

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: P946236

Luminaire Tested: **GALN-SB1D-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946236
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-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7362 lumens
Efficiency: N/A
Efficacy: 92.5 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

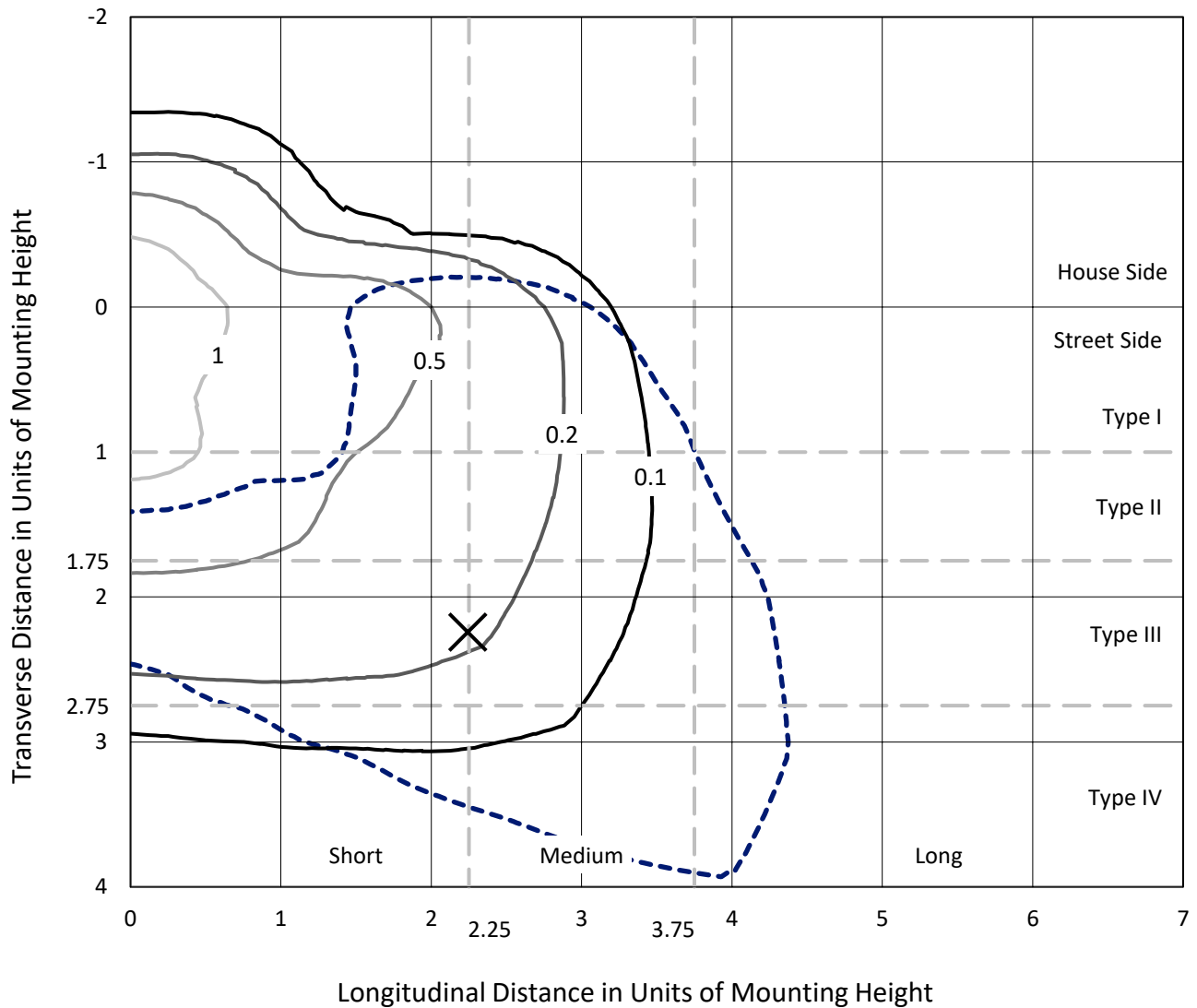
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

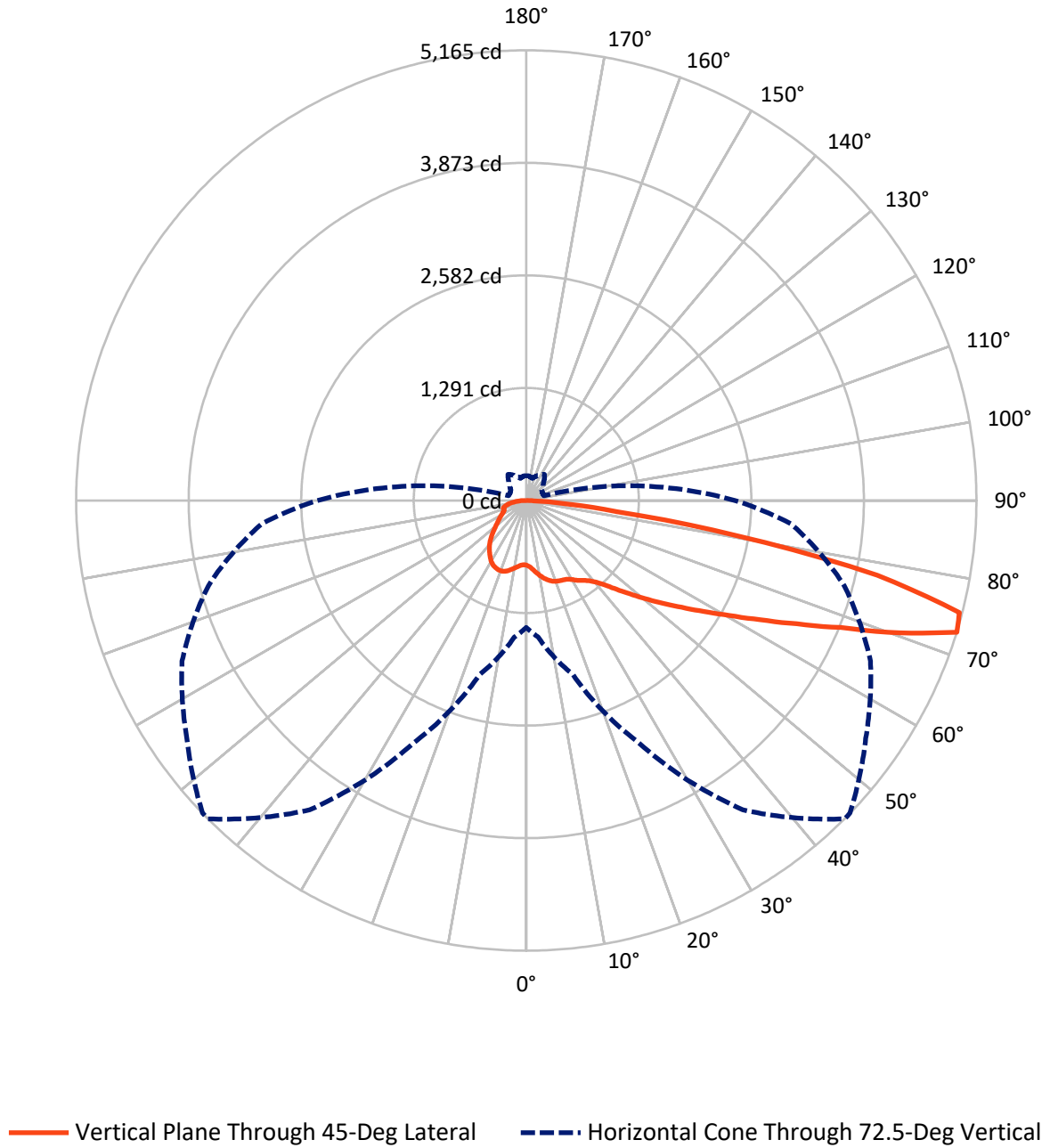
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1664.3	0.0	1664.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5697.7	0.0	5697.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	7362.0	0.0	7362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.0
10°-20°	252.0	3.4
20°-30°	438.4	6.0
30°-40°	628.5	8.5
40°-50°	885.0	12.0
50°-60°	1355.5	18.4
60°-70°	1963.6	26.7
70°-80°	1568.1	21.3
80°-90°	195.3	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°	7362.0	100.0
0°-180°	7362.0	100.0

Coefficient of Utilization



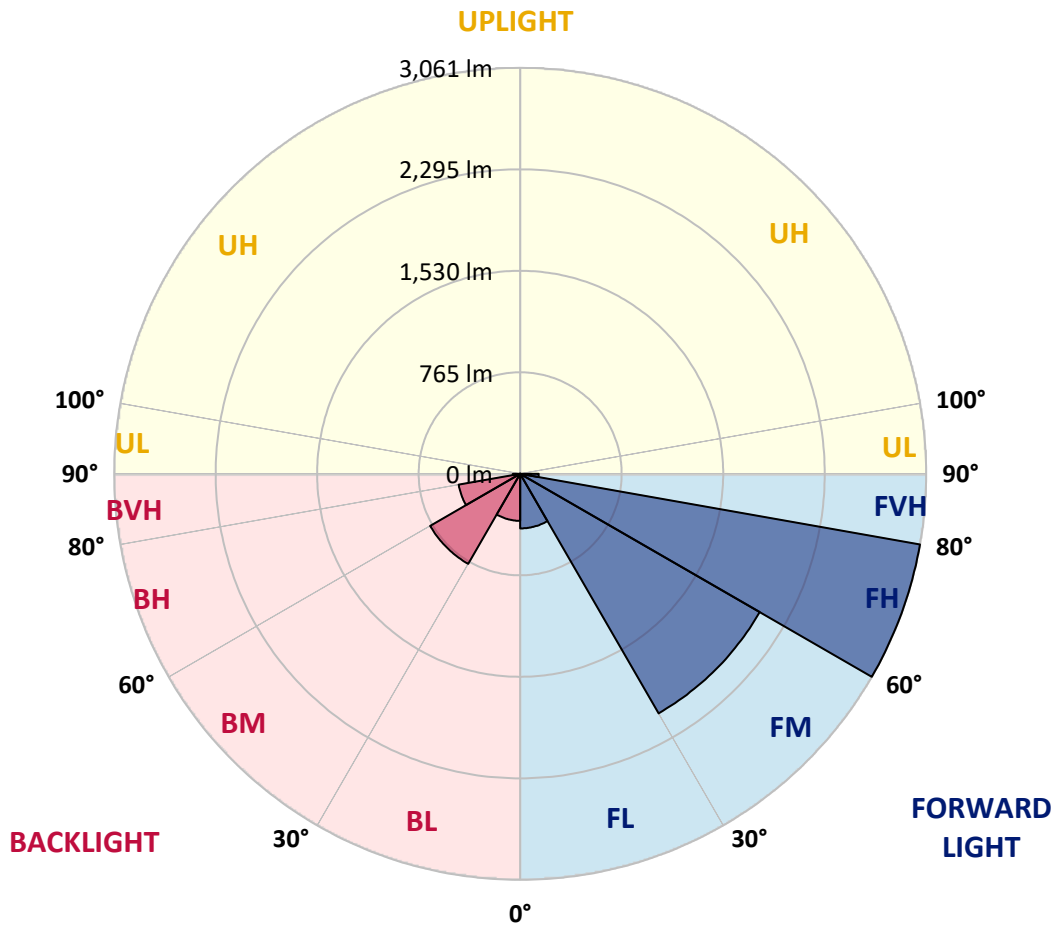
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.7	5.6			
FM (30°-60°)	2085.3	28.3			
FH (60°-80°)	3060.6	41.6			G2/5000
FVH (80°-90°)	140.1	1.9			G2/225
BL (0°-30°)	354.3	4.8	B1/500		
BM (30°-60°)	783.6	10.6	B1/1000		
BH (60°-80°)	471.1	6.4	B1/500		G1/500
BVH (80°-90°)	55.2	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7
