

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: P946173

Luminaire Tested: **GALN-SB1D-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6184 lumens
Efficiency: N/A
Efficacy: 77.7 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

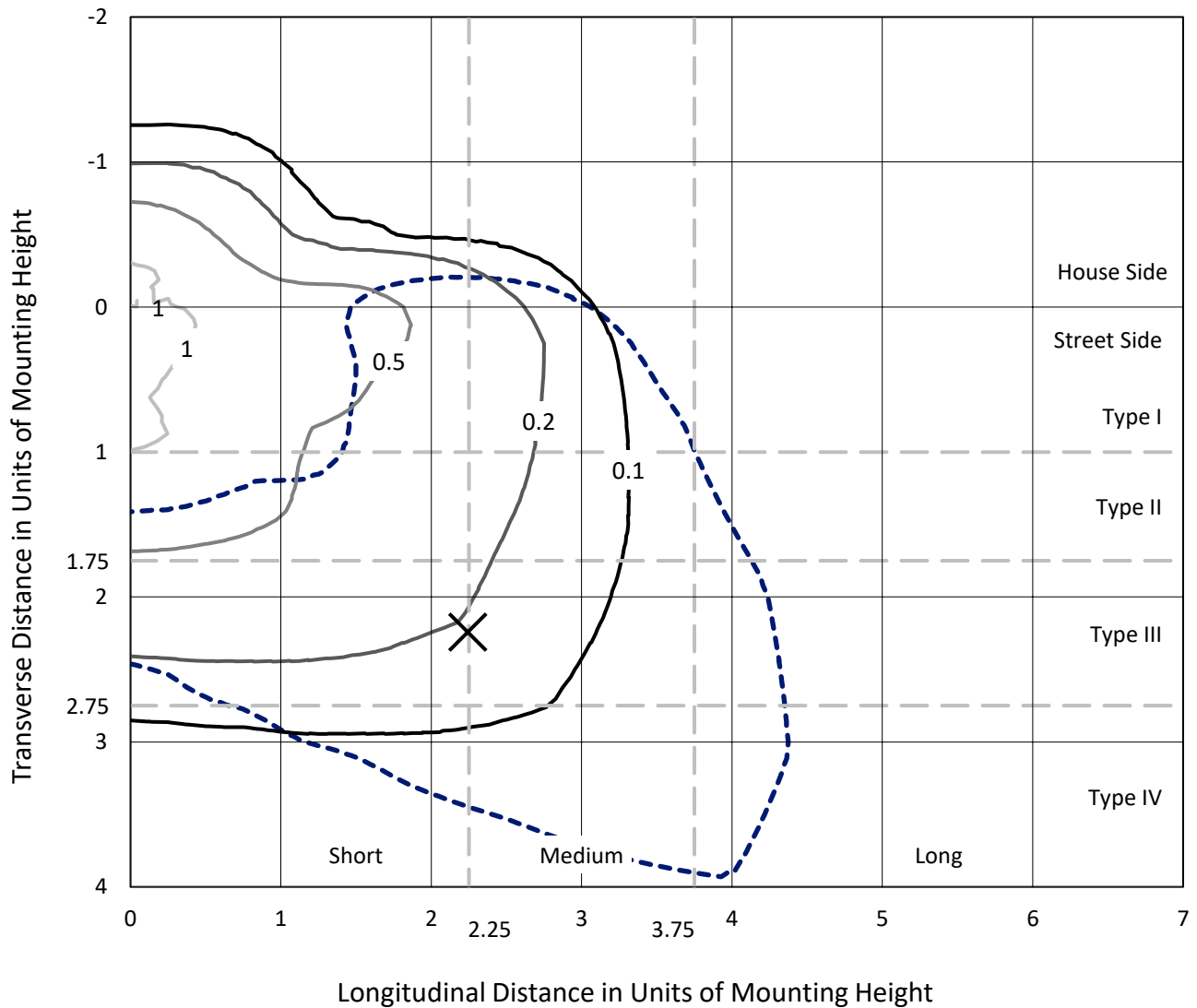
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

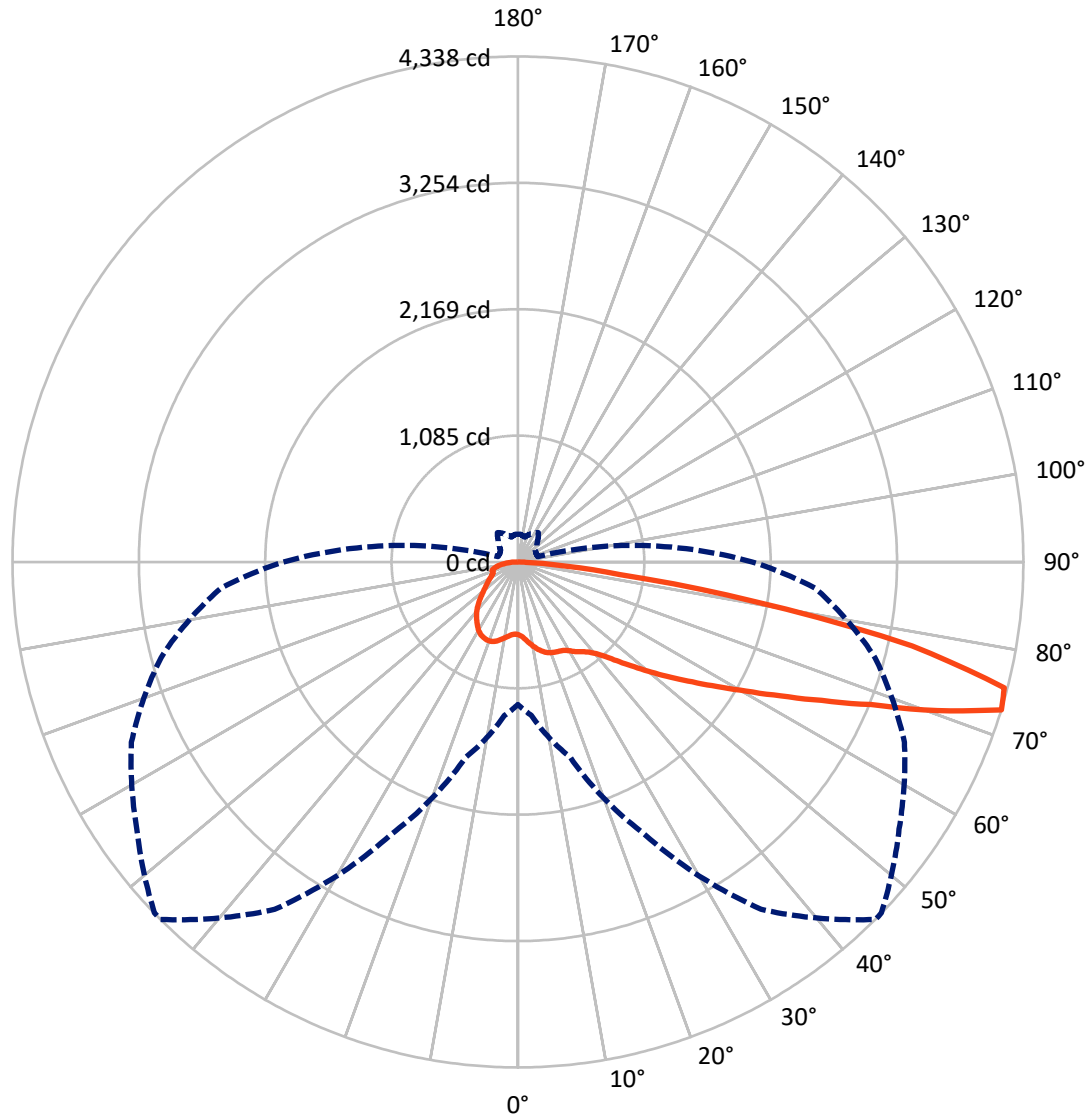
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1398.0	0.0	1398.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	4786.0	0.0	4786.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	6184.0	0.0	6184.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	1.0
10°-20°	211.7	3.4
20°-30°	368.3	6.0
30°-40°	527.9	8.5
40°-50°	743.4	12.0
50°-60°	1138.6	18.4
60°-70°	1649.4	26.7
70°-80°	1317.2	21.3
80°-90°	164.0	2.7
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°	6184.0	100.0
0°-180°	6184.0	100.0



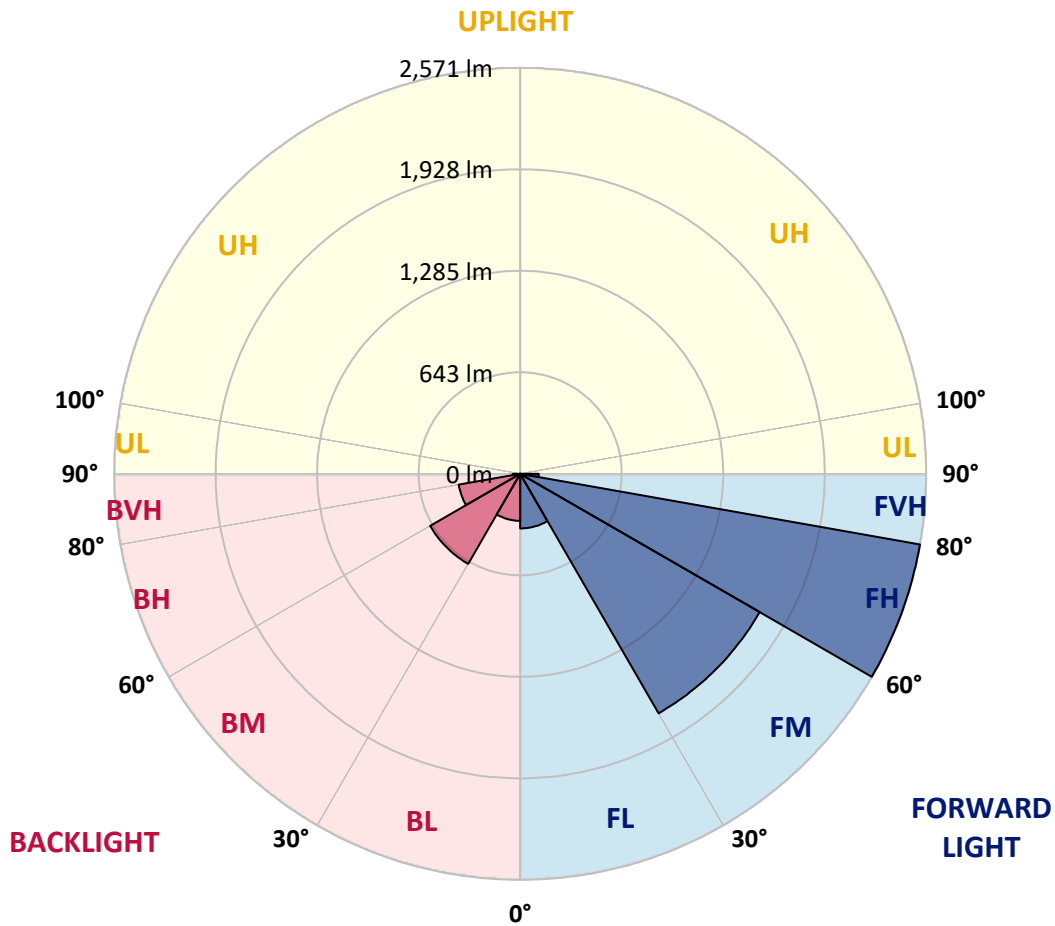
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.8	5.6			
FM (30°-60°)	1751.6	28.3			
FH (60°-80°)	2570.9	41.6			G2/5000
FVH (80°-90°)	117.7	1.9			G2/225
BL (0°-30°)	297.6	4.8	B1/500		
BM (30°-60°)	658.3	10.6	B1/1000		
BH (60°-80°)	395.7	6.4	B1/500		G1/500
BVH (80°-90°)	46.4	0.7			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°	45°	46°	55°	65°	75°
0°	623.8	623.8	623.8	623.8	623.8	623.8	623.8	623.8	623.8	623.8
