

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: P946005

Luminaire Tested: **GALN-SB1D-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10748 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

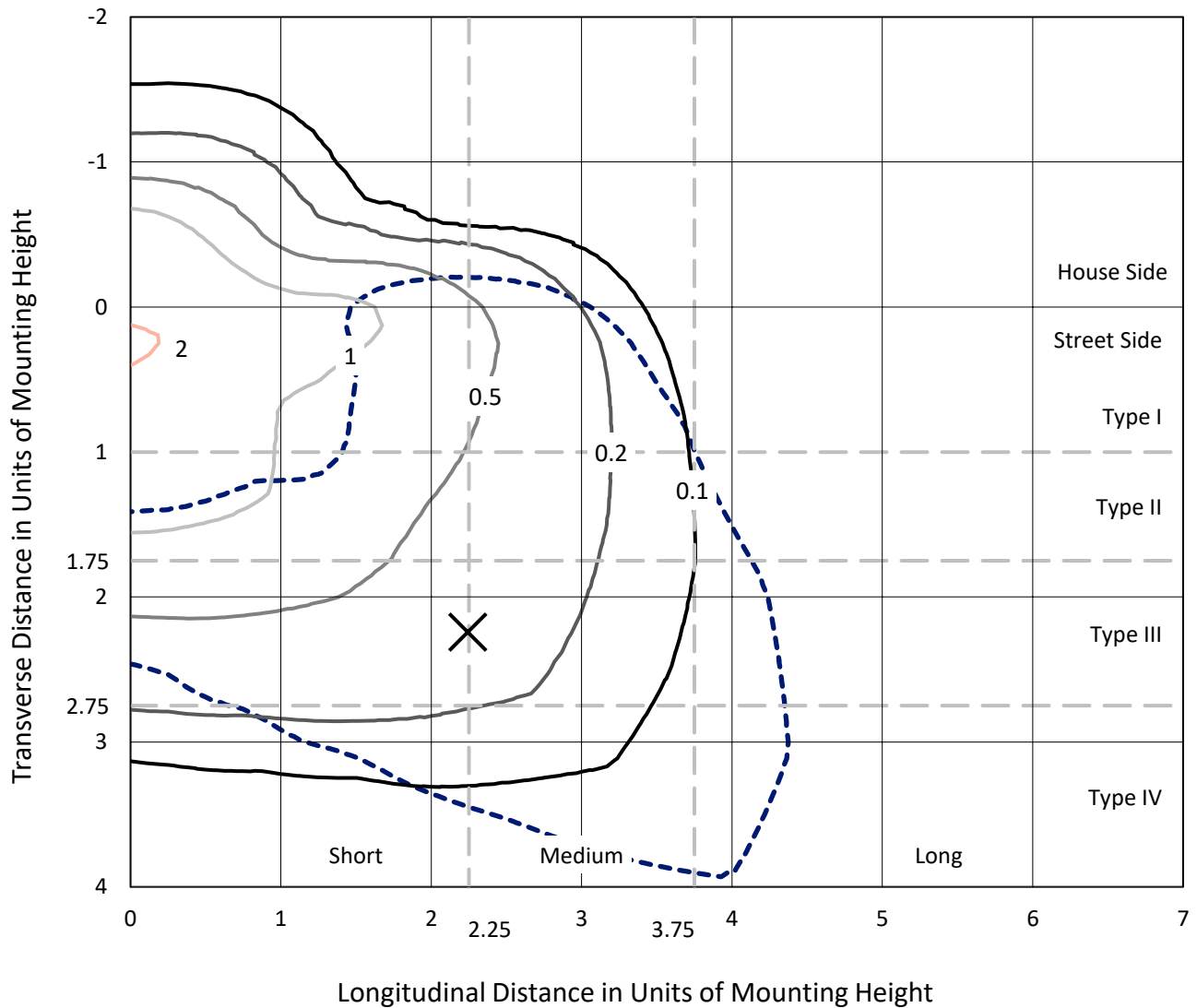
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

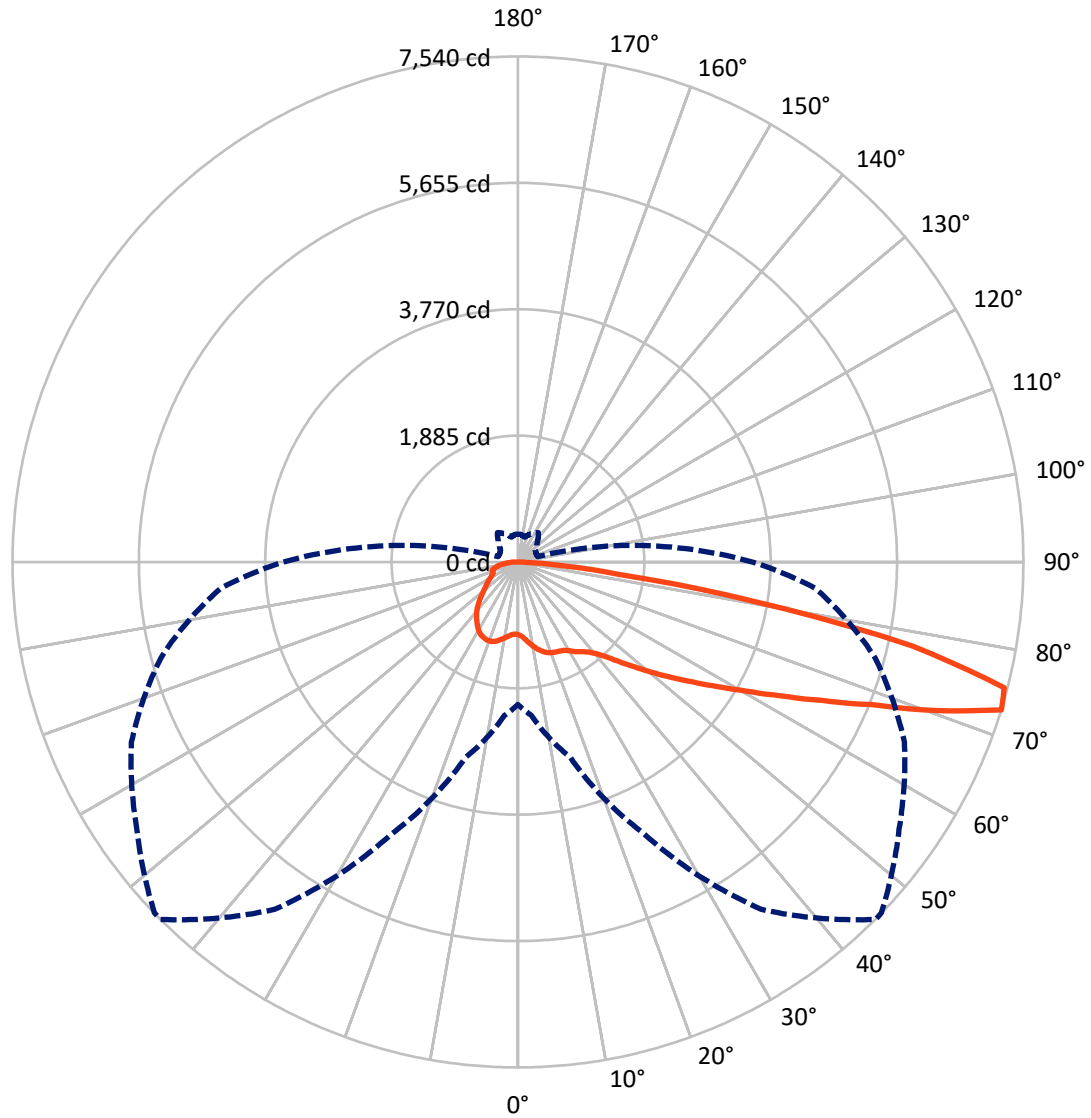
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2429.7	0.0	2429.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	8318.2	0.0	8318.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	10748.0	0.0	10748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	1.0
10°-20°	367.9	3.4
20°-30°	640.1	6.0
30°-40°	917.6	8.5
40°-50°	1292.0	12.0
50°-60°	1978.9	18.4
60°-70°	2866.8	26.7
70°-80°	2289.3	21.3
80°-90°	285.1	2.7
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°	10748.0	100.0
0°-180°	10748.0	100.0

Coefficient of Utilization



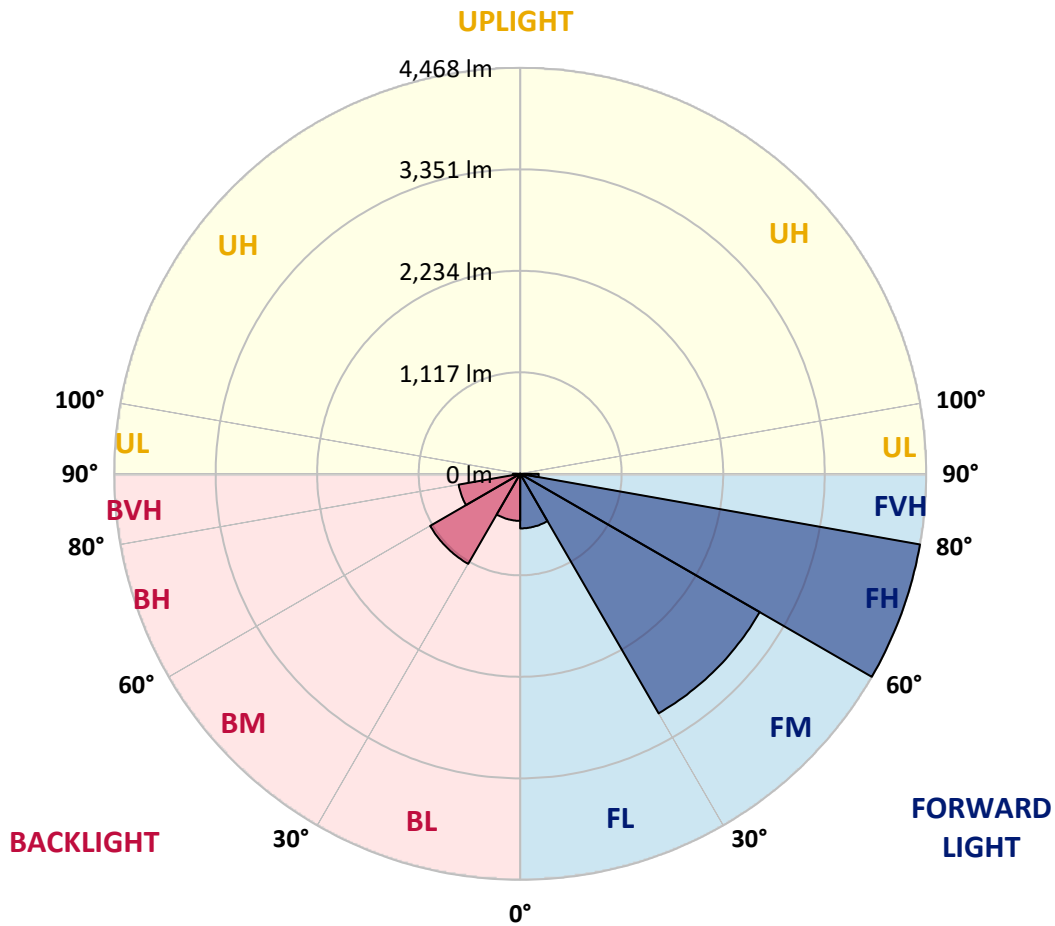
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.0	5.6			
FM (30°-60°)	3044.4	28.3			
FH (60°-80°)	4468.3	41.6			G2/5000
FVH (80°-90°)	204.6	1.9			G2/225
BL (0°-30°)	517.3	4.8	B2/1000		
BM (30°-60°)	1144.1	10.6	B2/2500		
BH (60°-80°)	687.8	6.4	B2/1000		G2/1000
BVH (80°-90°)	80.6	0.7			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°	45°	46°	55°	65°	75°
0°	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3
2.5°	1126.7	1134.1	1127.3	1121.1	1118.2	1110.9	1110.3	1105.8	1102.9	1095.0
