

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: P955641

Luminaire Tested: **GALN-SB8C-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53340 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

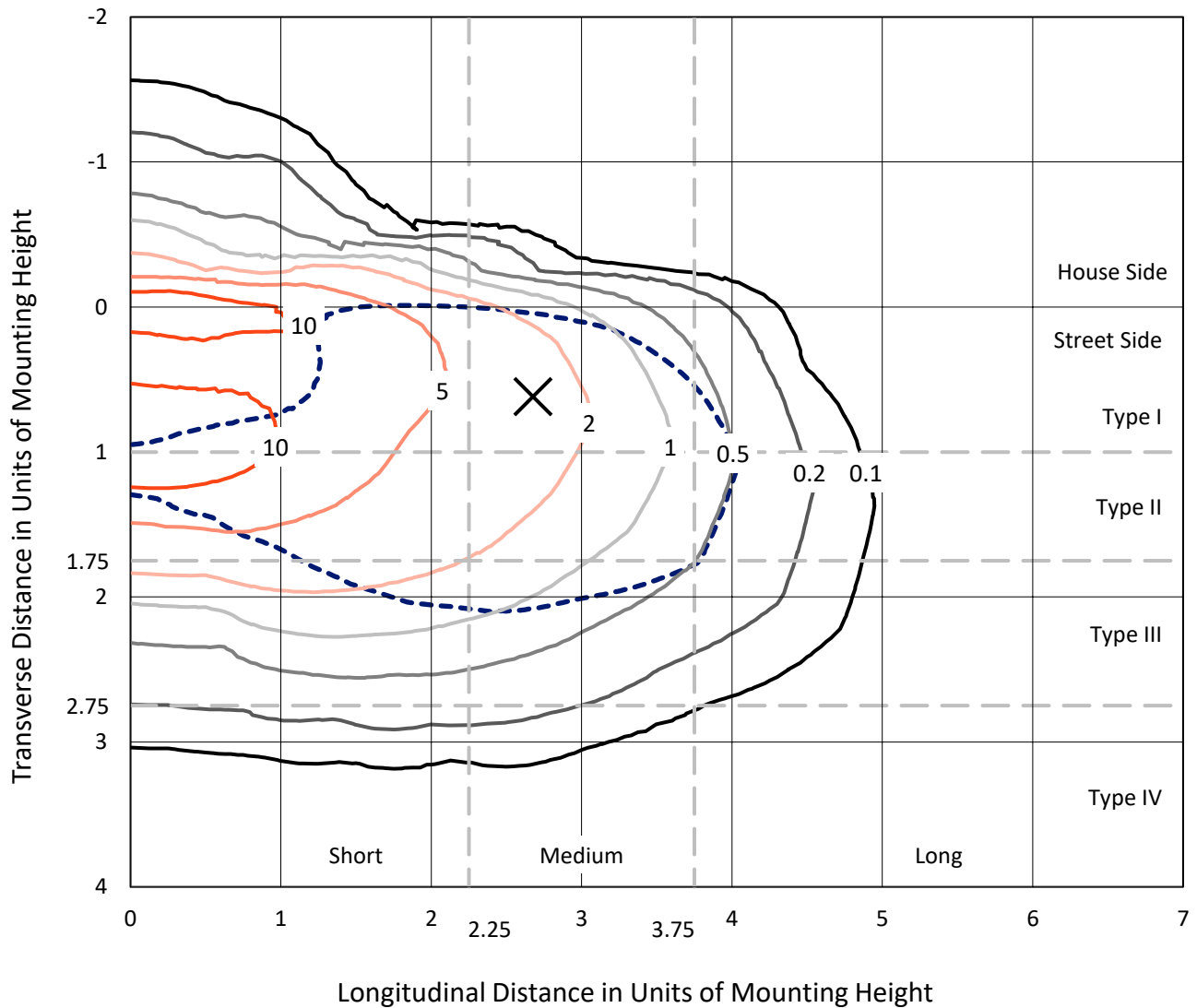
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

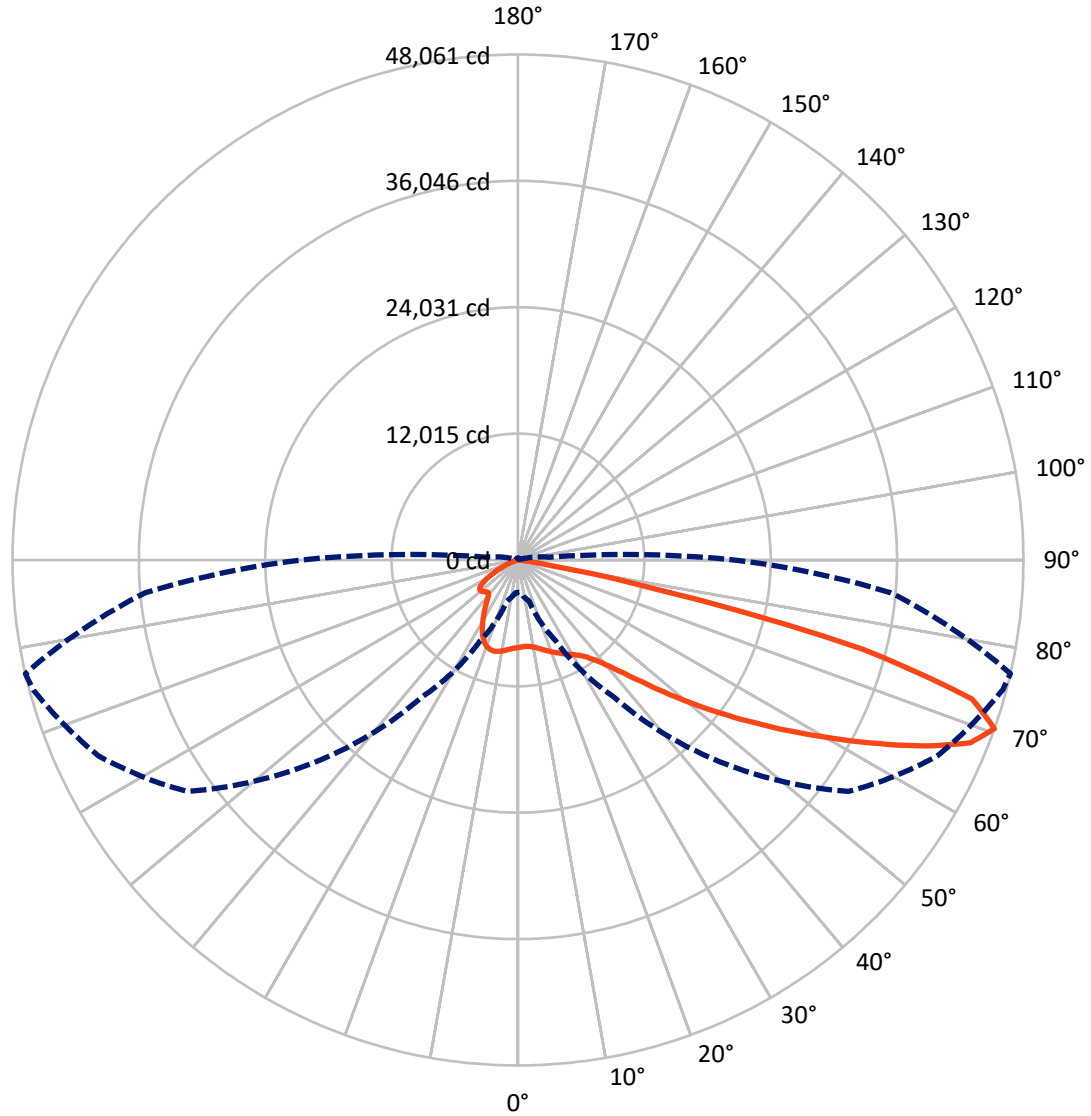
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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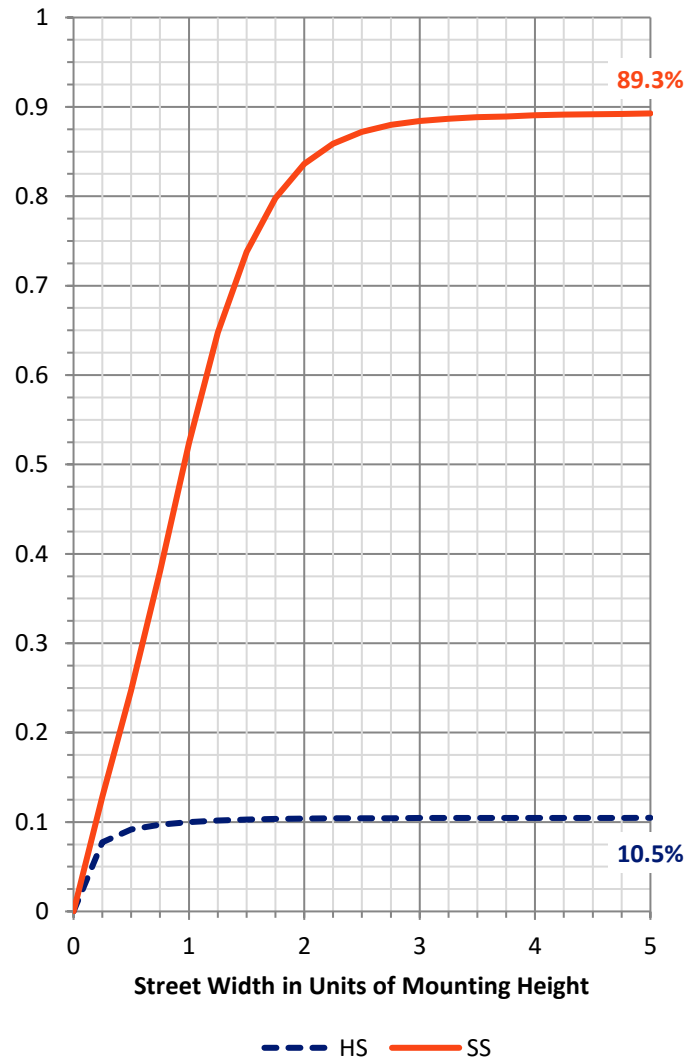
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5622.8	0.0	5622.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	47717.2	0.0	47717.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	53340.0	0.0	53340.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.1	1.3
10°-20°	1702.2	3.2
20°-30°	2632.9	4.9
30°-40°	4777.5	9.0
40°-50°	9018.0	16.9
50°-60°	13030.3	24.4
60°-70°	13870.4	26.0
70°-80°	7350.3	13.8
80°-90°	241.3	0.5
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°	53340.0	100.0
0°-180°	53340.0	100.0



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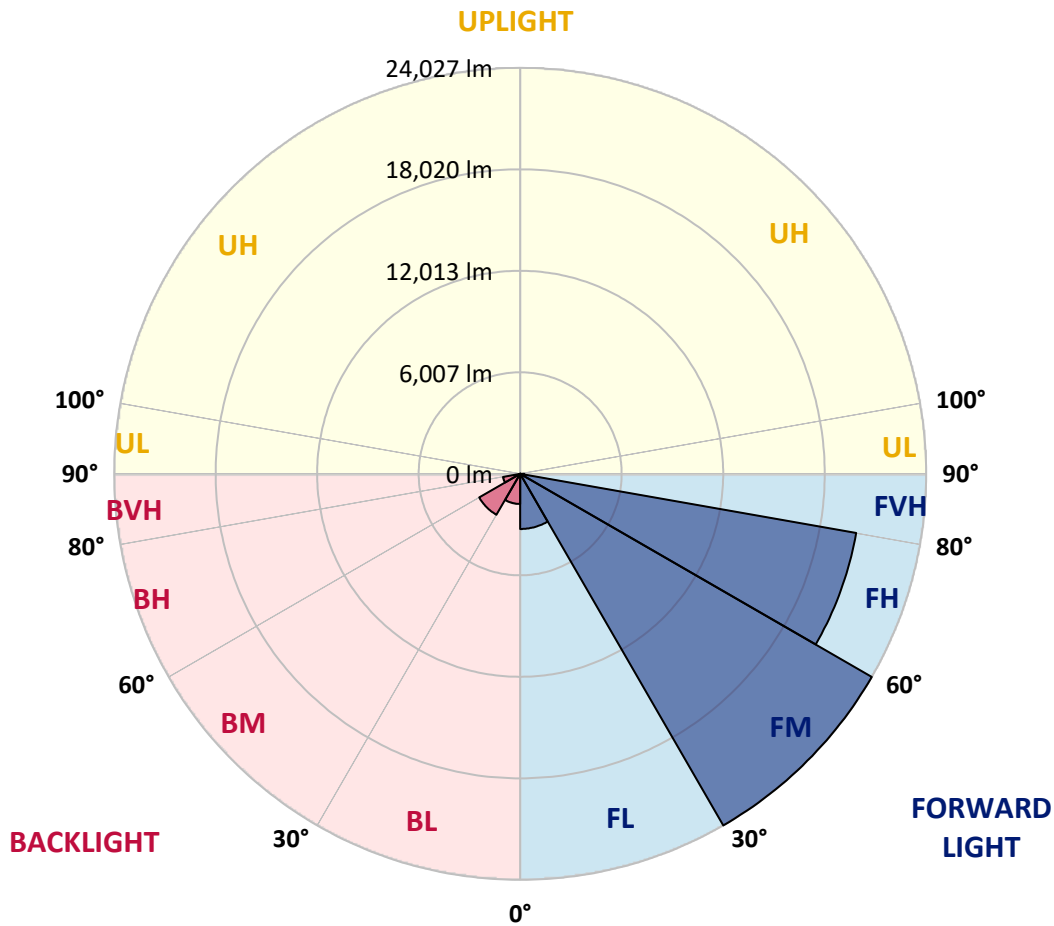
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3265.7	6.1			
FM (30°-60°)	24026.7	45.0			
