

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: P939715

Luminaire Tested: **GALN-SB2B-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939715
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-SB2B-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8086 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

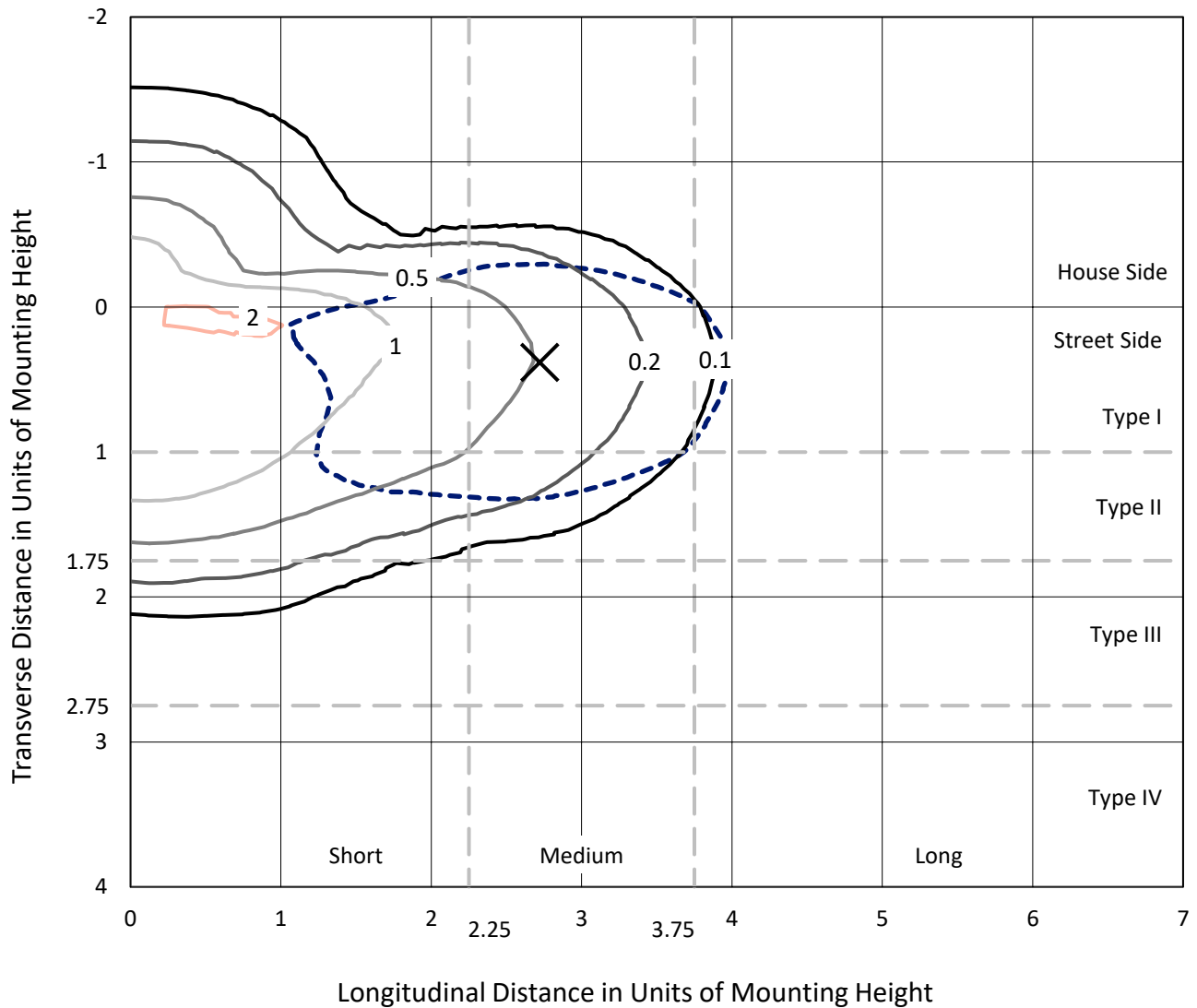
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

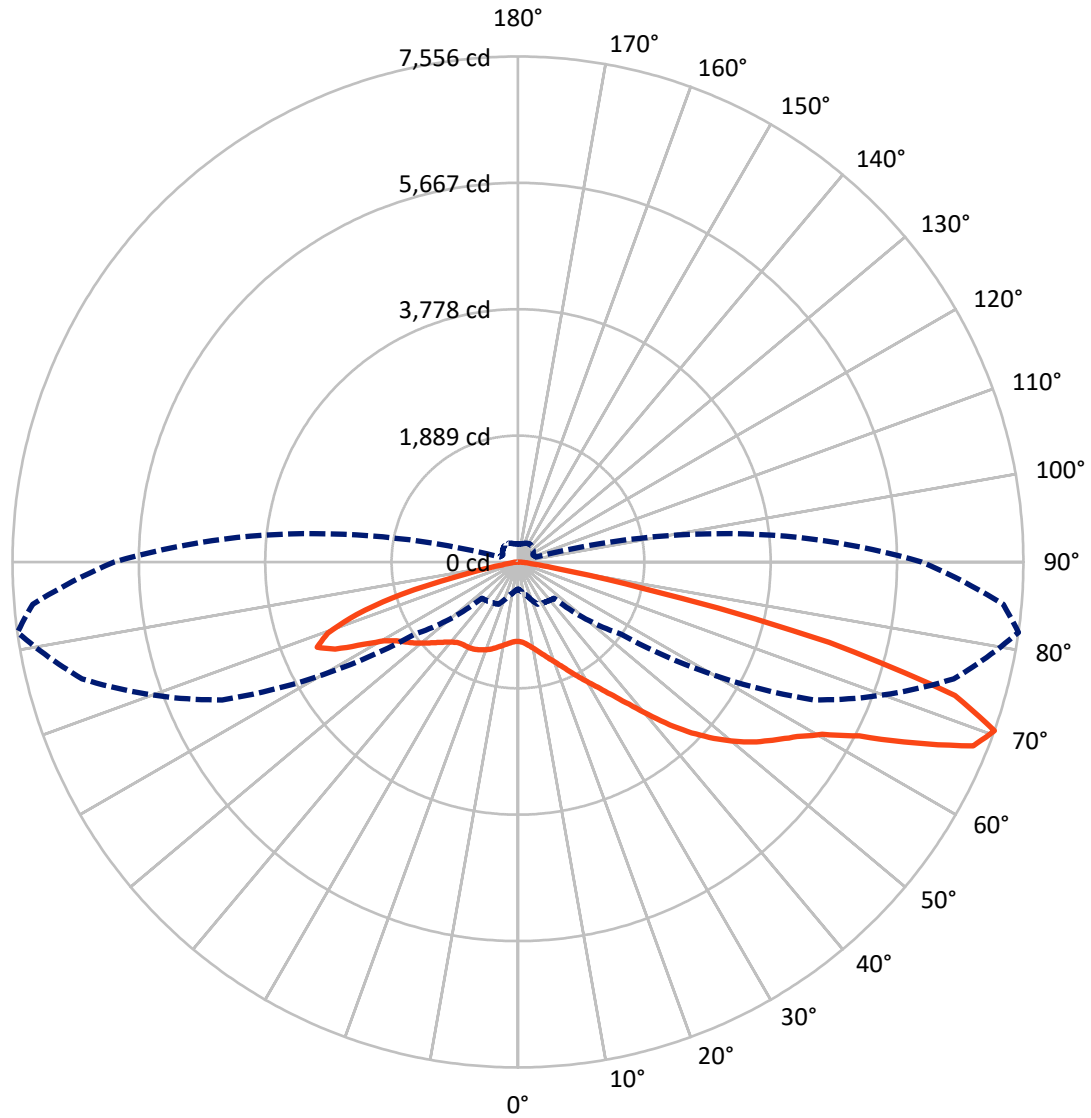
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	1993.4	0.0	1993.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	6092.6	0.0	6092.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	8086.0	0.0	8086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	1.4
10°-20°	321.6	4.0
20°-30°	538.0	6.7
30°-40°	840.5	10.4
40°-50°	1338.6	16.6
50°-60°	1862.8	23.0
60°-70°	1948.5	24.1
70°-80°	1018.4	12.6
80°-90°	105.8	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°	8086.0	100.0
0°-180°	8086.0	100.0

Coefficient of Utilization



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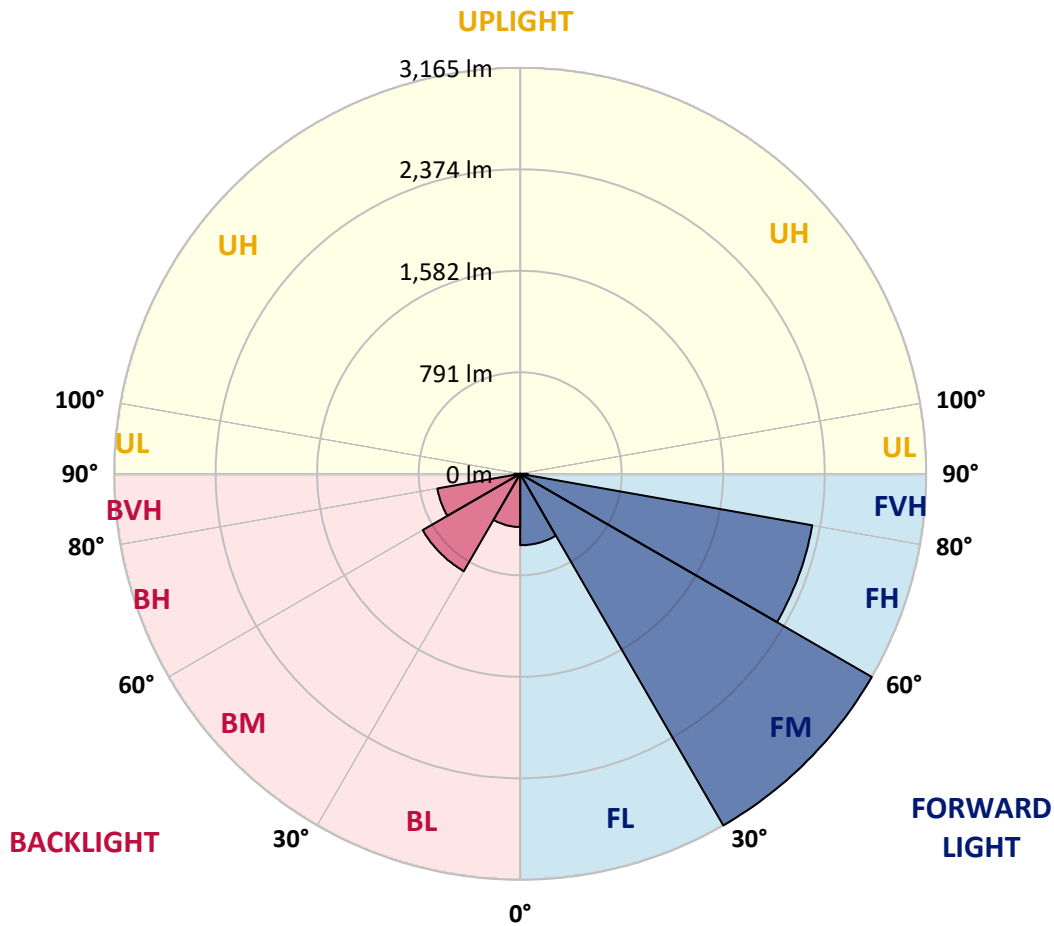
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.8	6.9			
FM (30°-60°)	3164.8	39.1			
FH (60°-80°)	2311.8	28.6			G2/5000
FVH (80°-90°)	59.2	0.7			G1/100
BL (0°-30°)	414.7	5.1	B1/500		
BM (30°-60°)	877.0	10.8	B1/1000		
BH (60°-80°)	655.1	8.1	B2/1000		G2/1000