2.5°	771.8	776.8	772.2	767.9	766.0	760.9	760.5	757.4	755.5	750.1
5°	825.7	832.3	824.5	816.0	808.2	795.8	794.3	785.3	775.3	763.6
7.5°	886.6	892.4	883.5	870.7	857.1	836.5	836.1	819.9	804.0	784.2
10°	939.7	947.5	935.4	918.0	900.9	877.6	874.9	856.3	836.1	810.6
12.5°	986.6	992.1	980.4	959.1	939.3	916.0	912.5	892.0	869.5	840.4
15°	1023.9	1030.8	1015.3	992.4	971.5	948.6	945.5	926.9	904.4	873.8
17.5°	1048.3	1054.1	1038.2	1012.6	992.4	973.4	971.1	955.6	935.8	904.8
20°	1057.6	1063.8	1047.1	1021.1	1002.5	987.8	986.6	975.4	961.8	933.5
22.5°	1066.9	1072.7	1051.0	1023.9	1007.6	998.3	997.9	990.5	985.1	961.8
25°	1104.5	1106.1	1077.0	1037.8	1014.5	1006.4	1006.0	1005.6	1008.0	989.7
27.5°	1137.1	1136.7	1111.9	1075.0	1039.0	1021.9	1021.5	1025.4	1032.8	1017.6
30°	1184.8	1180.5	1151.1	1112.7	1079.7	1053.3	1051.0	1047.5	1053.3	1041.3
32.5°	1286.0	1272.4	1224.7	1156.5	1113.4	1093.3	1090.2	1068.5	1070.8	1063.4
35°	1431.1	1413.2	1349.6	1239.5	1155.3	1126.6	1125.1	1097.5	1092.9	1086.3
37.5°	1603.7	1581.5	1507.5	1359.7	1227.5	1165.4	1163.1	1138.3	1119.3	1112.3
40°	1777.0	1749.1	1687.8	1506.3	1333.7	1230.2	1222.8	1185.2	1163.5	1151.8
42.5°	1945.3	1922.1	1869.7	1670.7	1464.8	1324.8	1308.5	1244.1	1227.9	1217.0
45°	2094.2	2073.3	2034.9	1846.4	1618.4	1453.6	1437.7	1332.6	1327.5	1327.5
47.5°	2215.2	2210.6	2169.9	2025.6	1799.5	1600.2	1572.6	1455.5	1469.1	1490.0
