

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: P939039

Luminaire Tested: **GALN-SB1B-940-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-940-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

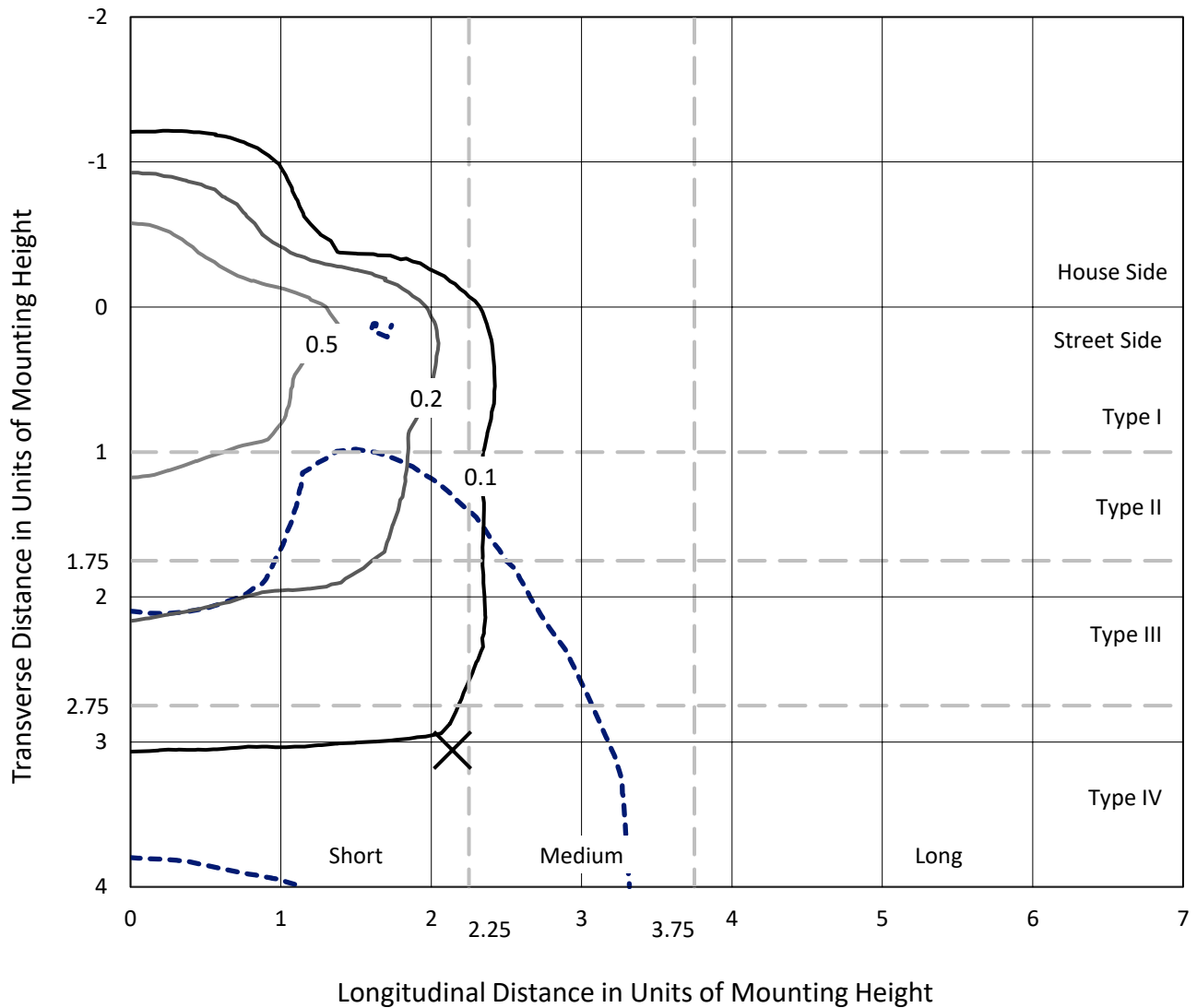
Lumens per Lamp: N/A  
Luminaire Lumens: 4034 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

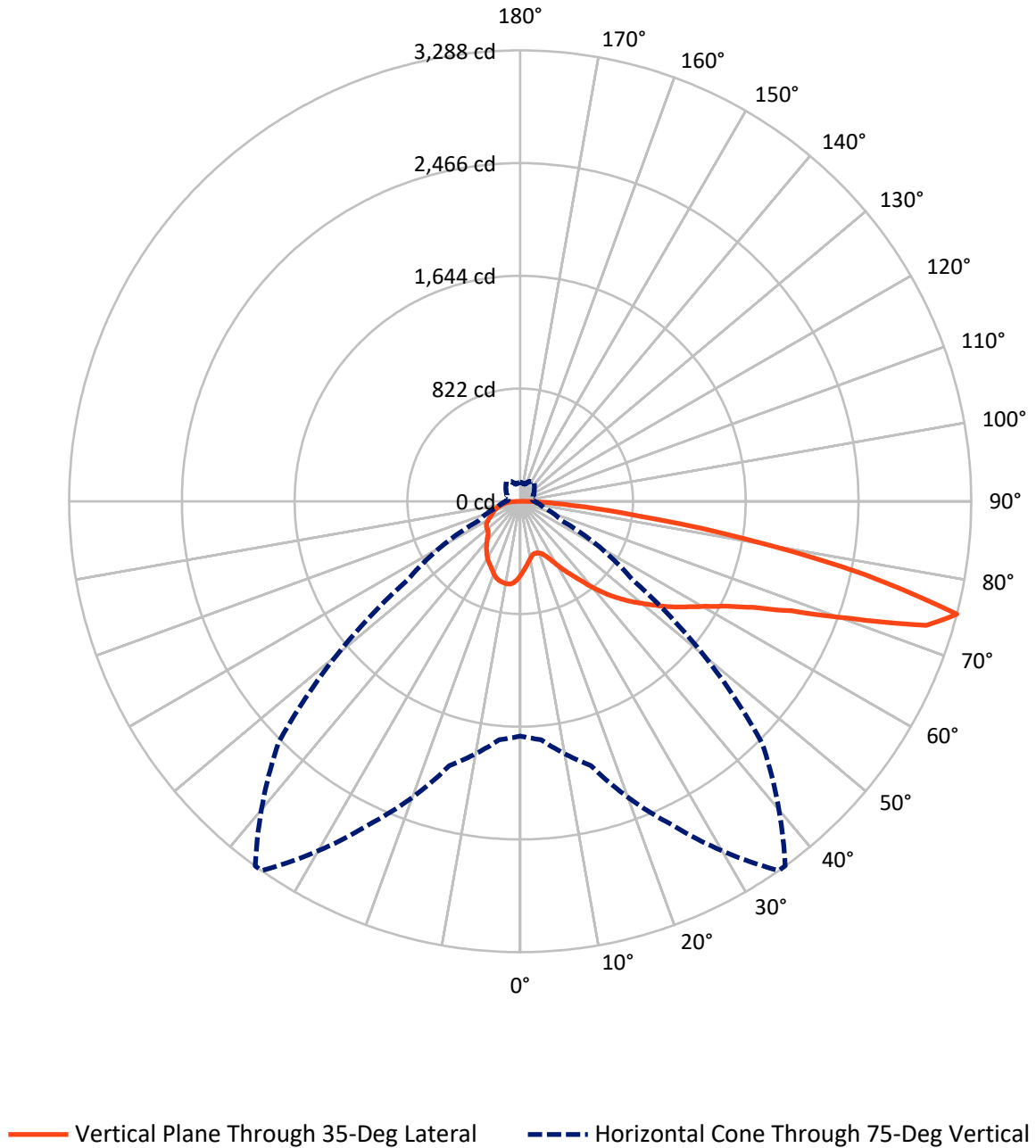
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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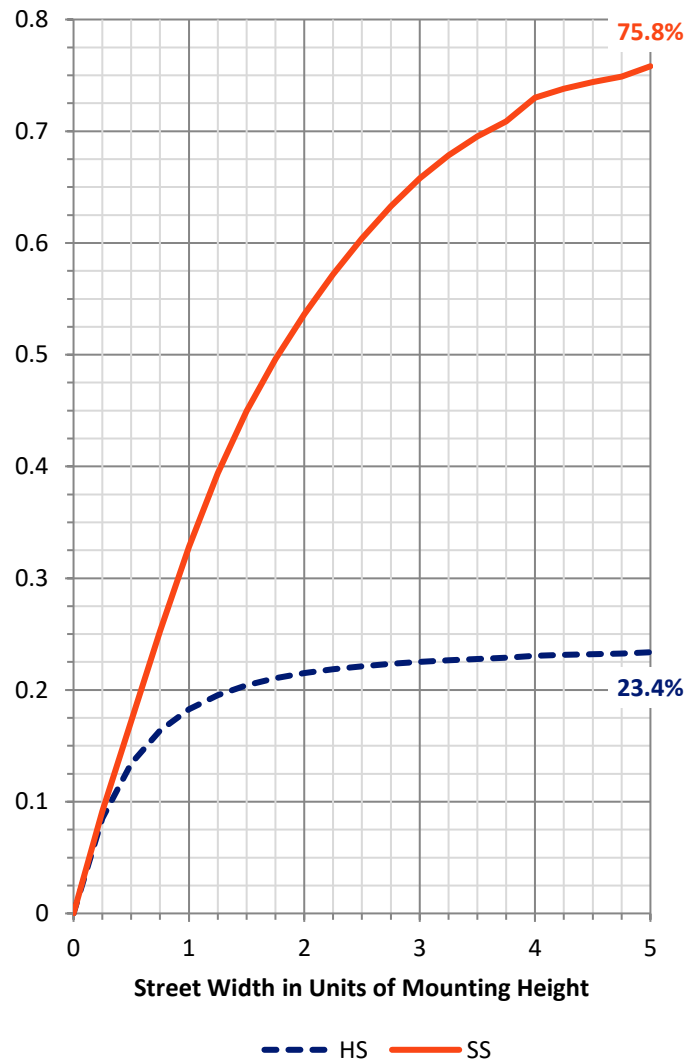
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	960.0	0.0	960.0
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	3074.0	0.0	3074.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	4034.0	0.0	4034.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.9	1.3
10°-20°	146.8	3.6
20°-30°	246.5	6.1
30°-40°	383.1	9.5
40°-50°	568.7	14.1
50°-60°	785.1	19.5
60°-70°	952.5	23.6
70°-80°	787.2	19.5
80°-90°	113.2	2.8
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°	4034.0	100.0
0°-180°	4034.0	100.0



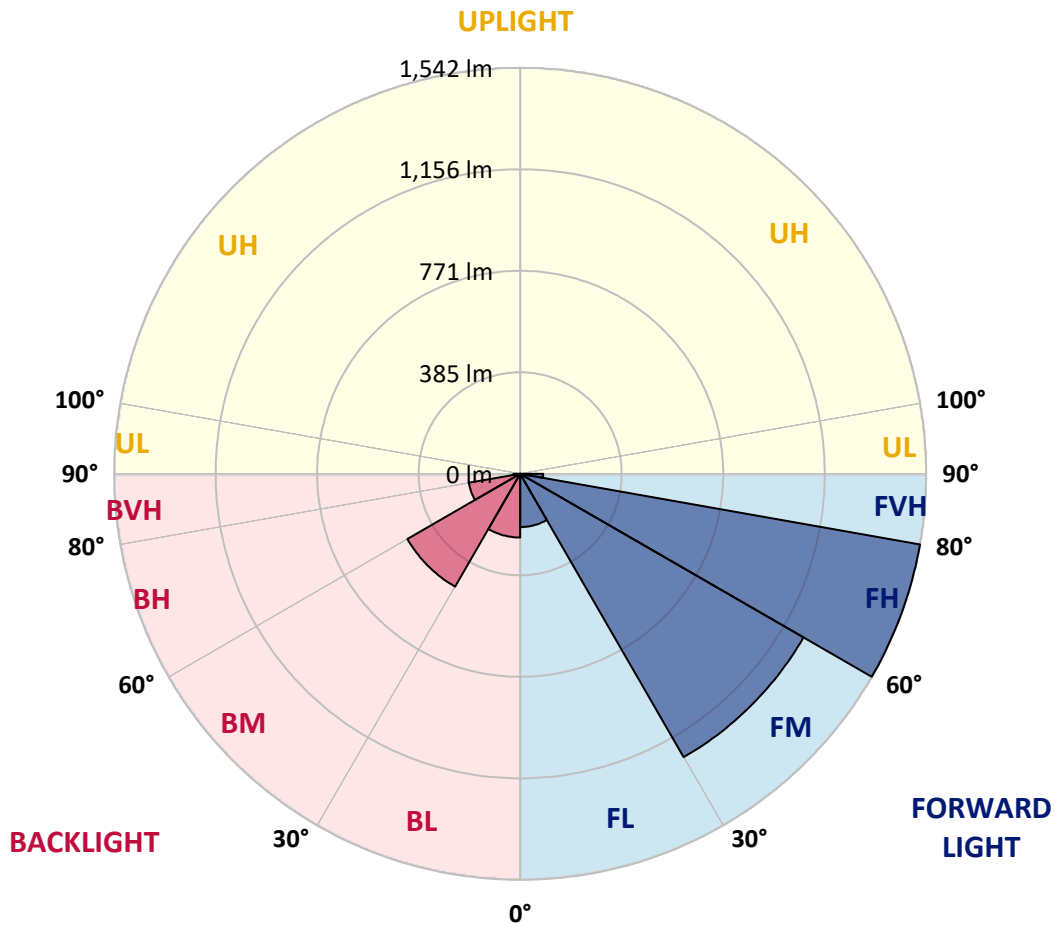
