

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: P939385

Luminaire Tested: **GALN-SB1D-950-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
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-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7016 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

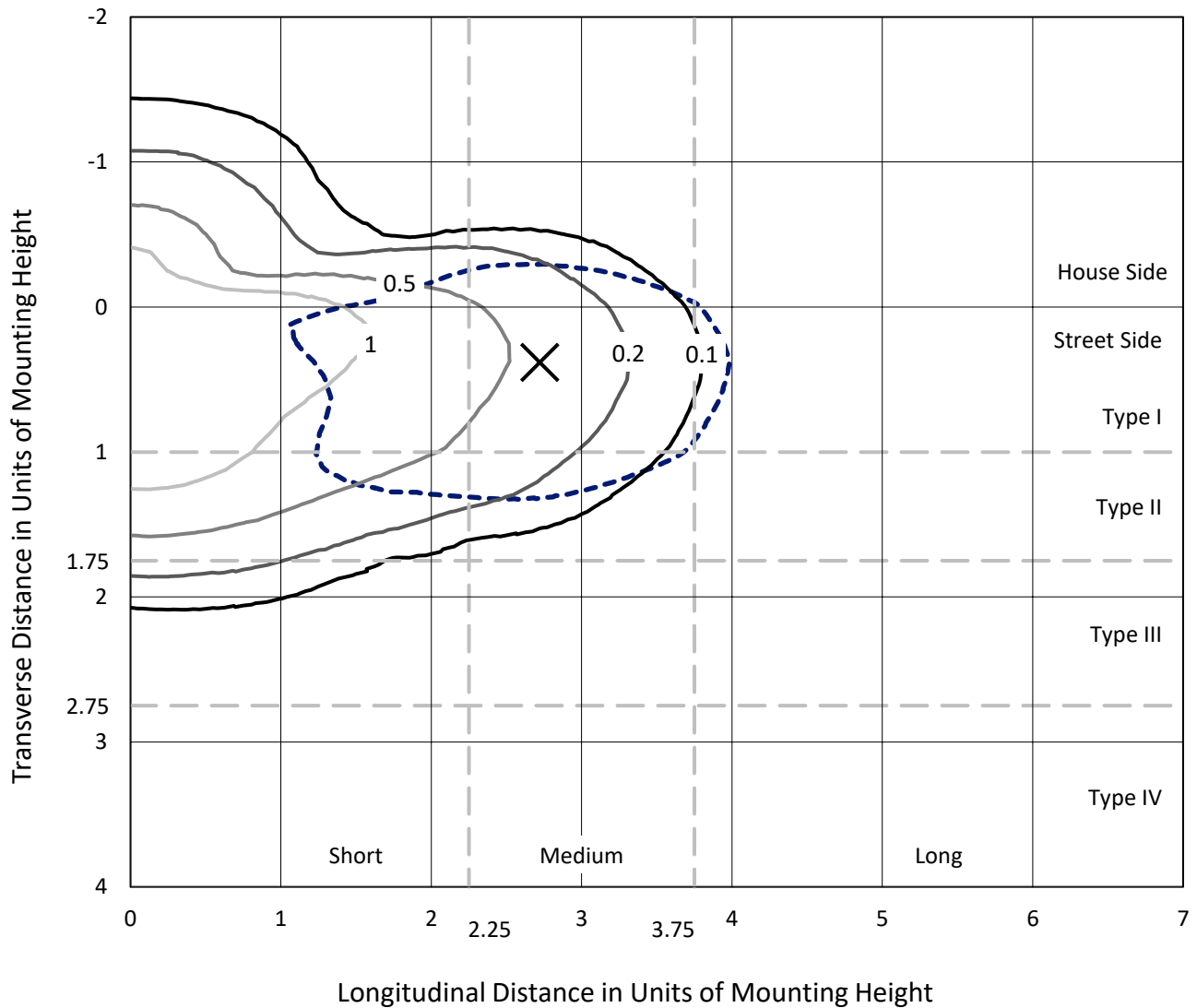
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

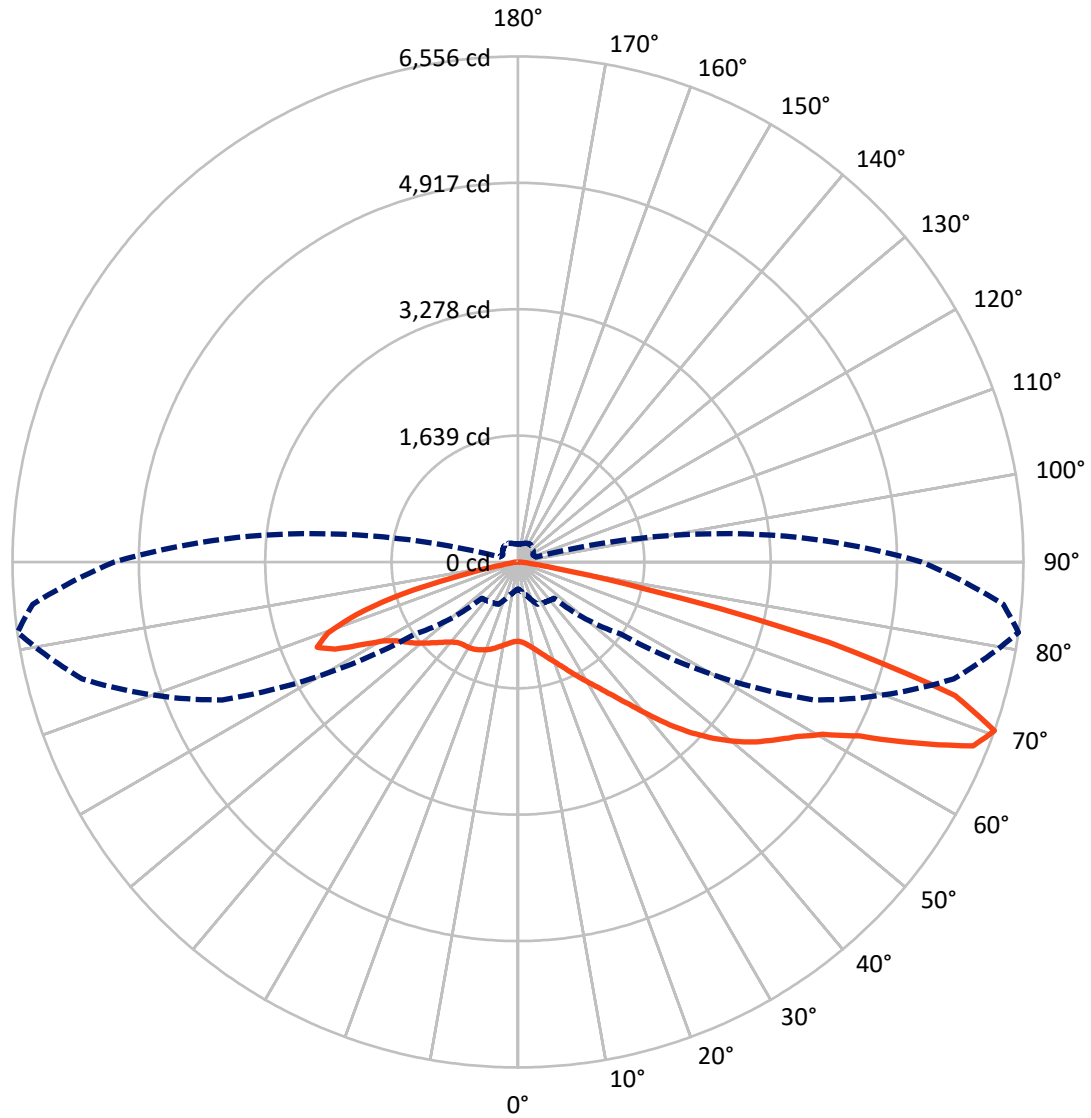
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1729.6	0.0	1729.6
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	5286.4	0.0	5286.4
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	7016.0	0.0	7016.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.1	1.4
10°-20°	279.0	4.0
20°-30°	466.8	6.7
30°-40°	729.3	10.4
40°-50°	1161.4	16.6
50°-60°	1616.3	23.0
60°-70°	1690.7	24.1
70°-80°	883.6	12.6
80°-90°	91.8	1.3
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°	7016.0	100.0
0°-180°	7016.0	100.0

**Coefficient of Utilization**



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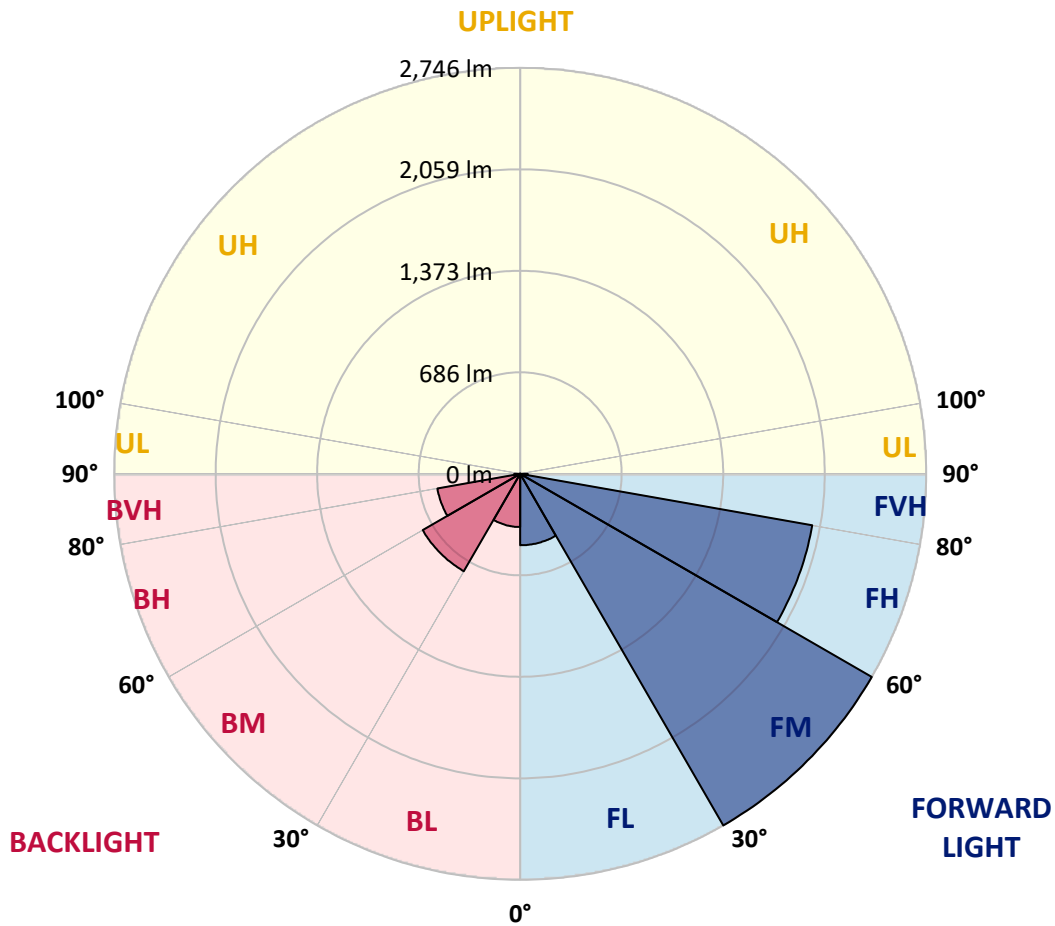
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.1	6.9			
FM (30°-60°)	2746.0	39.1			
FH (60°-80°)	2005.9	28.6			G2/5000
FVH (80°-90°)	51.4	0.7			G1/100
BL (0°-30°)	359.8	5.1	B1/500		
BM (30°-60°)	761.0	10.8	B1/1000		
BH (60°-80°)	568.4	8.1	B2/1000		G2/1000