5°	1205.4	1215.1	1203.7	1191.3	1180.0	1161.8	1159.6	1146.5	1131.8	1114.8
7.5°	1294.3	1302.8	1289.8	1271.1	1251.3	1221.3	1220.7	1196.9	1173.7	1144.8
10°	1371.9	1383.2	1365.7	1340.2	1315.3	1281.3	1277.3	1250.2	1220.7	1183.3
12.5°	1440.4	1448.3	1431.3	1400.2	1371.3	1337.4	1332.3	1302.2	1269.4	1226.9
15°	1494.8	1504.9	1482.3	1448.9	1418.3	1384.9	1380.4	1353.2	1320.4	1275.6
17.5°	1530.4	1538.9	1515.7	1478.3	1448.9	1421.2	1417.8	1395.1	1366.2	1320.9
20°	1544.0	1553.1	1528.7	1490.8	1463.6	1442.1	1440.4	1424.0	1404.2	1362.8
22.5°	1557.6	1566.1	1534.4	1494.8	1471.0	1457.4	1456.8	1446.1	1438.1	1404.2
25°	1612.5	1614.8	1572.3	1515.1	1481.2	1469.3	1468.7	1468.1	1471.5	1444.9
27.5°	1660.1	1659.5	1623.3	1569.5	1516.8	1491.9	1491.4	1497.0	1507.8	1485.7
30°	1729.7	1723.5	1680.5	1624.4	1576.3	1537.8	1534.4	1529.3	1537.8	1520.2
32.5°	1877.5	1857.7	1788.0	1688.4	1625.5	1596.1	1591.6	1559.9	1563.3	1552.5
35°	2089.3	2063.2	1970.4	1809.6	1686.7	1644.8	1642.5	1602.3	1595.5	1585.9
37.5°	2341.2	2308.9	2200.8	1985.1	1792.0	1701.4	1698.0	1661.8	1634.0	1623.8
40°	2594.3	2553.5	2464.1	2199.1	1947.1	1796.0	1785.2	1730.3	1698.6	1681.6
42.5°	2840.0	2806.1	2729.6	2439.2	2138.5	1934.1	1910.3	1816.4	1792.6	1776.7
45°	3057.5	3026.9	2970.8	2695.7	2362.7	2122.1	2098.9	1945.4	1938.1	1938.1
47.5°	3234.1	3227.3	3167.9	2957.2	2627.1	2336.1	2295.9	2124.9	2144.7	2175.3
50°	3430.0	3411.3	3347.9	3214.9	2938.0	2581.3	2548.4	2345.2	2419.4	2503.1
