

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: P946948

Luminaire Tested: **GALN-SB2B-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8377 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

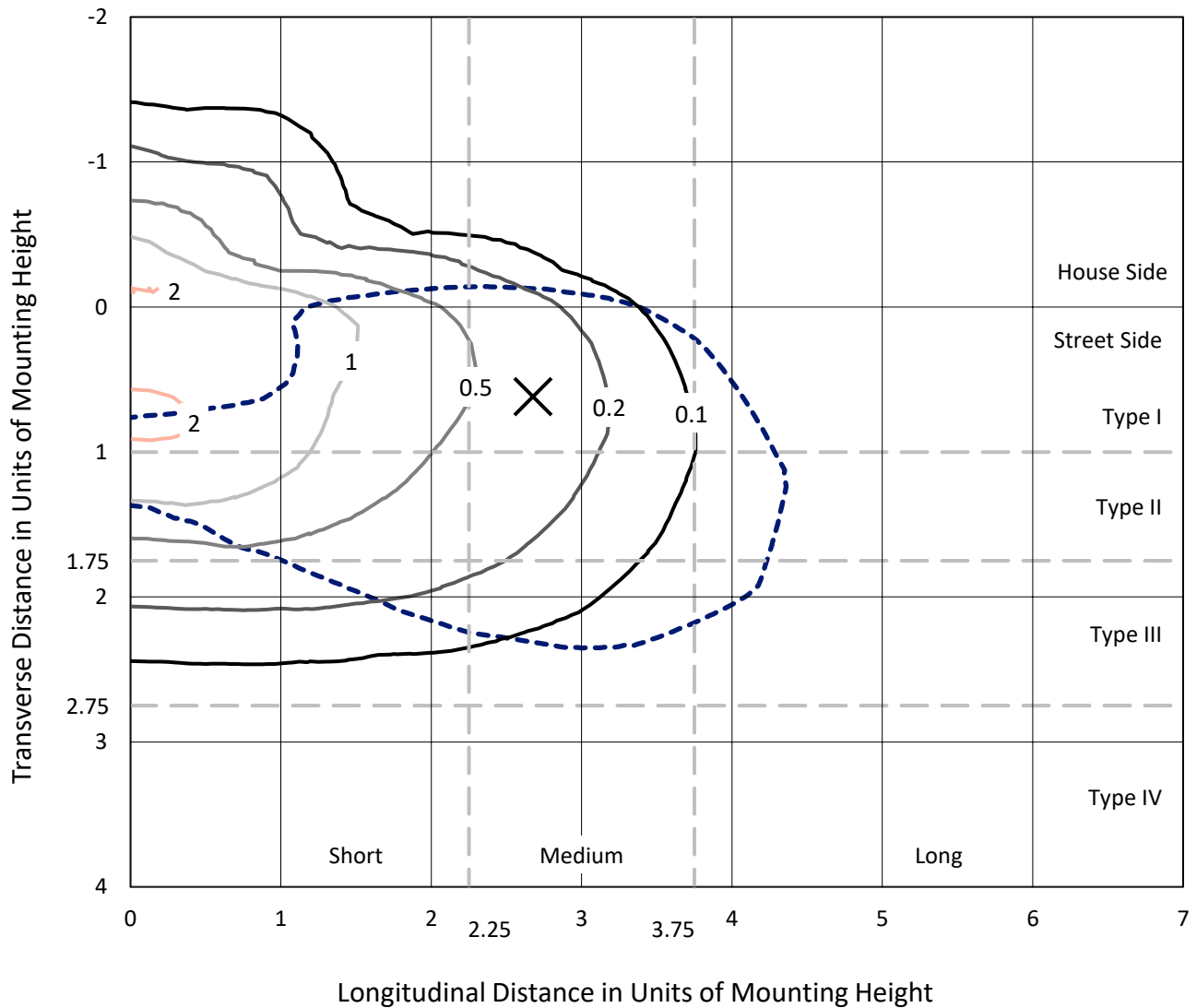
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

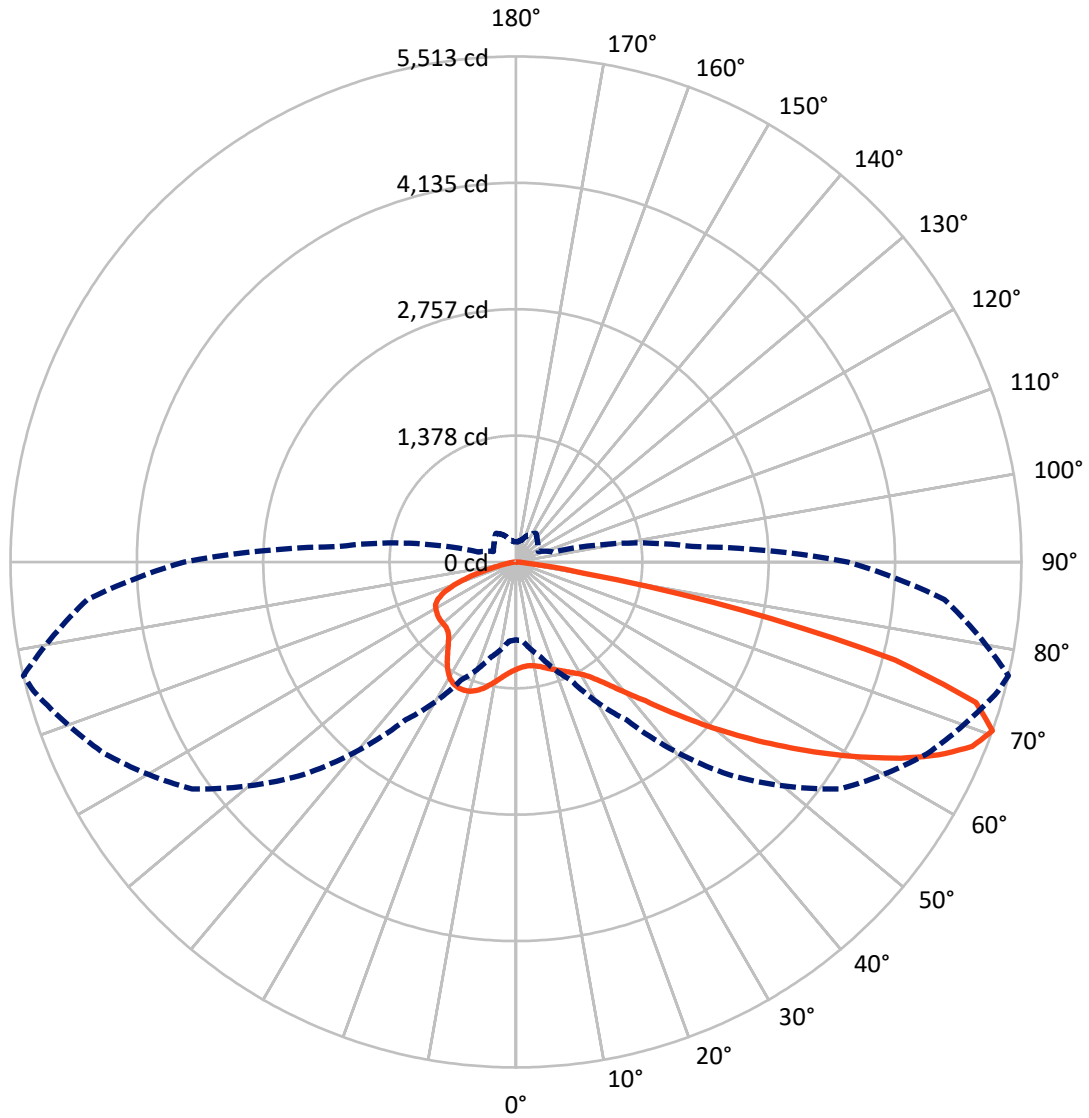
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1834.4	0.0	1834.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6542.6	0.0	6542.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	8377.0	0.0	8377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	1.3
10°-20°	321.7	3.8
20°-30°	550.1	6.6
30°-40°	884.7	10.6
40°-50°	1381.2	16.5
50°-60°	1844.9	22.0
60°-70°	1966.4	23.5
70°-80°	1210.5	14.5
80°-90°	106.1	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°	8377.0	100.0
0°-180°	8377.0	100.0

Coefficient of Utilization



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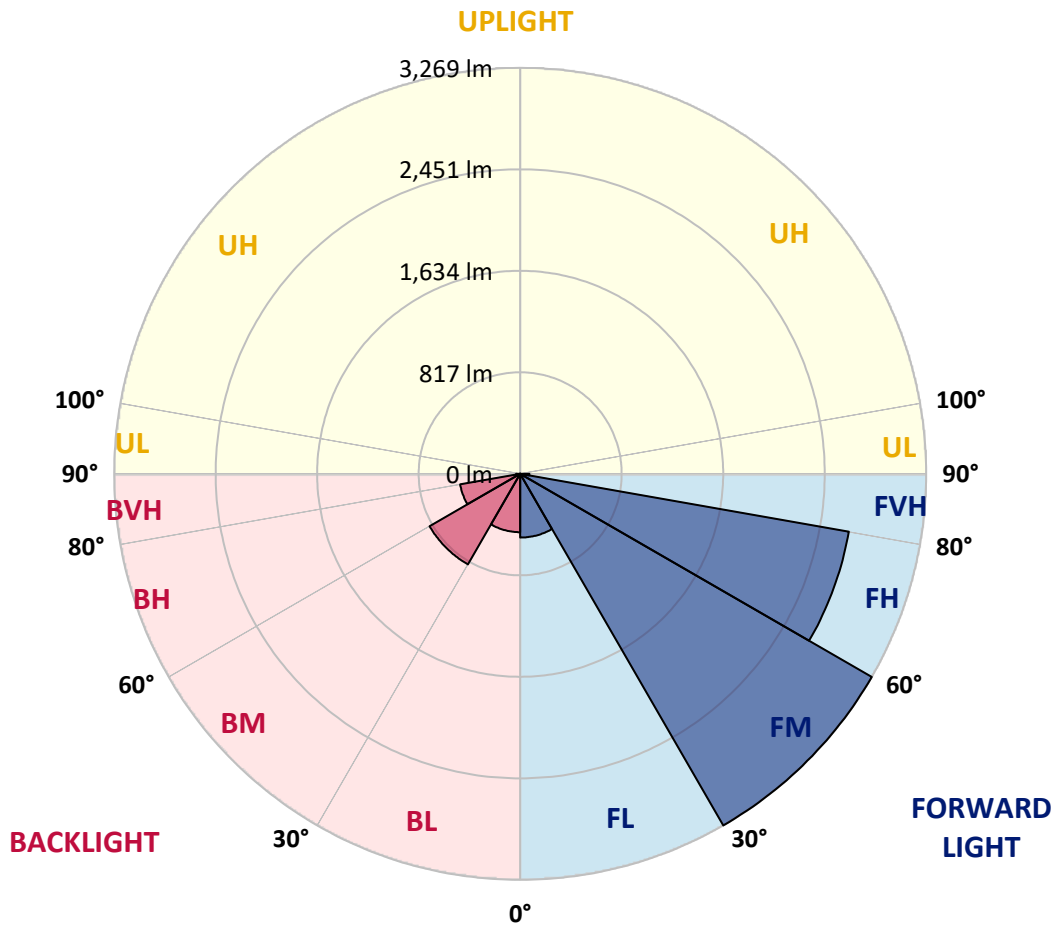
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.2	6.1			
FM (30°-60°)	3268.5	39.0			
FH (60°-80°)	2686.6	32.1			G2/5000
FVH (80°-90°)	74.2	0.9			G1/100
BL (0°-30°)	470.0	5.6	B1/500		
BM (30°-60°)	842.2	10.1	B1/1000		
BH (60°-80°)	490.3	5.9	B1/500		G1/500
BVH (80°-90°)	31.9	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1168.7	1168.7	1168.7	1168.7	1168.7	1168.7	1168.7	1168.7	1168.7	1168.7
