

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: P946509

Luminaire Tested: **GALN-SB2A-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946509
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-SB2A-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8564 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

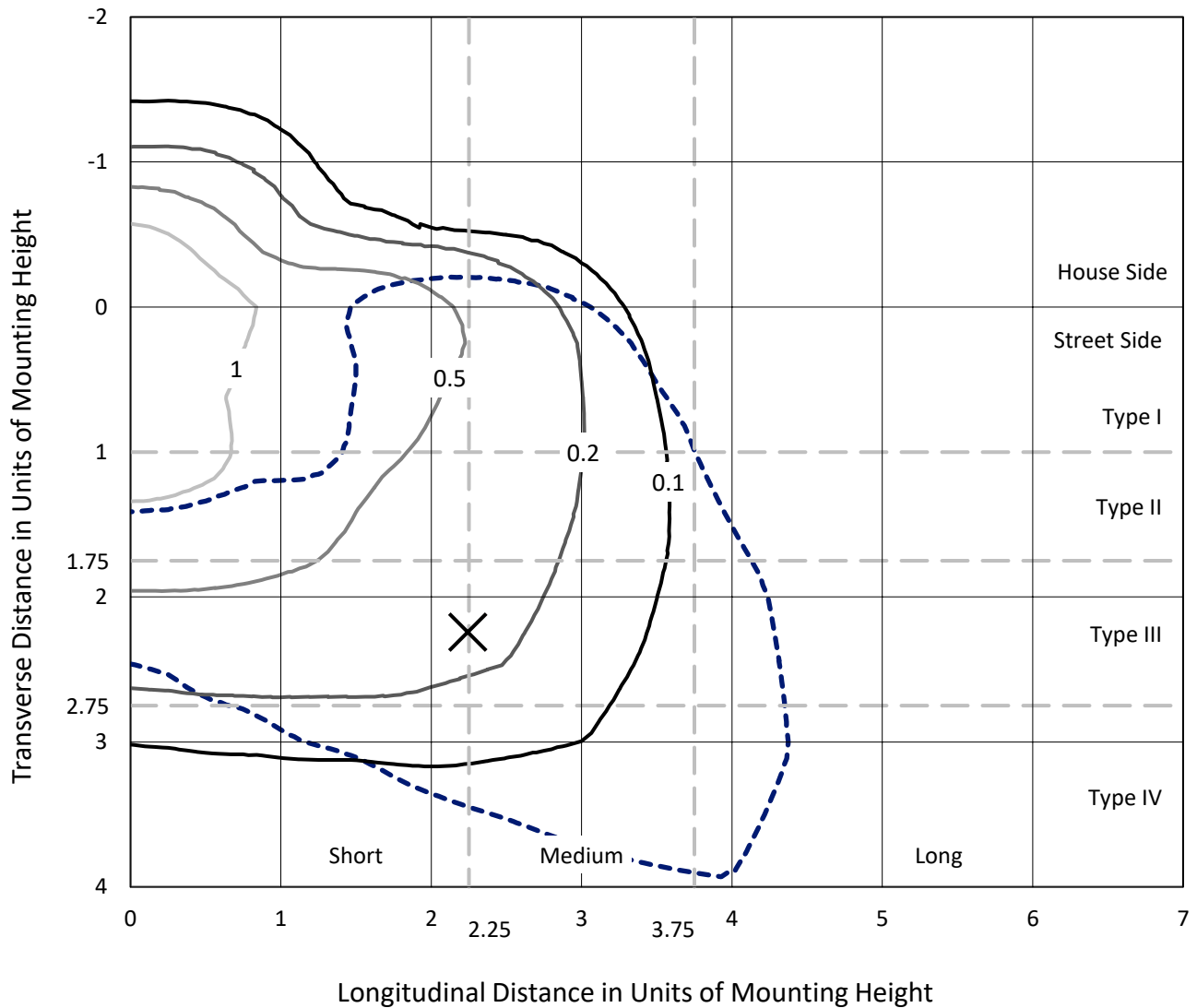
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

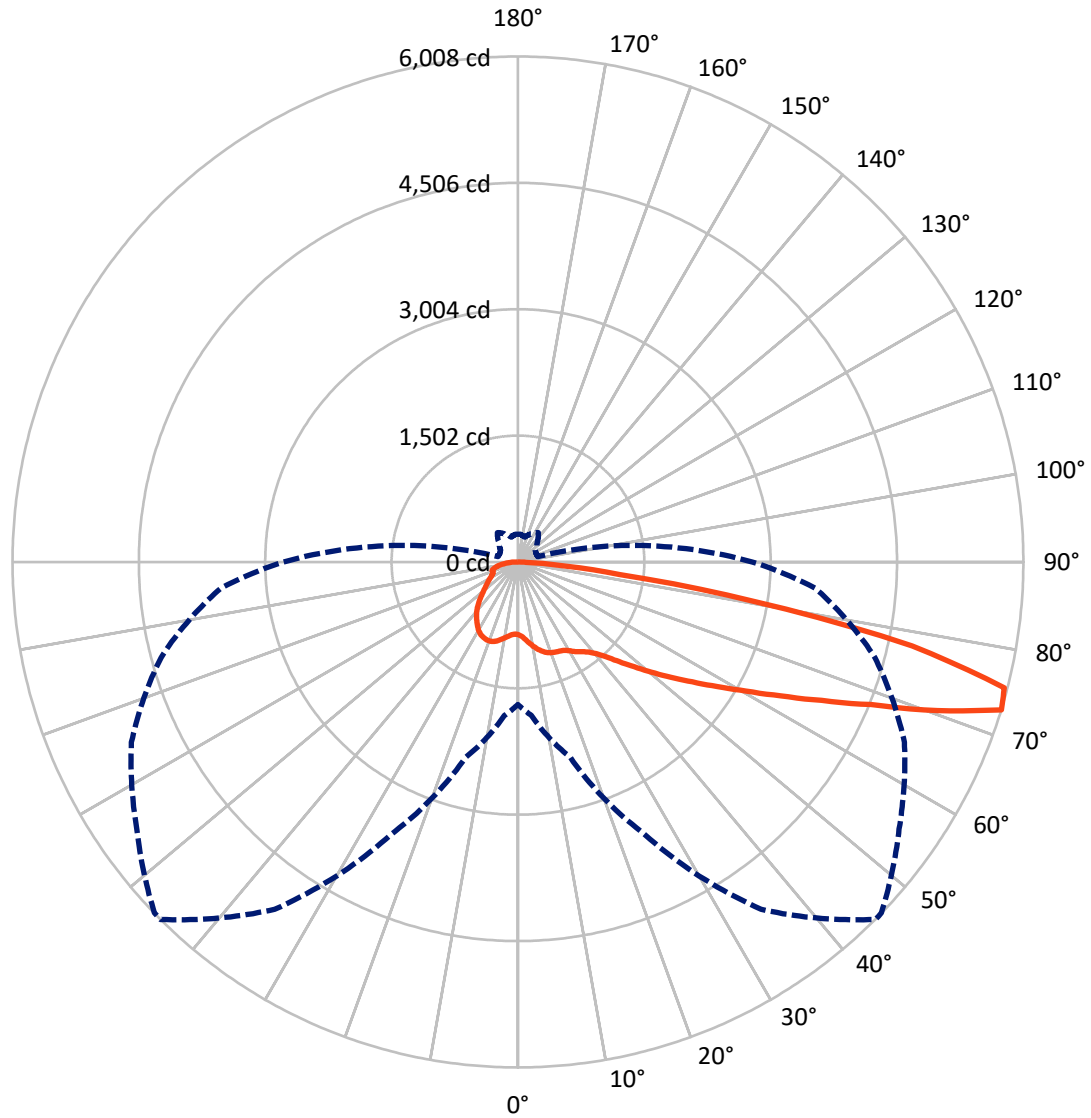
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	1936.0	0.0	1936.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6628.0	0.0	6628.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	8564.0	0.0	8564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	1.0
10°-20°	293.2	3.4
20°-30°	510.0	6.0
30°-40°	731.1	8.5
40°-50°	1029.4	12.0
50°-60°	1576.8	18.4
60°-70°	2284.2	26.7
70°-80°	1824.1	21.3
80°-90°	227.2	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°	8564.0	100.0
0°-180°	8564.0	100.0

Coefficient of Utilization



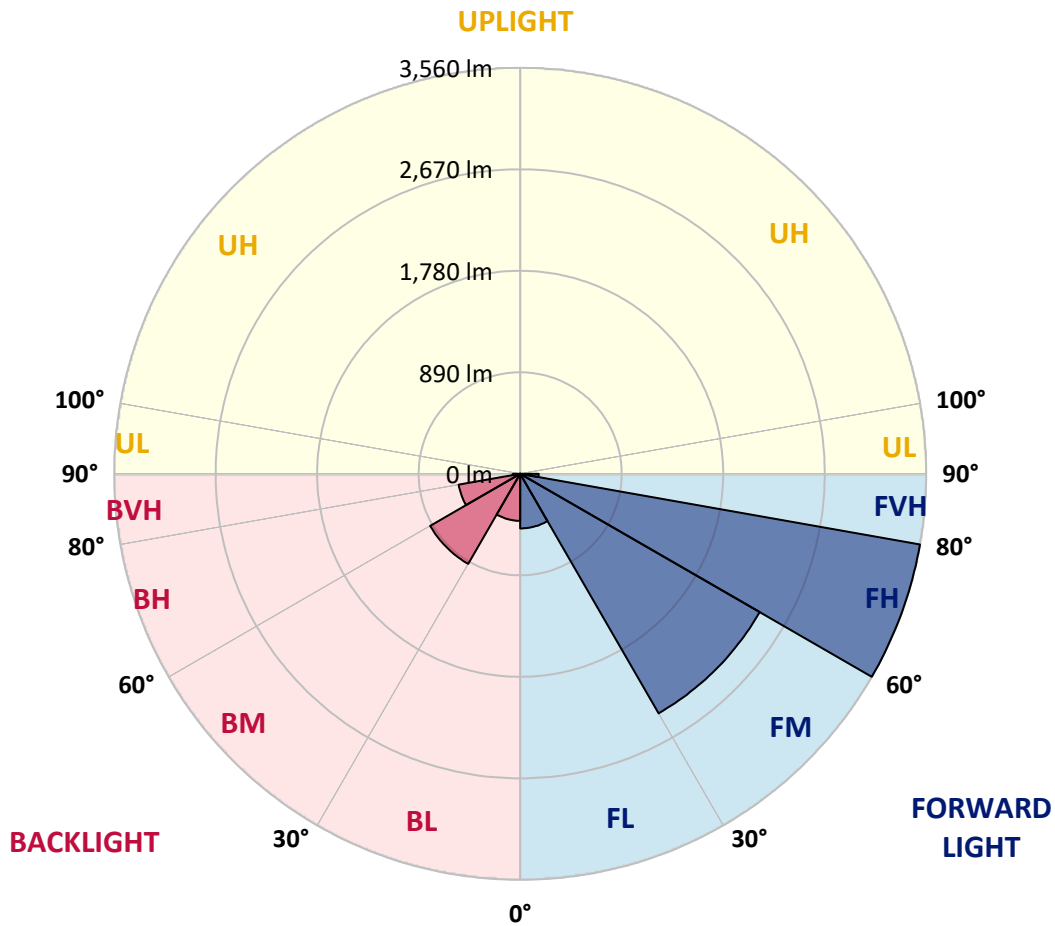
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.9	5.6			
FM (30°-60°)	2425.8	28.3			
FH (60°-80°)	3560.3	41.6			G2/5000
FVH (80°-90°)	163.0	1.9			G2/225
BL (0°-30°)	412.2	4.8	B1/500		
BM (30°-60°)	911.6	10.6	B1/1000		
BH (60°-80°)	548.0	6.4	B2/1000		G2/1000
BVH (80°-90°)	64.2	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°	863.9	863.9	863.9	863.9	863.9	863.9	863.9	863.9	863.9	863.9