BVH (80°-90°)	40.4	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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6
2.5°	1053.2	1059.2	1057.3	1055.4	1055.4	1052.8	1052.5	1048.7	1045.8	1040.9
5°	1066.6	1072.9	1072.2	1073.7	1078.5	1079.6	1080.8	1078.5	1072.6	1066.6
7.5°	1054.7	1061.8	1064.0	1072.9	1087.8	1101.2	1111.3	1115.4	1109.8	1101.2
10°	1014.5	1022.3	1030.1	1051.3	1077.8	1109.4	1136.2	1152.2	1151.1	1142.9
12.5°	933.0	941.1	957.9	999.2	1047.6	1103.5	1153.4	1186.9	1198.4	1192.4
15°	867.8	874.9	887.5	930.0	992.9	1077.8	1159.7	1224.8	1254.2	1250.9
17.5°	865.9	868.9	876.7	896.8	945.2	1037.6	1153.0	1262.1	1318.3	1317.9
20°	898.7	899.8	904.3	908.4	935.9	1007.0	1135.9	1293.0	1390.1	1390.1
22.5°	944.1	943.4	947.8	944.1	957.5	1004.4	1125.1	1320.1	1470.2	1476.1
25°	1012.3	1008.5	1007.4	998.9	1001.5	1028.6	1137.0	1351.0	1565.1	1577.4
27.5°	1103.1	1097.1	1093.0	1073.3	1066.6	1078.5	1173.5	1388.3	1670.8	1692.1
30°	1221.5	1210.7	1204.7	1170.5	1146.3	1148.1	1228.6	1437.8	1781.4	1815.7
32.5°	1383.1	1366.3	1350.3	1294.1	1249.8	1235.3	1299.7	1506.3	1901.3	1956.0
35°	1564.0	1550.6	1533.5	1446.7	1378.6	1345.1	1395.7	1602.0	2041.6	2128.4
37.5°	1738.2	1726.7	1734.9	1618.0	1530.1	1481.3	1521.5	1730.4	2214.7	2342.8
40°	1918.4	1909.5	1910.6	1798.9	1696.5	1641.8	1674.2	1891.6	2413.2	2597.8
42.5°	2114.2	2107.5	2085.2	1986.2	1871.1	1820.1	1849.9	2077.7	2626.1	2888.2
45°	2333.5	2329.4	2308.6	2195.0	2063.2	2005.9	2046.1	2283.2	2840.2	3161.5
