

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: P944941

Luminaire Tested: **GALN-SB1A-750-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-750-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

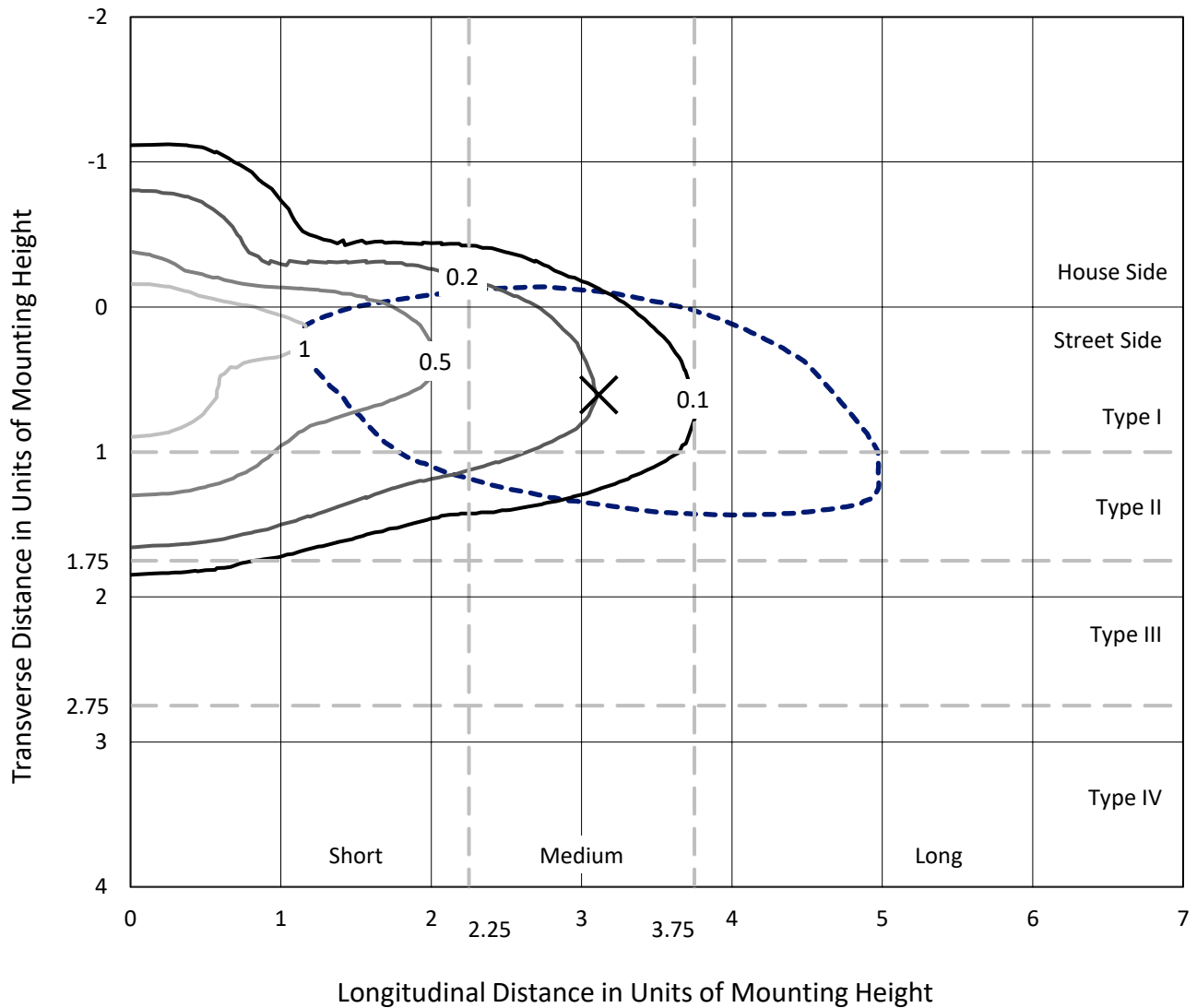
Lumens per Lamp: N/A  
Luminaire Lumens: 4719 lumens  
Efficiency: N/A  
Efficacy: 152.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

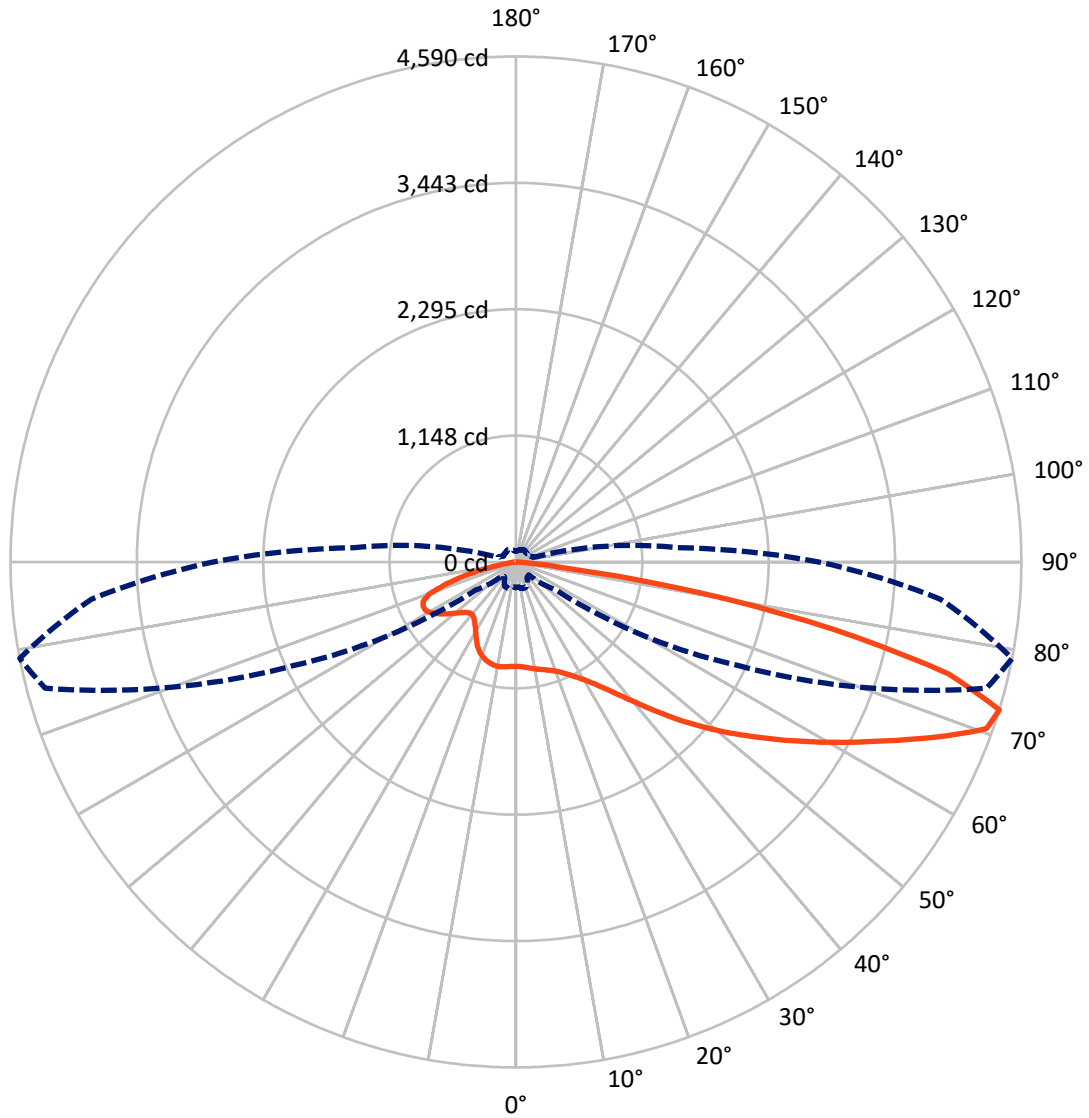
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1038.4	0.0	1038.4
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	3680.6	0.0	3680.6
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	4719.0	0.0	4719.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	1.8
10°-20°	224.8	4.8
20°-30°	362.8	7.7
30°-40°	544.4	11.5
40°-50°	772.3	16.4
50°-60°	975.3	20.7
60°-70°	990.6	21.0
70°-80°	675.1	14.3
80°-90°	87.6	1.9
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°	4719.0	100.0
0°-180°	4719.0	100.0

**Coefficient of Utilization**

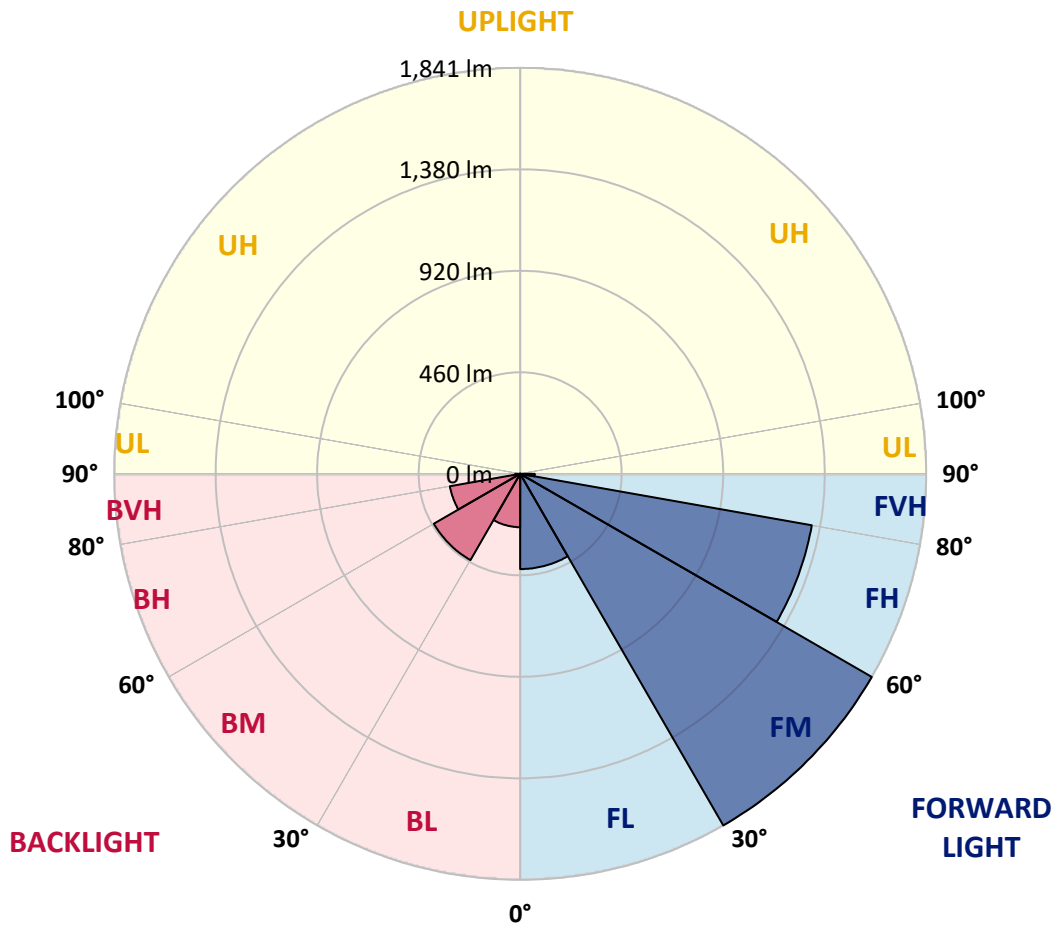


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.7	9.1			
FM (30°-60°)	1840.5	39.0			
FH (60°-80°)	1342.4	28.4			G1/1800
FVH (80°-90°)	66.0	1.4			G1/100
BL (0°-30°)	241.9	5.1	B1/500		
BM (30°-60°)	451.6	9.6	B1/1000		
BH (60°-80°)	323.3	6.9	B1/500		G1/500
BVH (80°-90°)	21.6	0.5			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°	79°
