

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: P946950

Luminaire Tested: **GALN-SB2B-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946950
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-SB2B-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8144 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

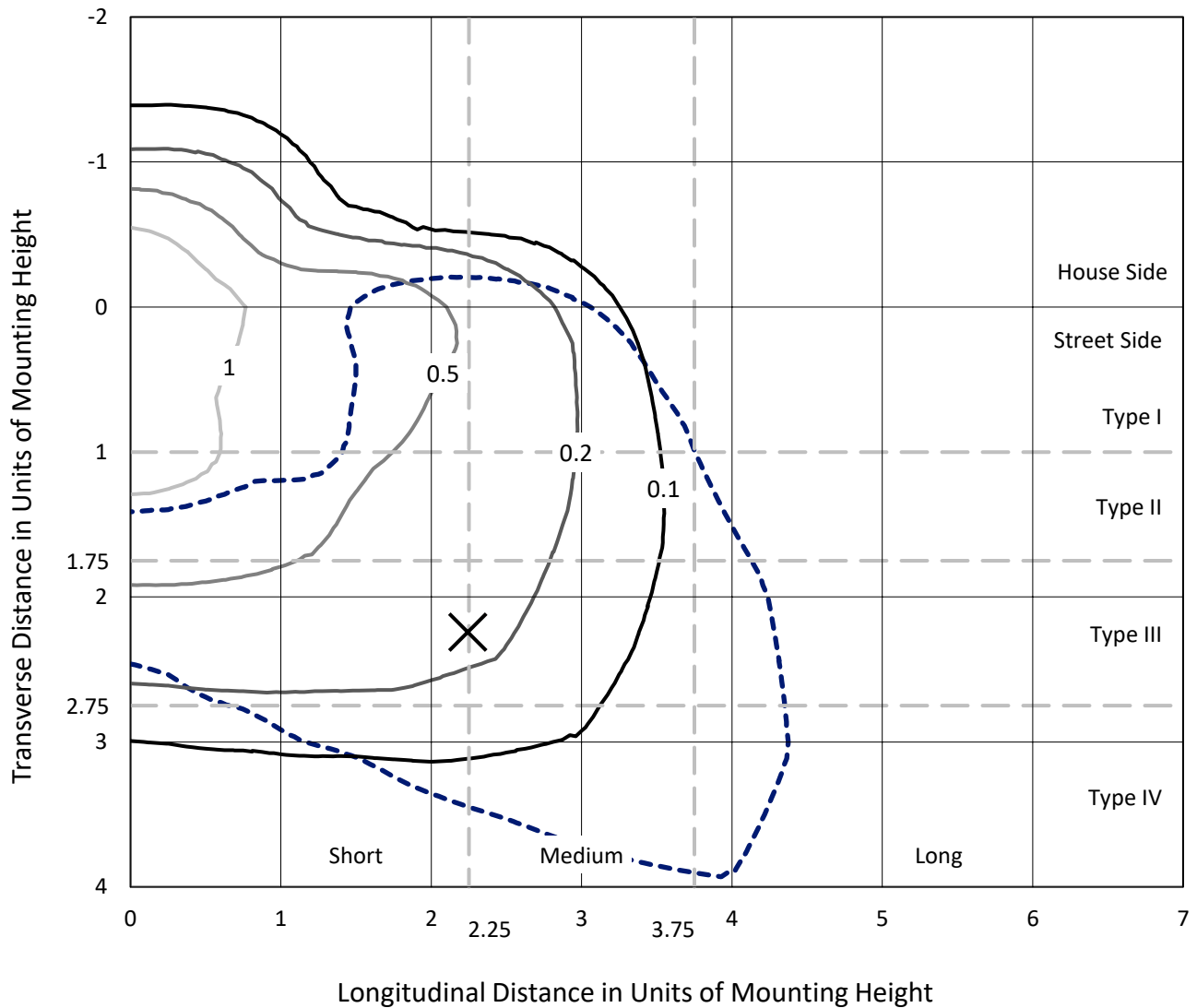
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

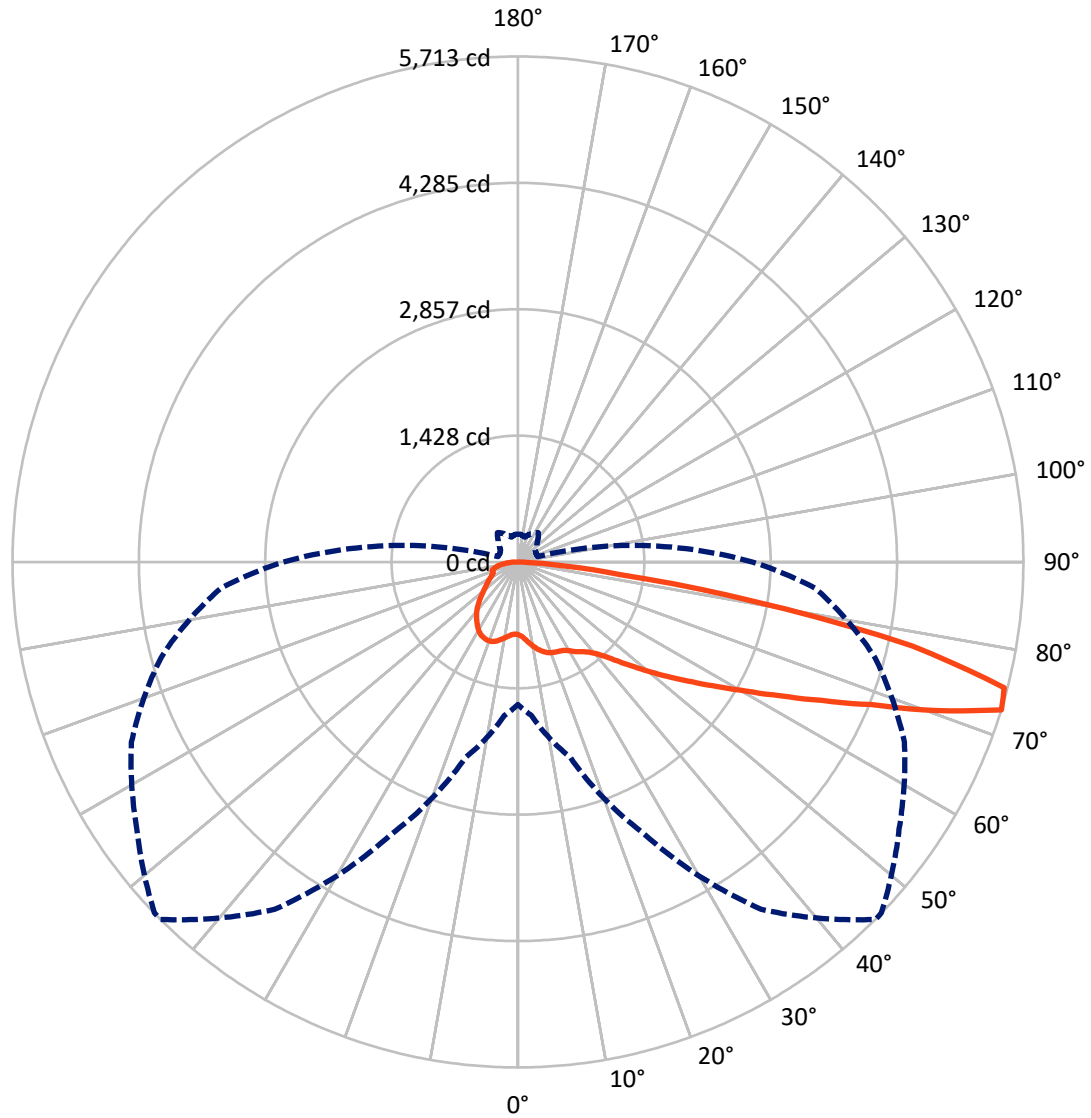
✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1841.1	0.0	1841.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6302.9	0.0	6302.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	8144.0	0.0	8144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	1.0
10°-20°	278.8	3.4
20°-30°	485.0	6.0
30°-40°	695.3	8.5
40°-50°	979.0	12.0
50°-60°	1499.5	18.4
60°-70°	2172.2	26.7
70°-80°	1734.6	21.3
80°-90°	216.0	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°	8144.0	100.0
0°-180°	8144.0	100.0

Coefficient of Utilization



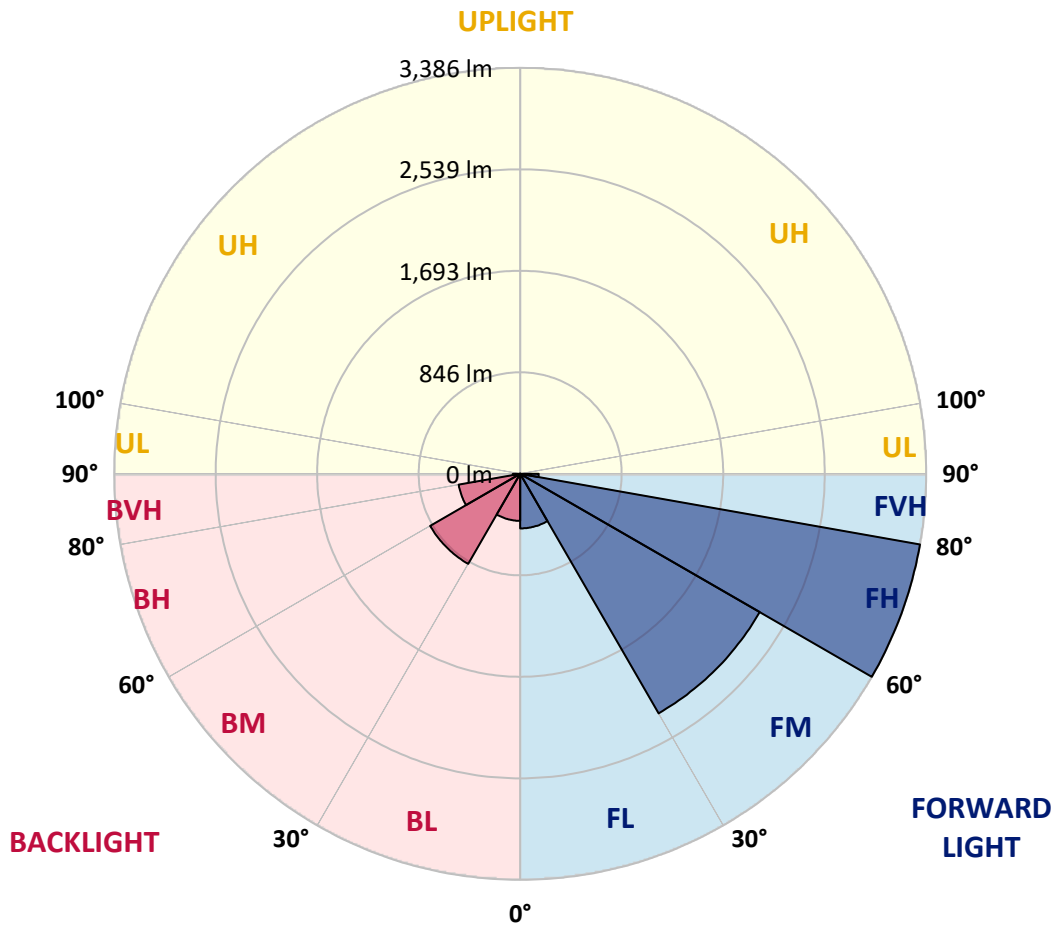
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	455.4	5.6			
FM (30°-60°)	2306.8	28.3			
FH (60°-80°)	3385.7	41.6			G2/5000
FVH (80°-90°)	155.0	1.9			G2/225
BL (0°-30°)	392.0	4.8	B1/500		
BM (30°-60°)	866.9	10.6	B1/1000		
BH (60°-80°)	521.2	6.4	B2/1000		G2/1000
BVH (80°-90°)	61.0	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6