FH (60°-80°)	20189.9	37.9			G5
FVH (80°-90°)	234.9	0.4			G3/500
BL (0°-30°)	1786.5	3.3	B3/2500		
BM (30°-60°)	2799.0	5.2	B3/5000		
BH (60°-80°)	1030.8	1.9	B3/2500		G3/2500
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1
2.5°	7811.4	7882.2	7872.1	7919.2	7936.1	8003.4	8070.8	8161.8	8262.8	8259.4
5°	7370.2	7440.9	7457.8	7521.8	7602.6	7707.0	7845.1	8027.0	8215.7	8246.0
7.5°	6848.1	6922.2	6966.0	7094.0	7242.2	7457.8	7683.4	7949.5	8262.8	8306.6
10°	6326.0	6393.3	6450.6	6632.5	6868.3	7188.3	7555.4	7939.4	8360.5	8424.5
12.5°	6002.6	6066.6	6130.6	6288.9	6582.0	6972.7	7471.2	7986.6	8522.2	8613.1
15°	5888.1	5945.3	5995.8	6137.3	6410.2	6854.8	7454.4	8084.3	8727.7	8848.9
17.5°	5904.9	5935.2	5968.9	6076.7	6342.8	6800.9	7484.7	8252.7	8970.2	9078.0
20°	6002.6	6019.4	6022.8	6096.9	6332.7	6794.2	7545.3	8414.4	9199.2	9344.1
22.5°	6127.2	6134.0	6127.2	6177.7	6396.7	6844.7	7626.2	8609.8	9455.2	9590.0
25°	6710.0	6582.0	6420.3	6322.6	6504.5	6942.4	7747.4	8872.5	9734.8	9866.2
27.5°	8518.8	8151.7	7572.3	6922.2	6726.8	7083.9	7915.9	9138.6	10017.8	10135.7
30°	11456.1	10974.4	9990.8	8525.6	7440.9	7380.3	8134.8	9404.7	10317.6	10445.6
32.5°	14400.1	14282.2	13147.1	11119.3	9047.7	8040.5	8498.6	9765.1	10715.0	10816.1
