

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: P939689

Luminaire Tested: **GALN-SB2B-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939689
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-SB2B-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6775 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

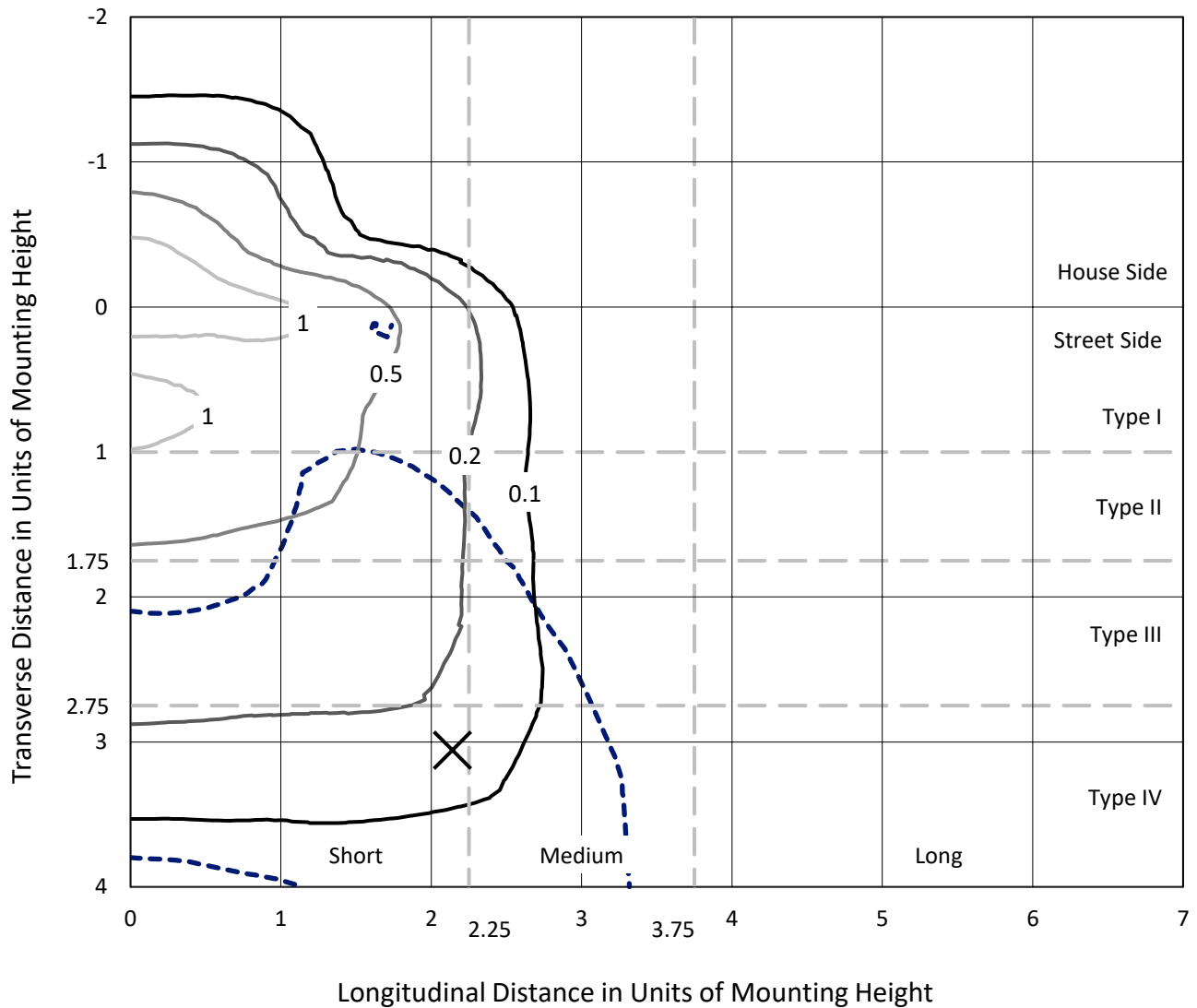
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

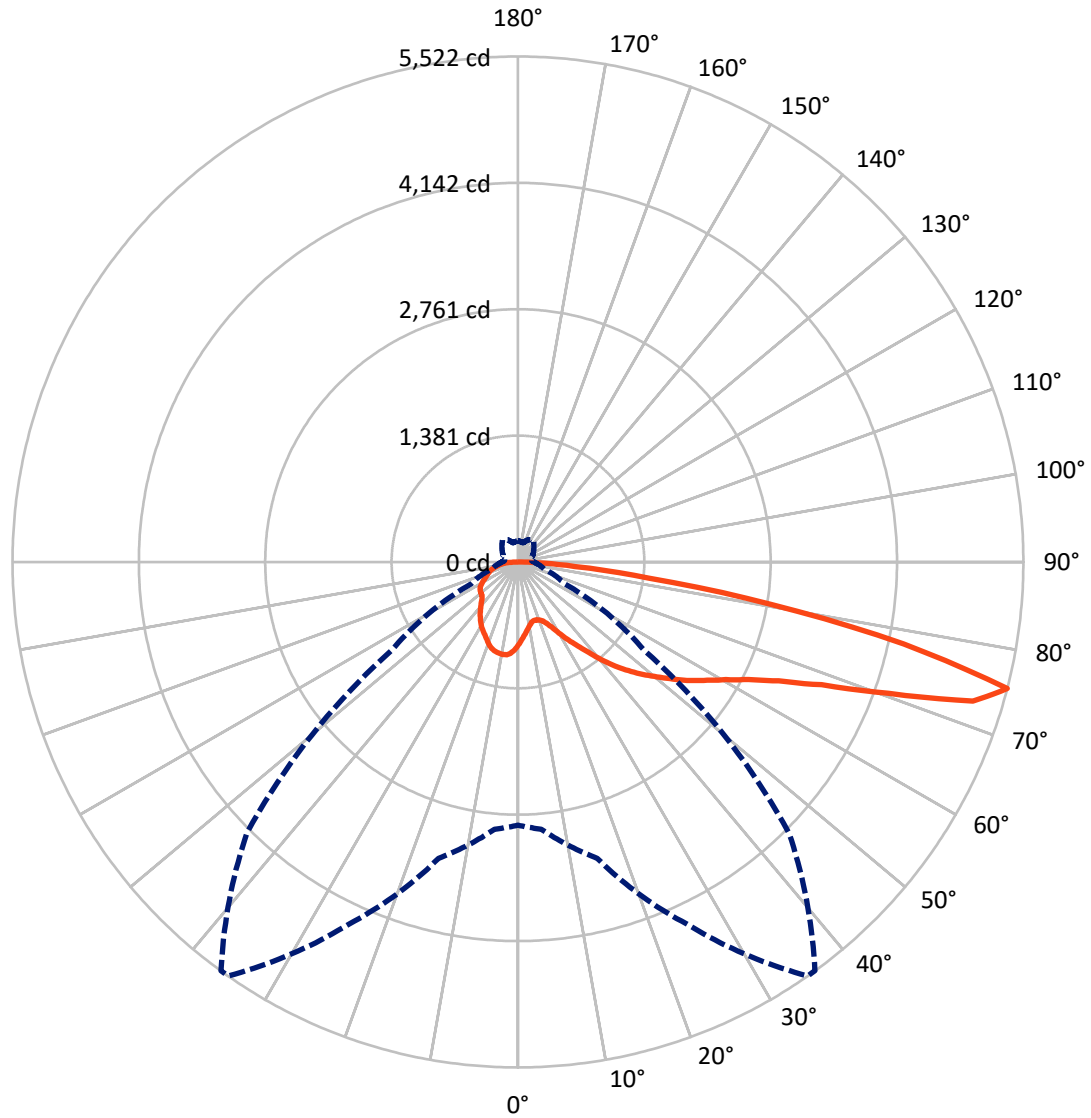
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	1612.3	0.0	1612.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5162.7	0.0	5162.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	6775.0	0.0	6775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.3
10°-20°	246.6	3.6
20°-30°	414.0	6.1
30°-40°	643.5	9.5
40°-50°	955.1	14.1
50°-60°	1318.5	19.5
60°-70°	1599.7	23.6
70°-80°	1322.0	19.5
80°-90°	190.1	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°	6775.0	100.0
0°-180°	6775.0	100.0

Coefficient of Utilization



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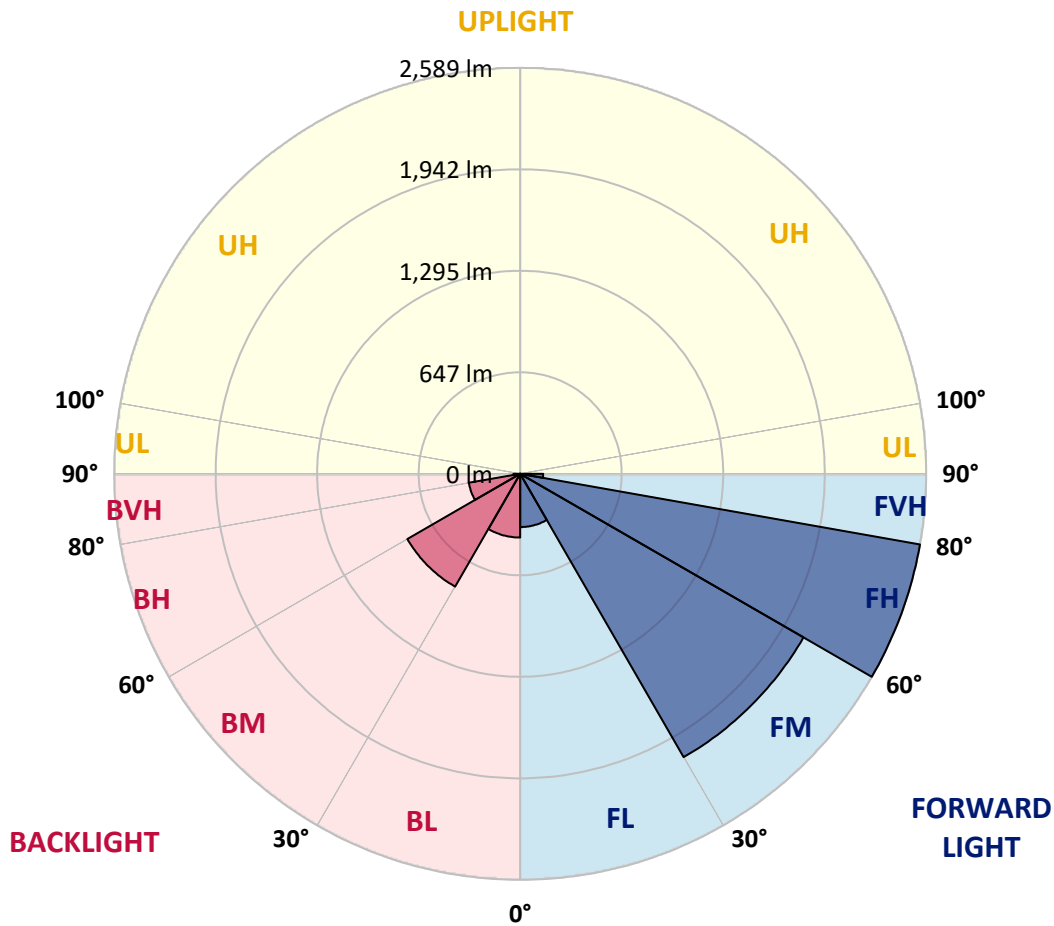
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.8	5.0			
FM (30°-60°)	2086.3	30.8			
FH (60°-80°)	2589.3	38.2			G2/5000
FVH (80°-90°)	147.3	2.2			G2/225
BL (0°-30°)	406.3	6.0	B1/500		
BM (30°-60°)	830.7	12.3	B1/1000		
BH (60°-80°)	332.4	4.9	B1/500		G1/500
