

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: P939375

Luminaire Tested: **GALN-SB1D-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939375
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-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7309 lumens
Efficiency: N/A
Efficacy: 91.8 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

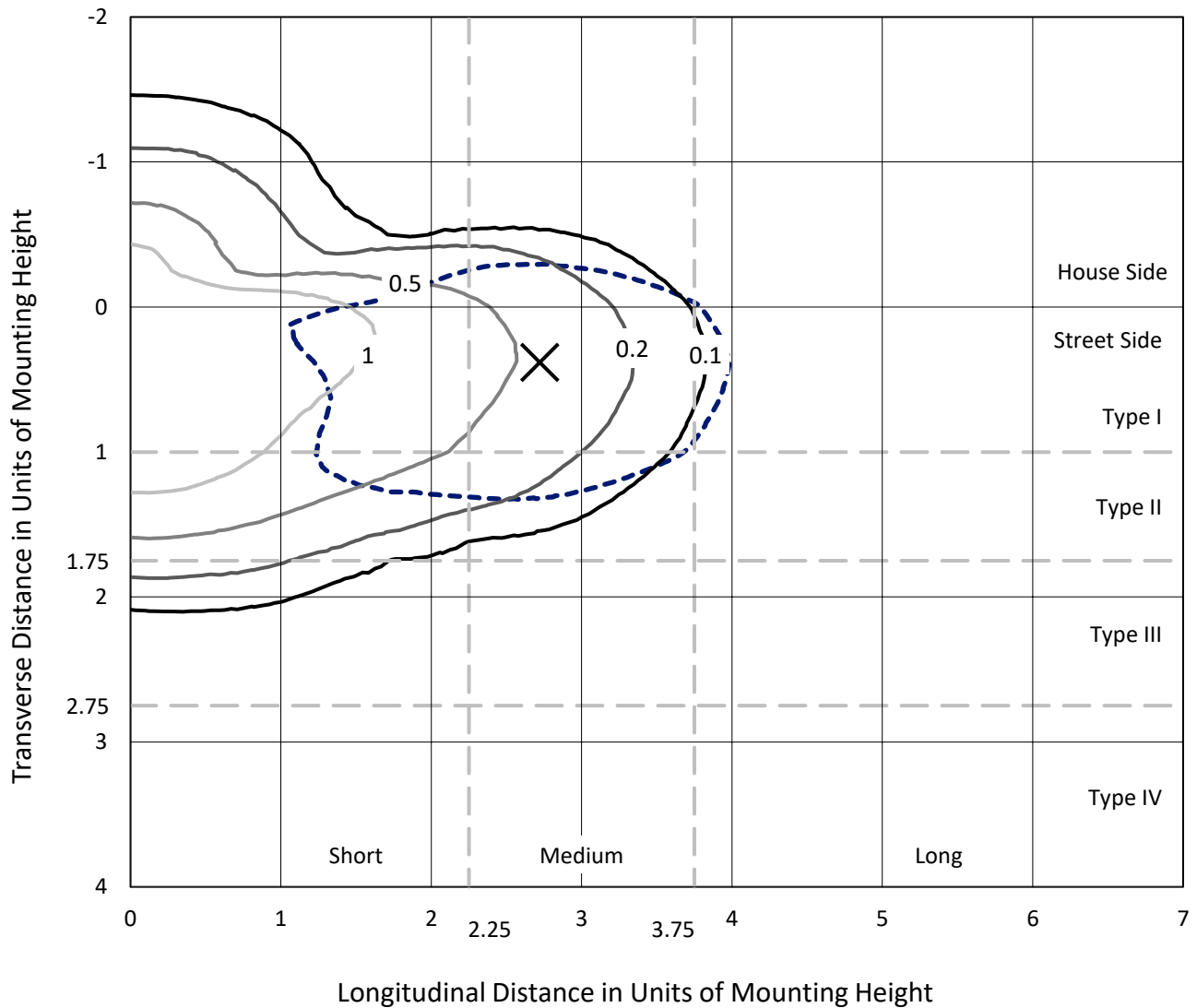
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

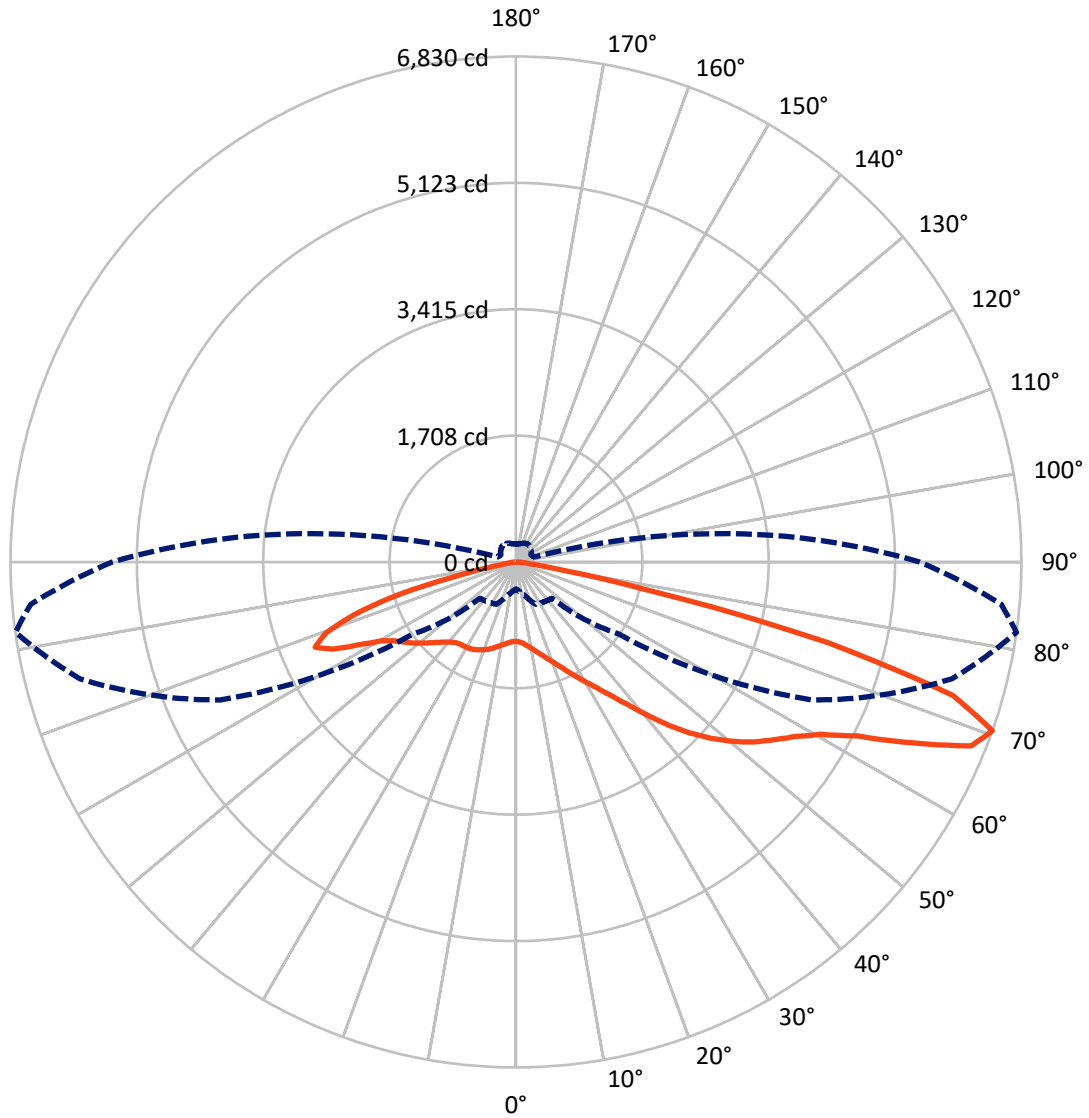
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	1801.8	0.0	1801.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	5507.2	0.0	5507.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	7309.0	0.0	7309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.4
10°-20°	290.7	4.0
20°-30°	486.3	6.7
30°-40°	759.7	10.4
40°-50°	1209.9	16.6
50°-60°	1683.8	23.0
60°-70°	1761.3	24.1
70°-80°	920.5	12.6
80°-90°	95.6	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°	7309.0	100.0
0°-180°	7309.0	100.0

Coefficient of Utilization



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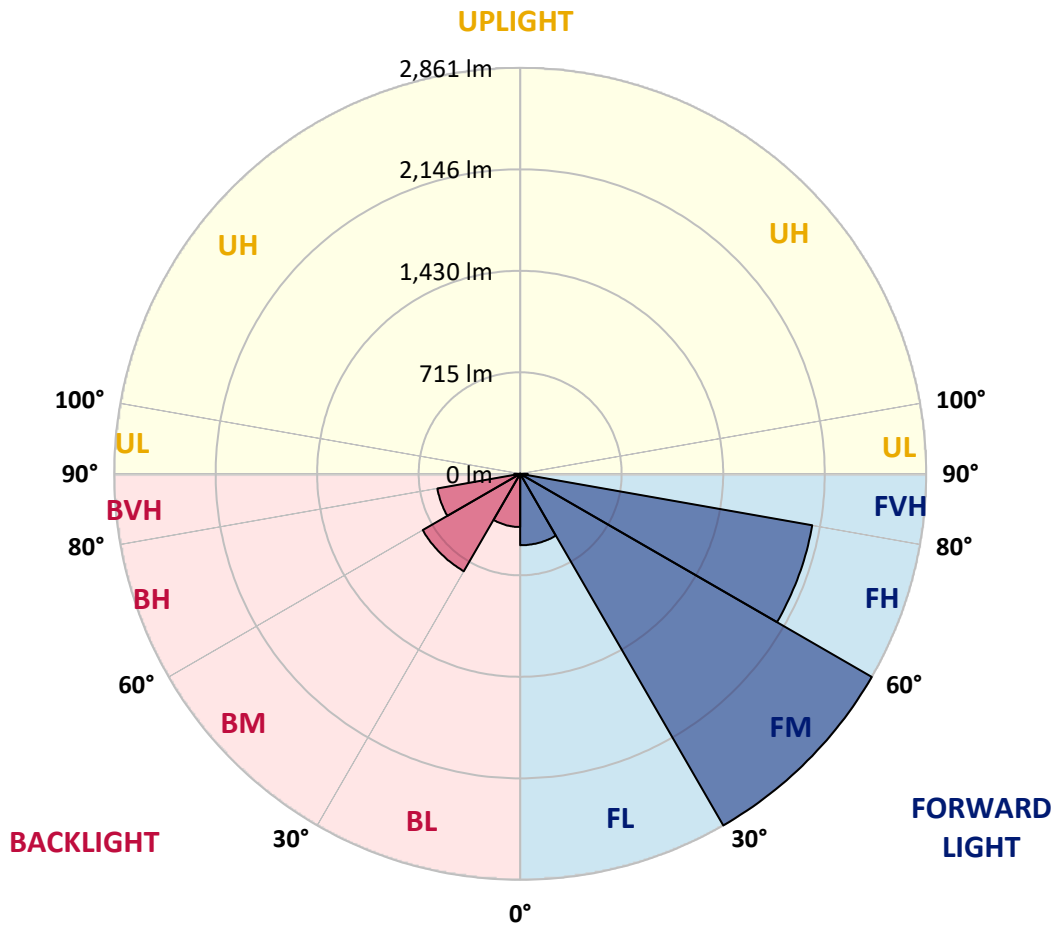
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.3	6.9			
FM (30°-60°)	2860.7	39.1			
FH (60°-80°)	2089.7	28.6			G2/5000
FVH (80°-90°)	53.5	0.7			G1/100
BL (0°-30°)	374.9	5.1	B1/500		
BM (30°-60°)	792.7	10.8	B1/1000		
BH (60°-80°)	592.2	8.1	B2/1000		G2/1000