2.5°	1077.3	1076.9	1082.4	1084.1	1094.4	1101.7	1115.5	1130.1	1148.9	1151.1
5°	1015.1	1015.1	1021.5	1028.4	1041.7	1056.3	1077.3	1102.6	1135.2	1140.4
7.5°	962.3	965.7	971.3	984.6	1000.1	1021.1	1053.3	1089.3	1132.2	1140.4
10°	919.8	923.7	930.6	941.3	964.5	993.6	1035.7	1082.0	1139.5	1152.4
12.5°	906.5	910.4	914.3	922.4	943.9	978.2	1028.4	1085.4	1157.1	1170.0
15°	937.4	942.1	939.1	937.0	948.1	979.5	1031.8	1097.9	1179.0	1197.4
17.5°	1008.6	1010.4	1003.5	983.3	981.6	998.3	1048.1	1115.0	1206.4	1226.6
20°	1123.6	1120.6	1106.5	1066.6	1043.8	1040.4	1076.0	1140.8	1234.7	1256.2
22.5°	1279.8	1276.4	1248.0	1185.0	1134.3	1100.9	1116.3	1174.2	1266.5	1290.5
25°	1474.6	1469.8	1428.2	1342.4	1263.9	1181.1	1171.2	1218.4	1305.5	1327.8
27.5°	1701.9	1698.1	1653.0	1539.8	1426.5	1290.9	1239.5	1270.3	1346.3	1371.6
30°	1946.5	1957.6	1877.8	1756.0	1612.7	1434.2	1331.3	1334.3	1399.1	1421.8
32.5°	2233.9	2253.2	2157.1	2002.7	1807.1	1590.0	1447.1	1423.5	1475.9	1494.7
35°	2518.8	2540.7	2460.9	2290.1	2064.9	1773.6	1568.1	1526.0	1578.0	1598.6
37.5°	2765.1	2794.2	2753.1	2604.6	2340.8	1995.0	1726.0	1646.6	1703.7	1729.4
40°	2959.4	3004.0	3001.0	2908.4	2666.0	2263.5	1926.3	1795.5	1859.8	1887.7
42.5°	3117.3	3155.9	3189.4	3184.7	3005.3	2568.6	2161.9	1989.0	2037.9	2070.1
45°	3226.3	3267.5	3339.5	3417.2	3331.8	2895.1	2431.7	2218.5	2263.1	2311.6
47.5°	3323.7	3370.4	3464.0	3587.1	3609.0	3222.8	2727.3	2485.8	2526.5	2576.7
