

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: P946591

Luminaire Tested: **GALN-SB2A-940-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946591  
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-SB2A-940-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

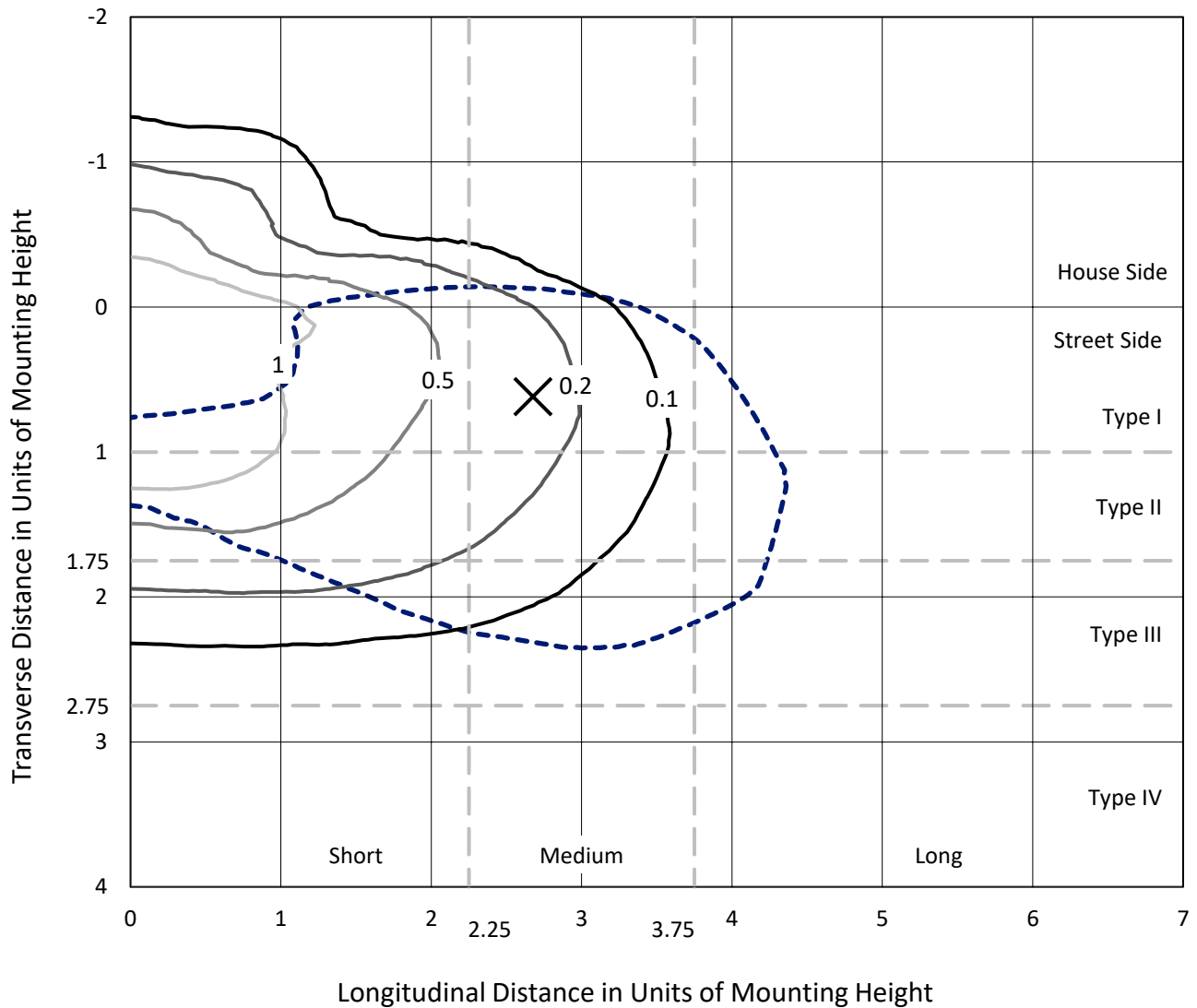
Lumens per Lamp: N/A  
Luminaire Lumens: 6673 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

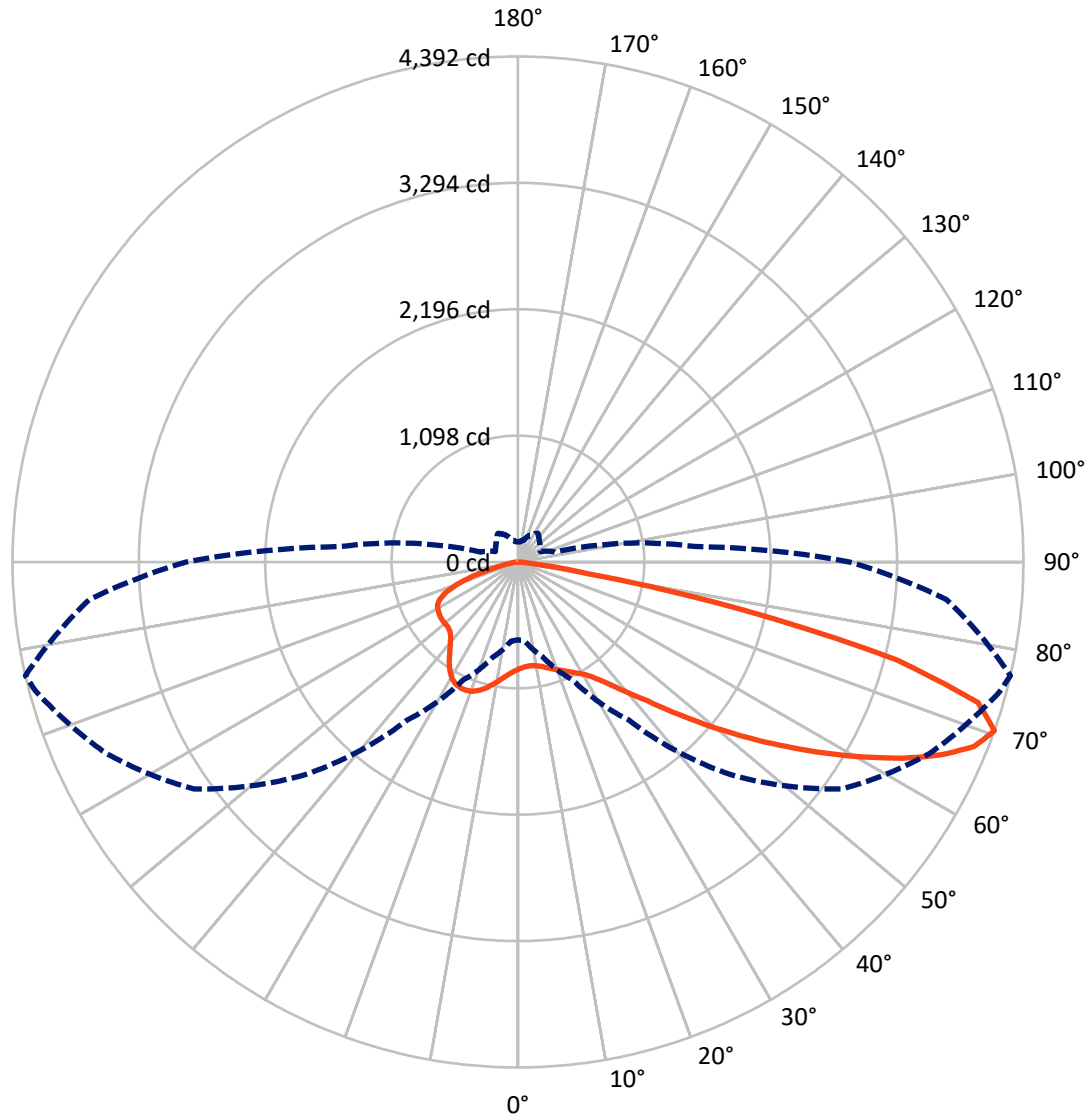
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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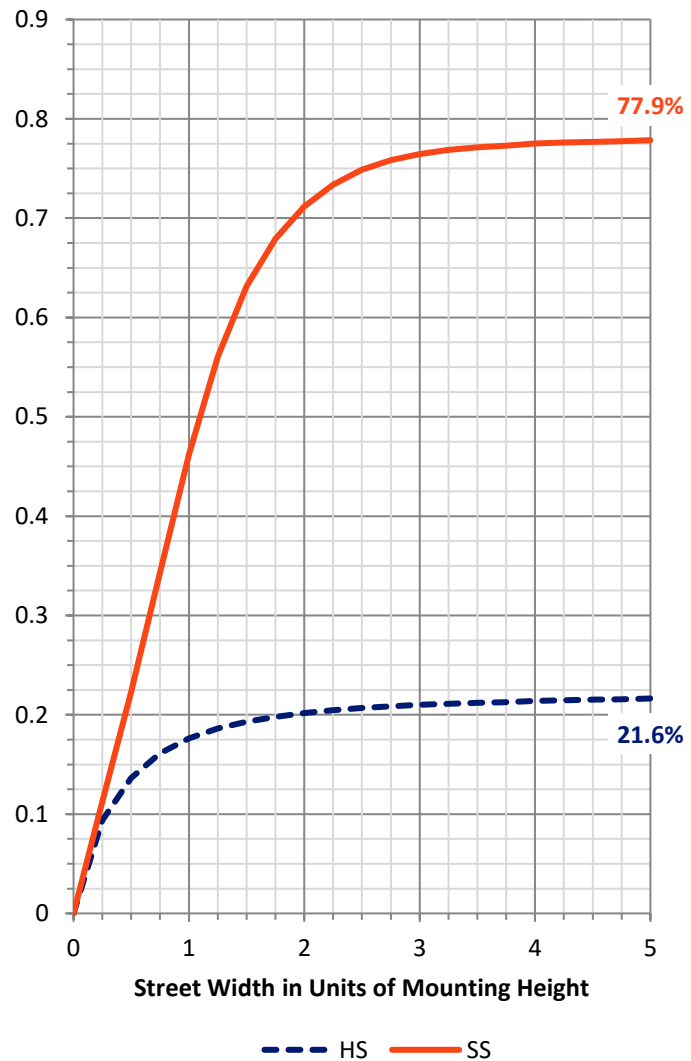
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1461.3	0.0	1461.3
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	5211.7	0.0	5211.7
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	6673.0	0.0	6673.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.8	1.3
10°-20°	256.2	3.8
20°-30°	438.2	6.6
30°-40°	704.7	10.6
40°-50°	1100.2	16.5
50°-60°	1469.6	22.0
60°-70°	1566.4	23.5
70°-80°	964.3	14.5
80°-90°	84.5	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°	6673.0	100.0
0°-180°	6673.0	100.0

**Coefficient of Utilization**



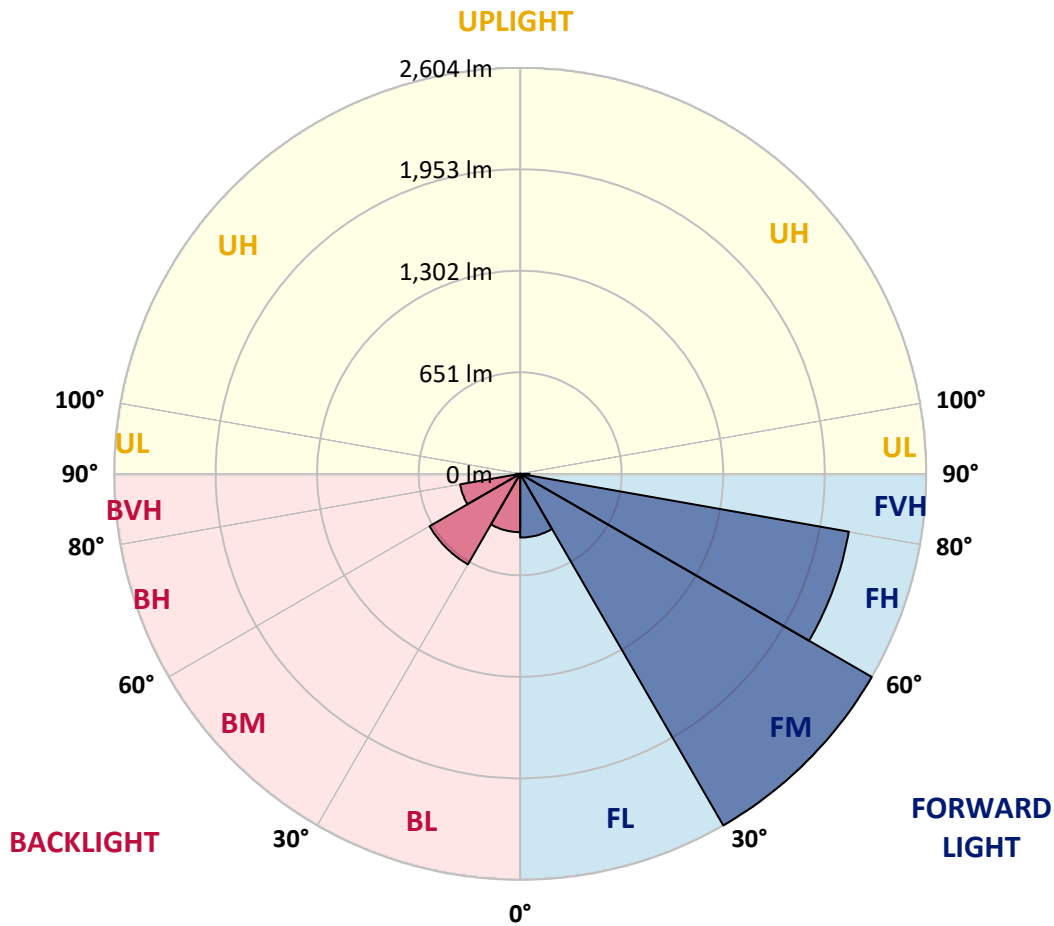
