.8	1583.1
2929.0	80°	2220.5	1566.2	1050.9	956.0	935.6	993.3	1311.9	1457.7	1295.0	1193.3
956.0	82.5°	874.6	813.6	844.1	742.4	674.6	711.9	1020.4	1203.5	952.6	861.1
539.0	85°	501.7	528.8	596.6	491.6	389.9	437.3	749.2	864.5	718.7	633.9
176.3	87.5°	135.6	186.5	274.6	254.3	176.3	186.5	356.0	478.0	413.6	318.7
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>
7156.3
7339.4
7630.9
7983.5
8309.0
8424.2
8427.6
8278.4
7929.3
7434.3
6915.7
6441.0
6020.7
5495.2
4905.4
4318.9
3793.4
3352.7
2915.4
2667.9
2512.0
2403.5
2328.9
2247.6
2108.6
1993.3
1945.9
1942.5
1912.0
2071.3
2054.4
1450.9
1118.7
857.7
647.5
328.8
0.0

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