

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: P939389

Luminaire Tested: **GALN-SB1D-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939389
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-SB1D-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6999 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

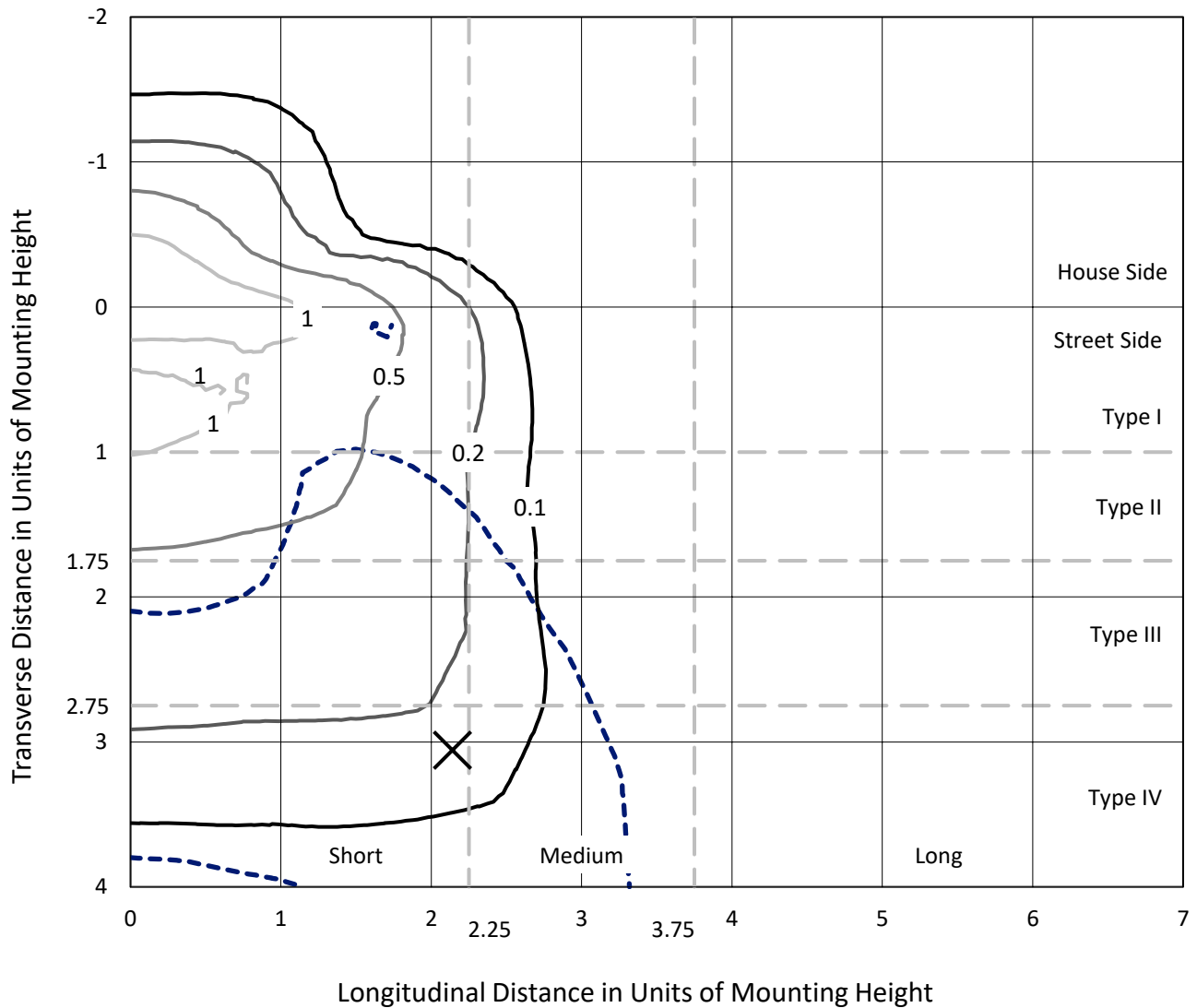
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

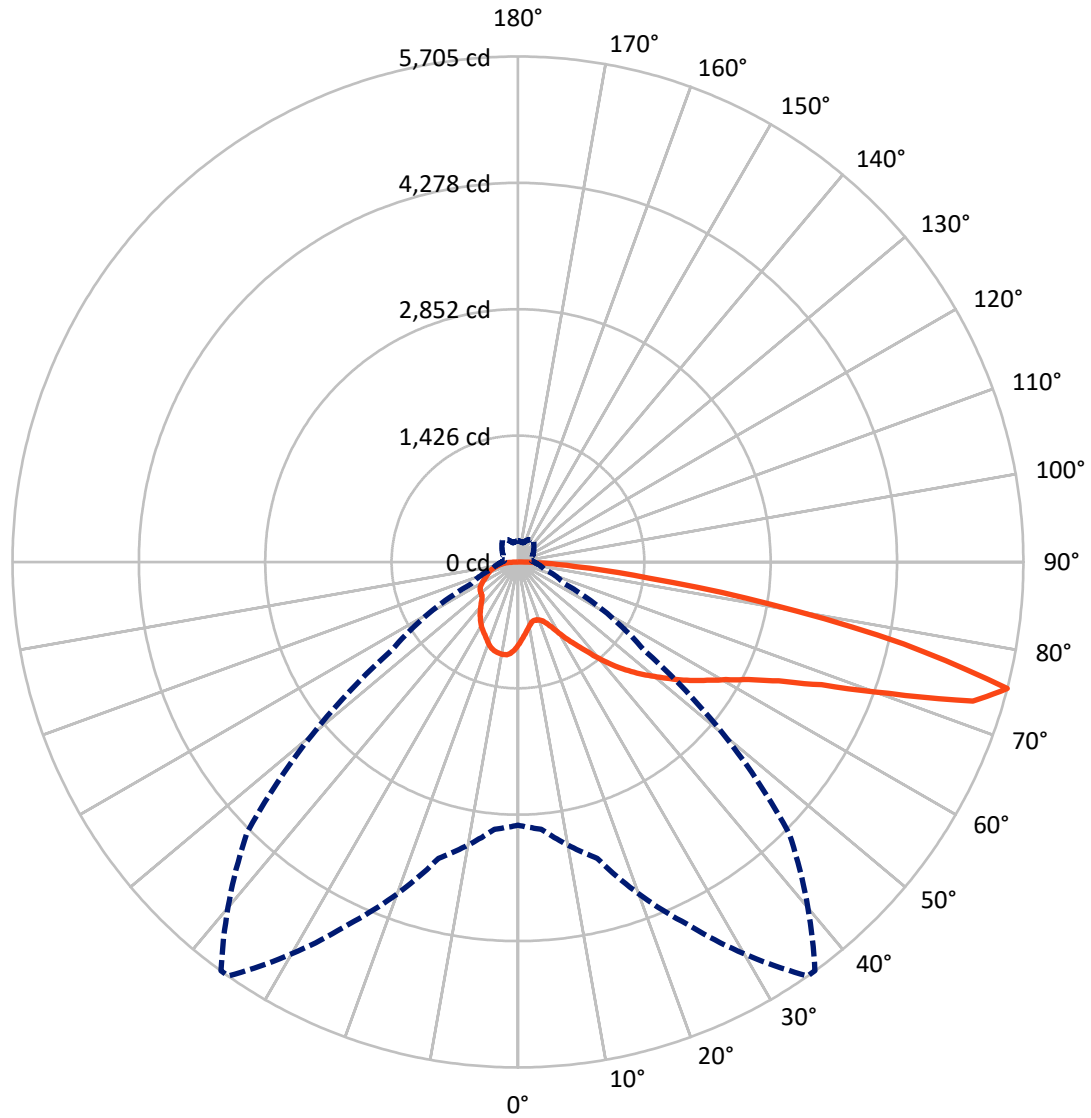
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1665.6	0.0	1665.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5333.4	0.0	5333.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	6999.0	0.0	6999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.3
10°-20°	254.7	3.6
20°-30°	427.7	6.1
30°-40°	664.7	9.5
40°-50°	986.7	14.1
50°-60°	1362.1	19.5
60°-70°	1652.6	23.6
70°-80°	1365.7	19.5
80°-90°	196.4	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°	6999.0	100.0
0°-180°	6999.0	100.0

Coefficient of Utilization



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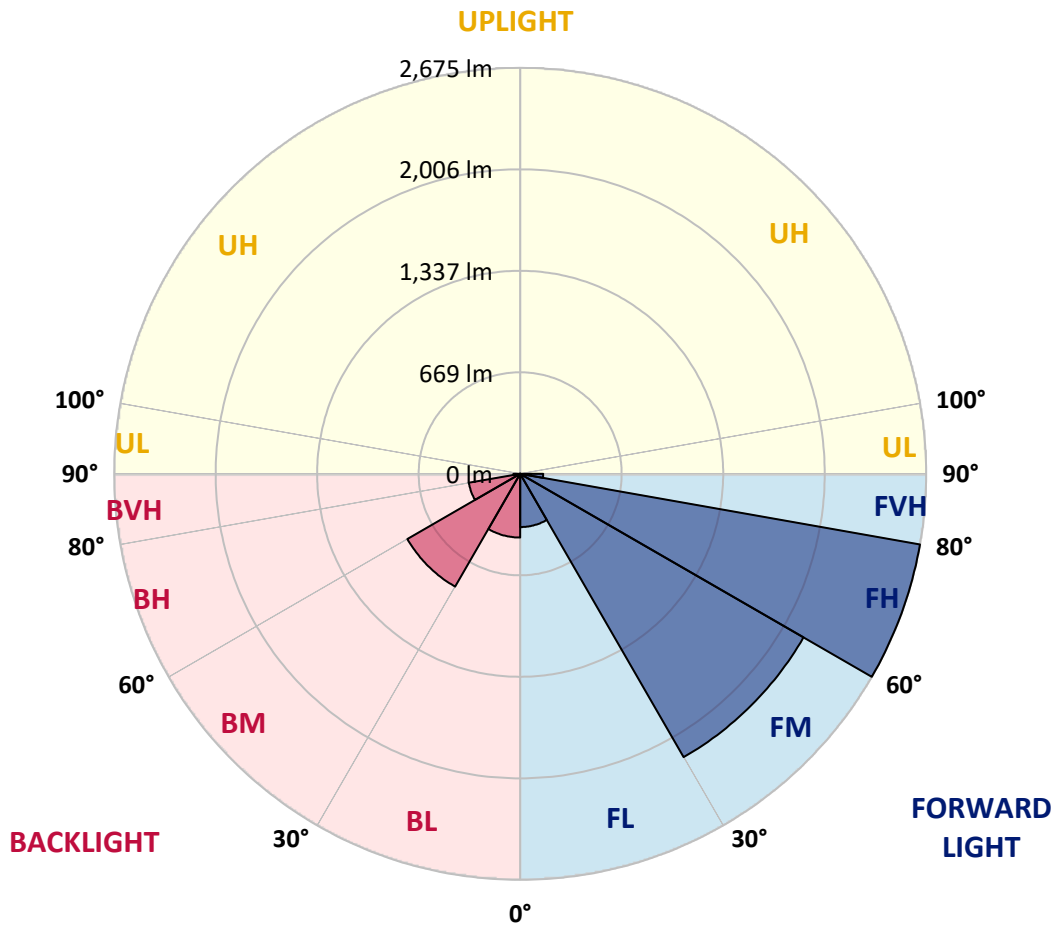
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	351.0	5.0			
FM (30°-60°)	2155.3	30.8			
FH (60°-80°)	2674.9	38.2			G2/5000
FVH (80°-90°)	152.2	2.2			G2/225
BL (0°-30°)	419.8	6.0	B1/500		
BM (30°-60°)	858.2	12.3	B1/1000		
BH (60°-80°)	343.4	4.9	B1/500		G1/500