0°	947.3	947.3	947.3	947.3	947.3	947.3	947.3	947.3	947.3	947.3
2.5°	947.8	943.3	946.0	945.0	946.3	947.8	948.3	949.0	951.5	951.3
5°	945.8	941.3	945.0	943.8	947.0	950.5	953.5	956.3	960.3	962.0
7.5°	941.6	938.6	942.3	946.0	952.0	957.3	961.5	967.8	973.5	974.5
10°	916.8	914.6	923.3	933.1	949.5	963.8	973.0	980.2	986.5	987.5
12.5°	891.1	888.4	898.1	911.3	938.1	963.8	983.2	992.7	998.2	1001.5
15°	886.9	884.6	890.1	901.6	923.8	957.0	990.2	1007.7	1012.4	1016.2
17.5°	907.4	903.1	905.4	909.4	922.3	950.8	995.7	1024.7	1031.9	1035.9
20°	954.8	948.8	945.3	937.3	935.1	951.8	995.2	1045.1	1054.6	1059.6
22.5°	1017.9	1013.9	1006.5	986.2	964.3	964.0	1004.7	1071.4	1089.1	1093.8
25°	1094.3	1088.3	1078.8	1051.4	1009.2	988.2	1020.7	1104.8	1134.5	1135.8
27.5°	1182.2	1173.2	1160.2	1124.0	1067.1	1026.2	1045.1	1143.2	1186.7	1186.2
30°	1274.8	1265.8	1252.1	1208.1	1136.5	1077.3	1079.1	1184.7	1248.6	1245.8
32.5°	1342.4	1335.7	1333.0	1299.0	1216.4	1137.8	1118.0	1230.6	1325.0	1322.5
35°	1394.4	1385.6	1388.9	1371.6	1303.5	1205.4	1165.7	1285.3	1417.8	1417.6
37.5°	1445.8	1438.0	1440.8	1429.3	1384.1	1291.3	1223.9	1352.2	1532.9	1538.4
40°	1492.7	1484.5	1495.5	1484.7	1446.8	1382.6	1290.0	1427.8	1666.2	1676.7
42.5°	1520.9	1514.4	1532.6	1532.9	1501.2	1459.8	1362.7	1511.2	1820.5	1843.9
45°	1530.6	1528.4	1555.9	1561.6	1549.4	1504.4	1428.1	1602.0	1986.7	2028.6
