

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: P957217

Luminaire Tested: **GALN-SB9C-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66983 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

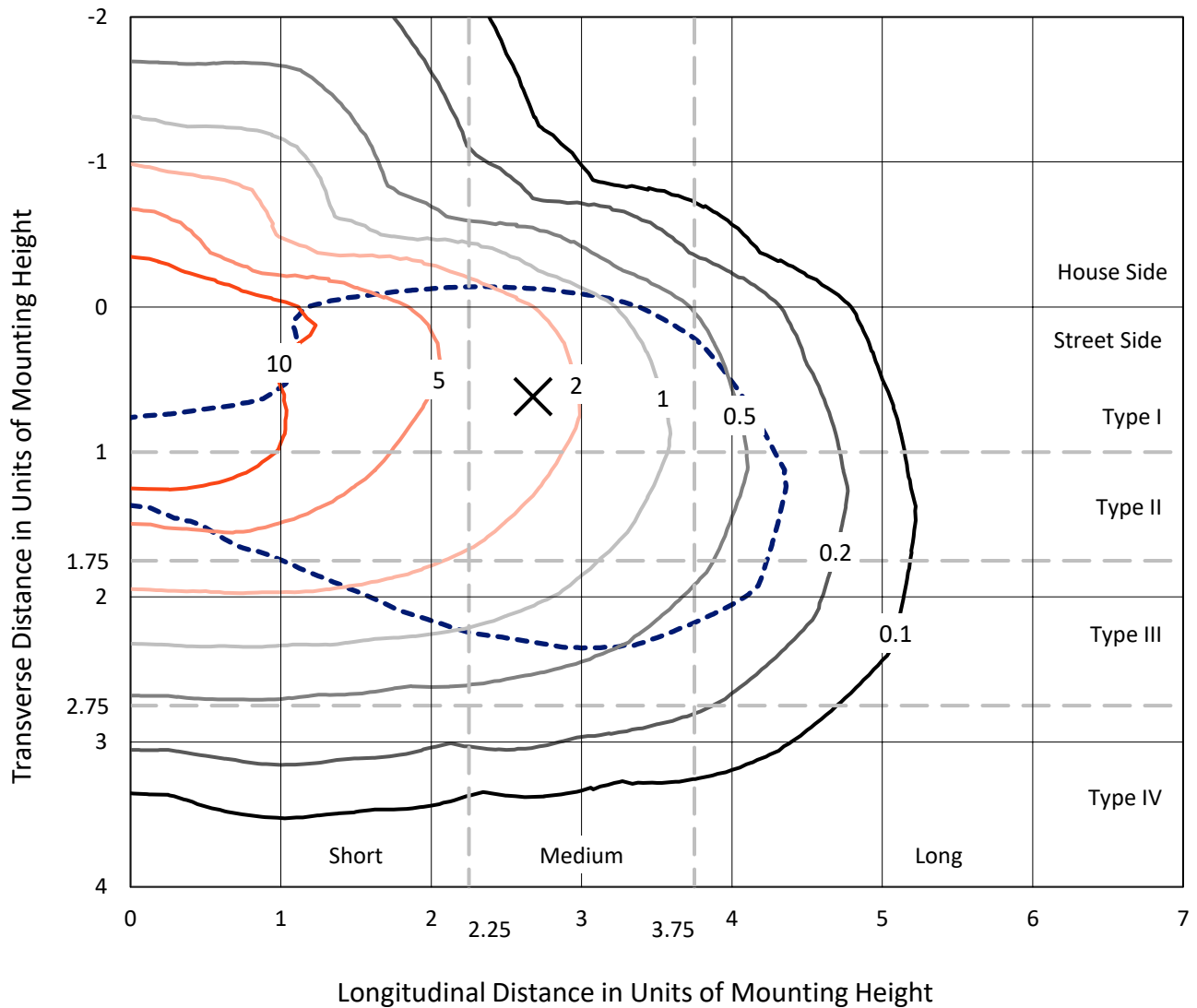
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

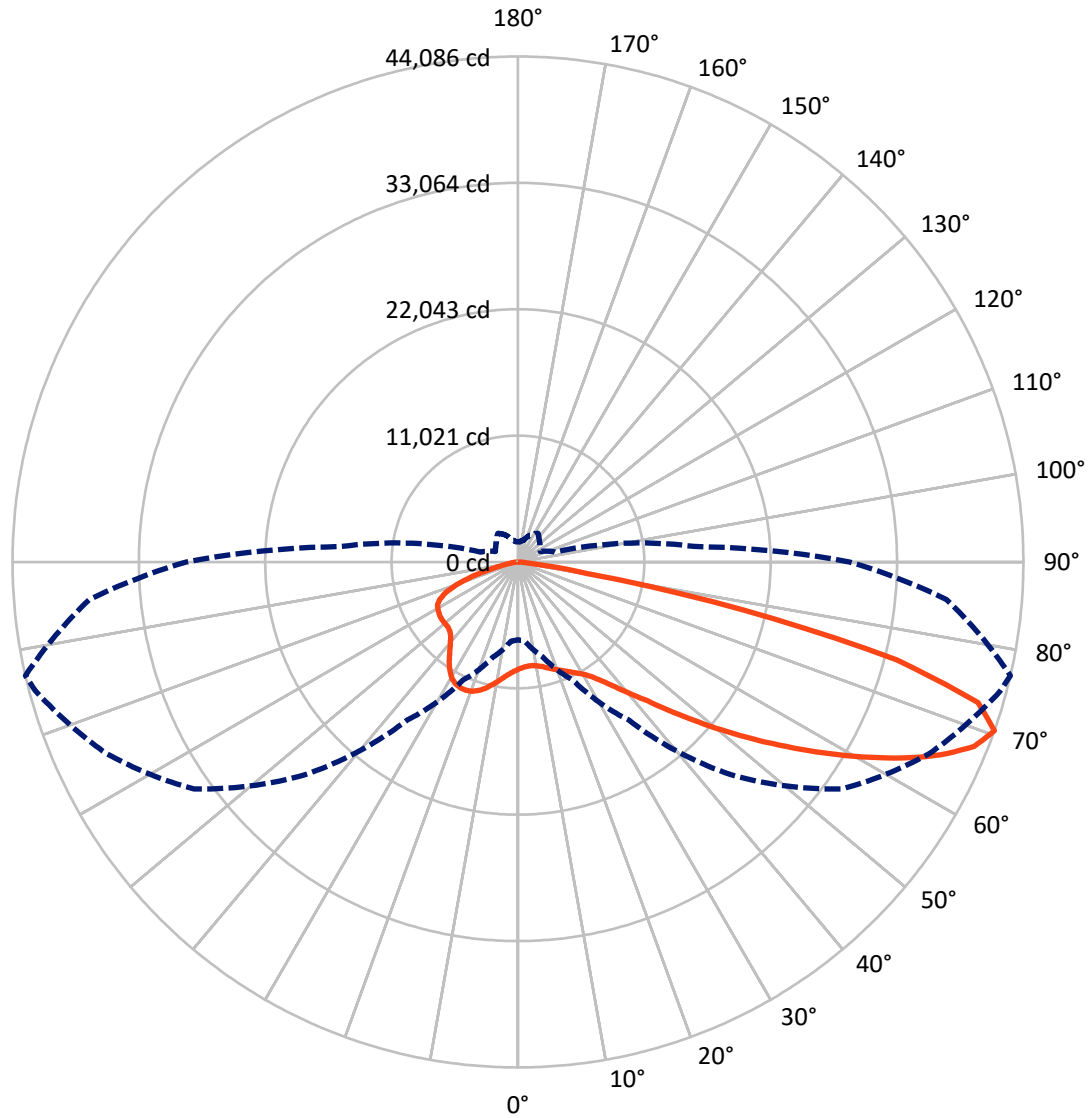
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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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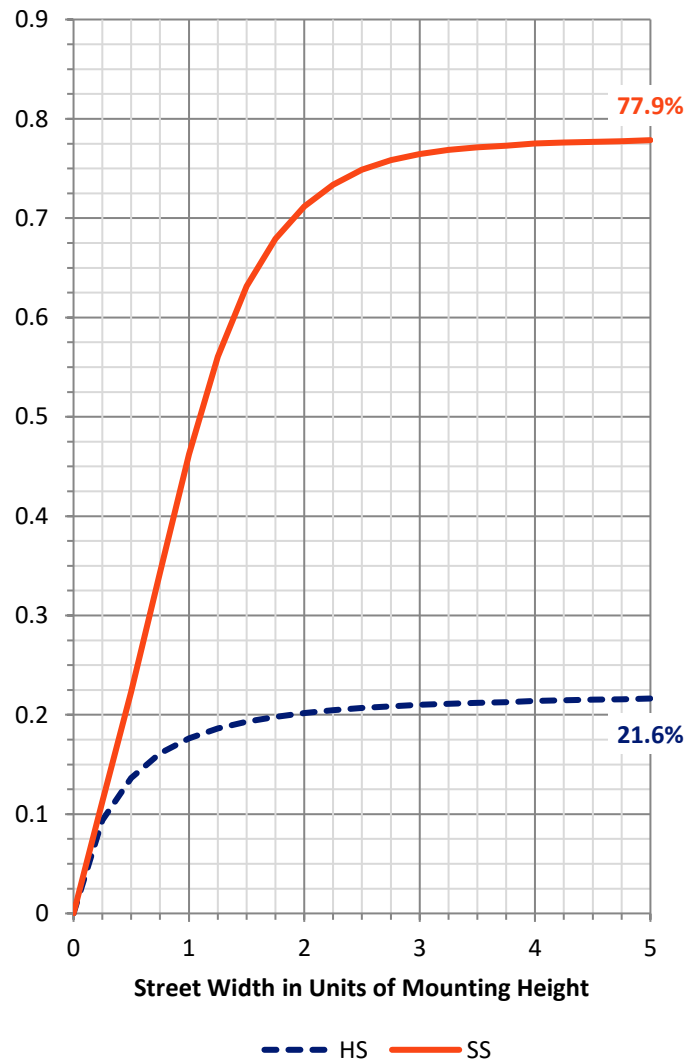
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14668.2	0.0	14668.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	52314.8	0.0	52314.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	66983.0	0.0	66983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.2	1.3
10°-20°	2572.2	3.8
20°-30°	4398.8	6.6
30°-40°	7073.7	10.6
40°-50°	11044.0	16.5
50°-60°	14752.1	22.0
60°-70°	15723.5	23.5
70°-80°	9679.3	14.5
80°-90°	848.2	1.3
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°	66983.0	100.0
0°-180°	66983.0	100.0

Coefficient of Utilization



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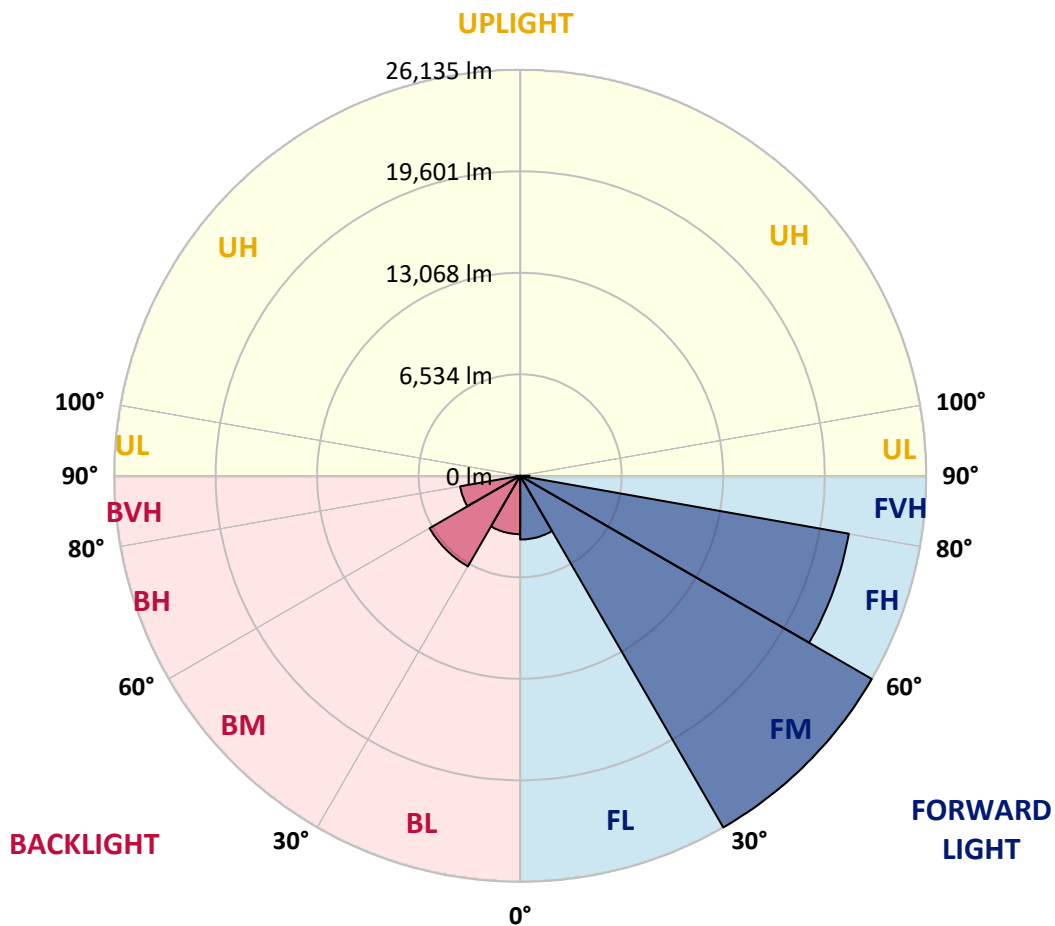
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4103.8	6.1			
FM (30°-60°)	26135.3	39.0			
FH (60°-80°)	21482.6	32.1			G5
