

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: P946339

Luminaire Tested: **GALN-SB2A-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946339
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-SB2A-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9209 lumens
Efficiency: N/A
Efficacy: 160.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

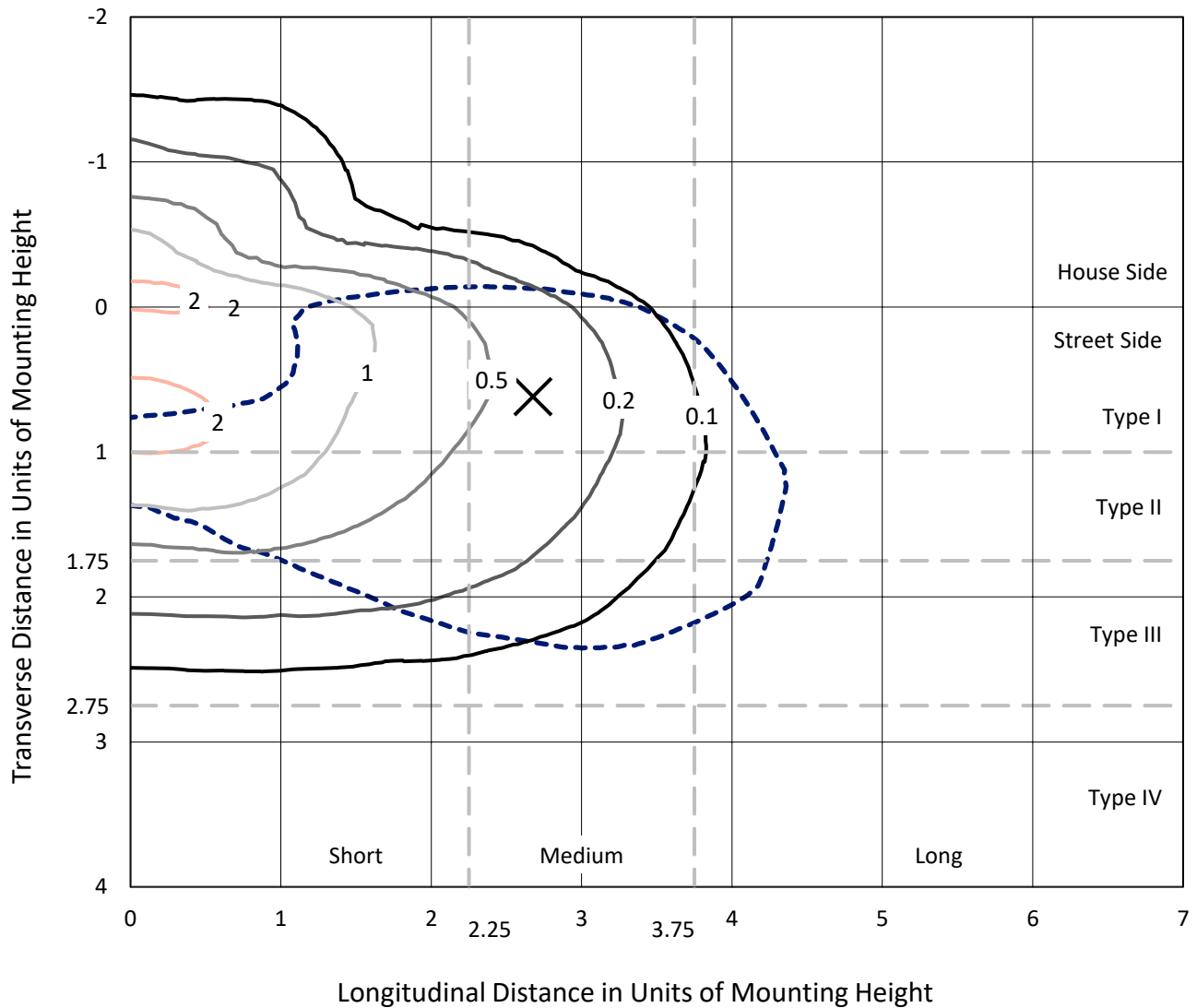
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

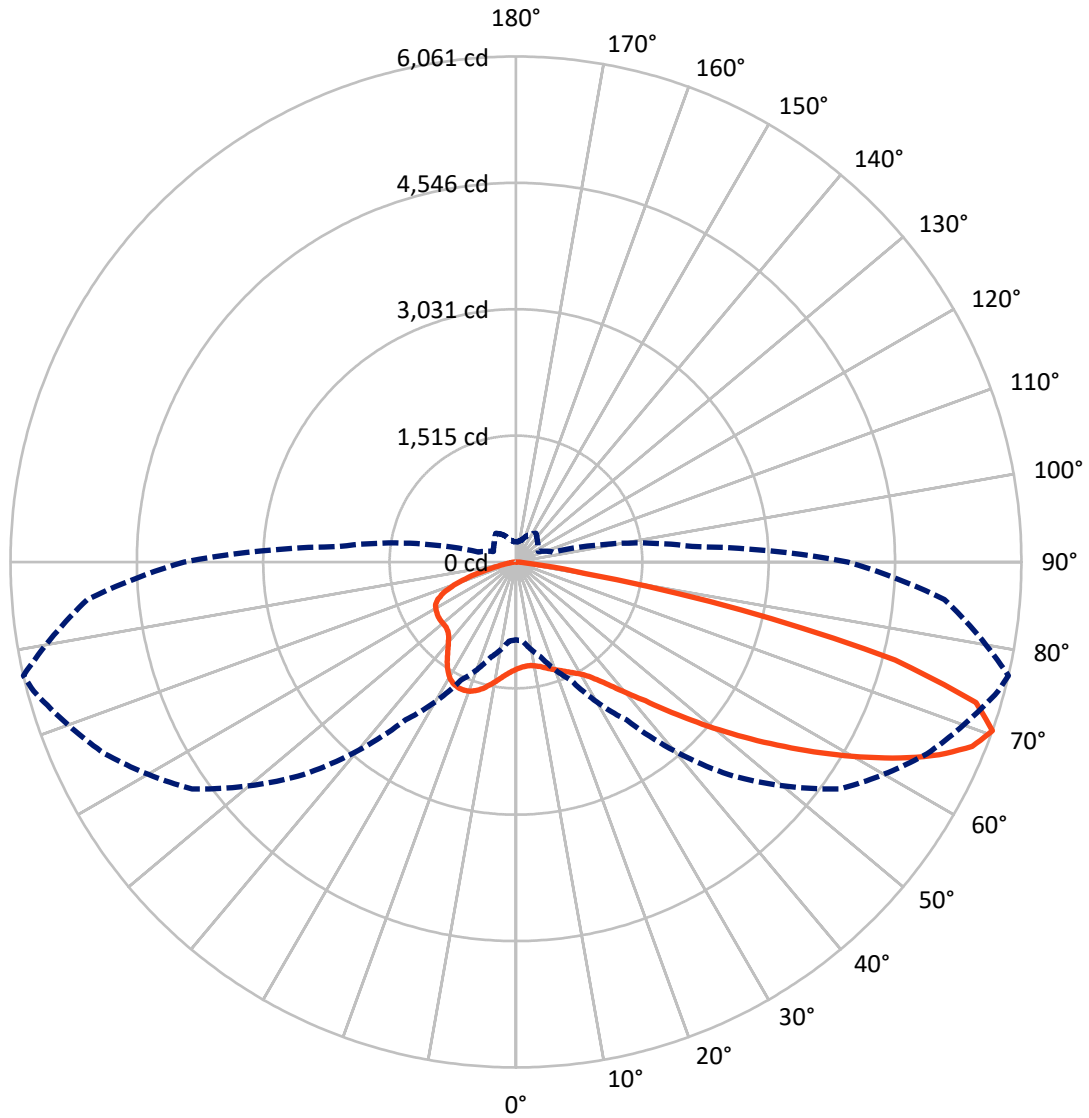
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type 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	2016.6	0.0	2016.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7192.4	0.0	7192.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	9209.0	0.0	9209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	1.3
10°-20°	353.6	3.8
20°-30°	604.8	6.6
30°-40°	972.5	10.6
40°-50°	1518.4	16.5
50°-60°	2028.2	22.0
60°-70°	2161.7	23.5
70°-80°	1330.7	14.5
80°-90°	116.6	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°	9209.0	100.0
0°-180°	9209.0	100.0

Coefficient of Utilization



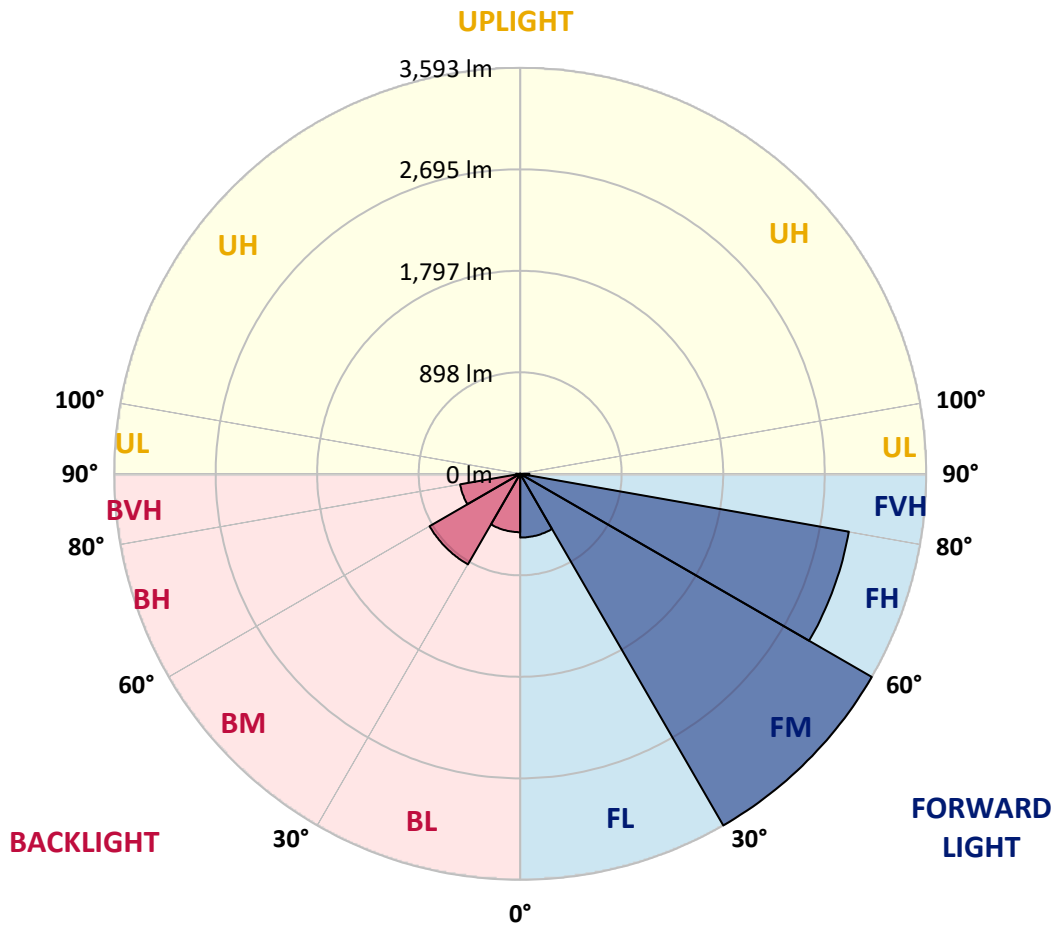
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.2	6.1			
FM (30°-60°)	3593.2	39.0			
FH (60°-80°)	2953.5	32.1			G2/5000
FVH (80°-90°)	81.5	0.9			G1/100
BL (0°-30°)	516.7	5.6	B2/1000		
BM (30°-60°)	925.9	10.1	B1/1000		
BH (60°-80°)	539.0	5.9	B2/1000		G2/1000
