

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: P939649

Luminaire Tested: **GALN-SB2B-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10001 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

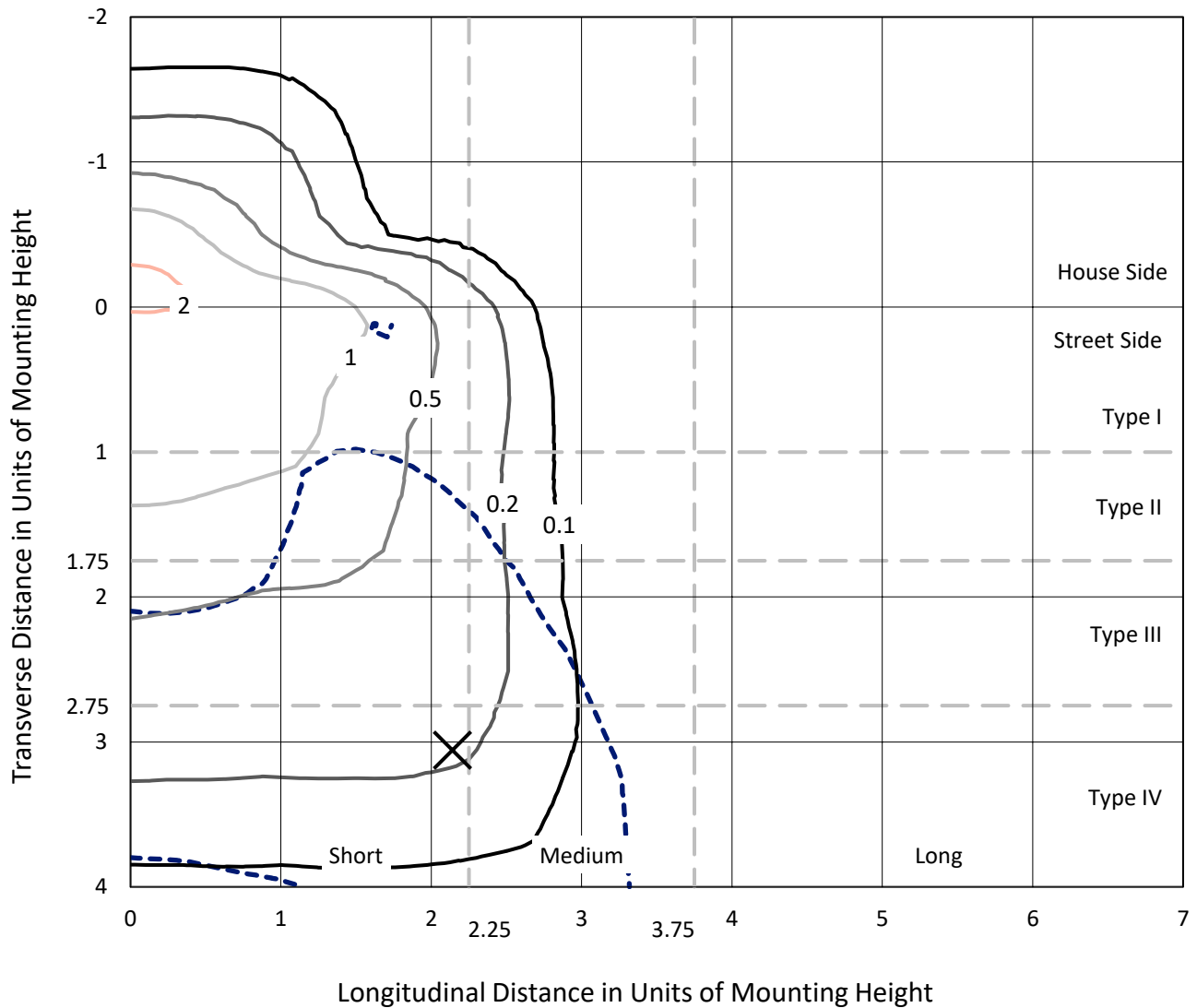
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

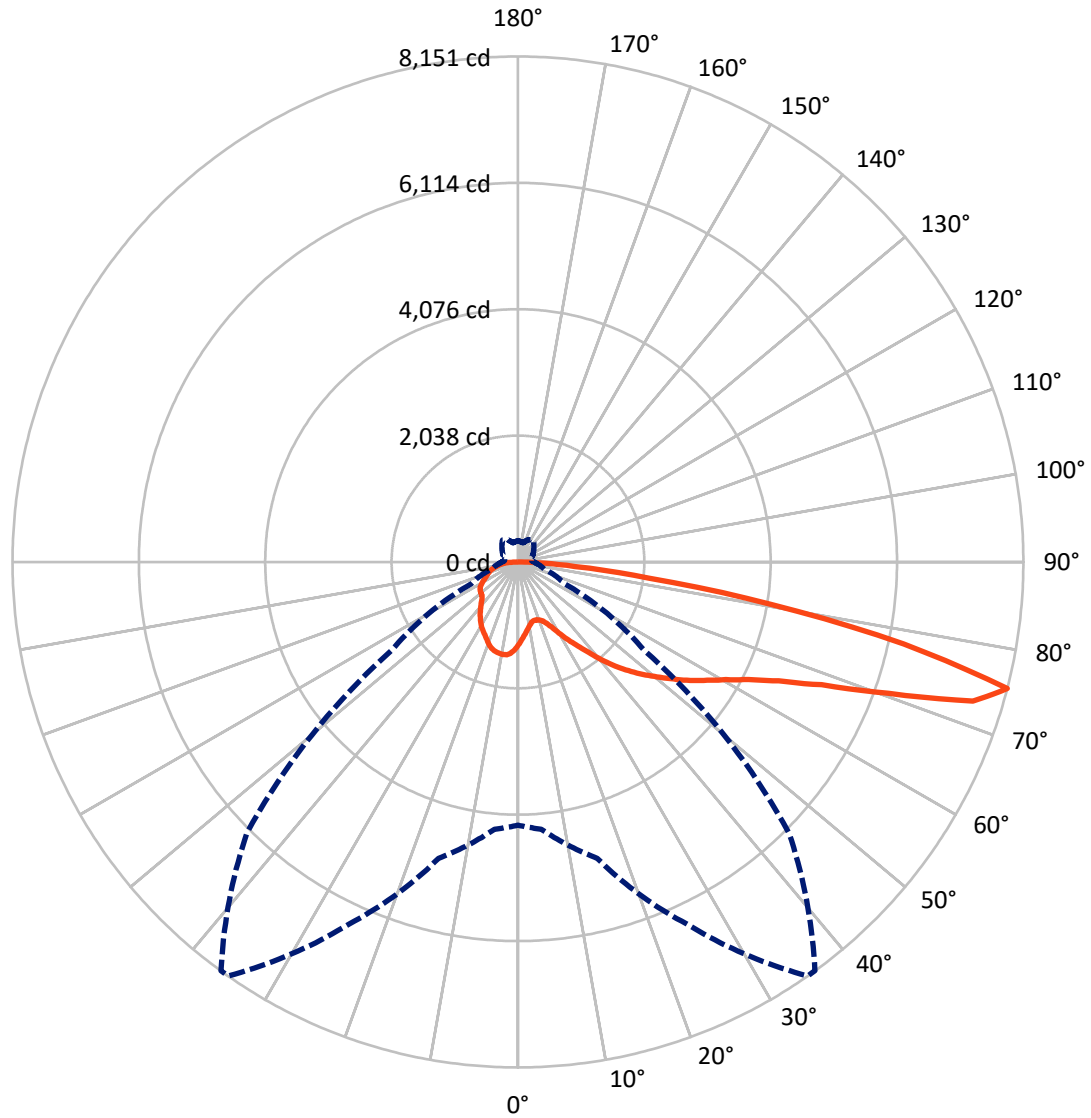
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2380.0	0.0	2380.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	7621.0	0.0	7621.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	10001.0	0.0	10001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	1.3
10°-20°	364.0	3.6
20°-30°	611.2	6.1
30°-40°	949.9	9.5
40°-50°	1409.8	14.1
50°-60°	1946.4	19.5
60°-70°	2361.4	23.6
70°-80°	1951.5	19.5
80°-90°	280.7	2.8
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°	10001.0	100.0
0°-180°	10001.0	100.0

Coefficient of Utilization



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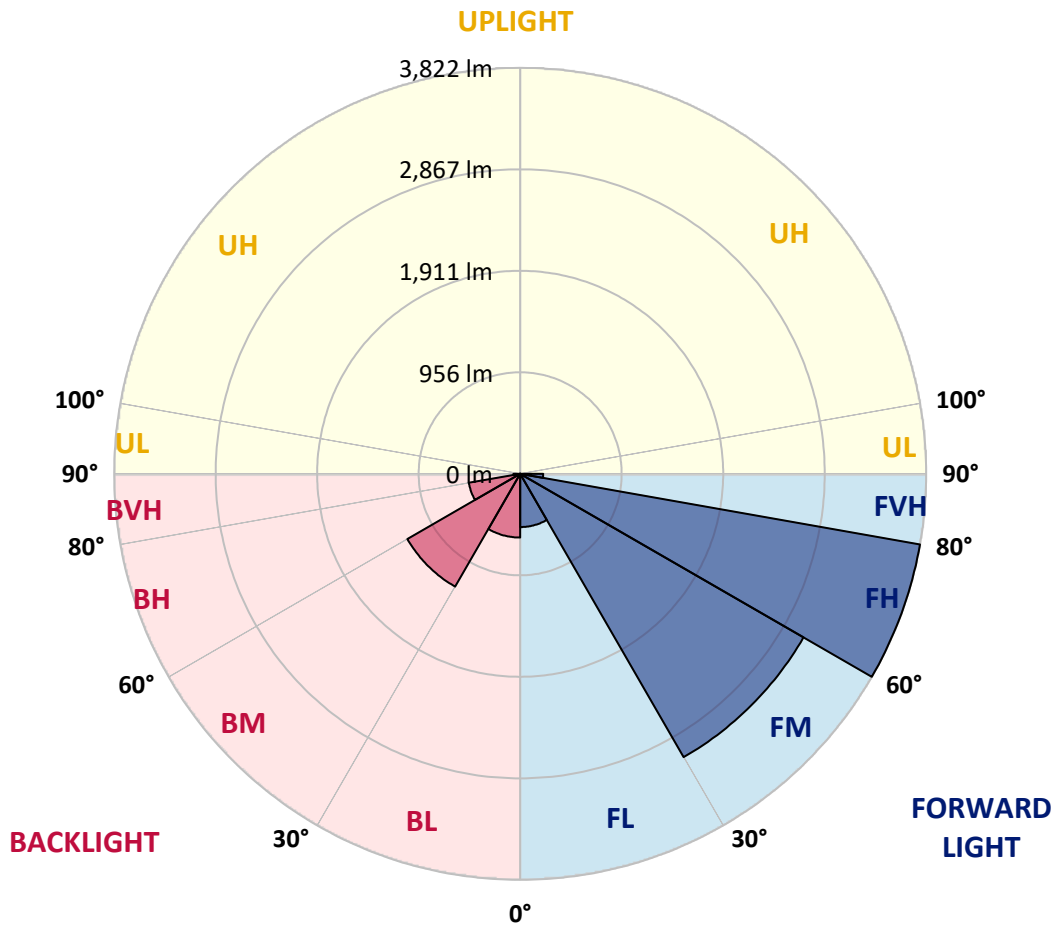
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.5	5.0			
FM (30°-60°)	3079.8	30.8			
FH (60°-80°)	3822.2	38.2			G2/5000
FVH (80°-90°)	217.5	2.2			G2/225
BL (0°-30°)	599.8	6.0	B2/1000		
BM (30°-60°)	1226.3	12.3	B2/2500		
BH (60°-80°)	490.7	4.9	B1/500		G1/500
BVH (80°-90°)	63.2	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7
2.5°	1228.9	1236.5	1239.7	1238.1	1246.2	1245.1	1256.5	1270.5	1290.0	1308.9