35°	17377.8	17138.7	16209.0	14204.8	11523.5	9384.5	9104.9	10236.7	11237.2	11351.7
37.5°	19658.3	19513.4	18937.4	17286.9	14460.8	11459.5	10142.4	10967.7	11995.1	12123.1
40°	21672.6	21605.3	21409.9	20321.9	17745.0	14174.4	11755.9	12099.5	13046.0	13197.6
42.5°	23255.8	23414.1	23525.3	23222.1	21130.3	17273.4	13925.2	13689.4	14511.3	14666.2
45°	24876.0	24929.9	25377.9	25815.8	24492.0	20513.9	16370.7	15552.1	16333.6	16525.6
47.5°	25916.9	26132.5	26920.7	27692.0	27318.1	23727.4	18998.1	17751.7	18445.6	18806.1
50°	25994.3	26401.9	27486.6	28830.6	29376.3	26785.9	21854.5	20257.9	20995.6	21393.0
52.5°	24704.2	25337.5	27018.4	28985.5	30487.9	29376.3	24808.6	22764.0	23710.5	24229.3
55°	18940.8	19769.4	25256.7	28143.4	30531.6	31340.1	27685.3	25374.5	26735.4	27321.5
57.5°	16502.0	16919.7	19857.0	26681.5	29719.9	32131.7	30285.8	27860.5	30026.4	30754.0
60°	13729.8	14278.9	16653.6	24289.9	28618.4	32209.1	32583.0	31067.2	33593.6	34412.1
62.5°	9330.6	9926.8	12288.1	20180.4	27112.7	32172.1	34466.0	34368.3	37558.2	38437.4
65°	5780.3	6154.2	7710.4	16478.5	25007.4	32212.5	36436.5	38376.8	41741.9	42634.5
67.5°	4567.6	4739.4	5551.2	12651.9	21379.6	31303.0	38403.7	42146.1	45679.6	46387.0