BVH (80°-90°)	46.6	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°	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5
2.5°	1213.8	1220.7	1218.5	1216.4	1216.4	1213.4	1213.0	1208.7	1205.2	1199.7
5°	1229.3	1236.6	1235.7	1237.4	1243.0	1244.3	1245.6	1243.0	1236.1	1229.3
7.5°	1215.5	1223.7	1226.3	1236.6	1253.7	1269.2	1280.8	1285.5	1279.0	1269.2
10°	1169.2	1178.2	1187.2	1211.7	1242.1	1278.6	1309.5	1328.0	1326.7	1317.2
12.5°	1075.2	1084.7	1104.0	1151.6	1207.4	1271.8	1329.2	1367.9	1381.2	1374.3
15°	1000.2	1008.3	1022.9	1071.8	1144.3	1242.1	1336.5	1411.6	1445.5	1441.7
17.5°	998.0	1001.4	1010.4	1033.6	1089.4	1195.8	1328.8	1454.5	1519.3	1518.9
20°	1035.8	1037.1	1042.2	1046.9	1078.7	1160.6	1309.1	1490.1	1602.1	1602.1
22.5°	1088.1	1087.3	1092.4	1088.1	1103.6	1157.6	1296.6	1521.5	1694.4	1701.2
25°	1166.6	1162.3	1161.1	1151.2	1154.2	1185.5	1310.4	1557.1	1803.8	1818.0
27.5°	1271.3	1264.5	1259.7	1237.0	1229.3	1243.0	1352.4	1600.0	1925.6	1950.1
30°	1407.8	1395.3	1388.5	1349.0	1321.1	1323.2	1415.9	1657.1	2053.1	2092.6
32.5°	1594.0	1574.7	1556.2	1491.4	1440.4	1423.6	1497.9	1736.0	2191.2	2254.3
35°	1802.5	1787.1	1767.3	1667.3	1588.8	1550.2	1608.6	1846.3	2353.0	2453.0
37.5°	2003.3	1990.0	1999.4	1864.7	1763.5	1707.3	1753.6	1994.3	2552.5	2700.1
40°	2211.0	2200.7	2202.0	2073.2	1955.3	1892.2	1929.5	2180.1	2781.2	2994.0
42.5°	2436.7	2428.9	2403.2	2289.1	2156.5	2097.7	2132.0	2394.6	3026.6	3328.7
45°	2689.4	2684.7	2660.6	2529.8	2377.9	2311.8	2358.1	2631.5	3273.3	3643.6