BVH (80°-90°)	42.8	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°	902.8	902.8	902.8	902.8	902.8	902.8	902.8	902.8	902.8	902.8
2.5°	832.5	837.6	839.8	838.7	844.2	843.5	851.2	860.7	873.9	886.7
5°	768.4	773.9	778.7	783.0	793.7	797.0	809.1	827.4	851.5	876.1
7.5°	708.7	713.5	720.8	728.8	746.8	750.1	770.2	798.8	832.5	868.4
10°	660.0	664.7	672.4	681.6	703.9	708.0	733.6	771.7	815.6	861.1
12.5°	639.1	640.6	645.0	654.1	673.5	676.1	704.3	747.9	799.2	855.6
15°	638.0	640.9	641.3	646.1	662.2	663.3	689.3	732.5	788.9	854.5
17.5°	649.0	651.2	647.9	650.8	664.4	666.2	686.7	725.2	785.6	859.2
20°	678.3	680.1	670.2	666.2	676.1	677.6	697.7	729.9	788.9	869.1
22.5°	740.6	741.7	717.5	701.0	701.7	702.5	720.1	749.4	801.7	887.1
25°	837.6	836.9	798.4	766.6	748.3	744.2	755.9	780.9	823.3	910.9
27.5°	951.2	945.7	907.2	859.6	819.7	813.8	811.3	821.9	854.1	942.4
30°	1079.3	1074.2	1032.8	970.6	915.3	905.7	881.6	876.1	899.9	985.2
32.5°	1220.0	1216.7	1167.2	1091.8	1017.8	1006.8	966.2	951.5	970.2	1050.0
35°	1337.9	1335.0	1294.0	1216.3	1125.9	1112.3	1070.9	1054.4	1064.0	1133.2
37.5°	1444.5	1443.0	1407.9	1346.7	1253.3	1236.8	1190.3	1184.8	1183.0	1242.7
40°	1543.4	1539.7	1503.1	1470.9	1401.7	1386.6	1345.6	1340.9	1326.9	1377.5
42.5°	1652.9	1643.4	1590.3	1575.3	1556.6	1544.1	1519.6	1520.3	1489.6	1529.5
45°	1742.3	1736.8	1682.2	1673.4	1693.6	1688.4	1709.7	1715.2	1655.5	1688.8