50°	2349.4	2336.6	2293.2	2202.1	2012.4	1768.1	1745.6	1606.4	1657.2	1714.6
52.5°	2472.8	2479.7	2431.3	2385.9	2252.9	1955.4	1915.8	1784.4	1894.1	1989.1
55°	2599.6	2600.0	2586.4	2580.2	2505.0	2162.5	2119.1	1998.5	2173.0	2290.9
57.5°	2718.6	2719.4	2739.6	2794.3	2797.4	2401.4	2352.2	2261.4	2482.8	2603.1
60°	2824.9	2830.3	2885.4	3013.4	3054.5	2675.2	2628.7	2572.0	2803.2	2924.2
62.5°	2860.6	2880.4	3002.9	3184.8	3308.5	3011.1	2965.3	2931.6	3139.8	3252.3
65°	2800.1	2845.5	3082.4	3326.4	3569.9	3410.1	3364.8	3327.9	3489.6	3595.5
67.5°	2651.6	2710.1	3077.8	3474.9	3887.2	3890.3	3848.0	3761.5	3864.7	3905.4
70°	2260.2	2347.9	2806.7	3530.4	4251.3	4546.8	4506.1	4283.5	4238.9	4041.9
72.5°	1456.3	1574.2	2066.7	3073.9	4332.4	5164.6	5162.3	4754.7	4357.2	3776.6
75°	531.3	603.5	960.3	1929.4	3636.6	5133.2	5148.4	4674.1	3977.5	2917.2
77.5°	193.5	211.8	313.4	741.5	2236.6	4118.7	4150.1	3736.7	2831.1	1464.0
80°	101.6	111.7	160.6	287.8	958.3	2446.0	2495.3	2220.7	1330.6	441.0
82.5°	56.2	60.9	90.0	156.3	431.6	1046.0	1075.4	877.3	468.1	186.9
85°	30.3	32.2	42.3	85.3	211.0	362.6	370.8	262.2	186.5	109.8
87.5°	8.9	10.9	14.0	27.1	82.6	81.4	83.4	52.0	73.7	55.5
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°
742.7	0°	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7
748.5	2.5°	746.2	745.0	740.7	738.8	736.5	736.1	738.0	738.4	738.8	739.2
