

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: P946253

Luminaire Tested: **GALN-SB1D-950-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7176 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

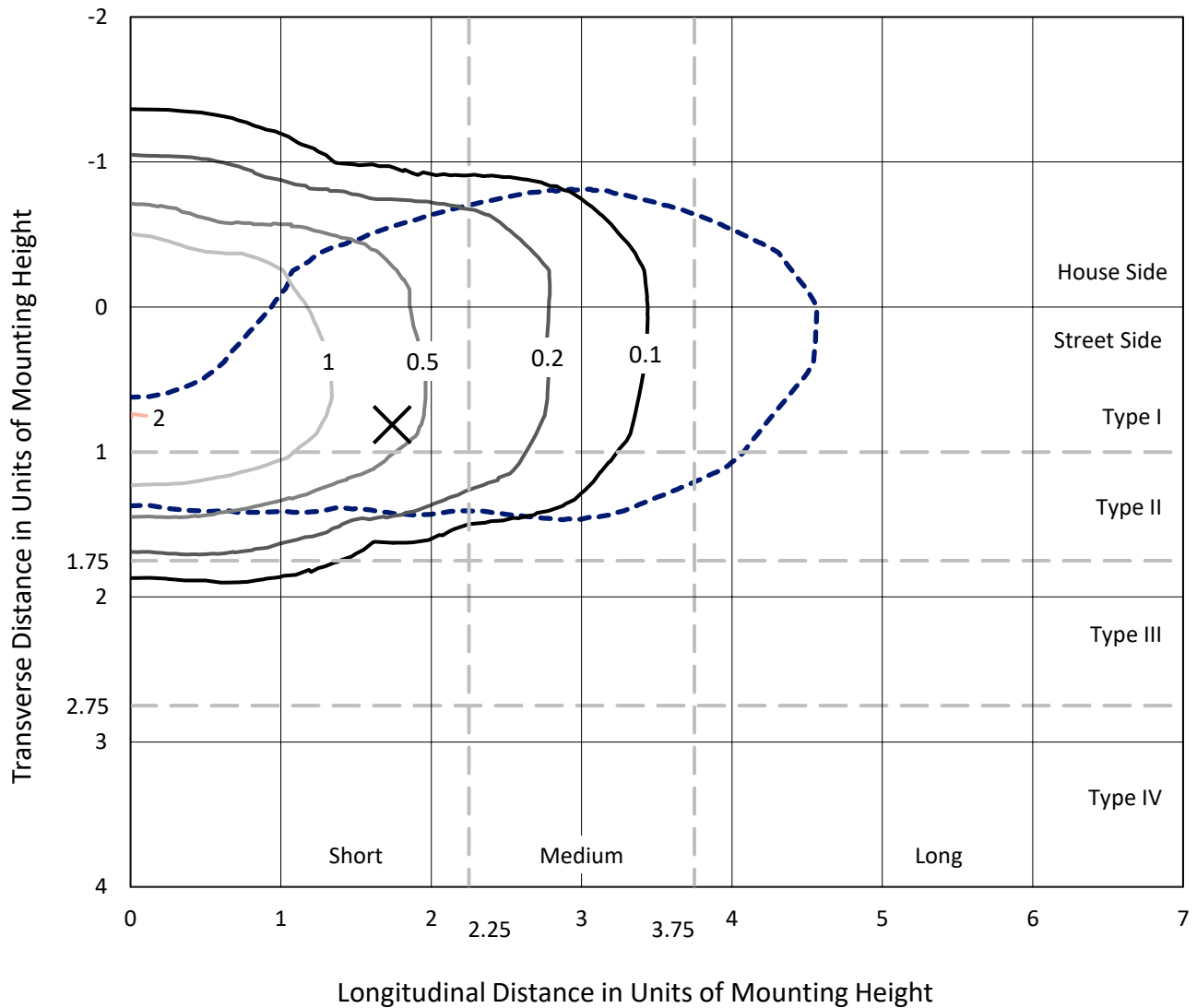
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

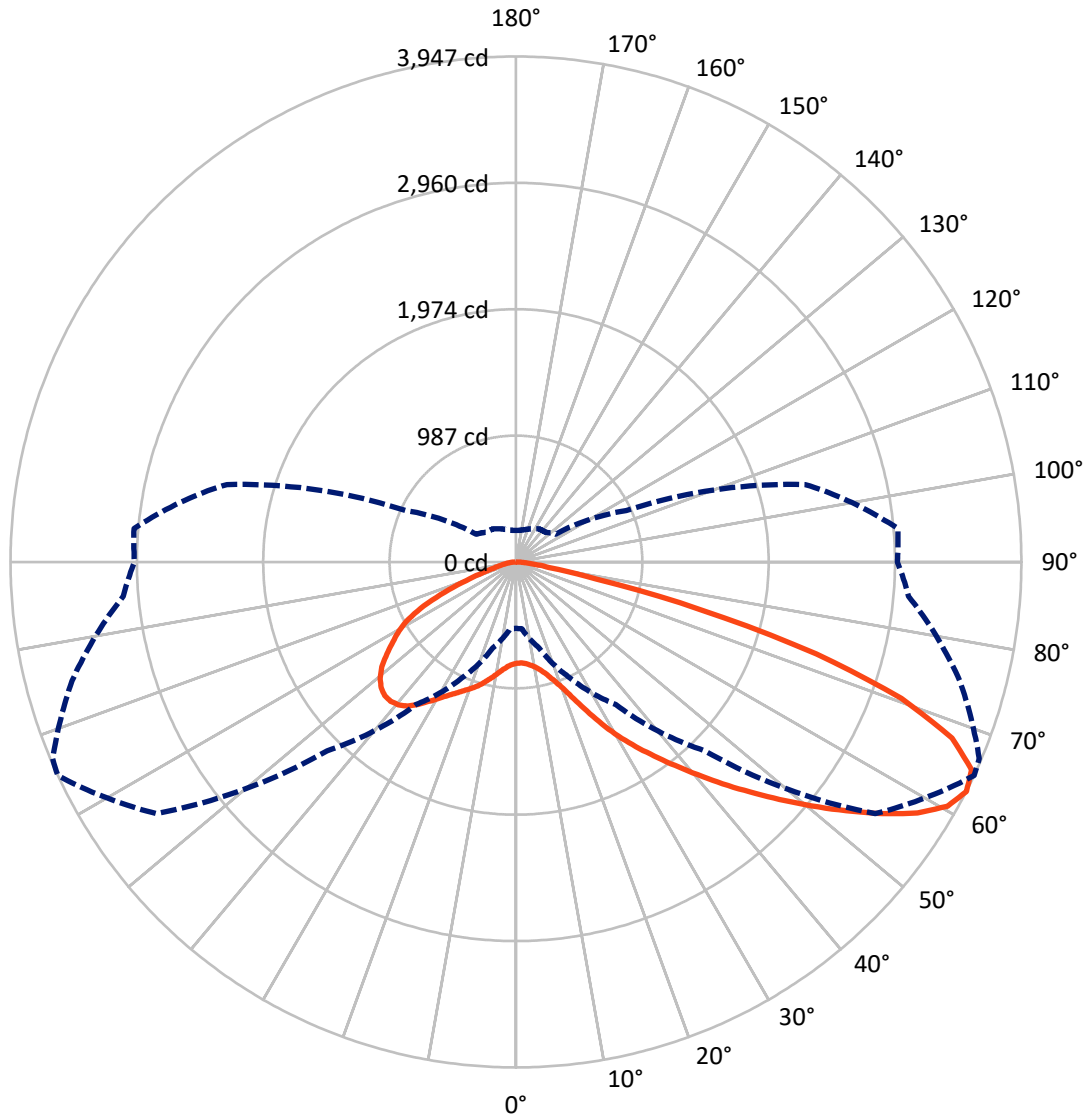
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2264.4	0.0	2264.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	4911.6	0.0	4911.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	7176.0	0.0	7176.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	1.1
10°-20°	267.3	3.7
20°-30°	542.1	7.6
30°-40°	938.1	13.1
40°-50°	1419.6	19.8
50°-60°	1664.3	23.2
60°-70°	1395.4	19.4
70°-80°	770.3	10.7
80°-90°	100.1	1.4
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°	7176.0	100.0
0°-180°	7176.0	100.0



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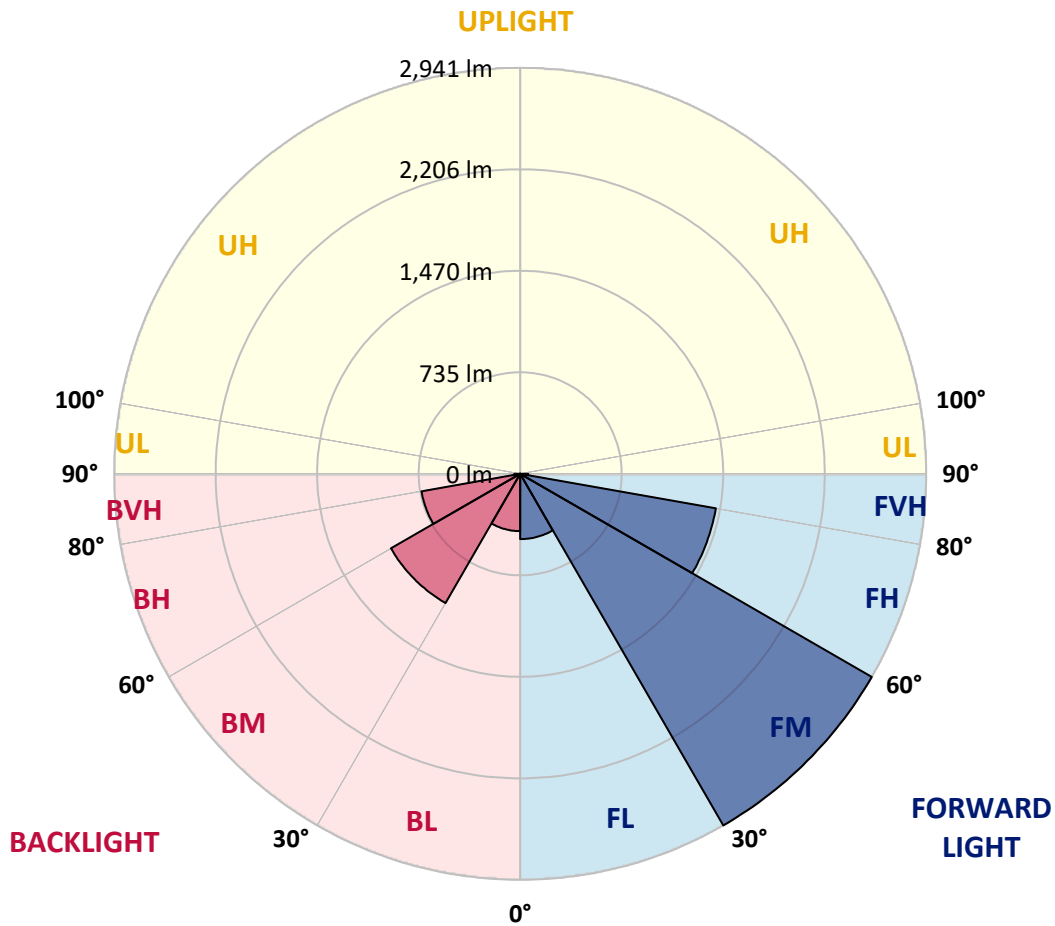
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.0	6.6			
FM (30°-60°)	2941.0	41.0			
FH (60°-80°)	1439.3	20.1			G1/1800
FVH (80°-90°)	58.3	0.8			G1/100
BL (0°-30°)	415.3	5.8	B1/500		
BM (30°-60°)	1081.0	15.1	B2/2500		
BH (60°-80°)	726.4	10.1	B2/1000		G2/1000
BVH (80°-90°)	41.7	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8
2.5°	785.6	783.3	785.2	785.2	785.9	785.6	788.2	788.9	790.0	792.3