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.8	6.1			
FM (30°-60°)	2603.7	39.0			
FH (60°-80°)	2140.1	32.1			G2/5000
FVH (80°-90°)	59.1	0.9			G1/100
BL (0°-30°)	374.4	5.6	B1/500		
BM (30°-60°)	670.9	10.1	B1/1000		
BH (60°-80°)	390.5	5.9	B1/500		G1/500
BVH (80°-90°)	25.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	930.9	930.9	930.9	930.9	930.9	930.9	930.9	930.9	930.9	930.9
2.5°	858.2	857.8	862.3	863.6	871.8	877.6	888.6	900.2	915.2	916.9
5°	808.6	808.6	813.7	819.2	829.8	841.4	858.2	878.3	904.3	908.4
7.5°	766.6	769.3	773.7	784.3	796.6	813.4	839.0	867.7	901.9	908.4
10°	732.7	735.8	741.3	749.8	768.3	791.5	825.0	861.9	907.7	918.0
12.5°	722.1	725.2	728.3	734.8	751.9	779.2	819.2	864.6	921.7	932.0
15°	746.7	750.5	748.1	746.4	755.3	780.2	821.9	874.6	939.1	953.8
17.5°	803.5	804.8	799.4	783.3	781.9	795.3	834.9	888.2	961.0	977.1
20°	895.1	892.7	881.4	849.6	831.5	828.8	857.1	908.7	983.6	1000.7
22.5°	1019.5	1016.7	994.2	943.9	903.6	876.9	889.3	935.4	1008.9	1028.0
25°	1174.6	1170.9	1137.7	1069.4	1006.8	940.9	933.0	970.6	1040.0	1057.7
27.5°	1355.7	1352.7	1316.8	1226.6	1136.3	1028.3	987.3	1011.9	1072.4	1092.6
30°	1550.5	1559.4	1495.9	1398.8	1284.7	1142.5	1060.5	1062.9	1114.5	1132.6