47.5°	1520.2	1515.9	1553.9	1575.1	1584.8	1525.4	1482.2	1700.4	2156.4	2217.8
50°	1467.2	1459.0	1515.4	1560.1	1594.8	1539.1	1536.9	1814.0	2349.4	2416.5
52.5°	1372.1	1365.9	1430.1	1507.7	1572.8	1545.9	1598.3	1938.0	2532.6	2619.5
55°	1250.6	1242.3	1313.0	1414.3	1518.2	1543.6	1659.7	2076.8	2748.8	2836.9
57.5°	1057.9	1041.4	1130.8	1250.6	1429.1	1540.9	1723.6	2214.8	2968.4	3074.0
60°	776.8	752.3	861.9	1004.0	1254.8	1514.2	1802.7	2369.6	3232.0	3327.1
62.5°	452.3	438.1	509.7	642.3	945.8	1356.9	1847.2	2549.6	3491.1	3591.0
65°	351.2	347.2	353.5	363.7	526.4	1015.9	1710.1	2725.1	3820.6	3890.5
67.5°	321.3	318.3	321.0	301.8	267.1	565.9	1352.9	2769.5	4173.6	4216.0
70°	285.6	282.1	291.1	274.6	210.2	257.4	874.2	2608.2	4454.4	4534.0
72.5°	232.6	228.6	249.6	242.1	177.0	165.2	439.1	2225.1	4425.0	4590.2
75°	178.7	176.5	201.4	207.7	144.3	130.1	210.7	1654.0	3894.0	4060.5
77.5°	138.8	137.0	149.8	172.5	116.3	100.8	129.6	1049.1	2934.5	2963.7
80°	104.1	99.1	110.8	133.5	90.6	73.6	87.9	611.8	1854.9	1681.4
82.5°	65.1	62.7	72.4	89.1	63.9	50.7	57.2	338.0	743.4	437.8
85°	37.2	36.2	39.4	50.9	34.7	29.2	32.7	149.3	135.8	93.4
87.5°	15.0	14.5	18.0	22.7	12.7	10.7	11.5	35.9	30.0	27.7
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°
947.3	0°	947.3	947.3	947.3	947.3	947.3	947.3	947.3	947.3	947.3	947.3
951.0	2.5°	950.0	950.0	946.5	941.1	934.8	930.8	924.3	922.6	915.8	913.8