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	202.3	5.0			
FM (30°-60°)	1242.3	30.8			
FH (60°-80°)	1541.7	38.2			G1/1800
FVH (80°-90°)	87.7	2.2			G1/100
BL (0°-30°)	241.9	6.0	B1/500		
BM (30°-60°)	494.6	12.3	B1/1000		
BH (60°-80°)	197.9	4.9	B1/500		G1/500
BVH (80°-90°)	25.5	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6
2.5°	495.7	498.7	500.0	499.4	502.7	502.2	506.8	512.5	520.3	528.0
5°	457.5	460.8	463.6	466.2	472.6	474.5	481.7	492.6	507.0	521.6
7.5°	422.0	424.8	429.2	434.0	444.7	446.6	458.6	475.6	495.7	517.1
10°	393.0	395.8	400.4	405.8	419.1	421.5	436.8	459.5	485.7	512.7
12.5°	380.5	381.4	384.0	389.5	401.0	402.6	419.4	445.3	475.8	509.4
15°	379.9	381.6	381.9	384.7	394.3	394.9	410.4	436.2	469.7	508.8
17.5°	386.4	387.7	385.8	387.5	395.6	396.7	408.9	431.8	467.8	511.6
20°	403.9	405.0	399.1	396.7	402.6	403.4	415.4	434.6	469.7	517.5
22.5°	441.0	441.6	427.2	417.4	417.8	418.3	428.7	446.2	477.4	528.2
25°	498.7	498.3	475.4	456.4	445.5	443.1	450.1	464.9	490.2	542.4
27.5°	566.3	563.1	540.2	511.8	488.1	484.6	483.0	489.4	508.6	561.1
30°	642.7	639.6	615.0	577.9	545.0	539.3	524.9	521.6	535.8	586.6