FVH (80°-90°)	593.1	0.9			G4/750
BL (0°-30°)	3758.5	5.6	B4/5000		
BM (30°-60°)	6734.5	10.1	B4/8500		
BH (60°-80°)	3920.2	5.9	B4/5000		G4/5000
BVH (80°-90°)	255.1	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	9344.7	9344.7	9344.7	9344.7	9344.7	9344.7	9344.7	9344.7	9344.7	9344.7
2.5°	8614.0	8610.6	8655.2	8668.9	8751.3	8809.6	8919.4	9036.0	9186.9	9204.1
5°	8116.6	8116.6	8168.1	8223.0	8329.3	8445.9	8614.0	8816.4	9077.2	9118.3
7.5°	7694.7	7722.1	7766.7	7873.0	7996.5	8164.6	8421.9	8710.1	9053.1	9118.3
10°	7355.0	7385.9	7440.8	7526.6	7711.8	7945.1	8281.3	8651.8	9111.5	9214.4
12.5°	7248.7	7279.6	7310.4	7375.6	7547.1	7821.6	8223.0	8679.2	9252.1	9355.0
15°	7495.7	7533.4	7509.4	7492.3	7581.5	7831.9	8250.4	8778.7	9427.1	9574.6
17.5°	8065.2	8078.9	8024.0	7862.8	7849.0	7982.8	8380.8	8915.9	9646.6	9807.9
20°	8984.5	8960.5	8847.3	8528.3	8346.5	8319.0	8603.7	9121.8	9873.0	10044.6
22.5°	10233.2	10205.8	9979.4	9475.1	9070.3	8802.7	8926.2	9389.3	10126.9	10319.0
25°	11790.7	11753.0	11420.2	10734.1	10106.3	9444.2	9365.3	9742.7	10439.1	10617.5
27.5°	13608.9	13578.0	13217.8	12312.1	11406.5	10322.4	9910.8	10157.8	10765.0	10967.4
30°	15564.3	15653.5	15015.4	14041.1	12895.3	11468.2	10644.9	10668.9	11186.9	11368.7
32.5°	17862.7	18017.1	17248.7	16013.7	14449.4	12713.5	11571.1	11382.5	11801.0	11951.9