50°	3332.2	3372.6	3517.6	3692.2	3805.9	3537.8	3044.8	2785.7	2823.9	2877.5
52.5°	3125.0	3188.5	3441.6	3689.2	3896.4	3801.2	3360.1	3097.6	3140.5	3204.8
55°	2425.7	2518.8	3219.0	3574.2	3864.2	3971.5	3660.0	3429.2	3484.1	3551.5
57.5°	2089.4	2130.1	2555.3	3364.9	3717.5	4015.7	3913.1	3764.3	3852.7	3926.4
60°	1877.8	1911.7	2163.2	3039.2	3524.5	3945.8	4108.8	4076.6	4229.3	4317.3
62.5°	1651.3	1683.5	1912.2	2537.7	3277.3	3829.5	4232.3	4364.9	4615.5	4711.6
65°	1426.5	1454.0	1673.2	2132.3	2963.3	3713.2	4296.3	4614.2	4972.8	5072.4
67.5°	1176.0	1198.7	1405.9	1798.9	2581.5	3554.1	4328.0	4810.2	5283.9	5369.3
70°	848.6	866.2	1080.3	1422.7	2102.2	3280.3	4315.1	4949.2	5445.2	5513.4
72.5°	401.1	417.0	668.4	923.7	1484.9	2747.5	4054.7	4839.0	5281.3	5247.4
75°	214.1	227.8	384.0	506.7	784.3	1883.4	3318.1	4168.4	4434.8	4270.1
77.5°	145.0	155.7	237.7	304.2	358.2	894.1	2132.7	2886.1	2776.7	2504.7
80°	115.0	126.1	194.8	205.9	173.3	323.1	881.2	1336.0	959.7	767.5
82.5°	88.4	100.8	163.9	149.3	94.4	132.6	256.6	422.6	245.8	187.1
85°	54.1	67.4	128.7	95.2	53.2	60.5	87.1	117.6	75.1	62.6
87.5°	27.5	38.6	65.2	34.8	24.0	14.2	23.2	23.2	19.7	17.2
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°
1168.7	0°	1168.7	1168.7	1168.7	1168.7	1168.7	1168.7	1168.7	1168.7	1168.7	1168.7
1162.7	2.5°	1173.0	1181.5	1196.1	1209.9	1220.6	1230.9	1241.2	1246.8	1248.5	1255.3
1169.1	5°	1186.7	1202.6	1230.9	1257.5	1274.2	1284.5	1291.8	1296.1	1296.9	1299.1