BVH (80°-90°)	42.1	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°	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6
2.5°	1097.2	1103.4	1101.5	1099.5	1099.5	1096.8	1096.4	1092.5	1089.4	1084.4
5°	1111.2	1117.7	1117.0	1118.5	1123.6	1124.7	1125.9	1123.6	1117.4	1111.2
7.5°	1098.7	1106.1	1108.4	1117.7	1133.3	1147.2	1157.7	1162.0	1156.1	1147.2
10°	1056.9	1065.0	1073.1	1095.2	1122.8	1155.8	1183.7	1200.4	1199.2	1190.7
12.5°	971.9	980.4	997.9	1041.0	1091.4	1149.5	1201.5	1236.4	1248.4	1242.2
15°	904.0	911.4	924.6	968.8	1034.4	1122.8	1208.1	1276.0	1306.6	1303.1
17.5°	902.1	905.2	913.4	934.3	984.7	1080.9	1201.1	1314.8	1373.3	1372.9
20°	936.2	937.4	942.1	946.3	975.0	1049.1	1183.3	1347.0	1448.2	1448.2
22.5°	983.6	982.8	987.4	983.6	997.5	1046.4	1172.0	1375.3	1531.6	1537.8
25°	1054.5	1050.6	1049.5	1040.6	1043.3	1071.6	1184.5	1407.5	1630.5	1643.3
27.5°	1149.2	1143.0	1138.7	1118.1	1111.2	1123.6	1222.5	1446.2	1740.6	1762.7
30°	1272.5	1261.2	1255.0	1219.4	1194.1	1196.1	1279.9	1497.8	1855.8	1891.5
32.5°	1440.8	1423.4	1406.7	1348.1	1302.0	1286.8	1353.9	1569.2	1980.7	2037.7
35°	1629.3	1615.3	1597.5	1507.1	1436.2	1401.3	1454.0	1668.9	2126.9	2217.3
37.5°	1810.8	1798.8	1807.3	1685.5	1594.0	1543.2	1585.1	1802.7	2307.2	2440.7
40°	1998.5	1989.2	1990.4	1874.0	1767.4	1710.4	1744.1	1970.6	2514.0	2706.3
42.5°	2202.5	2195.5	2172.3	2069.1	1949.3	1896.1	1927.2	2164.5	2735.8	3008.8
45°	2431.0	2426.7	2405.0	2286.7	2149.4	2089.7	2131.5	2378.6	2958.8	3293.5