BVH (80°-90°)	44.2	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7
2.5°	860.0	865.3	867.6	866.5	872.1	871.4	879.3	889.2	902.8	916.0
5°	793.8	799.5	804.4	808.9	819.9	823.3	835.8	854.7	879.7	905.0
7.5°	732.1	737.1	744.6	752.9	771.5	774.9	795.7	825.2	860.0	897.1
10°	681.8	686.7	694.7	704.1	727.2	731.4	757.9	797.2	842.6	889.5
12.5°	660.2	661.8	666.3	675.8	695.8	698.5	727.6	772.6	825.6	883.9
15°	659.1	662.1	662.5	667.4	684.1	685.2	712.1	756.7	815.0	882.7
17.5°	670.5	672.7	669.3	672.4	686.3	688.2	709.4	749.2	811.6	887.6
20°	700.7	702.6	692.4	688.2	698.5	700.0	720.8	754.1	815.0	897.9
22.5°	765.0	766.2	741.2	724.2	724.9	725.7	743.9	774.1	828.2	916.4
25°	865.3	864.6	824.8	791.9	773.0	768.8	780.9	806.7	850.6	941.0
27.5°	982.6	976.9	937.2	888.0	846.8	840.7	838.1	849.0	882.3	973.5
30°	1115.0	1109.7	1067.0	1002.7	945.5	935.7	910.7	905.0	929.6	1017.8
32.5°	1260.3	1256.9	1205.8	1127.9	1051.5	1040.1	998.1	983.0	1002.3	1084.8
35°	1382.2	1379.1	1336.8	1256.5	1163.1	1149.1	1106.3	1089.3	1099.1	1170.7
37.5°	1492.3	1490.7	1454.4	1391.2	1294.8	1277.7	1229.7	1224.0	1222.1	1283.8
40°	1594.4	1590.6	1552.8	1519.5	1448.0	1432.5	1390.1	1385.2	1370.8	1423.0
42.5°	1707.6	1697.7	1642.9	1627.3	1608.0	1595.2	1569.8	1570.6	1538.8	1580.0
45°	1799.9	1794.2	1737.8	1728.7	1749.5	1744.3	1766.2	1771.9	1710.2	1744.6
47.5°	1899.0	1893.7	1846.0	1839.6	1896.0	1897.5	1975.1	1976.9	1877.4	1915.7
