

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: P939045

Luminaire Tested: **GALN-SB1B-950-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-950-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3883 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

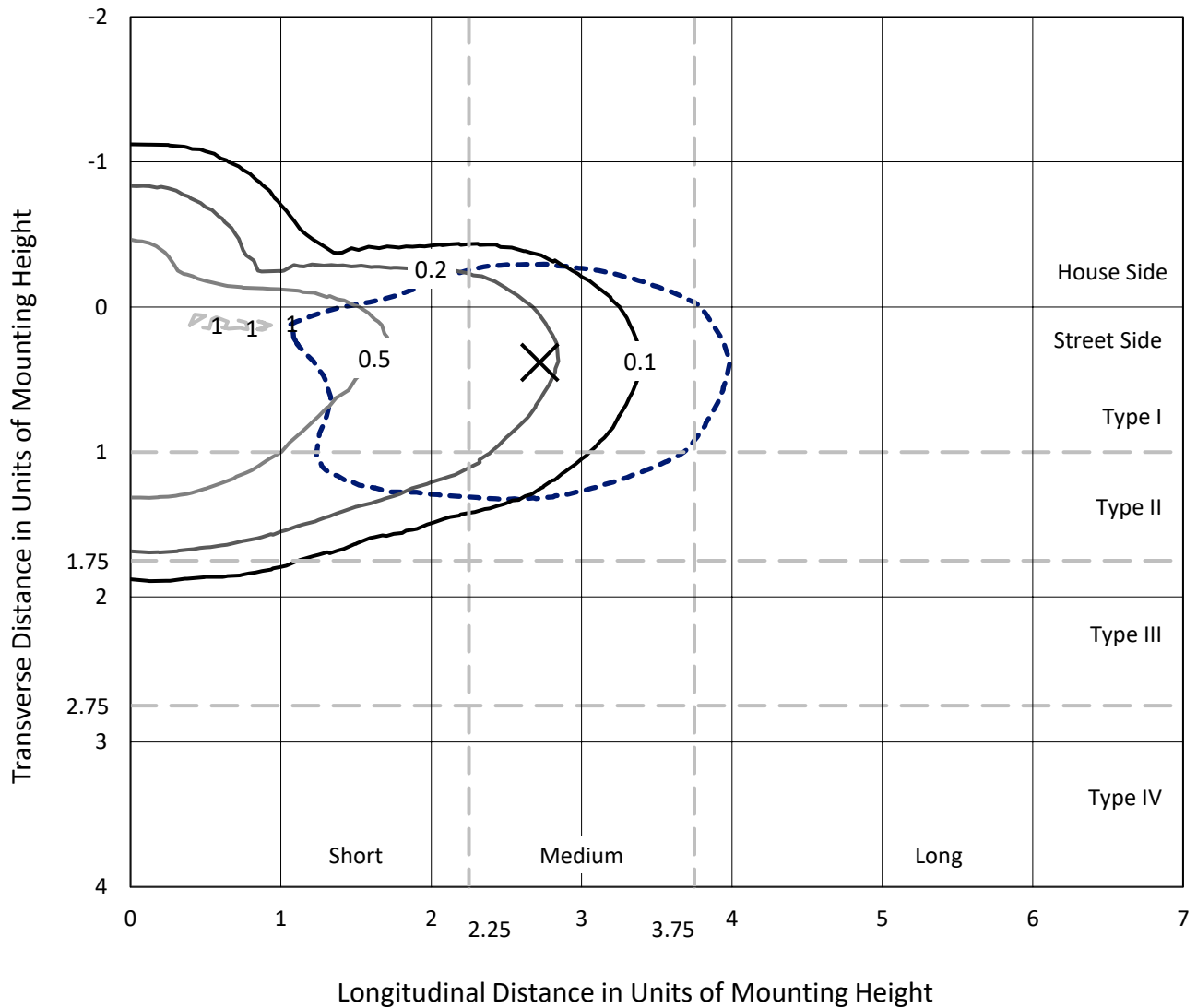
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

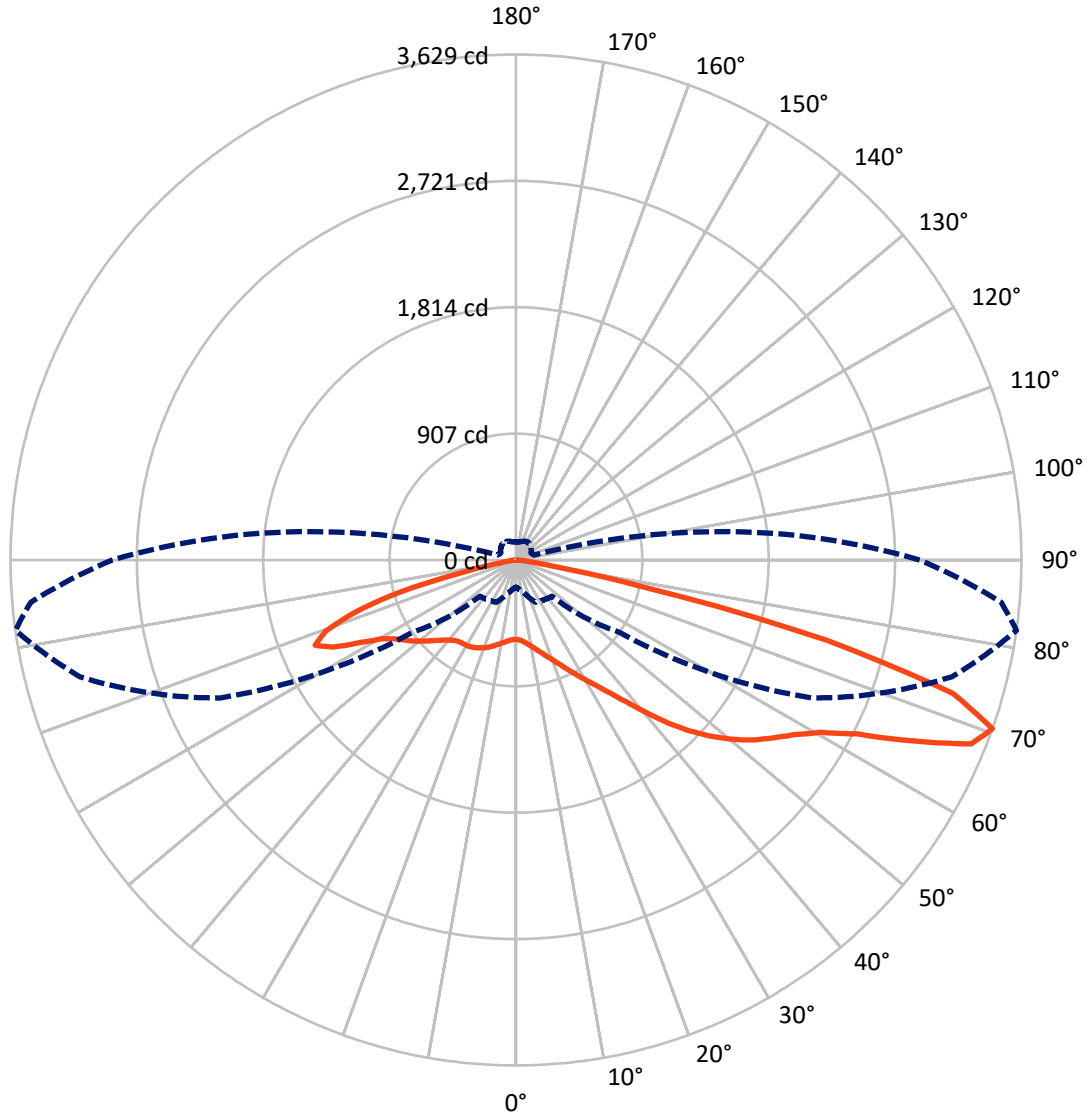
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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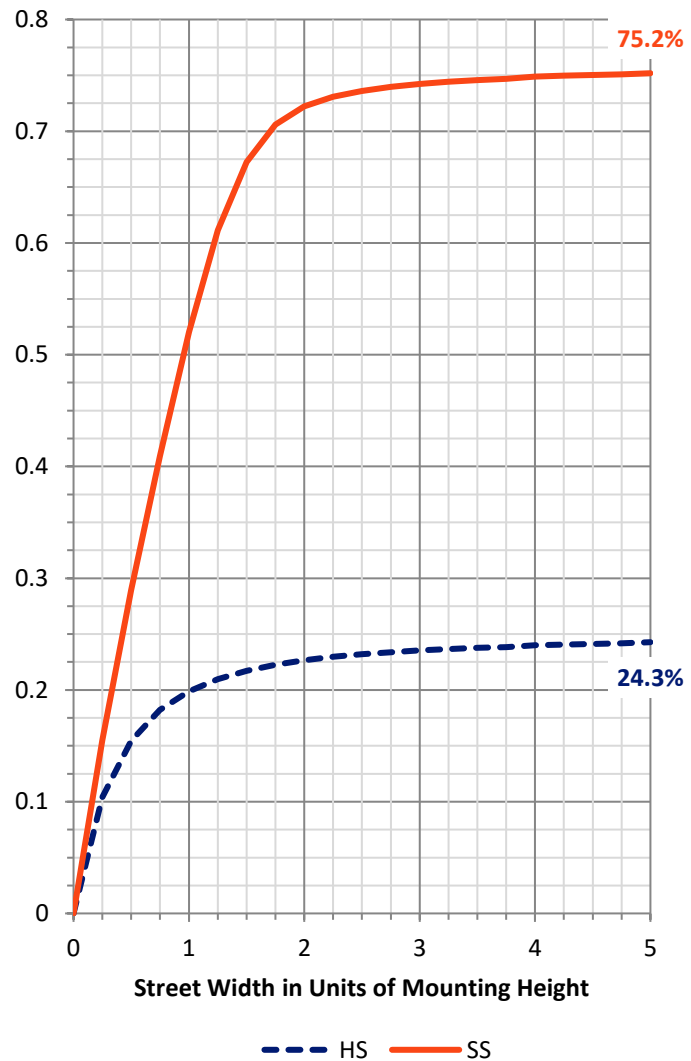
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	957.3	0.0	957.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	2925.7	0.0	2925.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	3883.0	0.0	3883.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.8	1.4
10°-20°	154.4	4.0
20°-30°	258.3	6.7
30°-40°	403.6	10.4
40°-50°	642.8	16.6
50°-60°	894.5	23.0
60°-70°	935.7	24.1
70°-80°	489.1	12.6
80°-90°	50.8	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°	3883.0	100.0
0°-180°	3883.0	100.0



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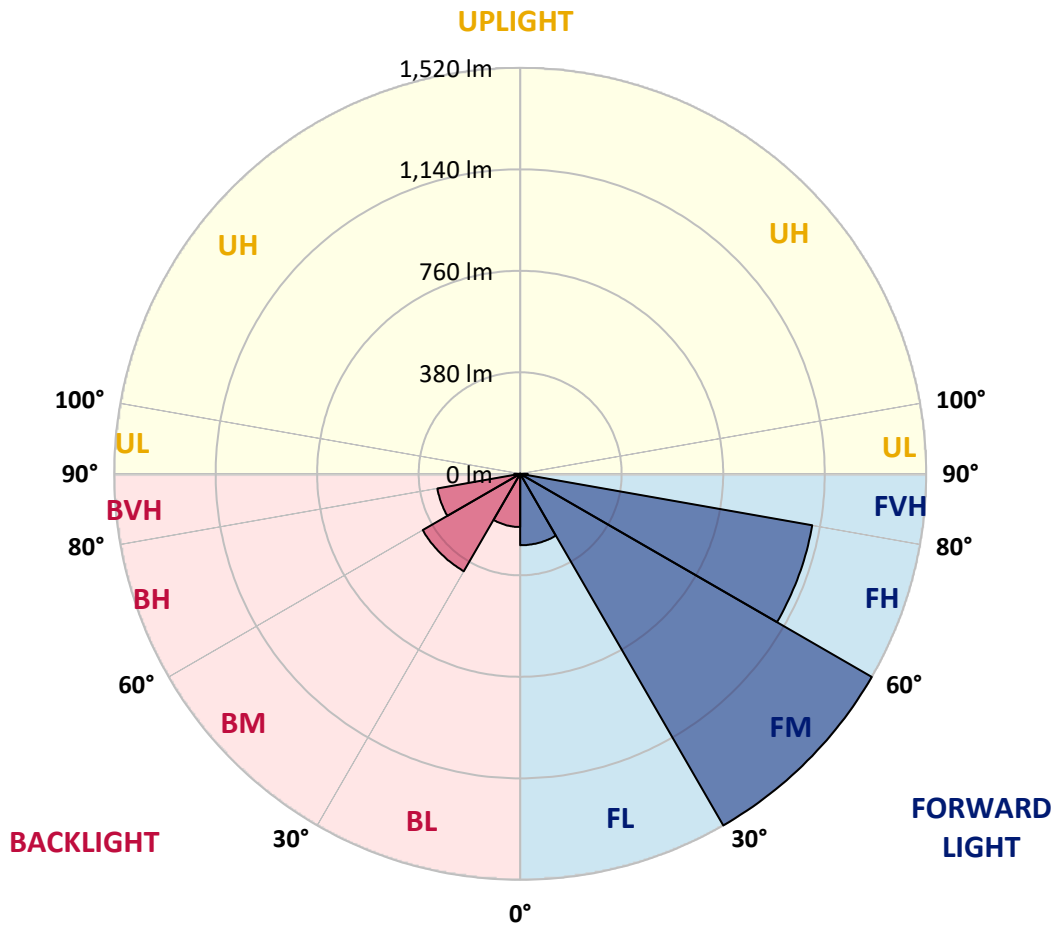