32.5°	726.4	724.4	695.0	650.1	606.0	599.5	575.3	566.6	577.7	625.2
35°	796.6	794.9	770.5	724.2	670.4	662.3	637.7	627.8	633.5	674.7
37.5°	860.1	859.2	838.3	801.9	746.3	736.4	708.7	705.5	704.4	739.9
40°	919.0	916.8	895.0	875.8	834.6	825.6	801.2	798.4	790.1	820.2
42.5°	984.2	978.5	946.9	937.9	926.8	919.4	904.8	905.2	886.9	910.7
45°	1037.4	1034.1	1001.6	996.4	1008.4	1005.3	1018.0	1021.3	985.7	1005.5
47.5°	1094.5	1091.5	1064.0	1060.3	1092.8	1093.7	1138.4	1139.4	1082.1	1104.1
50°	1165.0	1160.6	1133.3	1137.9	1174.3	1177.6	1259.4	1252.0	1170.9	1204.2
52.5°	1211.4	1214.0	1208.1	1215.6	1265.3	1268.3	1378.5	1359.5	1258.7	1303.0
55°	1245.7	1250.9	1269.2	1286.2	1361.2	1364.3	1490.8	1461.8	1331.6	1394.6
57.5°	1289.7	1282.3	1316.5	1349.7	1452.4	1460.5	1600.0	1560.3	1396.1	1473.5
60°	1352.9	1347.7	1374.3	1423.4	1554.4	1567.3	1715.6	1649.1	1443.4	1536.1
62.5°	1481.2	1468.1	1472.2	1515.6	1683.1	1700.1	1846.0	1726.5	1467.0	1560.6
65°	1672.9	1650.4	1629.5	1659.6	1864.3	1881.1	1993.2	1787.4	1458.3	1513.2
67.5°	1914.3	1892.0	1866.3	1894.6	2131.3	2144.6	2174.9	1821.6	1389.6	1330.9
70°	2113.4	2105.1	2135.8	2252.5	2557.6	2558.0	2407.8	1793.2	1201.4	943.6