50°	2021.2	2013.6	1966.4	1974.3	2037.5	2043.2	2185.0	2172.2	2031.4	2089.3
52.5°	2101.8	2106.3	2096.1	2109.0	2195.3	2200.6	2391.6	2358.7	2183.9	2260.7
55°	2161.2	2170.3	2202.1	2231.6	2361.7	2367.0	2586.5	2536.2	2310.3	2419.6
57.5°	2237.6	2224.8	2284.2	2341.7	2519.9	2533.9	2776.0	2707.2	2422.3	2556.6
60°	2347.4	2338.3	2384.4	2469.6	2697.0	2719.3	2976.6	2861.2	2504.4	2665.2
62.5°	2569.8	2547.1	2554.3	2629.6	2920.2	2949.7	3202.8	2995.5	2545.2	2707.6
65°	2902.4	2863.4	2827.1	2879.3	3234.6	3263.8	3458.2	3101.1	2530.1	2625.5
67.5°	3321.3	3282.7	3238.0	3287.2	3697.7	3720.8	3773.4	3160.5	2410.9	2309.1
70°	3666.7	3652.3	3705.7	3908.1	4437.4	4438.2	4177.5	3111.3	2084.4	1637.2
72.5°	3620.9	3612.2	3893.4	4519.2	5369.7	5349.7	4560.0	2739.0	1404.1	738.6
75°	2970.5	3026.9	3462.4	4508.2	5704.6	5701.9	4325.8	1741.2	580.8	306.1
77.5°	1592.9	1682.2	2247.9	3328.5	4453.3	4520.3	3041.3	609.2	249.3	196.0
80°	519.5	597.4	896.0	1694.7	2893.7	2881.2	1303.5	239.1	170.6	138.9
82.5°	220.6	229.7	400.3	800.2	1485.1	1462.0	415.1	137.3	119.9	95.0
85°	86.3	96.5	176.7	370.0	643.2	629.2	149.8	68.1	76.8	62.1
87.5°	28.4	34.4	63.2	126.8	200.2	193.0	36.7	23.5	33.3	28.4
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°
932.7	0°	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7
935.3	2.5°	940.6	946.7	953.9	964.4	973.5	981.1	989.0	994.0	995.9	1001.5
936.8	5°	947.4	960.7	978.4	995.9	1012.9	1023.1	1032.2	1036.7	1040.9	1043.9