47.5°	2907.8	2911.6	2908.6	2798.4	2640.9	2543.9	2599.3	2878.6	3502.9	3939.7
50°	3012.9	3033.1	3062.7	3028.3	2930.5	2831.8	2842.6	3117.2	3721.7	4217.3
52.5°	2958.0	2996.2	3076.8	3131.8	3169.5	3148.9	3120.2	3354.0	3927.7	4467.9
55°	2753.3	2806.9	2940.8	3073.4	3266.0	3415.8	3453.6	3616.6	4128.5	4688.4
57.5°	2380.5	2467.6	2587.7	2855.9	3180.2	3544.9	3842.3	3980.9	4341.3	4924.0
60°	1741.1	1857.9	2007.2	2406.2	2879.9	3475.9	4173.1	4540.4	4643.8	5229.0
62.5°	1114.3	1186.4	1323.7	1699.5	2244.0	3121.9	4274.4	5239.8	5156.5	5729.3
65°	762.9	809.2	934.9	1146.0	1450.7	2323.8	4003.2	5764.1	5970.9	6522.2
67.5°	554.4	589.5	696.8	881.7	945.2	1375.2	3106.4	5740.0	6762.5	7339.2
70°	404.2	429.1	519.2	696.8	727.3	765.0	1881.9	4879.3	6745.3	7556.3
72.5°	299.5	316.7	377.1	540.6	588.7	516.6	931.5	3546.2	5796.2	6834.6
75°	216.7	229.6	274.2	413.6	471.1	393.5	464.7	2072.4	4043.1	4807.7
77.5°	165.6	175.5	204.7	302.9	377.1	295.2	288.3	953.4	1917.1	1926.5
80°	133.0	139.4	155.3	213.2	289.2	221.0	187.9	384.9	605.8	512.7
82.5°	97.8	108.6	131.3	149.7	206.8	152.3	114.6	194.4	230.4	198.2
85°	55.8	63.1	79.4	107.3	132.2	93.1	65.6	86.2	107.3	88.0
87.5°	19.7	25.7	27.9	42.0	57.5	38.6	25.3	24.9	35.2	26.2
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°
1185.5	0°	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5
1198.4	2.5°	1194.1	1191.9	1183.4	1171.8	1159.8	1148.2	1144.3	1136.2	1130.6	1127.6