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	267.4	6.9			
FM (30°-60°)	1519.8	39.1			
FH (60°-80°)	1110.2	28.6			G1/1800
FVH (80°-90°)	28.4	0.7			G1/100
BL (0°-30°)	199.1	5.1	B1/500		
BM (30°-60°)	421.2	10.8	B1/1000		
BH (60°-80°)	314.6	8.1	B1/500		G1/500
BVH (80°-90°)	22.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3
2.5°	582.9	586.2	585.2	584.1	584.1	582.7	582.5	580.4	578.8	576.1
5°	590.3	593.8	593.4	594.2	596.9	597.5	598.1	596.9	593.6	590.3
7.5°	583.7	587.6	588.9	593.8	602.1	609.5	615.0	617.3	614.2	609.5
10°	561.5	565.8	570.1	581.9	596.5	614.0	628.8	637.7	637.1	632.6
12.5°	516.3	520.9	530.1	553.0	579.8	610.7	638.3	656.9	663.3	660.0
15°	480.3	484.2	491.2	514.7	549.5	596.5	641.8	677.9	694.2	692.3
17.5°	479.3	480.9	485.2	496.4	523.1	574.2	638.1	698.5	729.6	729.4
20°	497.4	498.0	500.5	502.7	518.0	557.3	628.6	715.6	769.4	769.4
22.5°	522.5	522.1	524.6	522.5	529.9	555.9	622.7	730.6	813.7	817.0
25°	560.2	558.2	557.6	552.8	554.3	569.3	629.3	747.7	866.2	873.0
27.5°	610.5	607.2	604.9	594.0	590.3	596.9	649.4	768.3	924.7	936.5
30°	676.0	670.1	666.8	647.8	634.4	635.4	679.9	795.7	985.9	1004.9