47.5°	1838.2	1833.1	1787.0	1780.7	1835.3	1836.8	1911.8	1913.7	1817.3	1854.3
50°	1956.5	1949.2	1903.4	1911.1	1972.3	1977.8	2115.1	2102.7	1966.4	2022.5
52.5°	2034.5	2038.9	2029.0	2041.5	2125.0	2130.1	2315.1	2283.2	2114.0	2188.4
55°	2092.0	2100.8	2131.6	2160.2	2286.2	2291.3	2503.7	2455.0	2236.3	2342.2
57.5°	2166.0	2153.6	2211.1	2266.7	2439.2	2452.8	2687.2	2620.5	2344.8	2474.8
60°	2272.2	2263.4	2308.1	2390.5	2610.7	2632.3	2881.3	2769.6	2424.2	2579.9
62.5°	2487.6	2465.6	2472.6	2545.5	2826.7	2855.3	3100.3	2899.6	2463.8	2620.9
65°	2809.5	2771.8	2736.6	2787.2	3131.1	3159.3	3347.6	3001.8	2449.1	2541.4
67.5°	3215.0	3177.6	3134.4	3182.0	3579.4	3601.7	3652.6	3059.3	2333.8	2235.2
70°	3549.4	3535.4	3587.1	3783.0	4295.4	4296.2	4043.8	3011.7	2017.7	1584.8
72.5°	3505.0	3496.6	3768.7	4374.5	5197.9	5178.5	4414.1	2651.3	1359.2	714.9
75°	2875.5	2930.0	3351.6	4363.9	5522.0	5519.4	4187.4	1685.5	562.2	296.3
77.5°	1541.9	1628.4	2175.9	3221.9	4310.8	4375.6	2943.9	589.7	241.4	189.7
80°	502.9	578.3	867.3	1640.4	2801.1	2789.0	1261.7	231.5	165.2	134.4
82.5°	213.5	222.3	387.5	774.6	1437.5	1415.2	401.8	132.9	116.1	91.9
85°	83.5	93.4	171.0	358.2	622.6	609.1	145.0	65.9	74.3	60.1
87.5°	27.5	33.3	61.2	122.7	193.7	186.8	35.5	22.7	32.2	27.5
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°
902.8	0°	902.8	902.8	902.8	902.8	902.8	902.8	902.8	902.8	902.8	902.8
905.4	2.5°	910.5	916.4	923.3	933.6	942.4	949.7	957.4	962.1	964.0	969.5