35°	20140.6	20315.5	19677.5	18312.1	16511.1	14181.8	12538.6	12202.4	12617.5	12782.1
37.5°	22109.7	22343.0	22013.7	20826.7	18716.9	15951.9	13801.0	13166.3	13622.6	13828.4
40°	23663.7	24020.5	23996.5	23255.5	21317.3	18099.4	15403.0	14356.7	14871.3	15094.3
42.5°	24926.2	25234.9	25502.5	25464.8	24030.8	20538.5	17286.4	15903.9	16295.0	16552.3
45°	25797.5	26126.8	26703.2	27324.1	26641.4	23149.2	19444.2	17739.2	18096.0	18483.6
47.5°	26576.2	26950.2	27698.0	28682.6	28857.5	25770.1	21807.8	19876.4	20202.3	20603.7
50°	26644.9	26967.3	28126.8	29523.1	30432.2	28288.1	24346.4	22274.4	22579.7	23008.5
52.5°	24987.9	25495.6	27519.6	29499.1	31156.0	30394.4	26867.8	24768.4	25111.4	25626.0
55°	19396.2	20140.6	25739.2	28579.7	30898.7	31756.3	29265.8	27420.2	27859.3	28397.9
57.5°	16706.6	17032.5	20432.2	26905.6	29725.5	32109.7	31289.8	30099.4	30806.1	31396.1
60°	15015.4	15286.4	17296.7	24301.8	28181.7	31550.5	32854.1	32596.8	33818.1	34521.3
62.5°	13204.1	13461.4	15289.8	20291.5	26205.8	30620.8	33842.1	34902.1	36905.5	37674.0
65°	11406.5	11626.0	13379.0	17049.7	23694.6	29691.2	34353.2	36895.3	39763.2	40559.1
67.5°	9403.1	9584.9	11241.8	14384.2	20641.4	28418.4	34607.1	38463.0	42250.3	42933.0
70°	6785.6	6926.2	8638.1	11375.6	16809.6	26229.8	34504.2	39574.5	43540.2	44085.6