2.5°	648.3	652.5	648.6	645.0	643.4	639.2	638.8	636.2	634.6	630.0
5°	693.6	699.1	692.6	685.4	678.9	668.5	667.2	659.7	651.2	641.4
7.5°	744.7	749.6	742.1	731.3	719.9	702.7	702.4	688.7	675.3	658.7
10°	789.3	795.9	785.8	771.1	756.8	737.2	734.9	719.3	702.4	680.9
12.5°	828.8	833.3	823.5	805.6	789.0	769.5	766.5	749.3	730.4	705.9
15°	860.0	865.9	852.9	833.6	816.0	796.8	794.2	778.6	759.7	734.0
17.5°	880.6	885.4	872.1	850.6	833.6	817.7	815.7	802.7	786.1	760.0
20°	888.4	893.6	879.6	857.7	842.1	829.7	828.8	819.3	807.9	784.1
22.5°	896.2	901.1	882.8	860.0	846.3	838.5	838.2	832.0	827.5	807.9
25°	927.8	929.1	904.7	871.8	852.2	845.4	845.0	844.7	846.7	831.4
27.5°	955.2	954.8	934.0	903.0	872.7	858.4	858.1	861.3	867.5	854.8
30°	995.2	991.6	966.9	934.6	906.9	884.8	882.8	879.9	884.8	874.7
32.5°	1080.2	1068.8	1028.8	971.4	935.3	918.3	915.7	897.5	899.4	893.3
35°	1202.1	1187.1	1133.7	1041.2	970.5	946.4	945.1	921.9	918.0	912.5
37.5°	1347.0	1328.5	1266.3	1142.1	1031.1	978.9	977.0	956.1	940.2	934.3
40°	1492.7	1469.2	1417.7	1265.3	1120.3	1033.3	1027.1	995.5	977.3	967.5
42.5°	1634.1	1614.5	1570.5	1403.4	1230.4	1112.8	1099.1	1045.1	1031.4	1022.3
45°	1759.1	1741.6	1709.3	1551.0	1359.4	1221.0	1207.6	1119.3	1115.1	1115.1
47.5°	1860.8	1856.9	1822.7	1701.5	1511.6	1344.1	1321.0	1222.6	1234.0	1251.6
50°	1973.5	1962.8	1926.3	1849.7	1690.4	1485.2	1466.3	1349.3	1392.0	1440.2