BVH (80°-90°)	35.1	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7
2.5°	1184.3	1183.8	1189.9	1191.8	1203.1	1211.2	1226.3	1242.3	1263.0	1265.4
5°	1115.9	1115.9	1123.0	1130.5	1145.1	1161.2	1184.3	1212.1	1248.0	1253.6
7.5°	1057.9	1061.7	1067.8	1082.4	1099.4	1122.5	1157.9	1197.5	1244.7	1253.6
10°	1011.2	1015.4	1023.0	1034.8	1060.2	1092.3	1138.5	1189.5	1252.7	1266.8
12.5°	996.6	1000.8	1005.1	1014.0	1037.6	1075.3	1130.5	1193.2	1272.0	1286.2
15°	1030.5	1035.7	1032.4	1030.1	1042.3	1076.7	1134.3	1206.9	1296.1	1316.3
17.5°	1108.8	1110.7	1103.2	1081.0	1079.1	1097.5	1152.2	1225.8	1326.2	1348.4
20°	1235.2	1231.9	1216.4	1172.5	1147.5	1143.7	1182.9	1254.1	1357.4	1381.0
22.5°	1406.9	1403.1	1372.0	1302.7	1247.0	1210.2	1227.2	1290.9	1392.3	1418.7
25°	1621.0	1615.8	1570.1	1475.8	1389.4	1298.4	1287.6	1339.4	1435.2	1459.7
27.5°	1871.0	1866.7	1817.2	1692.7	1568.2	1419.2	1362.6	1396.5	1480.0	1507.8
30°	2139.8	2152.1	2064.4	1930.4	1772.9	1576.7	1463.5	1466.8	1538.0	1563.0
32.5°	2455.8	2477.0	2371.4	2201.6	1986.5	1747.9	1590.8	1564.9	1622.4	1643.2
35°	2769.0	2793.0	2705.3	2517.6	2270.0	1949.7	1723.8	1677.6	1734.7	1757.3
37.5°	3039.7	3071.8	3026.5	2863.3	2573.3	2193.1	1897.4	1810.1	1872.9	1901.2
40°	3253.4	3302.4	3299.1	3197.2	2930.8	2488.4	2117.7	1973.8	2044.5	2075.2
42.5°	3426.9	3469.4	3506.2	3501.0	3303.8	2823.7	2376.6	2186.5	2240.3	2275.6
45°	3546.7	3592.0	3671.2	3756.6	3662.7	3182.6	2673.2	2438.8	2487.9	2541.2