47.5°	2628.4	2631.9	2629.1	2529.5	2387.1	2299.5	2349.5	2602.0	3166.3	3561.1
50°	2723.4	2741.6	2768.4	2737.3	2648.9	2559.7	2569.4	2817.6	3364.1	3812.0
52.5°	2673.7	2708.3	2781.2	2830.8	2864.9	2846.3	2820.3	3031.7	3550.3	4038.5
55°	2488.7	2537.2	2658.2	2778.1	2952.2	3087.6	3121.7	3269.1	3731.8	4237.9
57.5°	2151.7	2230.4	2339.0	2581.4	2874.6	3204.3	3473.1	3598.3	3924.1	4450.8
60°	1573.8	1679.3	1814.3	2175.0	2603.2	3141.9	3772.1	4104.1	4197.5	4726.6
62.5°	1007.2	1072.4	1196.5	1536.2	2028.4	2821.9	3863.6	4736.3	4661.0	5178.8
65°	689.6	731.5	845.1	1035.9	1311.3	2100.5	3618.5	5210.2	5397.1	5895.5
67.5°	501.1	532.9	629.8	797.0	854.4	1243.0	2807.9	5188.5	6112.7	6633.9
70°	365.3	387.8	469.3	629.8	657.4	691.5	1701.0	4410.5	6097.2	6830.2
72.5°	270.7	286.2	340.9	488.7	532.1	467.0	842.0	3205.5	5239.3	6177.8
75°	195.9	207.5	247.8	373.9	425.8	355.6	420.0	1873.2	3654.6	4345.7
77.5°	149.7	158.6	185.0	273.8	340.9	266.8	260.6	861.8	1732.9	1741.4
80°	120.2	126.0	140.4	192.8	261.4	199.7	169.9	347.9	547.6	463.5
82.5°	88.4	98.1	118.7	135.4	186.9	137.7	103.6	175.7	208.3	179.2
85°	50.4	57.0	71.7	97.0	119.5	84.2	59.3	78.0	97.0	79.5
87.5°	17.8	23.3	25.2	38.0	52.0	34.9	22.9	22.5	31.8	23.7
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°
1071.6	0°	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6
1083.2	2.5°	1079.3	1077.4	1069.7	1059.2	1048.3	1037.8	1034.4	1027.0	1021.9	1019.2