1186.7	7.5°	1212.0	1237.3	1276.8	1303.4	1315.8	1315.0	1312.0	1301.2	1296.9	1293.1
1212.4	10°	1247.6	1281.1	1329.6	1348.0	1340.3	1319.7	1293.1	1261.8	1247.2	1233.0
1247.6	12.5°	1291.8	1334.3	1381.9	1381.0	1342.9	1290.1	1228.3	1180.3	1149.8	1127.9
1290.9	15°	1345.4	1394.3	1430.8	1401.6	1318.0	1223.2	1132.6	1070.0	1042.5	1018.5
1334.7	17.5°	1400.8	1453.1	1469.8	1395.2	1255.3	1124.0	1021.5	972.2	945.1	932.3
1381.9	20°	1454.8	1506.7	1493.0	1358.3	1160.1	1011.6	920.3	893.2	887.7	890.7
1427.8	22.5°	1511.9	1558.2	1497.7	1287.1	1038.7	896.7	846.5	847.3	859.8	868.8
1475.9	25°	1570.2	1601.6	1485.3	1184.1	908.2	812.1	799.7	813.4	837.9	855.5
1529.9	27.5°	1626.4	1640.2	1458.3	1056.7	796.3	751.7	753.8	782.1	819.0	843.5
1595.5	30°	1689.9	1674.5	1406.3	913.4	718.6	699.7	717.8	750.8	787.7	809.6
1678.4	32.5°	1761.6	1704.1	1324.0	780.8	663.7	658.1	687.7	709.2	725.5	731.9
1788.2	35°	1850.8	1745.7	1218.4	687.7	614.4	627.7	656.0	645.3	638.8	635.4
1935.8	37.5°	1966.7	1801.9	1094.9	627.2	574.5	605.8	617.4	583.9	558.6	546.2
2114.7	40°	2106.1	1884.3	976.0	580.5	549.2	586.9	566.7	526.4	494.2	476.6
2315.9	42.5°	2261.0	1970.5	876.1	545.3	535.0	571.5	529.4	481.4	429.5	423.9
2555.7	45°	2423.6	2059.3	807.9	518.3	528.1	558.2	508.0	430.3	393.4	416.2
2796.4	47.5°	2586.2	2140.8	766.7	498.1	524.7	543.1	489.1	402.0	375.8	408.9
3054.2	50°	2767.2	2213.8	748.2	483.5	520.8	537.1	460.8	394.7	357.4	379.3