2.5°	853.7	859.3	854.2	849.5	847.3	841.7	841.3	837.9	835.7	829.7
5°	913.4	920.7	912.1	902.7	894.1	880.3	878.6	868.8	857.6	844.7
7.5°	980.7	987.2	977.3	963.1	948.1	925.4	925.0	906.9	889.4	867.5
10°	1039.5	1048.1	1034.8	1015.5	996.6	970.9	967.9	947.3	925.0	896.6
12.5°	1091.4	1097.4	1084.6	1061.0	1039.1	1013.3	1009.5	986.7	961.9	929.7
15°	1132.6	1140.3	1123.2	1097.9	1074.7	1049.4	1045.9	1025.4	1000.5	966.6
17.5°	1159.6	1166.1	1148.5	1120.2	1097.9	1076.8	1074.3	1057.1	1035.2	1000.9
20°	1169.9	1176.8	1158.4	1129.6	1109.0	1092.7	1091.4	1079.0	1064.0	1032.6
22.5°	1180.2	1186.7	1162.6	1132.6	1114.6	1104.3	1103.9	1095.7	1089.7	1064.0
25°	1221.8	1223.6	1191.4	1148.1	1122.3	1113.3	1112.9	1112.4	1115.0	1094.9
27.5°	1257.9	1257.5	1230.0	1189.2	1149.3	1130.5	1130.0	1134.3	1142.5	1125.7
30°	1310.7	1305.9	1273.3	1230.9	1194.4	1165.2	1162.6	1158.8	1165.2	1151.9
32.5°	1422.6	1407.6	1354.8	1279.3	1231.7	1209.4	1206.0	1181.9	1184.5	1176.4
35°	1583.1	1563.3	1493.0	1371.1	1278.0	1246.3	1244.6	1214.1	1209.0	1201.7
37.5°	1774.0	1749.5	1667.6	1504.1	1357.8	1289.2	1286.6	1259.2	1238.1	1230.4
40°	1965.8	1934.9	1867.1	1666.3	1475.4	1360.8	1352.7	1311.1	1287.1	1274.2
42.5°	2152.0	2126.2	2068.3	1848.2	1620.4	1465.5	1447.5	1376.3	1358.3	1346.3
45°	2316.7	2293.5	2251.1	2042.6	1790.3	1608.0	1590.4	1474.1	1468.5	1468.5
47.5°	2450.6	2445.4	2400.4	2240.8	1990.6	1770.1	1739.7	1610.1	1625.1	1648.3