72.5°	3207.5	3334.5	5344.8	7385.9	11873.0	21969.1	32421.9	38692.8	42229.7	41958.7
75°	1711.8	1821.6	3070.3	4051.4	6271.0	15060.0	26531.7	33330.9	35461.3	34144.0
77.5°	1159.5	1245.3	1900.5	2432.2	2864.5	7149.2	17053.1	23077.1	22202.3	20027.4
80°	919.4	1008.6	1557.5	1646.7	1385.9	2583.2	7046.3	10682.6	7674.1	6137.2
82.5°	706.7	806.2	1310.5	1193.8	754.7	1060.0	2051.5	3379.1	1965.7	1495.7
85°	432.2	538.6	1029.2	761.6	425.4	483.7	696.4	940.0	600.3	500.9
87.5°	219.6	308.7	521.4	277.9	192.1	113.2	185.2	185.2	157.8	137.2
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°
9344.7	0°	9344.7	9344.7	9344.7	9344.7	9344.7	9344.7	9344.7	9344.7	9344.7	9344.7
9296.7	2.5°	9379.0	9447.7	9564.3	9674.1	9759.8	9842.2	9924.5	9969.1	9982.8	10037.7
9348.2	5°	9488.8	9615.8	9842.2	10054.9	10188.6	10271.0	10329.3	10363.6	10370.5	10387.6
9488.8	7.5°	9691.2	9893.6	10209.2	10421.9	10521.4	10514.5	10490.5	10404.8	10370.5	10339.6
9694.7	10°	9976.0	10243.5	10631.2	10778.7	10716.9	10552.3	10339.6	10089.2	9972.5	9859.3
9976.0	12.5°	10329.3	10668.9	11049.7	11042.8	10737.5	10315.6	9821.6	9437.4	9193.8	9018.8
10322.4	15°	10758.1	11149.2	11440.8	11207.5	10538.6	9780.4	9056.6	8555.7	8336.2	8144.1
10672.4	17.5°	11200.7	11619.2	11753.0	11156.1	10037.7	8988.0	8168.1	7773.6	7557.4	7454.5
11049.7	20°	11632.9	12048.0	11938.2	10861.0	9276.1	8089.2	7358.5	7142.3	7097.7	7121.8