47.5°	3653.8	3705.2	3808.0	3943.4	3967.4	3542.9	2998.2	2732.7	2777.5	2832.7
50°	3663.2	3707.5	3867.0	4058.9	4183.9	3889.1	3347.2	3062.3	3104.3	3163.3
52.5°	3435.4	3505.2	3783.5	4055.6	4283.4	4178.7	3693.9	3405.2	3452.4	3523.1
55°	2666.6	2769.0	3538.7	3929.2	4248.0	4365.9	4023.5	3769.8	3830.2	3904.2
57.5°	2296.9	2341.7	2809.1	3699.0	4086.7	4414.5	4301.8	4138.1	4235.3	4316.4
60°	2064.4	2101.6	2378.0	3341.1	3874.5	4337.6	4516.9	4481.5	4649.4	4746.1
62.5°	1815.3	1850.7	2102.1	2789.7	3602.8	4209.8	4652.7	4798.4	5073.9	5179.5
65°	1568.2	1598.4	1839.4	2344.0	3257.6	4082.0	4723.0	5072.5	5466.7	5576.2
67.5°	1292.8	1317.8	1545.6	1977.6	2837.8	3907.0	4757.9	5288.0	5808.7	5902.5
70°	932.9	952.2	1187.6	1563.9	2311.0	3606.1	4743.7	5440.8	5986.0	6061.0
72.5°	441.0	458.4	734.8	1015.4	1632.3	3020.4	4457.4	5319.6	5805.9	5768.6
75°	235.3	250.4	422.1	557.0	862.2	2070.5	3647.6	4582.4	4875.3	4694.2
77.5°	159.4	171.2	261.3	334.4	393.8	982.9	2344.5	3172.7	3052.4	2753.4
80°	126.4	138.7	214.1	226.4	190.5	355.1	968.7	1468.7	1055.1	843.8
82.5°	97.2	110.8	180.2	164.1	103.8	145.7	282.0	464.6	270.2	205.6
85°	59.4	74.0	141.5	104.7	58.5	66.5	95.7	129.2	82.5	68.9
87.5°	30.2	42.4	71.7	38.2	26.4	15.6	25.5	25.5	21.7	18.9
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°
1284.7	0°	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7
1278.1	2.5°	1289.5	1298.9	1314.9	1330.0	1341.8	1353.1	1364.4	1370.6	1372.5	1380.0