5°	1134.3	1142.4	1149.4	1155.9	1171.6	1176.5	1194.3	1221.3	1257.0	1293.2
7.5°	1046.2	1053.2	1064.0	1075.9	1102.4	1107.3	1137.0	1179.2	1228.9	1281.9
10°	974.3	981.3	992.6	1006.1	1039.1	1045.1	1082.9	1139.1	1204.0	1271.1
12.5°	943.4	945.6	952.1	965.6	994.3	998.0	1039.7	1104.0	1179.7	1263.0
15°	941.8	946.1	946.7	953.7	977.5	979.1	1017.5	1081.3	1164.6	1261.3
17.5°	958.0	961.3	956.4	960.7	980.7	983.4	1013.7	1070.5	1159.7	1268.4
20°	1001.3	1004.0	989.4	983.4	998.0	1000.2	1029.9	1077.5	1164.6	1283.0
22.5°	1093.2	1094.8	1059.1	1034.8	1035.9	1037.0	1062.9	1106.2	1183.5	1309.5
25°	1236.5	1235.4	1178.6	1131.6	1104.5	1098.6	1115.9	1152.7	1215.4	1344.6
27.5°	1404.1	1396.0	1339.2	1268.9	1210.0	1201.3	1197.5	1213.2	1260.8	1391.1
30°	1593.3	1585.7	1524.6	1432.7	1351.1	1337.0	1301.3	1293.2	1328.4	1454.3
32.5°	1800.9	1796.0	1723.0	1611.7	1502.5	1486.2	1426.2	1404.6	1432.2	1550.0
35°	1975.0	1970.7	1910.1	1795.5	1662.0	1642.0	1580.9	1556.5	1570.6	1672.8
37.5°	2132.3	2130.2	2078.3	1988.0	1850.1	1825.8	1757.1	1749.0	1746.3	1834.4
40°	2278.3	2272.9	2218.8	2171.2	2069.1	2046.9	1986.3	1979.3	1958.8	2033.4
42.5°	2440.0	2425.9	2347.5	2325.3	2297.8	2279.4	2243.2	2244.2	2198.8	2257.8
45°	2571.9	2563.8	2483.2	2470.2	2500.0	2492.4	2523.8	2531.9	2443.7	2492.9
47.5°	2713.5	2706.0	2637.8	2628.6	2709.2	2711.4	2822.2	2824.9	2682.7	2737.3
50°	2888.1	2877.3	2809.8	2821.1	2911.4	2919.5	3122.3	3103.9	2902.7	2985.5