2.5°	897.8	903.6	898.2	893.3	891.0	885.1	884.7	881.1	878.8	872.5
5°	960.5	968.2	959.1	949.2	940.2	925.7	923.9	913.6	901.8	888.3
7.5°	1031.3	1038.1	1027.7	1012.8	997.0	973.1	972.7	953.7	935.2	912.2
10°	1093.1	1102.1	1088.2	1067.9	1048.0	1020.9	1017.8	996.1	972.7	942.9
12.5°	1147.7	1154.0	1140.5	1115.7	1092.7	1065.6	1061.5	1037.6	1011.5	977.6
15°	1191.0	1199.1	1181.1	1154.5	1130.1	1103.5	1099.9	1078.2	1052.1	1016.4
17.5°	1219.4	1226.2	1207.7	1177.9	1154.5	1132.4	1129.7	1111.6	1088.6	1052.5
20°	1230.3	1237.5	1218.1	1187.9	1166.2	1149.1	1147.7	1134.6	1118.8	1085.9
22.5°	1241.1	1247.9	1222.6	1191.0	1172.1	1161.2	1160.8	1152.2	1145.9	1118.8
25°	1284.9	1286.7	1252.8	1207.3	1180.2	1170.7	1170.3	1169.8	1172.5	1151.3
27.5°	1322.8	1322.3	1293.4	1250.6	1208.6	1188.8	1188.3	1192.8	1201.4	1183.8
30°	1378.2	1373.3	1339.0	1294.3	1256.0	1225.3	1222.6	1218.5	1225.3	1211.3
32.5°	1496.0	1480.2	1424.7	1345.3	1295.2	1271.8	1268.2	1242.9	1245.6	1237.0
35°	1664.7	1644.0	1570.0	1441.9	1344.0	1310.6	1308.8	1276.7	1271.3	1263.7
37.5°	1865.5	1839.8	1753.6	1581.7	1427.9	1355.7	1353.0	1324.1	1302.0	1293.9
40°	2067.1	2034.7	1963.4	1752.2	1551.5	1431.0	1422.5	1378.7	1353.4	1339.9
42.5°	2262.9	2235.9	2175.0	1943.5	1704.0	1541.1	1522.2	1447.3	1428.3	1415.7
45°	2436.2	2411.8	2367.2	2147.9	1882.6	1690.9	1672.4	1550.1	1544.3	1544.3
47.5°	2576.9	2571.5	2524.2	2356.3	2093.3	1861.4	1829.4	1693.1	1708.9	1733.3