32.5°	765.4	756.2	747.3	716.2	691.7	683.7	719.3	833.6	1052.3	1082.5
35°	865.6	858.2	848.7	800.7	763.0	744.4	772.5	886.6	1129.9	1177.9
37.5°	962.0	955.6	960.2	895.5	846.8	819.8	842.1	957.7	1225.7	1296.6
40°	1061.7	1056.8	1057.4	995.6	938.9	908.6	926.6	1046.9	1335.6	1437.8
42.5°	1170.1	1166.4	1154.0	1099.2	1035.6	1007.3	1023.8	1149.9	1453.4	1598.5
45°	1291.5	1289.2	1277.7	1214.8	1141.9	1110.2	1132.4	1263.7	1571.9	1749.7
47.5°	1396.4	1398.2	1396.8	1343.8	1268.2	1221.6	1248.2	1382.3	1682.1	1891.9
50°	1446.8	1456.5	1470.7	1454.3	1407.3	1359.9	1365.0	1496.9	1787.2	2025.2
52.5°	1420.5	1438.8	1477.5	1503.9	1522.0	1512.1	1498.3	1610.6	1886.1	2145.5
55°	1322.2	1347.9	1412.2	1475.9	1568.4	1640.3	1658.4	1736.7	1982.5	2251.4
57.5°	1143.1	1185.0	1242.6	1371.4	1527.2	1702.3	1845.1	1911.7	2084.7	2364.5
60°	836.1	892.2	963.9	1155.5	1383.0	1669.2	2004.0	2180.3	2230.0	2511.0
62.5°	535.1	569.7	635.6	816.1	1077.6	1499.2	2052.6	2516.2	2476.2	2751.3
65°	366.3	388.6	449.0	550.3	696.6	1115.9	1922.4	2768.0	2867.3	3132.1
67.5°	266.2	283.1	334.6	423.4	453.9	660.4	1491.8	2756.4	3247.4	3524.4
70°	194.1	206.0	249.3	334.6	349.2	367.4	903.7	2343.1	3239.2	3628.6