52.5°	3003.3	3009.8	2995.2	3013.6	3136.8	3144.4	3417.4	3370.4	3120.6	3230.4
55°	3088.2	3101.2	3146.6	3188.8	3374.7	3382.3	3695.9	3624.0	3301.2	3457.5
57.5°	3197.4	3179.0	3263.9	3346.1	3600.7	3620.7	3966.7	3868.3	3461.2	3653.2
60°	3354.2	3341.2	3407.2	3528.8	3853.7	3885.6	4253.3	4088.4	3578.6	3808.3
62.5°	3672.1	3639.7	3649.9	3757.5	4172.7	4214.9	4576.6	4280.3	3636.9	3868.9
65°	4147.3	4091.6	4039.7	4114.3	4622.0	4663.6	4941.5	4431.2	3615.3	3751.6
67.5°	4745.8	4690.7	4626.9	4697.2	5283.8	5316.7	5391.9	4516.0	3445.0	3299.6
70°	5239.4	5218.9	5295.1	5584.4	6340.7	6341.8	5969.3	4445.8	2978.4	2339.4
72.5°	5174.0	5161.6	5563.3	6457.5	7672.9	7644.2	6515.9	3913.8	2006.4	1055.3
75°	4244.6	4325.2	4947.5	6441.8	8151.4	8147.6	6181.2	2488.1	829.9	437.4
77.5°	2276.1	2403.7	3212.0	4756.1	6363.4	6459.1	4345.7	870.4	356.3	280.1
80°	742.3	853.7	1280.3	2421.6	4134.9	4117.0	1862.5	341.7	243.8	198.4
82.5°	315.2	328.2	572.0	1143.5	2122.0	2089.1	593.1	196.3	171.4	135.7
85°	123.3	137.9	252.5	528.8	919.1	899.1	214.1	97.3	109.8	88.7
87.5°	40.5	49.2	90.3	181.1	286.0	275.7	52.4	33.5	47.6	40.5
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°
1332.7	0°	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7	1332.7
1336.5	2.5°	1344.1	1352.7	1363.0	1378.1	1391.1	1401.9	1413.3	1420.3	1423.0	1431.1
1338.6	5°	1353.8	1372.7	1398.1	1423.0	1447.3	1461.9	1474.9	1481.4	1487.3	1491.7
1344.6	7.5°	1370.0	1394.3	1434.3	1466.8	1487.3	1499.2	1507.9	1505.7	1507.9	1509.0