1226.3	5°	1218.1	1211.3	1191.1	1165.3	1138.3	1109.1	1088.5	1069.7	1055.9	1043.1
1264.5	7.5°	1252.4	1240.4	1205.7	1160.6	1112.6	1064.1	1028.0	1000.6	982.1	970.1
1309.1	10°	1292.3	1273.9	1220.7	1153.3	1079.1	1009.6	967.1	943.5	931.9	925.5
1360.1	12.5°	1338.3	1312.1	1236.1	1136.6	1028.0	948.7	919.5	912.6	913.1	913.5
1424.5	15°	1394.9	1358.4	1248.6	1100.1	961.5	901.9	896.7	907.9	919.5	925.1
1497.4	17.5°	1458.8	1407.3	1250.7	1040.1	896.3	871.9	888.2	912.2	929.8	937.5
1579.0	20°	1527.5	1457.1	1235.3	955.1	842.7	847.4	876.6	907.5	926.8	936.7
1672.1	22.5°	1606.0	1510.3	1198.4	865.9	798.9	820.8	855.1	885.2	905.3	915.2
1781.5	25°	1695.7	1570.0	1140.5	790.8	761.2	790.8	825.1	850.0	866.3	875.3
1903.8	27.5°	1795.2	1632.2	1063.2	731.1	728.1	759.9	788.2	807.5	816.1	822.9
2033.8	30°	1895.2	1688.8	969.7	686.1	699.4	729.4	749.6	758.2	760.7	762.0
2178.8	32.5°	2003.3	1737.7	871.4	648.7	671.9	699.8	711.8	715.7	703.7	695.5
2354.7	35°	2134.2	1790.1	775.3	619.1	644.9	668.9	672.8	669.3	655.2	638.4
2575.3	37.5°	2295.9	1855.3	698.5	598.1	619.6	635.4	630.7	629.9	631.2	611.4
2840.4	40°	2494.2	1940.2	642.3	581.8	599.0	602.4	589.1	596.4	602.8	572.8
3131.3	42.5°	2714.3	2042.8	606.7	570.7	581.8	573.7	553.1	561.2	560.4	520.9
3423.5	45°	2938.7	2154.3	594.3	562.5	565.9	549.6	526.9	529.0	511.0	475.4
3703.7	47.5°	3161.8	2274.0	602.0	555.6	546.2	527.8	510.2	500.7	474.1	447.5
3972.3	50°	3380.6	2399.8	630.3	541.9	519.2	508.4	495.6	478.8	450.5	427.8