941.0	7.5°	958.8	975.8	1003.8	1026.5	1040.9	1049.2	1055.3	1053.7	1055.3	1056.0
945.5	10°	968.6	992.4	1025.7	1047.3	1058.3	1058.7	1057.1	1051.8	1049.2	1049.6
952.3	12.5°	980.3	1006.8	1042.8	1060.9	1064.0	1055.6	1049.2	1040.1	1036.7	1035.2
962.6	15°	996.2	1026.5	1061.3	1068.1	1060.6	1050.0	1039.0	1024.2	1016.7	1010.6
980.0	17.5°	1015.5	1048.8	1075.7	1070.8	1054.5	1037.1	1019.3	997.0	981.5	975.0
1003.8	20°	1042.4	1072.3	1086.7	1065.1	1040.5	1014.0	983.7	956.5	942.1	935.7
1034.1	22.5°	1074.9	1103.7	1097.3	1055.3	1020.4	978.1	940.2	920.2	913.0	908.4
1073.0	25°	1113.9	1138.5	1104.8	1040.9	987.5	930.4	901.3	894.8	891.4	888.0
1120.7	27.5°	1164.6	1177.8	1110.5	1019.7	936.1	879.7	869.1	870.2	869.1	863.4
1186.9	30°	1231.6	1228.9	1115.8	985.3	877.0	833.9	834.7	839.6	840.3	836.6
1279.2	32.5°	1319.7	1292.9	1118.4	940.6	820.7	793.8	794.6	799.9	803.6	797.2
1399.9	35°	1426.4	1367.4	1114.3	884.6	777.2	755.6	749.9	751.4	752.6	746.5
1546.4	37.5°	1550.9	1451.0	1095.7	822.6	741.2	718.1	706.0	695.8	689.8	684.1
1712.1	40°	1687.5	1542.2	1061.7	762.0	701.1	678.4	660.2	640.9	620.5	612.9
1887.7	42.5°	1830.5	1636.0	1020.4	704.1	654.9	636.4	617.1	589.1	558.5	543.0
2070.0	45°	1978.8	1732.1	980.0	647.0	607.7	599.7	577.4	543.7	510.4	490.7
2252.8	47.5°	2124.1	1823.0	920.6	589.5	563.4	572.1	554.7	523.7	486.6	455.5
2434.0	50°	2263.0	1908.1	823.3	531.2	527.4	563.8	547.1	502.5	460.1	420.4