32.5°	1779.5	1794.9	1718.4	1595.3	1439.5	1266.5	1152.7	1133.9	1175.6	1190.7
35°	2006.5	2023.9	1960.3	1824.3	1644.9	1412.8	1249.1	1215.6	1257.0	1273.4
37.5°	2202.6	2225.9	2193.1	2074.8	1864.6	1589.2	1374.9	1311.7	1357.1	1377.6
40°	2357.4	2393.0	2390.6	2316.8	2123.7	1803.1	1534.5	1430.3	1481.5	1503.7
42.5°	2483.2	2514.0	2540.6	2536.9	2394.0	2046.1	1722.1	1584.4	1623.3	1649.0
45°	2570.0	2602.8	2660.2	2722.1	2654.1	2306.2	1937.1	1767.2	1802.8	1841.4
47.5°	2647.6	2684.8	2759.3	2857.4	2874.9	2567.3	2172.5	1980.1	2012.6	2052.6
50°	2654.4	2686.5	2802.1	2941.2	3031.7	2818.1	2425.4	2219.0	2249.4	2292.2
52.5°	2489.4	2539.9	2741.6	2938.8	3103.8	3028.0	2676.6	2467.5	2501.7	2552.9
55°	1932.3	2006.5	2564.2	2847.2	3078.2	3163.6	2915.5	2731.7	2775.4	2829.1
57.5°	1664.4	1696.8	2035.5	2680.4	2961.3	3198.8	3117.2	2998.6	3069.0	3127.8
60°	1495.9	1522.9	1723.1	2421.0	2807.5	3143.1	3273.0	3247.4	3369.0	3439.1
62.5°	1315.4	1341.1	1523.2	2021.5	2610.7	3050.5	3371.4	3477.0	3676.6	3753.2
65°	1136.3	1158.2	1332.8	1698.5	2360.5	2957.9	3422.3	3675.6	3961.3	4040.6
67.5°	936.8	954.9	1119.9	1433.0	2056.3	2831.1	3447.6	3831.8	4209.1	4277.1
70°	676.0	690.0	860.5	1133.3	1674.6	2613.1	3437.4	3942.5	4337.6	4391.9