72.5°	2087.0	2082.0	2244.0	2604.7	3094.9	3083.4	2628.3	1578.7	809.3	425.7
75°	1712.1	1744.6	1995.6	2598.4	3287.9	3286.4	2493.3	1003.6	334.7	176.4
77.5°	918.1	969.6	1295.6	1918.4	2566.8	2605.4	1752.9	351.1	143.7	113.0
80°	299.4	344.3	516.4	976.8	1667.8	1660.7	751.3	137.8	98.4	80.0
82.5°	127.1	132.4	230.7	461.2	855.9	842.6	239.2	79.2	69.1	54.7
85°	49.7	55.6	101.8	213.3	370.7	362.7	86.4	39.3	44.3	35.8
87.5°	16.4	19.8	36.4	73.1	115.4	111.2	21.2	13.5	19.2	16.4
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°
537.6	0°	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6
539.1	2.5°	542.1	545.6	549.8	555.9	561.1	565.5	570.1	572.9	574.0	577.2
540.0	5°	546.1	553.7	563.9	574.0	583.8	589.7	594.9	597.5	599.9	601.7
542.4	7.5°	552.6	562.4	578.6	591.6	599.9	604.7	608.2	607.3	608.2	608.7
545.0	10°	558.3	572.0	591.2	603.6	610.0	610.2	609.3	606.3	604.7	604.9
548.9	12.5°	565.0	580.3	601.0	611.5	613.2	608.4	604.7	599.5	597.5	596.7
554.8	15°	574.2	591.6	611.7	615.6	611.3	605.2	598.8	590.3	586.0	582.5
564.8	17.5°	585.3	604.5	620.0	617.2	607.8	597.7	587.5	574.6	565.7	562.0
578.6	20°	600.8	618.0	626.3	613.9	599.7	584.4	567.0	551.3	543.0	539.3