5°	777.7	777.4	780.7	783.7	786.7	789.3	792.6	797.5	798.2	800.8
7.5°	775.1	772.9	778.1	781.8	788.9	795.2	804.2	812.4	815.7	816.8
10°	795.2	791.5	796.3	798.6	804.5	810.9	821.3	834.3	838.0	842.5
12.5°	829.5	825.4	832.5	835.8	841.4	847.0	854.1	866.7	868.6	876.8
15°	876.4	871.6	876.0	880.1	889.4	894.6	901.7	914.0	914.0	920.3
17.5°	940.1	933.7	937.1	938.6	944.5	952.3	964.3	975.1	980.6	978.4
20°	1035.0	1027.2	1027.2	1019.7	1017.5	1023.8	1039.5	1054.4	1060.3	1048.8
22.5°	1177.6	1166.4	1160.1	1134.8	1124.7	1125.5	1141.1	1159.3	1164.2	1143.7
25°	1358.9	1341.4	1332.8	1295.6	1272.9	1253.2	1265.4	1288.9	1295.6	1270.3
27.5°	1540.2	1541.3	1533.1	1488.5	1450.9	1414.7	1408.4	1433.0	1440.1	1411.4
30°	1794.5	1768.1	1752.4	1698.8	1645.2	1594.6	1568.5	1578.5	1580.4	1546.2
32.5°	2013.8	2007.1	1973.6	1926.6	1857.8	1778.5	1734.9	1718.9	1715.9	1667.2
35°	2263.6	2259.9	2224.5	2168.6	2094.2	1984.0	1905.4	1859.6	1855.9	1787.4
37.5°	2517.5	2517.5	2482.9	2421.8	2344.7	2207.0	2087.5	2014.9	2003.0	1913.6
40°	2720.0	2707.7	2714.1	2688.4	2600.1	2453.8	2289.6	2184.3	2168.3	2061.0
42.5°	2835.1	2831.0	2868.9	2897.6	2861.5	2744.6	2512.3	2367.8	2345.5	2223.4
45°	2860.7	2856.3	2924.0	3029.0	3079.7	3031.6	2754.3	2561.0	2533.9	2393.1
47.5°	2801.6	2792.6	2892.0	3057.7	3220.0	3304.5	3016.4	2770.7	2731.2	2558.4
50°	2623.6	2615.0	2765.4	2985.5	3267.3	3489.9	3300.8	2992.9	2932.6	2735.7