47.5°	2523.0	2526.4	2523.7	2428.1	2291.4	2207.3	2255.3	2497.7	3039.4	3418.4
50°	2614.2	2631.7	2657.4	2627.6	2542.7	2457.1	2466.4	2704.7	3229.2	3659.2
52.5°	2566.6	2599.7	2669.7	2717.3	2750.1	2732.2	2707.3	2910.2	3407.9	3876.6
55°	2389.0	2435.5	2551.7	2666.7	2833.9	2963.8	2996.6	3138.0	3582.2	4068.0
57.5°	2065.5	2141.0	2245.3	2478.0	2759.4	3075.8	3333.8	3454.1	3766.8	4272.4
60°	1510.7	1612.0	1741.6	2087.8	2498.8	3015.9	3620.9	3939.6	4029.3	4537.1
62.5°	966.8	1029.4	1148.5	1474.6	1947.1	2708.8	3708.7	4546.4	4474.2	4971.2
65°	661.9	702.1	811.2	994.4	1258.7	2016.3	3473.5	5001.3	5180.8	5659.2
67.5°	481.0	511.5	604.6	765.1	820.2	1193.2	2695.4	4980.5	5867.6	6368.0
70°	350.7	372.3	450.5	604.6	631.0	663.8	1632.9	4233.7	5852.7	6556.4
72.5°	259.9	274.7	327.2	469.1	510.8	448.2	808.2	3077.0	5029.2	5930.2
75°	188.0	199.2	237.9	358.9	408.8	341.4	403.2	1798.2	3508.1	4171.5
77.5°	143.7	152.3	177.6	262.8	327.2	256.1	250.2	827.2	1663.4	1671.6
80°	115.4	121.0	134.8	185.0	250.9	191.7	163.1	333.9	525.7	444.9
82.5°	84.9	94.2	113.9	129.9	179.4	132.2	99.4	168.6	199.9	172.0
85°	48.4	54.7	68.9	93.1	114.7	80.8	57.0	74.8	93.1	76.3
87.5°	17.1	22.3	24.2	36.5	49.9	33.5	22.0	21.6	30.5	22.7
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°
1028.6	0°	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6
1039.8	2.5°	1036.1	1034.2	1026.8	1016.7	1006.3	996.2	992.9	985.8	981.0	978.4