72.5°	143.8	152.1	181.1	259.6	282.7	248.1	447.3	1702.9	2783.4	3282.1
75°	104.1	110.2	131.7	198.6	226.2	188.9	223.1	995.2	1941.5	2308.7
77.5°	79.5	84.3	98.3	145.5	181.1	141.8	138.5	457.8	920.6	925.1
80°	63.9	67.0	74.6	102.4	138.9	106.1	90.2	184.8	290.9	246.2
82.5°	47.0	52.1	63.0	71.9	99.3	73.1	55.0	93.3	110.6	95.2
85°	26.8	30.3	38.1	51.5	63.5	44.7	31.5	41.4	51.5	42.2
87.5°	9.5	12.4	13.4	20.2	27.6	18.5	12.2	12.0	16.9	12.6
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°
569.3	0°	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3
575.5	2.5°	573.4	572.4	568.3	562.7	556.9	551.4	549.5	545.6	542.9	541.5
588.9	5°	585.0	581.7	572.0	559.6	546.6	532.6	522.7	513.7	507.1	500.9
607.2	7.5°	601.4	595.7	579.0	557.3	534.3	511.0	493.7	480.5	471.6	465.9
628.6	10°	620.6	611.7	586.2	553.8	518.2	484.8	464.4	453.1	447.5	444.4
653.2	12.5°	642.6	630.1	593.6	545.8	493.7	455.6	441.5	438.3	438.5	438.7
684.1	15°	669.8	652.3	599.6	528.3	461.7	433.1	430.6	436.0	441.5	444.2
719.1	17.5°	700.5	675.8	600.6	499.4	430.4	418.7	426.5	438.0	446.5	450.2
758.2	20°	733.5	699.7	593.2	458.7	404.7	406.9	420.9	435.8	445.1	449.8
