

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: P939085

Luminaire Tested: **GALN-SB1C-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939085
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-SB1C-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7423 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

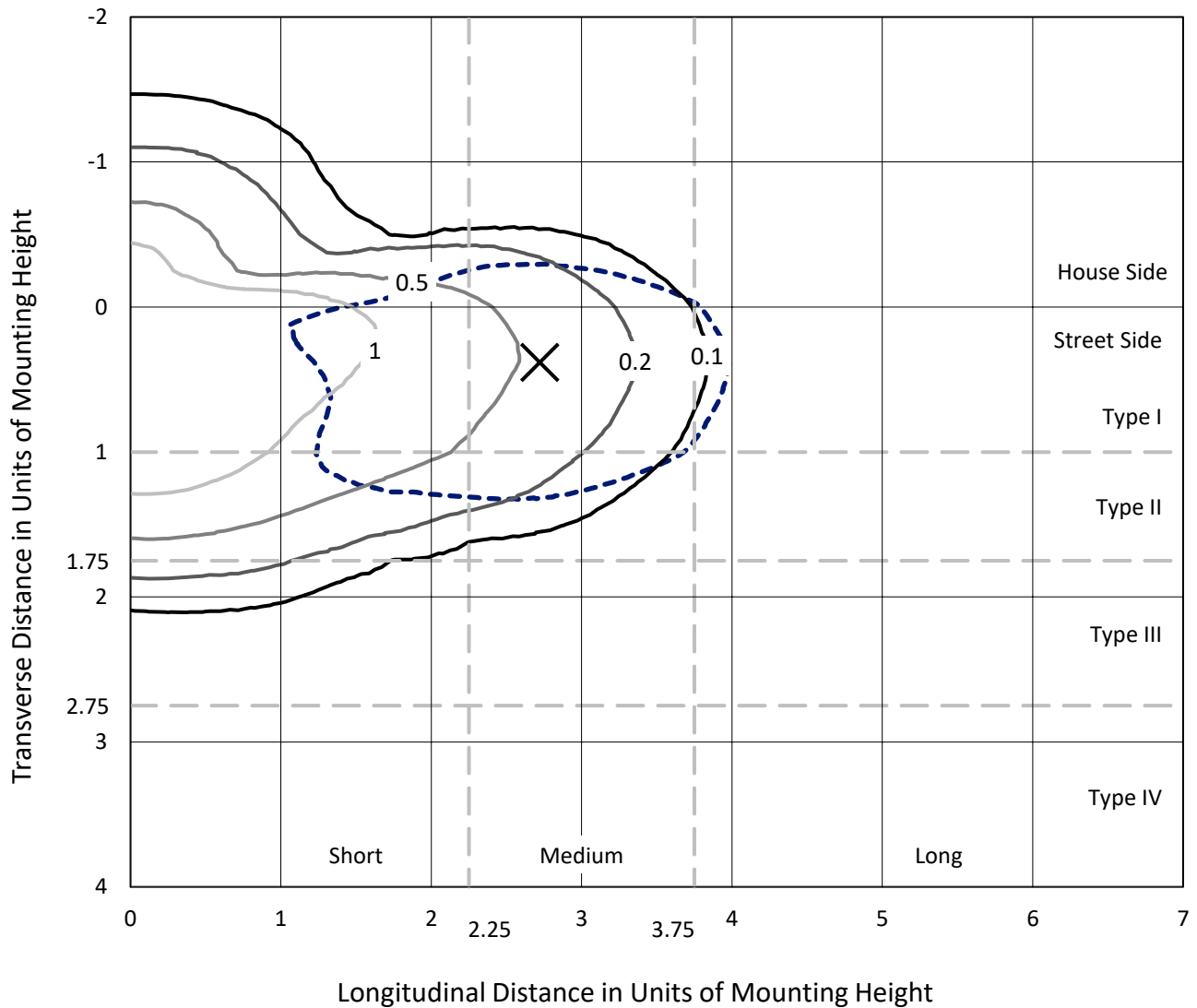
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