1108.4	5°	1101.1	1094.9	1076.6	1053.4	1028.9	1002.6	983.9	966.9	954.5	942.8
1143.0	7.5°	1132.1	1121.2	1089.8	1049.1	1005.7	961.8	929.3	904.4	887.8	876.9
1183.3	10°	1168.2	1151.5	1103.4	1042.5	975.4	912.6	874.2	852.9	842.4	836.6
1229.4	12.5°	1209.7	1186.0	1117.4	1027.4	929.3	857.5	831.1	824.9	825.3	825.7
1287.6	15°	1260.9	1227.9	1128.6	994.4	869.1	815.2	810.6	820.7	831.1	836.2
1353.5	17.5°	1318.6	1272.1	1130.5	940.1	810.2	788.1	802.8	824.5	840.4	847.4
1427.2	20°	1380.7	1317.1	1116.6	863.3	761.7	766.0	792.3	820.3	837.7	846.6
1511.4	22.5°	1451.7	1365.2	1083.2	782.7	722.2	741.9	773.0	800.1	818.3	827.3
1610.3	25°	1532.7	1419.1	1030.9	714.8	688.0	714.8	745.8	768.3	783.0	791.2
1720.8	27.5°	1622.7	1475.3	961.1	660.9	658.2	686.9	712.5	729.9	737.7	743.9
1838.3	30°	1713.1	1526.5	876.5	620.1	632.2	659.3	677.5	685.3	687.6	688.8
1969.4	32.5°	1810.8	1570.7	787.7	586.4	607.4	632.6	643.4	646.9	636.1	628.7
2128.4	35°	1929.1	1618.1	700.8	559.6	582.9	604.6	608.1	605.0	592.2	577.1
2327.8	37.5°	2075.3	1677.0	631.4	540.6	560.0	574.4	570.1	569.3	570.5	552.7
2567.5	40°	2254.5	1753.8	580.6	525.9	541.4	544.5	532.5	539.1	544.9	517.8
2830.4	42.5°	2453.5	1846.5	548.4	515.8	525.9	518.5	499.9	507.3	506.5	470.8
3094.5	45°	2656.3	1947.3	537.2	508.5	511.6	496.8	476.3	478.2	461.9	429.7
3347.8	47.5°	2858.0	2055.5	544.1	502.2	493.7	477.0	461.1	452.6	428.6	404.5
3590.6	50°	3055.8	2169.2	569.7	489.8	469.3	459.6	448.0	432.8	407.2	386.7