50°	2599.0	2584.8	2536.8	2436.0	2226.2	1955.9	1931.0	1777.0	1833.2	1896.7
52.5°	2735.4	2743.1	2689.5	2639.3	2492.2	2163.1	2119.4	1973.9	2095.3	2200.4
55°	2875.7	2876.1	2861.1	2854.3	2771.0	2392.2	2344.2	2210.7	2403.8	2534.2
57.5°	3007.4	3008.3	3030.6	3091.1	3094.5	2656.5	2602.0	2501.6	2746.6	2879.6
60°	3125.0	3131.0	3191.9	3333.5	3379.0	2959.4	2907.9	2845.3	3100.9	3234.8
62.5°	3164.4	3186.3	3321.9	3523.1	3660.0	3330.9	3280.3	3243.0	3473.3	3597.8
65°	3097.5	3147.7	3409.8	3679.7	3949.1	3772.4	3722.2	3681.4	3860.3	3977.4
67.5°	2933.2	2998.0	3404.7	3844.0	4300.1	4303.5	4256.7	4161.1	4275.2	4320.2
70°	2500.3	2597.3	3104.8	3905.4	4702.9	5029.8	4984.8	4738.5	4689.2	4471.2
72.5°	1611.0	1741.4	2286.2	3400.4	4792.6	5713.2	5710.7	5259.8	4820.0	4177.8
75°	587.8	667.6	1062.3	2134.4	4022.9	5678.5	5695.2	5170.5	4400.0	3227.1
77.5°	214.1	234.2	346.6	820.3	2474.2	4556.2	4590.9	4133.6	3131.8	1619.5
80°	112.4	123.6	177.6	318.3	1060.1	2705.8	2760.3	2456.6	1472.0	487.8
82.5°	62.2	67.4	99.5	172.9	477.5	1157.1	1189.7	970.4	517.8	206.8
85°	33.5	35.6	46.8	94.4	233.4	401.1	410.1	290.0	206.4	121.4
87.5°	9.9	12.0	15.4	30.0	91.4	90.1	92.2	57.5	81.5	61.3
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°
821.6	0°	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6
828.0	2.5°	825.4	824.1	819.4	817.3	814.7	814.3	816.4	816.9	817.3	817.7
837.4	5°	833.2	828.9	824.6	822.0	822.9	823.3	827.6	830.6	832.7	834.4