757.0	5°	753.2	749.3	745.4	743.1	743.8	744.2	748.1	750.8	752.8	754.3
772.9	7.5°	766.7	763.6	757.0	756.6	757.8	761.3	766.3	772.5	776.0	778.8
793.5	10°	786.9	781.1	773.3	774.5	776.8	781.9	792.3	797.4	803.2	808.2
818.7	12.5°	807.4	802.4	793.5	794.3	798.1	807.1	817.1	823.3	827.2	831.1
845.8	15°	834.2	825.3	815.6	815.6	822.6	832.3	836.9	842.0	844.3	848.6
874.9	17.5°	861.7	850.1	837.3	836.5	845.1	849.7	852.4	853.2	854.0	858.6
903.2	20°	889.3	876.5	858.3	856.7	858.6	857.9	857.5	856.7	857.9	863.7
932.3	22.5°	916.4	901.7	876.5	869.5	864.1	856.7	856.3	855.9	856.7	862.5
963.7	25°	948.2	930.4	896.6	875.7	857.5	847.4	848.6	848.9	849.7	854.4
996.3	27.5°	982.7	963.0	915.3	873.8	840.8	833.8	831.9	833.0	835.8	843.1
1028.9	30°	1017.3	994.0	932.3	866.0	819.9	810.2	804.0	806.7	815.2	822.6
1057.2	32.5°	1048.7	1025.4	945.9	848.9	793.1	778.0	769.8	773.3	781.9	784.6
1088.6	35°	1085.5	1059.1	951.7	821.8	764.0	740.7	729.9	724.8	729.1	726.4
1125.5	37.5°	1126.6	1099.1	950.9	786.1	729.9	703.1	688.0	669.0	660.1	650.8
1179.8	40°	1187.5	1148.0	941.6	743.1	687.6	663.2	636.0	603.8	583.7	565.4
1267.4	42.5°	1270.5	1215.8	924.6	695.8	639.9	617.0	580.2	542.6	510.8	480.5
1400.4	45°	1394.2	1304.6	903.2	645.3	588.3	565.8	525.9	483.6	447.5	408.8
1589.3	47.5°	1572.6	1424.1	883.1	587.9	534.0	513.5	477.4	438.2	395.6	358.0
1862.3	50°	1817.7	1595.5	864.5	532.1	480.5	465.0	436.3	396.4	353.3	323.1