11416.8	22.5°	12089.2	12459.7	11975.9	10291.6	8305.3	7169.8	6768.4	6775.3	6874.8	6946.8
11801.0	25°	12555.7	12806.1	11876.5	9468.2	7262.4	6494.0	6394.5	6504.3	6699.8	6840.5
12233.2	27.5°	13005.1	13114.9	11660.3	8449.4	6367.0	6010.3	6027.4	6253.8	6548.9	6744.4
12758.1	30°	13512.8	13389.3	11245.2	7303.6	5746.1	5595.2	5739.3	6003.4	6298.4	6473.4
13420.2	32.5°	14085.7	13626.0	10586.6	6243.5	5307.0	5262.4	5499.1	5670.7	5801.0	5852.5
14298.4	35°	14799.3	13958.8	9742.7	5499.1	4912.5	5018.9	5245.3	5159.5	5108.0	5080.6
15478.5	37.5°	15725.5	14408.2	8754.7	5015.4	4593.5	4843.9	4936.5	4668.9	4466.5	4367.1
16909.0	40°	16840.4	15066.8	7804.4	4641.5	4391.1	4693.0	4531.7	4209.2	3952.0	3811.3
18518.0	42.5°	18078.8	15756.4	7005.1	4360.2	4277.9	4569.5	4233.3	3849.0	3434.0	3389.4
20435.6	45°	19379.0	16466.5	6459.7	4144.1	4223.0	4463.1	4061.7	3440.8	3145.8	3327.6
22360.1	47.5°	20679.2	17118.3	6130.3	3982.8	4195.5	4343.0	3910.8	3214.4	3005.1	3269.3
24421.9	50°	22126.9	17701.5	5982.8	3866.2	4164.7	4295.0	3684.4	3156.1	2857.6	3032.6
26555.7	52.5°	23564.2	18154.3	5873.1	3749.6	4120.1	4257.3	3574.6	3087.5	2679.2	2689.5
28703.2	55°	24998.2	18449.3	5753.0	3595.2	4020.6	4174.9	3564.3	3012.0	2545.4	2497.4
30974.2	57.5°	26528.2	18617.4	5605.5	3423.7	3849.0	3965.7	3554.0	2953.7	2504.3	2425.4