1285.2	5°	1304.5	1322.0	1353.1	1382.4	1400.8	1412.1	1420.1	1424.8	1425.8	1428.1
1304.5	7.5°	1332.4	1360.2	1403.6	1432.8	1446.5	1445.6	1442.3	1430.5	1425.8	1421.5
1332.8	10°	1371.5	1408.3	1461.6	1481.9	1473.4	1450.8	1421.5	1387.1	1371.0	1355.5
1371.5	12.5°	1420.1	1466.8	1519.1	1518.2	1476.2	1418.2	1350.3	1297.5	1264.0	1239.9
1419.2	15°	1479.1	1532.8	1572.9	1540.8	1448.9	1344.6	1245.1	1176.3	1146.1	1119.7
1467.3	17.5°	1539.9	1597.4	1615.8	1533.8	1380.0	1235.7	1123.0	1068.7	1039.0	1024.9
1519.1	20°	1599.3	1656.4	1641.3	1493.2	1275.3	1112.1	1011.7	981.9	975.8	979.1
1569.6	22.5°	1662.0	1713.0	1646.5	1414.9	1141.8	985.7	930.5	931.5	945.2	955.1
1622.4	25°	1726.2	1760.6	1632.8	1301.7	998.5	892.8	879.1	894.2	921.1	940.4
1681.9	27.5°	1788.0	1803.1	1603.1	1161.6	875.4	826.3	828.7	859.8	900.4	927.2
1754.0	30°	1857.8	1840.8	1546.0	1004.1	790.0	769.2	789.0	825.4	865.9	890.0
1845.0	32.5°	1936.5	1873.3	1455.5	858.4	729.6	723.5	756.0	779.6	797.5	804.6
1965.8	35°	2034.6	1919.1	1339.4	756.0	675.4	690.0	721.1	709.3	702.3	698.5
2128.0	37.5°	2162.0	1980.9	1203.6	689.5	631.5	666.0	678.7	641.9	614.1	600.4
2324.7	40°	2315.3	2071.4	1073.0	638.1	603.7	645.2	623.0	578.7	543.3	524.0
2545.9	42.5°	2485.5	2166.2	963.1	599.5	588.1	628.2	582.0	529.2	472.1	466.0
2809.5	45°	2664.3	2263.9	888.1	569.7	580.6	613.6	558.4	473.1	432.5	457.5
3074.1	47.5°	2843.0	2353.5	842.8	547.6	576.8	597.1	537.7	441.9	413.2	449.5
3357.6	50°	3042.1	2433.6	822.5	531.5	572.6	590.5	506.5	433.9	392.9	416.9