2182.3	52.5°	2129.5	1828.6	856.7	478.2	430.5	424.7	401.8	364.6	323.8	298.2
2555.4	55°	2487.5	2107.4	856.7	426.6	386.7	388.6	372.7	338.2	302.9	280.0
2940.1	57.5°	2852.8	2389.8	841.2	378.9	349.4	357.6	347.5	317.2	285.4	261.8
3344.6	60°	3189.5	2626.3	778.4	335.5	316.5	329.3	322.7	296.7	257.9	238.1
3682.8	62.5°	3448.1	2759.8	657.4	301.0	289.3	304.1	300.6	269.5	252.9	244.7
3960.5	65°	3577.7	2738.0	502.6	270.3	266.4	289.3	281.9	280.8	267.6	258.3
4050.8	67.5°	3498.2	2551.1	364.6	247.8	253.2	275.7	304.1	308.7	284.3	266.0
3796.4	70°	3149.5	2212.9	271.5	226.5	236.6	276.1	346.7	323.1	278.8	257.5
3044.8	72.5°	2396.0	1650.2	210.6	204.0	214.9	278.1	365.7	316.5	263.3	284.7
1896.8	75°	1370.2	906.0	169.1	176.5	187.7	259.8	356.0	299.4	251.3	261.4
751.6	77.5°	522.4	348.3	139.6	149.3	150.9	226.9	340.5	298.2	239.3	233.5
225.3	80°	181.1	136.1	115.6	118.7	116.7	201.7	326.5	259.5	195.9	175.3
93.1	82.5°	74.1	67.9	91.5	87.6	83.0	156.7	263.7	212.1	160.2	141.6
45.0	85°	32.2	43.0	60.5	53.1	48.1	108.6	211.4	179.6	135.4	116.7
14.7	87.5°	6.6	16.3	25.6	24.0	24.8	72.5	150.1	127.6	95.8	71.7
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>
742.7
740.7
755.1
779.5
807.1
832.7
850.1
860.2
866.0
866.4
860.6
850.5
830.7
794.3
734.9
656.6
566.6
477.8
404.1
353.7
321.1
296.3
277.7
257.9
235.0
242.0
255.2
262.9
254.0
282.3
261.4
212.9
169.5
140.0
116.3
56.2
0.0

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