52.5°	2236.8	2240.9	2476.5	2778.8	3205.1	3605.3	3545.8	3227.1	3154.5	2917.0
55°	1742.4	1751.3	2040.9	2373.8	2956.4	3587.9	3712.9	3468.3	3396.1	3087.5
57.5°	1247.6	1287.0	1558.4	1887.9	2478.8	3310.5	3749.4	3697.7	3627.7	3273.6
60°	808.6	815.7	1094.9	1427.0	1887.6	2817.6	3675.3	3871.5	3816.8	3463.5
62.5°	518.2	523.1	693.2	998.1	1358.5	2084.5	3425.9	3947.1	3930.4	3589.0
65°	380.9	377.1	465.7	659.7	915.1	1285.6	2941.5	3910.6	3943.8	3667.5
67.5°	317.9	312.7	356.3	456.8	674.2	730.1	2176.5	3673.5	3794.8	3658.6
70°	289.6	285.2	311.6	339.2	526.1	488.8	1097.2	3193.6	3380.5	3556.9
72.5°	245.3	237.5	273.6	301.2	409.2	374.9	453.5	2453.1	2680.9	3231.2
75°	190.2	185.0	215.9	265.1	307.5	292.6	286.7	1489.6	1738.3	2498.9
77.5°	150.8	143.7	172.0	206.6	276.6	220.8	208.9	641.5	887.9	1595.3
80°	113.6	107.2	130.7	163.4	212.6	166.4	135.1	261.7	334.7	808.3
82.5°	80.8	75.2	91.2	119.9	143.0	149.3	83.0	146.7	164.9	311.6
85°	51.7	48.4	61.1	75.2	90.8	96.1	50.6	76.7	84.1	128.4
87.5°	28.3	23.1	32.8	35.0	42.1	38.3	24.2	27.9	30.2	46.5
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°
790.8	0°	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8
792.3	2.5°	793.7	794.9	798.6	799.7	802.3	805.7	807.9	810.1	810.1	812.4
804.2	5°	804.5	807.1	815.0	819.1	825.8	832.5	836.6	841.4	844.4	845.9
823.2	7.5°	825.4	829.5	840.7	847.7	859.3	868.6	874.9	881.6	883.1	887.2