1351.1	10°	1384.1	1418.1	1465.7	1496.5	1512.2	1512.7	1510.6	1503.0	1499.2	1499.8
1360.8	12.5°	1400.8	1438.7	1490.0	1516.0	1520.3	1508.4	1499.2	1486.2	1481.4	1479.2
1375.4	15°	1423.5	1466.8	1516.5	1526.3	1515.4	1500.3	1484.6	1463.5	1452.7	1444.1
1400.3	17.5°	1451.1	1498.7	1537.1	1530.0	1506.8	1481.9	1456.5	1424.6	1402.4	1393.3
1434.3	20°	1489.5	1532.2	1552.7	1521.9	1486.8	1448.9	1405.7	1366.8	1346.2	1337.0
1477.6	22.5°	1536.0	1577.1	1567.9	1507.9	1458.1	1397.6	1343.5	1314.9	1304.6	1298.1
1533.3	25°	1591.7	1626.8	1578.7	1487.3	1411.1	1329.5	1287.8	1278.6	1273.8	1268.9
1601.4	27.5°	1664.1	1683.0	1586.8	1457.1	1337.6	1257.0	1241.9	1243.5	1241.9	1233.8
1696.0	30°	1759.8	1756.0	1594.4	1407.9	1253.2	1191.6	1192.7	1199.7	1200.8	1195.4
1827.9	32.5°	1885.8	1847.4	1598.2	1344.1	1172.7	1134.3	1135.4	1142.9	1148.3	1139.1
2000.4	35°	2038.2	1953.9	1592.2	1264.0	1110.5	1079.7	1071.6	1073.7	1075.4	1066.7
2209.6	37.5°	2216.1	2073.4	1565.7	1175.4	1059.1	1026.2	1008.9	994.3	985.6	977.5
2446.4	40°	2411.3	2203.7	1517.1	1088.9	1001.8	969.4	943.4	915.9	886.7	875.9
2697.3	42.5°	2615.7	2337.8	1458.1	1006.1	935.9	909.4	881.8	841.8	798.0	775.8
2957.9	45°	2827.6	2475.1	1400.3	924.5	868.3	856.9	825.0	776.9	729.3	701.2
3219.0	47.5°	3035.2	2604.8	1315.4	842.3	805.0	817.5	792.6	748.3	695.3	650.9
3478.0	50°	3233.6	2726.5	1176.5	759.1	753.7	805.6	781.8	718.0	657.4	600.7