4226.3	52.5°	3583.6	2526.3	662.0	519.2	485.3	491.7	483.6	464.2	436.4	413.2
4466.6	55°	3775.8	2652.9	674.5	487.8	453.5	477.1	472.4	436.8	403.3	384.4
4718.0	57.5°	3985.2	2805.2	660.8	447.9	427.8	460.4	442.4	402.9	383.6	369.4
5045.4	60°	4275.2	3044.2	631.2	398.6	403.3	435.5	404.6	388.3	367.3	351.4
5536.2	62.5°	4757.1	3490.0	583.5	349.7	374.6	398.6	386.6	370.3	348.8	333.4
6375.5	65°	5469.3	4109.6	493.9	311.5	342.4	362.6	367.3	351.0	328.7	312.4
7110.9	67.5°	6070.0	4498.3	373.7	279.8	309.4	333.4	346.7	330.8	307.2	291.3
7283.0	70°	6037.0	4216.0	285.3	248.4	280.2	304.6	321.8	309.4	284.0	269.0
6615.3	72.5°	5362.0	3526.9	230.8	216.7	250.6	274.6	295.2	285.8	260.0	245.4
4846.3	75°	3939.3	2503.6	184.5	184.5	213.7	243.3	266.0	260.0	236.4	226.1
2034.6	77.5°	1660.5	1050.4	144.6	153.2	177.6	209.0	237.3	239.4	218.8	231.7
538.0	80°	441.5	289.6	110.3	120.6	139.4	172.5	206.4	205.5	183.2	171.2
199.9	82.5°	168.2	114.1	78.5	85.0	100.8	132.2	163.5	168.6	146.3	126.6
78.5	85°	64.8	48.9	48.5	51.1	58.8	87.5	123.6	127.9	110.3	93.5
21.9	87.5°	16.7	14.6	18.0	17.2	27.0	46.8	70.8	73.4	67.4	39.0
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>
1185.5
1131.0
1048.2
972.7
927.2
914.3
924.6
939.2
939.2
917.8
877.9
825.5
765.0
698.1
639.3
612.7
573.7
520.5
476.7
447.5
426.1
413.6
382.7
368.1
350.5
333.4
313.2
291.8
270.3
245.4
223.1
210.2
159.2
126.6
96.5
55.8
0.0

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