1064.0	5°	1056.9	1051.0	1033.5	1011.1	987.7	962.4	944.5	928.1	916.2	905.0
1097.1	7.5°	1086.7	1076.3	1046.1	1007.0	965.3	923.3	892.0	868.2	852.2	841.7
1135.9	10°	1121.3	1105.3	1059.2	1000.7	936.3	876.0	839.1	818.7	808.6	803.0
1180.2	12.5°	1161.2	1138.5	1072.6	986.2	892.0	823.1	797.8	791.9	792.2	792.6
1236.0	15°	1210.3	1178.7	1083.4	954.5	834.3	782.6	778.1	787.8	797.8	802.7
1299.3	17.5°	1265.8	1221.1	1085.2	902.4	777.7	756.5	770.6	791.5	806.7	813.5
1370.0	20°	1325.3	1264.3	1071.8	828.7	731.2	735.3	760.6	787.4	804.1	812.7
1450.8	22.5°	1393.5	1310.5	1039.8	751.3	693.2	712.2	742.0	768.0	785.5	794.1
1545.7	25°	1471.3	1362.2	989.5	686.1	660.4	686.1	715.9	737.5	751.7	759.5
1651.8	27.5°	1557.7	1416.2	922.5	634.4	631.8	659.3	683.9	700.6	708.1	714.0
1764.6	30°	1644.4	1465.3	841.4	595.3	606.8	632.9	650.4	657.8	660.1	661.2
1890.5	32.5°	1738.2	1507.8	756.1	562.9	583.0	607.2	617.6	621.0	610.6	603.5
2043.1	35°	1851.8	1553.2	672.7	537.2	559.5	580.4	583.7	580.8	568.5	554.0
2234.5	37.5°	1992.1	1609.8	606.1	519.0	537.6	551.4	547.3	546.5	547.6	530.5
2464.6	40°	2164.1	1683.5	557.3	504.8	519.7	522.7	511.2	517.5	523.1	497.0
2717.0	42.5°	2355.1	1772.5	526.4	495.1	504.8	497.7	479.9	487.0	486.2	452.0
2970.5	45°	2549.8	1869.3	515.6	488.1	491.0	476.9	457.2	459.0	443.4	412.5
3213.6	47.5°	2743.4	1973.1	522.3	482.1	473.9	457.9	442.7	434.5	411.4	388.3
3446.6	50°	2933.3	2082.2	546.9	470.2	450.5	441.2	430.0	415.5	390.9	371.2