855.0	7.5°	848.2	844.7	837.4	837.0	838.3	842.2	847.7	854.6	858.5	861.5
877.8	10°	870.5	864.0	855.5	856.8	859.3	864.9	876.5	882.1	888.5	894.1
905.7	12.5°	893.2	887.6	877.8	878.6	882.9	892.8	903.9	910.8	915.1	919.4
935.7	15°	922.8	913.0	902.2	902.2	909.9	920.7	925.8	931.4	934.0	938.7
967.9	17.5°	953.3	940.4	926.3	925.4	934.8	940.0	943.0	943.8	944.7	949.8
999.2	20°	983.7	969.6	949.4	947.7	949.8	949.0	948.6	947.7	949.0	955.4
1031.4	22.5°	1013.8	997.5	969.6	961.9	955.9	947.7	947.3	946.8	947.7	954.1
1066.1	25°	1049.0	1029.2	991.9	968.7	948.6	937.4	938.7	939.1	940.0	945.1
1102.1	27.5°	1087.1	1065.3	1012.5	966.6	930.1	922.4	920.2	921.5	924.5	932.7
1138.2	30°	1125.3	1099.6	1031.4	958.0	906.9	896.2	889.4	892.4	901.8	909.9
1169.5	32.5°	1160.1	1134.3	1046.4	939.1	877.3	860.6	851.6	855.5	864.9	867.9
1204.3	35°	1200.8	1171.7	1052.8	909.1	845.2	819.4	807.4	801.8	806.6	803.6
1245.0	37.5°	1246.3	1215.8	1052.0	869.6	807.4	777.8	761.1	740.1	730.2	719.9
1305.1	40°	1313.7	1269.9	1041.7	822.0	760.7	733.6	703.6	668.0	645.7	625.5
1402.0	42.5°	1405.5	1345.0	1022.8	769.7	707.9	682.6	641.8	600.2	565.0	531.6
1549.2	45°	1542.3	1443.2	999.2	713.9	650.8	625.9	581.7	535.0	495.1	452.2
1758.1	47.5°	1739.7	1575.4	976.9	650.4	590.8	568.0	528.1	484.8	437.6	396.0
2060.1	50°	2010.8	1765.0	956.3	588.6	531.6	514.4	482.6	438.5	390.8	357.4