802.9	22.5°	771.2	725.3	575.5	415.8	383.7	394.2	410.6	425.1	434.8	439.5
855.5	25°	814.3	753.9	547.7	379.7	365.5	379.7	396.2	408.2	416.0	420.3
914.2	27.5°	862.1	783.8	510.6	351.1	349.7	364.9	378.5	387.8	391.9	395.2
976.6	30°	910.1	811.0	465.7	329.5	335.8	350.3	360.0	364.1	365.3	365.9
1046.3	32.5°	962.0	834.5	418.5	311.5	322.7	336.1	341.8	343.7	337.9	334.0
1130.8	35°	1024.9	859.6	372.3	297.3	309.7	321.2	323.1	321.4	314.6	306.6
1236.7	37.5°	1102.5	890.9	335.4	287.2	297.5	305.1	302.9	302.5	303.1	293.6
1364.0	40°	1197.7	931.7	308.4	279.4	287.6	289.3	282.9	286.4	289.5	275.1
1503.7	42.5°	1303.4	981.0	291.3	274.0	279.4	275.5	265.6	269.5	269.1	250.1
1644.0	45°	1411.2	1034.5	285.4	270.1	271.8	263.9	253.0	254.1	245.4	228.3
1778.6	47.5°	1518.3	1092.0	289.1	266.8	262.3	253.4	245.0	240.5	227.7	214.9
1907.5	50°	1623.4	1152.4	302.7	260.2	249.3	244.2	238.0	229.9	216.3	205.4
2029.5	52.5°	1720.9	1213.2	317.9	249.3	233.0	236.1	232.2	222.9	209.5	198.4
2144.9	55°	1813.2	1274.0	323.9	234.3	217.8	229.1	226.9	209.8	193.7	184.6
2265.6	57.5°	1913.7	1347.1	317.3	215.1	205.4	221.1	212.4	193.5	184.2	177.4