70°	3068.7	3173.1	4038.8	8481.8	15905.8	27105.9	38366.7	44039.1	47707.4	48061.1
72.5°	1616.9	1697.7	2361.3	3927.6	9606.8	19267.5	32340.5	41775.5	45689.7	45157.5
75°	808.4	943.2	1589.9	1994.1	4102.8	10745.4	20082.7	32936.7	35961.6	33900.1
77.5°	613.1	741.1	1313.7	1313.7	1428.2	3617.7	8505.3	17964.0	16569.4	13797.2
80°	390.7	505.3	1148.6	993.7	596.2	919.6	2216.4	5032.5	3520.0	2677.9
82.5°	229.1	330.1	956.6	656.8	333.5	340.2	626.5	1071.2	912.9	710.7
85°	90.9	215.6	656.8	259.4	131.4	84.2	188.6	229.1	188.6	141.5
87.5°	0.0	50.5	114.5	0.0	10.1	6.7	13.5	16.8	16.8	13.5
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°
8320.1	0°	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1
8326.8	2.5°	8357.1	8363.9	8384.1	8387.4	8340.3	8279.7	8256.1	8246.0	8205.5	8202.2
8380.7	5°	8458.2	8488.5	8458.2	8370.6	8161.8	7868.7	7646.4	7464.5	7299.4	7248.9
8566.0	7.5°	8660.3	8690.6	8599.7	8256.1	7730.6	7147.9	6622.4	6251.8	5918.4	5793.7
8791.7	10°	8950.0	8990.4	8704.1	8010.2	7080.5	6144.1	5254.8	4628.3	4139.8	3941.1
9098.2	12.5°	9313.8	9330.6	8761.3	7636.3	6235.0	4897.7	3637.9	2967.6	2533.1	2371.4
9468.7	15°	9714.6	9691.0	8768.1	7127.6	5083.0	3462.8	2374.8	1950.3	1775.2	1721.3
9839.2	17.5°	10135.7	10038.0	8633.3	6393.3	3819.8	2368.0	1761.7	1660.6	1630.3	1616.9