959.5	5°	961.5	959.5	948.8	933.3	912.1	892.6	871.2	857.7	838.7	832.0
976.2	7.5°	976.0	970.5	952.0	918.1	873.7	830.0	784.5	750.1	717.1	705.4
990.0	10°	989.2	981.5	950.0	890.6	813.7	738.1	665.7	615.1	576.6	560.9
1005.2	12.5°	1002.5	988.2	936.8	845.0	728.6	626.0	548.9	509.5	485.8	466.8
1017.7	15°	1014.9	995.0	916.3	783.8	635.3	531.2	474.3	442.8	423.8	411.4
1035.9	17.5°	1029.4	1000.7	885.6	706.2	546.4	465.5	419.1	400.1	396.4	394.9
1060.9	20°	1049.6	1006.0	845.2	619.3	481.0	413.1	389.2	387.4	387.2	386.4
1090.8	22.5°	1071.4	1012.2	791.8	540.4	425.3	380.4	376.2	372.7	370.4	370.2
1127.0	25°	1097.1	1014.2	724.9	475.8	377.9	364.9	359.9	354.7	353.2	353.2
1168.2	27.5°	1122.0	1007.5	647.0	419.6	351.2	350.7	344.2	342.5	342.2	343.0
1215.1	30°	1147.0	994.7	569.6	367.7	335.7	335.7	333.5	334.7	335.7	338.2
1279.5	32.5°	1180.7	981.2	505.0	329.2	322.3	319.8	322.0	324.5	325.5	328.7
1364.2	35°	1230.1	971.8	453.6	308.3	308.3	305.0	306.3	305.8	303.5	302.0
1466.5	37.5°	1295.5	971.3	411.1	298.5	296.5	296.0	296.3	293.0	284.3	273.8
1590.3	40°	1374.1	984.7	378.4	291.8	290.3	293.3	291.8	283.1	259.1	240.9
1742.6	42.5°	1479.7	1023.2	357.5	283.6	288.1	291.8	285.8	255.6	239.4	227.2
1916.1	45°	1604.0	1085.6	346.7	274.8	283.8	288.3	259.4	246.1	233.1	218.4
2105.3	47.5°	1744.8	1164.2	344.2	266.6	274.3	277.1	248.1	242.1	227.4	211.4
2295.5	50°	1898.1	1257.3	351.0	256.9	260.6	251.1	244.4	238.9	223.7	207.9