3650.9	52.5°	3239.7	2495.9	807.4	515.5	566.4	585.3	491.4	424.5	368.3	369.8
3946.2	55°	3436.8	2536.5	790.9	494.3	552.8	574.0	490.0	414.1	350.0	343.4
4258.4	57.5°	3647.2	2559.6	770.7	470.7	529.2	545.2	488.6	406.1	344.3	333.4
4577.7	60°	3861.3	2593.5	744.2	441.9	497.6	510.8	485.3	403.2	341.0	322.6
4878.6	62.5°	4053.2	2605.3	712.6	414.6	457.0	476.8	478.2	400.9	332.0	300.4
5128.6	65°	4179.2	2554.4	657.5	383.4	413.2	441.9	464.6	392.9	316.0	284.4
5252.2	67.5°	4174.0	2409.1	571.2	343.4	370.7	403.2	444.8	379.2	296.7	264.6
5158.8	70°	3979.7	2122.4	461.7	296.7	324.0	361.7	419.3	358.9	273.5	242.9
4587.1	72.5°	3413.2	1661.1	335.3	241.9	269.8	318.8	386.3	334.4	250.0	223.6
3390.1	75°	2438.4	1051.3	227.3	185.8	209.9	270.2	345.2	305.6	228.3	224.5
1697.9	77.5°	1245.6	502.3	150.5	135.8	146.2	213.2	290.1	273.1	231.6	185.4
483.0	80°	405.1	185.4	94.8	92.4	97.2	142.0	224.5	224.0	175.4	125.9
117.0	82.5°	129.2	79.7	61.8	59.4	57.1	89.1	156.6	177.3	118.4	79.7
42.0	85°	51.4	47.6	36.3	33.5	24.1	42.0	82.1	117.9	88.2	57.5
10.8	87.5°	18.9	18.9	9.9	7.1	5.2	14.1	22.2	35.4	50.5	29.7
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>
1284.7
1384.3
1431.9
1422.5
1350.8
1234.3
1116.8
1029.1
977.7
957.4
945.6
933.8
895.6
808.4
702.3
603.7
525.4
472.1
470.7
466.4
434.8
379.7
348.1
334.9
324.0
300.4
284.4
266.0
245.7
222.1
211.8
165.1
111.3
79.2
59.0
29.2
0.0

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