10206.4	20°	10550.0	10331.0	8387.4	5433.3	2741.9	1768.4	1600.0	1569.7	1552.9	1546.1
10576.9	22.5°	10927.3	10553.4	7966.4	4318.4	1990.8	1563.0	1512.4	1485.5	1455.2	1441.7
10937.4	25°	11294.4	10681.4	7373.5	3277.5	1593.3	1461.9	1421.5	1371.0	1330.5	1313.7
11324.7	27.5°	11651.5	10762.2	6632.5	2425.3	1421.5	1367.6	1293.5	1222.7	1192.4	1185.7
11739.1	30°	12032.1	10789.2	5790.4	1808.9	1317.1	1249.7	1141.9	1061.1	1044.2	1047.6
12298.2	32.5°	12497.0	10829.6	4941.5	1482.1	1229.5	1108.2	980.2	896.0	882.5	896.0
13113.4	35°	13052.8	10910.4	4123.0	1364.2	1152.0	963.4	825.3	754.5	741.1	751.2
14157.6	37.5°	13807.3	11041.8	3358.3	1340.6	1088.0	842.1	693.9	636.6	636.6	640.0
15437.6	40°	14811.1	11392.1	2674.6	1323.8	1054.3	751.2	586.1	562.5	572.6	579.4
17067.9	42.5°	16033.8	12136.5	2213.1	1303.6	1017.3	710.7	532.2	522.1	539.0	545.7
19021.6	45°	17404.8	13079.7	2051.4	1269.9	983.6	737.7	508.6	495.2	515.4	518.7
21211.1	47.5°	18822.9	14002.7	2031.2	1232.9	949.9	778.1	501.9	471.6	495.2	498.5
23548.8	50°	20257.9	14605.6	2051.4	1175.6	896.0	778.1	505.3	448.0	468.2	478.3
25974.1	52.5°	21702.9	14881.8	2037.9	1051.0	801.7	731.0	505.3	427.8	448.0	454.7
28594.8	55°	23104.2	14827.9	1832.4	865.7	680.4	646.7	491.8	411.0	424.4	427.8