3321.1	52.5°	2947.0	2270.4	734.5	468.9	515.3	532.4	447.0	386.1	335.1	336.4
3589.7	55°	3126.3	2307.3	719.5	449.6	502.8	522.1	445.8	376.7	318.3	312.3
3873.7	57.5°	3317.7	2328.3	701.0	428.2	481.4	496.0	444.5	369.4	313.2	303.3
4164.1	60°	3512.4	2359.2	677.0	402.0	452.6	464.6	441.5	366.8	310.2	293.5
4437.8	62.5°	3687.1	2369.9	648.3	377.1	415.7	433.7	435.0	364.7	302.0	273.3
4665.2	65°	3801.6	2323.6	598.1	348.8	375.8	402.0	422.6	357.4	287.4	258.7
4777.6	67.5°	3796.9	2191.5	519.6	312.3	337.2	366.8	404.6	344.9	269.9	240.7
4692.7	70°	3620.1	1930.6	420.0	269.9	294.7	329.1	381.4	326.5	248.8	220.9
4172.7	72.5°	3104.9	1511.0	305.0	220.1	245.4	290.0	351.4	304.2	227.4	203.4
3083.8	75°	2218.1	956.3	206.8	169.0	190.9	245.8	314.0	278.0	207.6	204.2
1544.5	77.5°	1133.1	456.9	136.9	123.6	133.0	193.9	263.9	248.4	210.7	168.6
439.3	80°	368.5	168.6	86.2	84.1	88.4	129.1	204.2	203.8	159.6	114.6
106.4	82.5°	117.6	72.5	56.2	54.1	51.9	81.1	142.4	161.3	107.7	72.5
38.2	85°	46.8	43.3	33.0	30.5	21.9	38.2	74.7	107.3	80.2	52.3
9.9	87.5°	17.2	17.2	9.0	6.4	4.7	12.9	20.2	32.2	45.9	27.0
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>
1168.7
1259.2
1302.5
1293.9
1228.7
1122.8
1015.9
936.1
889.4
870.9
860.2
849.5
814.7
735.4
638.8
549.2
477.9
429.5
428.2
424.3
395.6
345.4
316.6
304.6
294.7
273.3
258.7
242.0
223.5
202.1
192.6
150.2
101.3
72.1
53.6
26.6
0.0

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