3667.0	52.5°	3109.4	2192.0	574.4	450.5	421.1	426.6	419.6	402.8	378.6	358.5
3875.5	55°	3276.1	2301.9	585.2	423.3	393.5	414.0	409.9	379.0	350.0	333.6
4093.7	57.5°	3457.8	2434.0	573.3	388.7	371.2	399.5	383.8	349.6	332.8	320.5
4377.7	60°	3709.5	2641.4	547.6	345.9	350.0	377.9	351.1	336.9	318.7	304.9
4803.6	62.5°	4127.6	3028.2	506.3	303.4	325.0	345.9	335.4	321.3	302.7	289.3
5531.8	65°	4745.6	3565.8	428.5	270.3	297.1	314.6	318.7	304.5	285.2	271.0
6169.9	67.5°	5266.8	3903.1	324.3	242.7	268.4	289.3	300.8	287.0	266.6	252.8
6319.2	70°	5238.1	3658.1	247.6	215.6	243.1	264.3	279.2	268.4	246.5	233.4
5739.9	72.5°	4652.5	3060.2	200.3	188.0	217.4	238.3	256.1	247.9	225.6	212.9
4205.0	75°	3418.0	2172.3	160.1	160.1	185.4	211.1	230.8	225.6	205.1	196.2
1765.4	77.5°	1440.8	911.4	125.5	132.9	154.1	181.3	205.9	207.7	189.9	201.0
466.8	80°	383.1	251.3	95.7	104.6	121.0	149.7	179.1	178.3	159.0	148.5
173.5	82.5°	145.9	99.0	68.1	73.7	87.5	114.7	141.8	146.3	127.0	109.8
68.1	85°	56.2	42.4	42.1	44.3	51.0	75.9	107.2	110.9	95.7	81.2
19.0	87.5°	14.5	12.7	15.6	14.9	23.5	40.6	61.4	63.7	58.4	33.9
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>
1028.6
981.4
909.5
844.0
804.5
793.3
802.3
814.9
814.9
796.3
761.7
716.3
663.8
605.7
554.7
531.6
497.7
451.6
413.6
388.3
369.7
358.9
332.1
319.4
304.2
289.3
271.8
253.2
234.5
212.9
193.6
182.4
138.1
109.8
83.8
48.4
0.0

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