31070.6	57.5°	24212.4	14076.8	1451.8	673.7	552.4	539.0	448.0	390.7	400.8	397.5
33340.9	60°	24791.8	12426.2	1037.5	518.7	434.5	424.4	394.1	363.8	370.5	353.7
35264.3	62.5°	24798.5	10243.5	693.9	411.0	347.0	336.8	336.8	326.7	320.0	286.3
36753.2	65°	24269.7	7821.5	461.5	326.7	279.6	262.7	282.9	279.6	256.0	208.8
37207.9	67.5°	23070.5	5126.8	350.3	256.0	215.6	205.5	225.7	235.8	218.9	175.2
35550.6	70°	20604.8	2984.4	289.7	198.7	161.7	151.6	181.9	202.1	181.9	141.5
30386.8	72.5°	17115.1	1610.1	235.8	148.2	111.2	101.1	144.8	165.1	144.8	104.4
19496.6	75°	11105.8	862.3	181.9	97.7	57.3	64.0	107.8	121.3	101.1	67.4
5723.0	77.5°	3728.9	380.6	114.5	47.2	26.9	26.9	64.0	74.1	47.2	23.6
1040.9	80°	832.0	158.3	47.2	20.2	10.1	10.1	13.5	13.5	6.7	0.0
320.0	82.5°	272.8	64.0	20.2	6.7	0.0	0.0	0.0	0.0	0.0	0.0
80.8	85°	104.4	23.6	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26.9	87.5°	40.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
8320.1
8208.9
7218.6
5743.2
3856.9
2320.9
1721.3
1613.5
1539.4
1438.3
1307.0
1179.0
1047.6
892.6
747.8
636.6
579.4
545.7
522.1
501.9
481.7
454.7
427.8
397.5
350.3
276.2
202.1
171.8
134.7
101.1
60.6
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