2414.1	52.5°	2355.7	2022.8	947.7	529.0	476.2	469.8	444.5	403.3	358.2	329.9
2826.8	55°	2751.7	2331.3	947.7	471.9	427.7	429.9	412.3	374.1	335.1	309.8
3252.4	57.5°	3155.9	2643.6	930.5	419.2	386.5	395.6	384.4	350.9	315.8	289.6
3699.9	60°	3528.3	2905.3	861.0	371.1	350.1	364.2	356.9	328.2	285.3	263.4
4074.0	62.5°	3814.4	3052.9	727.2	332.9	320.0	336.4	332.5	298.2	279.7	270.7
4381.1	65°	3957.7	3028.9	556.0	299.0	294.7	320.0	311.9	310.6	296.0	285.7
4481.1	67.5°	3869.7	2822.1	403.3	274.1	280.1	305.0	336.4	341.5	314.5	294.3
4199.7	70°	3484.1	2448.0	300.3	250.5	261.7	305.5	383.5	357.4	308.5	284.9
3368.2	72.5°	2650.5	1825.5	233.0	225.7	237.7	307.6	404.6	350.1	291.3	314.9
2098.3	75°	1515.7	1002.2	187.1	195.2	207.6	287.4	393.8	331.2	278.0	289.2
831.4	77.5°	577.9	385.3	154.4	165.2	166.9	251.0	376.7	329.9	264.7	258.3
249.3	80°	200.4	150.6	127.8	131.3	129.1	223.1	361.2	287.0	216.7	193.9
103.0	82.5°	81.9	75.1	101.2	97.0	91.8	173.3	291.7	234.7	177.2	156.6
49.8	85°	35.6	47.6	66.9	58.8	53.2	120.1	233.8	198.6	149.7	129.1
16.3	87.5°	7.3	18.0	28.3	26.6	27.5	80.2	166.0	141.1	106.0	79.4
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>
821.6
819.4
835.3
862.3
892.8
921.1
940.4
951.6
958.0
958.4
952.0
940.8
919.0
878.6
813.0
726.3
626.8
528.6
447.0
391.3
355.2
327.8
307.2
285.3
260.0
267.7
282.3
290.9
281.0
312.3
289.2
235.5
187.5
154.9
128.7
62.2
0.0

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