50°	2733.0	2718.1	2667.6	2561.6	2341.0	2056.8	2030.6	1868.6	1927.7	1994.5
52.5°	2876.5	2884.6	2828.2	2775.4	2620.7	2274.7	2228.7	2075.7	2203.4	2313.9
55°	3024.0	3024.5	3008.7	3001.5	2913.9	2515.6	2465.1	2324.7	2527.8	2664.9
57.5°	3162.5	3163.4	3186.9	3250.5	3254.1	2793.5	2736.2	2630.6	2888.2	3028.1
60°	3286.1	3292.4	3356.5	3505.4	3553.2	3112.0	3057.9	2992.0	3260.9	3401.6
62.5°	3327.6	3350.6	3493.2	3704.8	3848.7	3502.7	3449.4	3410.2	3652.5	3783.3
65°	3257.3	3310.0	3585.7	3869.5	4152.8	3966.9	3914.1	3871.3	4059.4	4182.6
67.5°	3084.5	3152.6	3580.3	4042.3	4521.8	4525.4	4476.3	4375.6	4495.7	4543.0
70°	2629.3	2731.2	3264.9	4106.8	4945.4	5289.2	5241.8	4982.9	4931.0	4701.8
72.5°	1694.0	1831.2	2404.1	3575.8	5039.7	6007.9	6005.2	5531.0	5068.6	4393.2
75°	618.1	702.0	1117.0	2244.4	4230.4	5971.3	5988.9	5437.2	4626.9	3393.5
77.5°	225.1	246.3	364.5	862.6	2601.7	4791.2	4827.7	4346.8	3293.4	1703.1
80°	118.2	129.9	186.8	334.7	1114.8	2845.4	2902.7	2583.3	1547.9	513.0
82.5°	65.4	70.8	104.7	181.8	502.1	1216.7	1251.0	1020.5	544.5	217.5
85°	35.2	37.4	49.2	99.3	245.4	421.8	431.3	305.0	217.0	127.7
87.5°	10.4	12.6	16.2	31.6	96.1	94.7	97.0	60.5	85.7	64.5
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°
863.9	0°	863.9	863.9	863.9	863.9	863.9	863.9	863.9	863.9	863.9	863.9
870.7	2.5°	868.0	866.6	861.7	859.4	856.7	856.3	858.5	859.0	859.4	859.9