596.0	22.5°	619.6	636.1	632.4	608.2	588.2	563.7	541.9	530.4	526.2	523.6
618.5	25°	642.0	656.2	636.8	599.9	569.2	536.2	519.5	515.8	513.8	511.8
645.9	27.5°	671.2	678.9	640.1	587.7	539.5	507.0	500.9	501.6	500.9	497.6
684.1	30°	709.8	708.3	643.1	567.9	505.5	480.6	481.1	483.9	484.3	482.2
737.3	32.5°	760.6	745.2	644.6	542.1	473.0	457.5	458.0	461.0	463.2	459.5
806.9	35°	822.1	788.1	642.2	509.9	447.9	435.5	432.2	433.1	433.8	430.3
891.3	37.5°	893.9	836.3	631.5	474.1	427.2	413.9	406.9	401.0	397.6	394.3
986.8	40°	972.6	888.9	611.9	439.2	404.1	391.0	380.5	369.4	357.6	353.3
1088.0	42.5°	1055.1	943.0	588.2	405.8	377.5	366.8	355.7	339.5	321.9	312.9
1193.1	45°	1140.5	998.4	564.8	372.9	350.2	345.7	332.8	313.4	294.2	282.8
1298.4	47.5°	1224.3	1050.7	530.6	339.8	324.7	329.7	319.7	301.8	280.4	262.6
1402.9	50°	1304.3	1099.8	474.5	306.2	304.0	324.9	315.3	289.6	265.2	242.3
1505.4	52.5°	1383.7	1139.4	402.8	275.6	292.9	323.6	309.7	281.3	251.4	227.5
1601.8	55°	1451.1	1159.9	333.7	249.5	276.7	312.5	302.9	271.5	232.0	206.5
1667.8	57.5°	1489.5	1143.4	276.1	223.7	254.5	294.2	291.3	250.6	208.9	189.3