52.5°	3610.1	3620.3	3549.5	3483.2	3289.0	2854.8	2797.0	2605.1	2765.3	2904.0
55°	3795.2	3795.8	3776.0	3766.9	3657.1	3157.1	3093.7	2917.6	3172.4	3344.5
57.5°	3969.0	3970.2	3999.6	4079.4	4084.0	3505.9	3434.0	3301.5	3624.8	3800.3
60°	4124.2	4132.1	4212.5	4399.3	4459.4	3905.6	3837.7	3755.0	4092.5	4269.1
62.5°	4176.3	4205.1	4384.1	4649.6	4830.2	4395.9	4329.1	4279.9	4583.9	4748.1
65°	4087.9	4154.2	4500.1	4856.3	5211.8	4978.6	4912.3	4858.5	5094.6	5249.2
67.5°	3871.1	3956.6	4493.3	5073.1	5675.0	5679.5	5617.8	5491.5	5642.1	5701.6
70°	3299.8	3427.7	4097.6	5154.1	6206.6	6638.1	6578.6	6253.6	6188.5	5900.9
72.5°	2126.1	2298.2	3017.3	4487.7	6325.0	7540.0	7536.6	6941.6	6361.2	5513.6
75°	775.7	881.0	1401.9	2816.8	5309.2	7494.2	7516.2	6823.8	5806.9	4258.9
77.5°	282.5	309.1	457.5	1082.6	3265.2	6013.0	6058.9	5455.3	4133.2	2137.4
80°	148.3	163.1	234.4	420.1	1399.1	3571.0	3642.9	3242.0	1942.6	643.8
82.5°	82.1	88.9	131.4	228.2	630.2	1527.0	1570.1	1280.7	683.4	272.9
85°	44.2	47.0	61.7	124.6	308.0	529.4	541.3	382.7	272.3	160.2
87.5°	13.0	15.9	20.4	39.6	120.6	118.9	121.7	75.9	107.6	81.0
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°
1084.3	0°	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3
1092.8	2.5°	1089.4	1087.7	1081.4	1078.6	1075.2	1074.6	1077.5	1078.0	1078.6	1079.2
1105.2	5°	1099.6	1093.9	1088.2	1084.8	1086.0	1086.5	1092.2	1096.2	1099.0	1101.2