72.5°	319.5	332.2	532.5	735.8	1182.8	2188.6	3229.9	3854.7	4207.0	4180.0
75°	170.5	181.5	305.9	403.6	624.7	1500.3	2643.1	3320.5	3532.7	3401.5
77.5°	115.5	124.1	189.3	242.3	285.4	712.2	1698.9	2299.0	2211.8	1995.2
80°	91.6	100.5	155.2	164.0	138.1	257.3	702.0	1064.2	764.5	611.4
82.5°	70.4	80.3	130.6	118.9	75.2	105.6	204.4	336.6	195.8	149.0
85°	43.1	53.7	102.5	75.9	42.4	48.2	69.4	93.6	59.8	49.9
87.5°	21.9	30.8	51.9	27.7	19.1	11.3	18.5	18.5	15.7	13.7
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°
930.9	0°	930.9	930.9	930.9	930.9	930.9	930.9	930.9	930.9	930.9	930.9
926.2	2.5°	934.4	941.2	952.8	963.8	972.3	980.5	988.7	993.1	994.5	1000.0
931.3	5°	945.3	957.9	980.5	1001.7	1015.0	1023.2	1029.0	1032.4	1033.1	1034.8
945.3	7.5°	965.5	985.6	1017.1	1038.3	1048.2	1047.5	1045.1	1036.5	1033.1	1030.1
965.8	10°	993.8	1020.5	1059.1	1073.8	1067.6	1051.2	1030.1	1005.1	993.5	982.2
993.8	12.5°	1029.0	1062.9	1100.8	1100.1	1069.7	1027.7	978.4	940.2	915.9	898.5
1028.3	15°	1071.7	1110.7	1139.8	1116.5	1049.9	974.3	902.2	852.3	830.5	811.3
1063.2	17.5°	1115.8	1157.5	1170.9	1111.4	1000.0	895.4	813.7	774.4	752.9	742.6
1100.8	20°	1158.9	1200.2	1189.3	1082.0	924.1	805.9	733.1	711.5	707.1	709.5