849.6	10°	853.7	858.5	871.2	884.6	898.4	909.9	915.9	920.7	922.6	923.3
883.5	12.5°	886.1	893.1	909.5	925.9	940.4	950.5	952.0	950.9	945.6	941.2
925.2	15°	925.9	932.2	950.5	968.4	982.5	984.4	975.1	969.1	962.8	961.6
971.7	17.5°	973.6	976.9	993.7	1011.2	1012.3	1006.0	992.2	986.6	980.6	976.5
1032.4	20°	1029.0	1027.9	1039.8	1047.3	1039.5	1020.1	999.3	989.9	984.0	979.1
1106.8	22.5°	1095.3	1086.7	1085.3	1083.4	1062.5	1022.0	993.7	981.8	972.4	965.7
1210.7	25°	1191.7	1159.0	1136.3	1123.6	1076.7	1011.9	975.8	949.4	931.9	920.3
1337.7	27.5°	1312.4	1257.3	1199.9	1169.0	1076.7	991.4	932.6	889.8	861.1	849.2
1460.5	30°	1427.4	1369.7	1285.2	1223.7	1074.1	957.9	863.0	803.4	769.9	758.0
1565.5	32.5°	1525.7	1462.8	1375.6	1283.7	1067.8	903.6	776.6	710.7	678.3	664.2
1669.4	35°	1616.9	1549.9	1466.5	1349.6	1051.0	823.9	681.7	631.4	595.3	572.6
1775.1	37.5°	1710.3	1630.7	1552.5	1409.2	1020.8	730.8	608.7	565.9	523.5	492.9
1887.6	40°	1812.0	1716.7	1644.4	1444.5	971.3	642.2	552.1	513.0	468.0	435.6
2017.1	42.5°	1930.7	1819.8	1746.8	1462.8	903.6	579.3	515.3	476.9	434.5	408.0
2156.0	45°	2054.7	1933.4	1840.3	1462.4	828.0	549.9	503.3	465.4	418.5	390.9
2298.6	47.5°	2184.7	2052.1	1921.1	1438.6	762.5	554.0	496.6	440.4	388.7	361.9
2442.7	50°	2315.0	2182.0	1999.2	1393.9	734.5	545.0	471.7	405.4	344.4	320.2
2577.8	52.5°	2444.1	2320.2	2066.6	1330.2	706.3	511.9	439.7	360.0	326.1	309.4