1128.4	7.5°	1119.4	1114.8	1105.2	1104.6	1106.3	1111.4	1118.8	1127.9	1133.0	1136.9
1158.4	10°	1148.8	1140.3	1129.0	1130.7	1134.1	1141.4	1156.7	1164.1	1172.6	1180.0
1195.2	12.5°	1178.8	1171.5	1158.4	1159.6	1165.2	1178.3	1193.0	1202.0	1207.7	1213.4
1234.9	15°	1217.9	1204.9	1190.7	1190.7	1200.9	1215.1	1221.8	1229.2	1232.6	1238.8
1277.3	17.5°	1258.1	1241.1	1222.4	1221.3	1233.7	1240.5	1244.5	1245.6	1246.8	1253.6
1318.7	20°	1298.3	1279.6	1253.0	1250.7	1253.6	1252.4	1251.9	1250.7	1252.4	1260.9
1361.1	22.5°	1337.9	1316.4	1279.6	1269.4	1261.5	1250.7	1250.2	1249.6	1250.7	1259.2
1407.0	25°	1384.3	1358.3	1309.0	1278.5	1251.9	1237.1	1238.8	1239.4	1240.5	1247.3
1454.6	27.5°	1434.7	1405.9	1336.2	1275.6	1227.5	1217.3	1214.5	1216.2	1220.2	1230.9
1502.1	30°	1485.1	1451.2	1361.1	1264.3	1196.9	1182.8	1173.7	1177.7	1190.1	1200.9
1543.4	32.5°	1531.0	1497.0	1381.0	1239.4	1157.9	1135.8	1123.9	1129.0	1141.4	1145.4
1589.3	35°	1584.8	1546.3	1389.4	1199.8	1115.4	1081.4	1065.6	1058.2	1064.4	1060.5
1643.1	37.5°	1644.8	1604.6	1388.3	1147.7	1065.6	1026.5	1004.4	976.7	963.7	950.1
1722.4	40°	1733.7	1675.9	1374.7	1084.8	1003.9	968.2	928.6	881.6	852.1	825.5
1850.3	42.5°	1854.9	1775.0	1349.8	1015.8	934.2	900.8	847.0	792.1	745.7	701.5
2044.5	45°	2035.5	1904.7	1318.7	942.1	858.9	826.1	767.8	706.0	653.4	596.8
2320.3	47.5°	2295.9	2079.1	1289.2	858.4	779.7	749.6	697.0	639.8	577.5	522.6
2718.9	50°	2653.8	2329.3	1262.0	776.8	701.5	678.9	637.0	578.7	515.8	471.6