906.8	5°	917.1	929.9	947.1	964.0	980.5	990.3	999.1	1003.5	1007.6	1010.5
910.9	7.5°	928.1	944.6	971.7	993.6	1007.6	1015.6	1021.5	1020.0	1021.5	1022.2
915.3	10°	937.6	960.7	992.9	1013.8	1024.4	1024.8	1023.3	1018.2	1015.6	1016.0
921.9	12.5°	949.0	974.6	1009.4	1027.0	1029.9	1021.8	1015.6	1006.8	1003.5	1002.1
931.7	15°	964.3	993.6	1027.3	1033.9	1026.6	1016.4	1005.7	991.4	984.1	978.3
948.6	17.5°	983.0	1015.3	1041.3	1036.5	1020.7	1003.9	986.7	965.1	950.1	943.8
971.7	20°	1009.0	1038.0	1051.9	1031.0	1007.2	981.6	952.3	925.9	912.0	905.7
1001.0	22.5°	1040.5	1068.4	1062.1	1021.5	987.8	946.8	910.1	890.7	883.8	879.4
1038.7	25°	1078.2	1102.1	1069.5	1007.6	955.9	900.6	872.4	866.2	862.9	859.6
1084.8	27.5°	1127.3	1140.1	1075.0	987.1	906.1	851.5	841.3	842.4	841.3	835.8
1148.9	30°	1192.2	1189.6	1080.1	953.7	849.0	807.2	808.0	812.7	813.4	809.8
1238.3	32.5°	1277.5	1251.5	1082.6	910.5	794.4	768.4	769.1	774.3	777.9	771.7
1355.1	35°	1380.8	1323.6	1078.6	856.3	752.3	731.4	725.9	727.4	728.5	722.6
1496.9	37.5°	1501.3	1404.6	1060.7	796.2	717.5	695.1	683.4	673.5	667.7	662.2
1657.3	40°	1633.5	1492.8	1027.7	737.6	678.7	656.7	639.1	620.4	600.7	593.3
1827.2	42.5°	1771.9	1583.7	987.8	681.6	634.0	616.0	597.4	570.3	540.6	525.6
2003.8	45°	1915.5	1676.7	948.6	626.3	588.2	580.5	558.9	526.3	494.1	475.0
2180.7	47.5°	2056.1	1764.6	891.1	570.6	545.4	553.8	536.9	506.9	471.0	441.0