52.5°	2077.1	2083.0	2042.2	2004.1	1892.4	1642.5	1609.3	1498.9	1591.0	1670.9
55°	2183.6	2183.9	2172.5	2167.3	2104.1	1816.5	1780.0	1678.7	1825.3	1924.3
57.5°	2283.6	2284.3	2301.2	2347.2	2349.8	2017.2	1975.8	1899.6	2085.6	2186.6
60°	2372.9	2377.5	2423.7	2531.2	2565.7	2247.1	2208.1	2160.5	2354.6	2456.3
62.5°	2402.9	2419.5	2522.4	2675.2	2779.1	2529.3	2490.8	2462.5	2637.4	2731.9
65°	2352.0	2390.2	2589.2	2794.1	2998.7	2864.5	2826.4	2795.4	2931.3	3020.2
67.5°	2227.3	2276.5	2585.3	2918.9	3265.2	3267.8	3232.3	3159.6	3246.3	3280.5
70°	1898.6	1972.2	2357.6	2965.5	3571.1	3819.3	3785.1	3598.1	3560.6	3395.2
72.5°	1223.3	1322.3	1736.0	2582.0	3639.2	4338.2	4336.3	3993.9	3660.0	3172.3
75°	446.3	506.9	806.6	1620.7	3054.7	4311.9	4324.6	3926.2	3341.1	2450.4
77.5°	162.6	177.9	263.2	622.9	1878.7	3459.7	3486.0	3138.8	2378.1	1229.8
80°	85.4	93.8	134.9	241.7	805.0	2054.6	2096.0	1865.3	1117.7	370.4
82.5°	47.2	51.1	75.6	131.3	362.6	878.6	903.4	736.9	393.2	157.0
85°	25.4	27.0	35.5	71.7	177.2	304.6	311.4	220.2	156.7	92.2
87.5°	7.5	9.1	11.7	22.8	69.4	68.4	70.0	43.7	61.9	46.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946173
 CATALOG NUMBER: GALN-SB1D-927-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
623.8	0°	623.8	623.8	623.8	623.8	623.8	623.8	623.8	623.8	623.8	623.8
628.7	2.5°	626.8	625.8	622.2	620.6	618.6	618.3	619.9	620.3	620.6	620.9