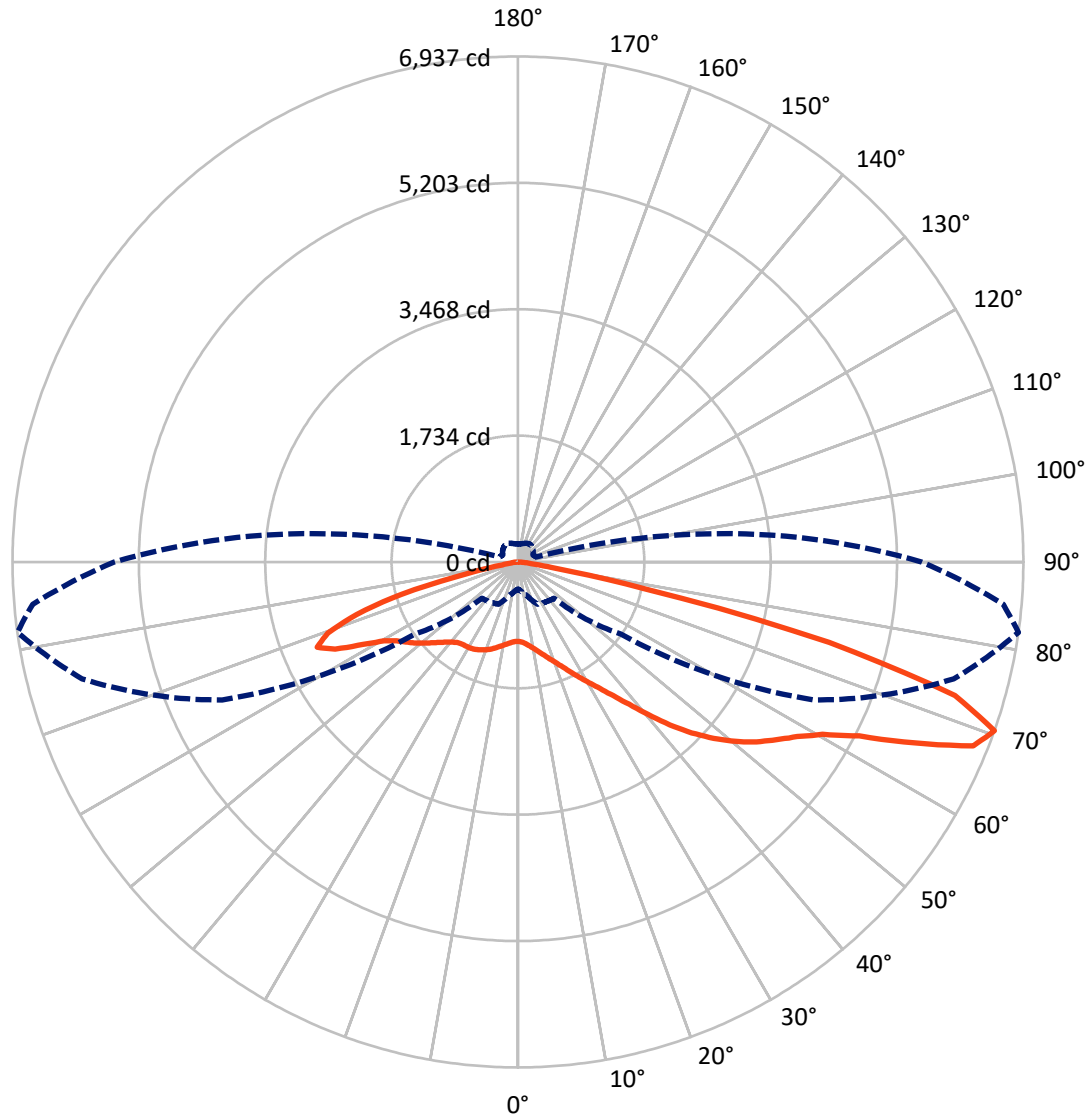
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	1830.0	0.0	1830.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	5593.1	0.0	5593.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	7423.0	0.0	7423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	1.4
10°-20°	295.2	4.0
20°-30°	493.9	6.7
30°-40°	771.6	10.4
40°-50°	1228.8	16.6
50°-60°	1710.0	23.0
60°-70°	1788.8	24.1
70°-80°	934.9	12.6
80°-90°	97.1	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°	7423.0	100.0
0°-180°	7423.0	100.0