1680.7	60°	1472.9	1076.2	229.0	201.3	233.3	274.3	271.3	229.9	191.3	172.7
1611.8	62.5°	1381.5	948.2	191.7	181.7	214.2	254.1	251.2	213.9	177.7	159.8
1428.8	65°	1197.5	771.3	162.7	165.3	194.7	229.6	233.8	200.6	167.0	149.6
1105.4	67.5°	913.3	558.7	140.0	151.1	175.8	205.6	217.6	191.0	158.1	141.5
639.6	70°	520.5	317.3	120.8	137.4	159.0	183.4	205.2	183.4	148.5	134.8
239.7	72.5°	197.4	145.7	104.5	123.6	142.8	164.6	191.5	171.4	137.4	127.1
123.9	75°	105.3	88.8	87.9	107.5	124.3	146.3	174.2	159.6	129.1	134.3
85.7	77.5°	71.7	62.8	73.5	92.0	104.0	126.0	155.9	141.7	111.9	111.4
59.3	80°	49.7	44.5	59.8	74.1	80.5	106.0	136.1	121.7	91.2	85.0
36.6	82.5°	29.9	29.0	44.7	55.4	56.9	81.8	112.7	102.1	74.6	65.0
21.8	85°	16.4	17.2	28.6	32.5	33.1	57.1	88.3	78.9	57.4	48.2
7.9	87.5°	4.6	5.9	10.5	12.9	15.9	29.7	52.6	46.9	28.8	20.1
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>
537.6
577.0
602.1
609.3
605.4
596.2
583.6
562.2
538.9
524.0
511.8
498.3
483.3
461.2
432.7
396.5
355.2
314.0
282.0
260.6
240.3
224.8
204.3
186.7
170.1
157.0
146.8
138.9
133.0
125.4
138.7
102.7
81.3
65.4
48.6
20.1
0.0

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