880.6	5°	876.1	871.6	867.1	864.4	865.3	865.7	870.3	873.4	875.7	877.5
899.1	7.5°	891.9	888.3	880.6	880.2	881.5	885.6	891.5	898.7	902.7	905.9
923.0	10°	915.4	908.6	899.6	900.9	903.6	909.5	921.7	927.6	934.3	940.2
952.4	12.5°	939.3	933.4	923.0	923.9	928.5	938.8	950.6	957.8	962.3	966.8
983.9	15°	970.4	960.0	948.8	948.8	956.9	968.2	973.6	979.4	982.1	987.1
1017.8	17.5°	1002.4	988.9	974.0	973.1	983.0	988.5	991.6	992.5	993.4	998.8
1050.7	20°	1034.5	1019.6	998.4	996.6	998.8	997.9	997.5	996.6	997.9	1004.7
1084.6	22.5°	1066.1	1048.9	1019.6	1011.5	1005.1	996.6	996.1	995.7	996.6	1003.3
1121.1	25°	1103.0	1082.3	1043.0	1018.7	997.5	985.7	987.1	987.6	988.5	993.9
1159.0	27.5°	1143.2	1120.2	1064.7	1016.4	978.1	970.0	967.7	969.1	972.2	980.8
1196.9	30°	1183.4	1156.3	1084.6	1007.4	953.7	942.4	935.2	938.4	948.3	956.9
1229.8	32.5°	1219.9	1192.8	1100.3	987.6	922.6	905.0	895.5	899.6	909.5	912.7
1266.4	35°	1262.8	1232.1	1107.1	956.0	888.8	861.7	849.1	843.2	848.2	845.0
1309.2	37.5°	1310.6	1278.5	1106.2	914.5	849.1	817.9	800.3	778.2	767.8	757.0
1372.4	40°	1381.4	1335.4	1095.4	864.4	799.9	771.5	739.9	702.4	679.0	657.8
1474.3	42.5°	1477.9	1414.3	1075.5	809.4	744.4	717.8	674.9	631.2	594.2	559.0
1629.1	45°	1621.9	1517.6	1050.7	750.7	684.4	658.2	611.8	562.6	520.6	475.5
1848.8	47.5°	1829.4	1656.6	1027.3	683.9	621.2	597.3	555.4	509.8	460.2	416.4
2166.4	50°	2114.5	1856.0	1005.6	619.0	559.0	540.9	507.5	461.1	411.0	375.8