3186.0	52.5°	3109.0	2669.6	1250.7	698.1	628.5	620.0	586.6	532.2	472.8	435.4
3730.7	55°	3631.6	3076.7	1250.7	622.8	564.5	567.3	544.1	493.7	442.2	408.8
4292.3	57.5°	4164.9	3488.9	1228.1	553.2	510.1	522.0	507.3	463.1	416.7	382.2
4882.9	60°	4656.4	3834.3	1136.4	489.8	462.0	480.7	471.1	433.1	376.5	347.6
5376.6	62.5°	5034.0	4029.0	959.7	439.4	422.4	443.9	438.8	393.5	369.2	357.3
5782.0	65°	5223.2	3997.3	733.8	394.6	389.0	422.4	411.6	409.9	390.7	377.1
5913.9	67.5°	5107.1	3724.4	532.2	361.8	369.7	402.6	443.9	450.7	415.0	388.4
5542.5	70°	4598.1	3230.7	396.3	330.7	345.4	403.1	506.2	471.6	407.1	376.0
4445.2	72.5°	3498.0	2409.2	307.4	297.8	313.7	406.0	533.9	462.0	384.4	415.6
2769.3	75°	2000.4	1322.6	246.9	257.6	274.0	379.4	519.8	437.1	366.9	381.6
1097.3	77.5°	762.7	508.4	203.8	218.0	220.2	331.2	497.1	435.4	349.3	340.8
329.0	80°	264.4	198.7	168.7	173.3	170.4	294.4	476.7	378.8	285.9	255.9
135.9	82.5°	108.1	99.1	133.6	128.0	121.2	228.7	385.0	309.7	233.8	206.7
65.7	85°	47.0	62.8	88.3	77.6	70.2	158.5	308.6	262.1	197.6	170.4
21.5	87.5°	9.6	23.8	37.4	35.1	36.2	105.9	219.1	186.3	139.9	104.7
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>
1084.3
1081.4
1102.4
1138.1
1178.3
1215.6
1241.1
1255.8
1264.3
1264.9
1256.4
1241.7
1212.8
1159.6
1072.9
958.6
827.2
697.6
590.0
516.4
468.8
432.6
405.4
376.5
343.1
353.3
372.6
383.9
370.9
412.2
381.6
310.8
247.4
204.4
169.9
82.1
0.0

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