2356.1	50°	2190.6	1847.0	797.0	514.2	510.6	545.7	529.6	486.4	445.4	406.9
2528.2	52.5°	2323.9	1913.7	676.5	462.9	491.9	543.5	520.1	472.5	422.3	382.0
2690.1	55°	2437.0	1948.1	560.4	419.0	464.8	524.8	508.7	456.0	389.7	346.8
2801.1	57.5°	2501.5	1920.3	463.7	375.8	427.4	494.1	489.3	420.8	350.9	317.9
2822.7	60°	2473.7	1807.5	384.6	338.1	391.9	460.7	455.6	386.0	321.2	290.1
2707.0	62.5°	2320.2	1592.5	321.9	305.1	359.7	426.7	421.9	359.3	298.5	268.5
2399.7	65°	2011.1	1295.4	273.2	277.6	327.1	385.7	392.6	337.0	280.6	251.2
1856.5	67.5°	1533.9	938.3	235.1	253.8	295.2	345.4	365.5	320.8	265.5	237.7
1074.2	70°	874.2	532.9	202.9	230.7	267.0	308.0	344.6	308.0	249.4	226.3
402.5	72.5°	331.5	244.7	175.4	207.7	239.9	276.5	321.6	287.9	230.7	213.5
208.0	75°	176.9	149.1	147.6	180.6	208.8	245.8	292.6	268.1	216.8	225.6
143.9	77.5°	120.5	105.5	123.4	154.6	174.7	211.7	261.9	238.1	187.9	187.2
99.6	80°	83.5	74.7	100.4	124.5	135.1	178.0	228.5	204.4	153.1	142.8
61.5	82.5°	50.2	48.7	75.1	93.0	95.6	137.3	189.4	171.4	125.3	109.1
36.6	85°	27.5	28.9	48.0	54.6	55.7	96.0	148.3	132.6	96.3	80.9
13.2	87.5°	7.7	9.9	17.6	21.6	26.7	49.8	88.3	78.7	48.3	33.7
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>
902.8
969.1
1011.2
1023.3
1016.7
1001.3
980.1
944.2
905.0
880.1
859.6
836.9
811.6
774.6
726.6
665.8
596.6
527.4
473.6
437.7
403.6
377.6
343.2
313.5
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