635.9	5°	632.6	629.4	626.1	624.2	624.8	625.1	628.4	630.7	632.3	633.6
649.3	7.5°	644.0	641.4	635.9	635.6	636.6	639.5	643.7	648.9	651.9	654.1
666.5	10°	661.0	656.1	649.6	650.6	652.5	656.7	665.5	669.8	674.7	678.9
687.7	12.5°	678.2	674.0	666.5	667.2	670.4	677.9	686.4	691.6	694.9	698.1
710.5	15°	700.7	693.2	685.1	685.1	691.0	699.1	703.0	707.2	709.2	712.8
734.9	17.5°	723.9	714.1	703.3	702.7	709.8	713.8	716.0	716.7	717.3	721.2
758.7	20°	747.0	736.2	720.9	719.6	721.2	720.6	720.3	719.6	720.6	725.5
783.1	22.5°	769.8	757.4	736.2	730.4	725.8	719.6	719.3	719.0	719.6	724.5
809.5	25°	796.5	781.5	753.2	735.6	720.3	711.8	712.8	713.1	713.8	717.7
836.9	27.5°	825.5	808.9	768.8	734.0	706.3	700.4	698.8	699.7	702.0	708.2
864.3	30°	854.5	834.9	783.1	727.4	688.7	680.5	675.3	677.6	684.8	691.0
888.0	32.5°	880.9	861.3	794.5	713.1	666.2	653.5	646.6	649.6	656.7	659.0
914.4	35°	911.8	889.7	799.4	690.3	641.8	622.2	613.1	608.9	612.4	610.2
945.4	37.5°	946.4	923.2	798.8	660.3	613.1	590.6	577.9	561.9	554.5	546.6
991.0	40°	997.5	964.3	791.0	624.2	577.6	557.1	534.3	507.2	490.3	475.0
1064.6	42.5°	1067.2	1021.3	776.6	584.4	537.5	518.3	487.3	455.7	429.0	403.6
1176.3	45°	1171.1	1095.9	758.7	542.1	494.2	475.3	441.7	406.2	375.9	343.4
1335.0	47.5°	1321.0	1196.2	741.8	493.9	448.6	431.3	401.0	368.1	332.3	300.7
1564.3	50°	1526.9	1340.2	726.1	447.0	403.6	390.6	366.5	332.9	296.8	271.4