3732.1	52.5°	3430.4	2824.9	998.6	683.4	726.1	802.3	767.7	697.4	623.4	563.9
3971.1	55°	3597.5	2875.7	827.2	618.5	686.1	774.8	751.0	673.1	575.3	512.0
4134.9	57.5°	3692.6	2834.6	684.5	554.7	630.9	729.3	722.3	621.2	517.9	469.3
4166.8	60°	3651.5	2668.1	567.7	499.0	578.5	680.1	672.6	569.8	474.1	428.2
3995.9	62.5°	3425.0	2350.7	475.2	450.4	530.9	629.9	622.8	530.4	440.6	396.3
3542.3	65°	2968.7	1912.3	403.3	409.8	482.8	569.3	579.6	497.4	414.1	370.9
2740.6	67.5°	2264.2	1385.1	347.1	374.7	435.8	509.8	539.6	473.6	392.0	350.9
1585.7	70°	1290.5	786.6	299.5	340.6	394.1	454.7	508.8	454.7	368.2	334.1
594.2	72.5°	489.3	361.2	259.0	306.5	354.1	408.2	474.7	425.0	340.6	315.2
307.1	75°	261.1	220.0	217.9	266.5	308.2	362.8	432.0	395.8	320.1	333.0
212.5	77.5°	177.9	155.7	182.2	228.2	257.9	312.5	386.6	351.4	277.4	276.3
147.1	80°	123.3	110.3	148.1	183.8	199.5	262.8	337.4	301.7	226.0	210.9
90.8	82.5°	74.1	71.9	110.8	137.3	141.1	202.7	279.5	253.0	184.9	161.1
54.1	85°	40.5	42.7	70.8	80.6	82.2	141.7	219.0	195.7	142.2	119.5
19.5	87.5°	11.4	14.6	26.0	31.9	39.5	73.5	130.3	116.2	71.4	49.7
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>
1332.7
1430.6
1492.7
1510.6
1500.8
1478.1
1446.8
1393.8
1335.9
1299.2
1268.9
1235.4
1198.1
1143.5
1072.6
982.9
880.7
778.5
699.1
646.1
595.8
557.4
506.6
462.8
421.7
389.3
363.9
344.4
329.8
310.9
343.9
254.6
201.7
162.2
120.6
49.7
0.0

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