2611.8	52.5°	2400.7	1976.9	698.8	478.3	508.1	561.5	537.3	488.1	436.3	394.6
2779.1	55°	2517.6	2012.5	578.9	432.8	480.1	542.2	525.5	471.1	402.6	358.3
2893.7	57.5°	2584.2	1983.8	479.0	388.2	441.5	510.4	505.5	434.7	362.5	328.4
2916.0	60°	2555.5	1867.2	397.3	349.2	404.8	476.0	470.7	398.8	331.8	299.7
2796.5	62.5°	2396.9	1645.1	332.6	315.2	371.6	440.8	435.9	371.2	308.4	277.3
2479.0	65°	2077.6	1338.3	282.3	286.8	337.9	398.4	405.6	348.1	289.8	259.6
1917.9	67.5°	1584.6	969.4	242.9	262.2	305.0	356.8	377.6	331.4	274.3	245.6
1109.7	70°	903.2	550.5	209.6	238.4	275.8	318.2	356.0	318.2	257.7	233.8
415.8	72.5°	342.4	252.7	181.2	214.5	247.8	285.7	332.2	297.4	238.4	220.6
214.9	75°	182.7	154.0	152.5	186.5	215.7	253.9	302.3	277.0	224.0	233.1
148.7	77.5°	124.5	109.0	127.5	159.7	180.5	218.7	270.5	245.9	194.1	193.3
102.9	80°	86.3	77.2	103.7	128.6	139.6	183.9	236.1	211.1	158.2	147.6
63.6	82.5°	51.8	50.3	77.6	96.1	98.8	141.9	195.6	177.1	129.4	112.8
37.8	85°	28.4	29.9	49.6	56.4	57.5	99.1	153.2	137.0	99.5	83.6
13.6	87.5°	7.9	10.2	18.2	22.3	27.6	51.5	91.2	81.3	49.9	34.8
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>
932.7
1001.1
1044.7
1057.1
1050.3
1034.4
1012.5
975.4
934.9
909.2
888.0
864.6
838.5
800.2
750.7
687.9
616.4
544.8
489.2
452.1
417.0
390.1
354.5
323.9
295.1
272.4
254.6
241.0
230.8
217.6
240.6
178.2
141.1
113.5
84.4
34.8
0.0

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