1833.1	52.5°	1788.8	1536.0	719.6	401.7	361.6	356.7	337.5	306.2	272.0	250.5
2146.5	55°	2089.5	1770.2	719.6	358.3	324.8	326.4	313.1	284.1	254.4	235.2
2469.6	57.5°	2396.3	2007.4	706.6	318.3	293.5	300.4	291.9	266.5	239.8	219.9
2809.4	60°	2679.1	2206.1	653.8	281.8	265.8	276.6	271.0	249.2	216.6	200.0
3093.5	62.5°	2896.4	2318.2	552.2	252.8	243.0	255.4	252.5	226.4	212.4	205.6
3326.7	65°	3005.2	2299.9	422.2	227.1	223.8	243.0	236.8	235.9	224.8	217.0
3402.6	67.5°	2938.4	2142.9	306.2	208.2	212.7	231.6	255.4	259.3	238.8	223.5
3188.9	70°	2645.6	1858.8	228.0	190.2	198.7	231.9	291.2	271.4	234.2	216.3
2557.6	72.5°	2012.6	1386.1	176.9	171.4	180.5	233.6	307.2	265.8	221.2	239.1
1593.3	75°	1150.9	761.0	142.0	148.2	157.7	218.3	299.1	251.5	211.1	219.6
631.3	77.5°	438.8	292.5	117.3	125.4	126.7	190.6	286.0	250.5	201.0	196.1
189.3	80°	152.1	114.3	97.1	99.7	98.1	169.4	274.3	217.9	164.5	147.2
78.2	82.5°	62.2	57.0	76.9	73.6	69.7	131.6	221.5	178.2	134.5	118.9
37.8	85°	27.0	36.2	50.8	44.6	40.4	91.2	177.5	150.8	113.7	98.1
12.4	87.5°	5.5	13.7	21.5	20.2	20.8	60.9	126.1	107.2	80.5	60.3
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>
623.8
622.2
634.3
654.8
677.9
699.4
714.1
722.6
727.4
727.8
722.9
714.4
697.8
667.2
617.3
551.5
475.9
401.3
339.4
297.1
269.7
248.9
233.2
216.6
197.4
203.3
214.4
220.9
213.4
237.2
219.6
178.8
142.4
117.6
97.7
47.2
0.0

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