2538.6	52.5°	2477.2	2127.1	996.6	556.3	500.8	494.0	467.4	424.1	376.7	346.9
2972.6	55°	2893.6	2451.5	996.6	496.3	449.8	452.0	433.5	393.4	352.3	325.7
3420.1	57.5°	3318.6	2779.9	978.5	440.8	406.5	416.0	404.2	369.0	332.0	304.5
3890.7	60°	3710.2	3055.1	905.4	390.2	368.1	383.0	375.4	345.1	300.0	277.0
4284.1	62.5°	4011.1	3210.3	764.7	350.1	336.6	353.7	349.6	313.5	294.1	284.7
4607.1	65°	4161.8	3185.1	584.7	314.4	309.9	336.6	328.0	326.6	311.3	300.5
4712.2	67.5°	4069.3	2967.6	424.1	288.3	294.6	320.8	353.7	359.1	330.7	309.5
4416.2	70°	3663.7	2574.2	315.8	263.5	275.2	321.2	403.3	375.8	324.4	299.6
3541.9	72.5°	2787.2	1919.6	245.0	237.3	249.9	323.5	425.4	368.1	306.3	331.1
2206.5	75°	1593.9	1053.9	196.7	205.3	218.4	302.3	414.2	348.3	292.3	304.1
874.3	77.5°	607.7	405.1	162.4	173.7	175.5	263.9	396.1	346.9	278.4	271.6
262.1	80°	210.7	158.4	134.4	138.1	135.8	234.6	379.9	301.8	227.8	203.9
108.3	82.5°	86.2	79.0	106.5	102.0	96.5	182.3	306.8	246.8	186.3	164.7
52.3	85°	37.4	50.1	70.4	61.8	55.9	126.3	245.9	208.9	157.4	135.8
17.1	87.5°	7.7	18.9	29.8	28.0	28.9	84.4	174.6	148.4	111.4	83.5
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>
863.9
861.7
878.4
906.8
938.8
968.6
988.9
1000.6
1007.4
1007.9
1001.1
989.4
966.4
923.9
854.9
763.8
659.1
555.8
470.1
411.4
373.5
344.7
323.0
300.0
273.4
281.5
296.9
305.9
295.5
328.4
304.1
247.7
197.1
162.9
135.3
65.4
0.0

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