2717.4	55°	2574.1	2456.8	2140.0	1237.5	635.5	473.2	386.1	342.9	311.6	296.4
2854.0	57.5°	2704.4	2614.7	2209.6	1144.8	546.5	425.5	356.7	322.0	297.1	284.1
2968.3	60°	2839.9	2795.2	2281.5	1059.6	458.7	364.5	335.1	305.3	280.0	265.4
3078.2	62.5°	2979.5	2994.0	2337.7	949.7	377.9	327.3	315.7	285.2	260.6	246.8
3169.0	65°	3120.2	3185.8	2374.5	797.5	306.4	291.9	294.9	263.2	238.3	226.4
3235.7	67.5°	3226.3	3323.9	2364.1	603.5	251.3	258.4	268.8	240.1	216.7	207.4
3224.9	70°	3238.3	3307.5	2261.3	413.3	210.3	225.6	239.8	217.4	193.2	186.5
3073.0	72.5°	3079.7	3084.1	1975.0	269.9	178.0	198.1	209.2	194.3	170.9	164.2
2688.4	75°	2663.8	2550.6	1450.1	178.0	148.9	170.1	180.6	170.1	147.4	148.9
2011.5	77.5°	2018.2	1806.4	880.5	126.6	124.3	143.0	157.1	149.7	130.3	146.3
1011.5	80°	1039.8	977.3	392.8	94.6	98.3	114.3	129.2	119.5	103.1	98.3
226.0	82.5°	238.3	277.0	154.9	67.8	71.1	82.3	98.7	89.7	74.1	62.5
94.2	85°	83.4	91.2	68.5	42.4	41.7	51.4	67.0	59.9	50.3	40.2
39.8	87.5°	26.4	34.6	25.7	17.1	17.9	23.1	30.9	28.3	23.5	15.3
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>
790.8
812.4
846.6
885.7
921.4
941.2
961.6
976.9
979.5
968.0
924.8
855.2
765.1
671.3
580.0
501.1
441.9
413.3
395.4
365.6
321.7
309.4
294.9
281.8
264.3
246.5
226.0
207.7
186.9
163.8
143.7
128.8
89.7
61.8
42.4
16.0
0.0

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