1137.4	22.5°	1204.3	1241.3	1193.1	1025.3	827.4	714.3	674.3	675.0	684.9	692.1
1175.6	25°	1250.8	1275.8	1183.2	943.2	723.5	646.9	637.0	648.0	667.5	681.5
1218.7	27.5°	1295.6	1306.5	1161.6	841.7	634.3	598.8	600.5	623.0	652.4	671.9
1271.0	30°	1346.2	1333.9	1120.3	727.6	572.4	557.4	571.8	598.1	627.5	644.9
1337.0	32.5°	1403.3	1357.5	1054.7	622.0	528.7	524.3	547.8	564.9	577.9	583.0
1424.4	35°	1474.3	1390.6	970.6	547.8	489.4	500.0	522.5	514.0	508.9	506.1
1542.0	37.5°	1566.6	1435.4	872.2	499.6	457.6	482.6	491.8	465.1	445.0	435.1
1684.5	40°	1677.7	1501.0	777.5	462.4	437.4	467.5	451.5	419.3	393.7	379.7
1844.8	42.5°	1801.1	1569.7	697.9	434.4	426.2	455.2	421.7	383.5	342.1	337.7
2035.8	45°	1930.6	1640.4	643.5	412.8	420.7	444.6	404.6	342.8	313.4	331.5
2227.6	47.5°	2060.1	1705.4	610.7	396.8	418.0	432.7	389.6	320.2	299.4	325.7
2433.0	50°	2204.3	1763.5	596.0	385.2	414.9	427.9	367.0	314.4	284.7	302.1
2645.5	52.5°	2347.5	1808.6	585.1	373.5	410.4	424.1	356.1	307.6	266.9	267.9
2859.5	55°	2490.4	1838.0	573.1	358.2	400.5	415.9	355.1	300.1	253.6	248.8
3085.7	57.5°	2642.8	1854.7	558.4	341.1	383.5	395.1	354.1	294.3	249.5	241.6
3317.1	60°	2798.0	1879.3	539.3	320.2	360.6	370.1	351.7	292.2	247.1	233.8