33296.6	60°	28085.7	18864.4	5413.4	3214.4	3619.2	3715.3	3530.0	2933.1	2480.3	2346.5
35485.3	62.5°	29481.9	18950.2	5183.5	3015.4	3324.2	3468.3	3478.5	2915.9	2415.1	2185.2
37303.5	65°	30397.8	18579.7	4782.1	2789.0	3005.1	3214.4	3379.1	2857.6	2298.4	2068.6
38202.3	67.5°	30360.1	17523.1	4154.4	2497.4	2696.4	2933.1	3235.0	2758.1	2157.8	1924.5
37523.0	70°	28946.7	15437.3	3358.5	2157.8	2356.8	2631.2	3049.7	2610.6	1989.7	1766.7
33365.2	72.5°	24826.7	12082.3	2439.1	1759.9	1962.3	2319.0	2809.6	2432.2	1818.2	1626.1
24658.6	75°	17735.8	7646.6	1653.5	1351.6	1526.6	1965.7	2511.1	2223.0	1660.4	1632.9
12349.9	77.5°	9060.0	3653.5	1094.3	988.0	1063.5	1550.6	2109.8	1986.3	1684.4	1348.2
3512.9	80°	2946.8	1348.2	689.5	672.4	706.7	1032.6	1632.9	1629.5	1276.2	915.9
850.8	82.5°	940.0	579.8	449.4	432.2	415.1	648.4	1138.9	1289.9	861.1	579.8
305.3	85°	373.9	346.5	264.2	243.6	175.0	305.3	596.9	857.6	641.5	418.5
78.9	87.5°	137.2	137.2	72.0	51.5	37.7	102.9	161.2	257.3	367.1	216.1
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>
9344.7
10068.6
10415.1
10346.5
9825.0
8977.7
8123.5
7485.4
7111.5
6964.0
6878.2
6792.4
6514.6
5879.9
5108.0
4391.1
3821.6
3434.0
3423.7
3392.8
3162.9
2761.6
2531.7
2435.7
2356.8
2185.2
2068.6
1934.8
1787.3
1615.8
1540.3
1200.7
809.6
576.3
428.8
212.7
0.0

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