3820.2	52.5°	3239.2	2283.6	598.4	469.3	438.6	444.5	437.1	419.6	394.4	373.5
4037.4	55°	3413.0	2398.0	609.7	441.0	409.9	431.3	427.0	394.8	364.6	347.5
4264.6	57.5°	3602.2	2535.7	597.3	404.9	386.7	416.1	399.9	364.2	346.7	333.9
4560.6	60°	3864.4	2751.7	570.5	360.3	364.6	393.7	365.7	351.0	332.0	317.6
5004.2	62.5°	4299.9	3154.7	527.5	316.1	338.6	360.3	349.4	334.7	315.3	301.3
5762.9	65°	4943.7	3714.7	446.4	281.6	309.5	327.7	332.0	317.2	297.1	282.3
6427.6	67.5°	5486.7	4066.1	337.8	252.9	279.6	301.3	313.4	299.0	277.7	263.3
6583.1	70°	5456.9	3810.9	257.9	224.6	253.3	275.4	290.9	279.6	256.7	243.2
5979.7	72.5°	4846.8	3188.0	208.7	195.9	226.5	248.2	266.8	258.3	235.0	221.8
4380.6	75°	3560.7	2263.0	166.8	166.8	193.1	219.9	240.5	235.0	213.7	204.4
1839.1	77.5°	1500.9	949.4	130.7	138.5	160.6	188.9	214.5	216.4	197.8	209.4
486.3	80°	399.1	261.8	99.7	109.0	126.0	155.9	186.5	185.8	165.6	154.7
180.7	82.5°	152.0	103.2	71.0	76.8	91.1	119.5	147.8	152.4	132.3	114.4
71.0	85°	58.6	44.2	43.8	46.2	53.1	79.1	111.7	115.6	99.7	84.5
19.8	87.5°	15.1	13.2	16.3	15.5	24.4	42.3	64.0	66.3	60.9	35.3
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>
1071.6
1022.3
947.5
879.2
838.1
826.5
835.8
849.0
849.0
829.6
793.5
746.2
691.5
631.0
577.9
553.8
518.5
470.4
430.9
404.5
385.1
373.9
345.9
332.8
316.9
301.3
283.1
263.7
244.3
221.8
201.7
190.0
143.9
114.4
87.3
50.4
0.0

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