3535.1	62.5°	2937.1	1887.9	516.4	300.4	331.2	345.5	346.5	290.5	240.6	217.7
3716.3	65°	3028.3	1851.0	476.4	277.8	299.4	320.2	336.6	284.7	229.0	206.1
3805.8	67.5°	3024.5	1745.7	413.9	248.8	268.6	292.2	322.3	274.8	215.0	191.7
<b>3738.1</b>	<b>70°</b>	<b>2883.7</b>	<b>1537.9</b>	<b>334.6</b>	<b>215.0</b>	<b>234.8</b>	<b>262.1</b>	<b>303.8</b>	<b>260.1</b>	<b>198.2</b>	<b>176.0</b>
3323.9	72.5°	2473.3	1203.7	243.0	175.3	195.5	231.0	279.9	242.3	181.1	162.0
2456.5	75°	1766.9	761.8	164.7	134.7	152.1	195.8	250.2	221.5	165.4	162.7
1230.3	77.5°	902.6	364.0	109.0	98.4	105.9	154.5	210.2	197.9	167.8	134.3
350.0	80°	293.6	134.3	68.7	67.0	70.4	102.9	162.7	162.3	127.1	91.2
84.8	82.5°	93.6	57.8	44.8	43.1	41.4	64.6	113.5	128.5	85.8	57.8
30.4	85°	37.3	34.5	26.3	24.3	17.4	30.4	59.5	85.4	63.9	41.7
7.9	87.5°	13.7	13.7	7.2	5.1	3.8	10.3	16.1	25.6	36.6	21.5
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>
930.9
1003.1
1037.6
1030.7
978.8
894.4
809.3
745.7
708.5
693.8
685.2
676.7
649.0
585.8
508.9
437.4
380.7
342.1
341.1
338.0
315.1
275.1
252.2
242.6
234.8
217.7
206.1
192.8
178.1
161.0
153.4
119.6
80.7
57.4
42.7
21.2
0.0

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