2490.4	52.5°	2056.6	1359.9	364.4	243.6	246.9	236.4	242.9	238.1	221.4	200.2
2691.9	55°	2212.4	1463.3	377.4	228.1	232.9	223.2	238.6	235.1	211.2	187.2
2906.8	57.5°	2370.6	1566.1	390.2	214.4	219.4	210.4	231.9	227.2	199.7	175.2
3141.4	60°	2535.1	1665.9	396.1	201.2	204.7	198.7	221.7	213.4	186.7	163.0
3372.1	62.5°	2689.1	1749.1	386.4	188.0	190.2	187.7	208.2	197.2	173.7	149.3
3612.4	65°	2843.6	1798.5	356.5	175.0	175.5	174.2	189.2	179.7	158.5	137.3
3822.9	67.5°	2983.7	1826.2	308.8	161.0	159.8	159.3	171.5	160.8	143.8	125.3
3982.9	70°	3013.4	1755.8	235.9	144.5	144.5	143.3	152.0	141.0	127.6	112.6
3868.3	72.5°	2752.3	1477.0	167.5	125.8	127.8	125.3	132.5	123.3	111.1	101.1
3333.9	75°	2219.3	1083.1	121.8	106.6	110.1	105.8	112.6	106.1	95.6	95.4
2297.5	77.5°	1524.9	669.7	88.4	87.9	90.4	84.9	92.6	89.1	79.6	75.4
1000.0	80°	650.8	267.1	64.4	67.9	67.9	62.9	71.9	72.9	64.7	62.7
193.0	82.5°	129.6	75.9	45.2	46.7	43.9	42.4	50.9	56.4	77.9	86.6
58.2	85°	38.9	28.0	27.2	25.5	22.5	22.7	30.0	56.7	69.9	39.9
19.2	87.5°	10.7	7.0	7.2	5.7	4.7	6.2	10.2	42.9	23.5	10.0
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>
947.3
917.1
837.0
706.9
564.4
473.0
413.6
395.9
388.9
372.9
354.7
345.0
340.0
331.5
305.5
274.1
240.4
226.7
217.4
210.2
206.2
198.7
186.0
174.7
162.3
149.0
135.8
123.8
112.1
98.1
85.9
70.6
62.7
86.9
34.4
8.5
0.0

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