2422.9	60°	2053.0	1461.9	303.1	191.4	193.7	209.1	194.3	186.5	176.4	168.7
2658.6	62.5°	2284.4	1676.0	280.2	167.9	179.9	191.4	185.6	177.8	167.5	160.1
3061.6	65°	2626.4	1973.5	237.2	149.6	164.4	174.1	176.4	168.5	157.8	150.0
3414.7	67.5°	2914.9	2160.2	179.5	134.3	148.6	160.1	166.5	158.9	147.5	139.9
3497.4	70°	2899.0	2024.6	137.0	119.3	134.5	146.3	154.5	148.6	136.4	129.2
3176.8	72.5°	2574.9	1693.7	110.9	104.1	120.3	131.9	141.8	137.2	124.9	117.9
2327.3	75°	1891.7	1202.3	88.6	88.6	102.6	116.8	127.7	124.9	113.5	108.6
977.1	77.5°	797.4	504.4	69.4	73.6	85.3	100.3	113.9	115.0	105.1	111.3
258.4	80°	212.0	139.1	53.0	57.9	67.0	82.8	99.1	98.7	88.0	82.2
96.0	82.5°	80.8	54.8	37.7	40.8	48.4	63.5	78.5	81.0	70.3	60.8
37.7	85°	31.1	23.5	23.3	24.5	28.2	42.0	59.3	61.4	53.0	44.9
10.5	87.5°	8.0	7.0	8.7	8.2	13.0	22.5	34.0	35.2	32.3	18.7
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>
569.3
543.1
503.4
467.1
445.3
439.1
444.0
451.0
451.0
440.7
421.6
396.4
367.4
335.2
307.0
294.2
275.5
249.9
228.9
214.9
204.6
198.6
183.8
176.8
168.3
160.1
150.4
140.1
129.8
117.9
107.1
101.0
76.4
60.8
46.4
26.8
0.0

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