Coefficient of Utilization



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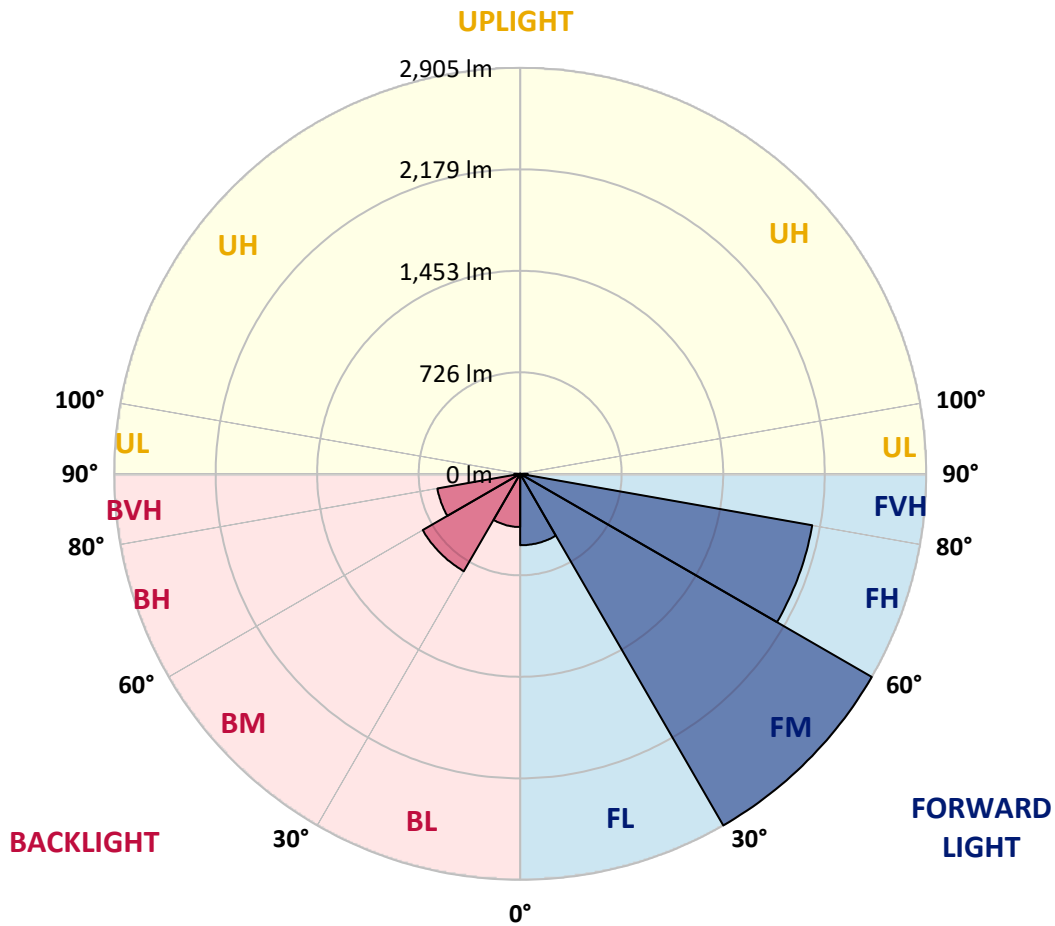
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.2	6.9			
FM (30°-60°)	2905.3	39.1			
FH (60°-80°)	2122.3	28.6			G2/5000
FVH (80°-90°)	54.3	0.7			G1/100
BL (0°-30°)	380.7	5.1	B1/500		
BM (30°-60°)	805.1	10.8	B1/1000		
BH (60°-80°)	601.4	8.1	B2/1000		G2/1000
BVH (80°-90°)	42.7	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°	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3
2.5°	1114.3	1120.6	1118.6	1116.7	1116.7	1113.9	1113.5	1109.6	1106.4	1101.3
5°	1128.5	1135.2	1134.4	1136.0	1141.1	1142.3	1143.4	1141.1	1134.8	1128.5
7.5°	1115.9	1123.4	1125.7	1135.2	1150.9	1165.1	1175.7	1180.1	1174.2	1165.1
10°	1073.3	1081.6	1089.9	1112.3	1140.3	1173.8	1202.1	1219.1	1217.9	1209.2
12.5°	987.1	995.7	1013.5	1057.2	1108.4	1167.5	1220.3	1255.7	1267.9	1261.6
15°	918.1	925.6	939.0	983.9	1050.5	1140.3	1227.0	1295.9	1327.0	1323.5
17.5°	916.2	919.3	927.6	948.9	1000.1	1097.8	1219.9	1335.3	1394.7	1394.4
20°	950.8	952.0	956.7	961.1	990.2	1065.5	1201.7	1368.0	1470.8	1470.8
22.5°	998.9	998.1	1002.8	998.9	1013.1	1062.7	1190.3	1396.7	1555.5	1561.8
25°	1071.0	1067.0	1065.9	1056.8	1059.6	1088.3	1202.9	1429.4	1655.9	1668.9
27.5°	1167.1	1160.8	1156.4	1135.6	1128.5	1141.1	1241.5	1468.8	1767.8	1790.2
30°	1292.3	1280.9	1274.6	1238.4	1212.8	1214.7	1299.8	1521.2	1884.7	1921.0
32.5°	1463.3	1445.6	1428.6	1369.1	1322.3	1306.9	1375.1	1593.7	2011.6	2069.5
35°	1654.7	1640.5	1622.4	1530.6	1458.6	1423.1	1476.7	1694.9	2160.1	2251.8
37.5°	1839.0	1826.8	1835.5	1711.8	1618.9	1567.3	1609.8	1830.8	2343.2	2478.7
40°	2029.7	2020.2	2021.4	1903.3	1794.9	1737.0	1771.3	2001.3	2553.2	2748.5
42.5°	2236.9	2229.8	2206.2	2101.4	1979.7	1925.7	1957.2	2198.3	2778.5	3055.8
45°	2468.9	2464.5	2442.5	2322.3	2182.9	2122.3	2164.8	2415.7	3004.9	3344.9
47.5°	2669.4	2672.9	2670.1	2568.9	2424.4	2335.3	2386.2	2642.6	3215.7	3616.7
50°	2765.9	2784.4	2811.6	2780.0	2690.2	2599.6	2609.5	2861.6	3416.6	3871.5
52.5°	2715.4	2750.5	2824.6	2875.0	2909.6	2890.7	2864.3	3079.0	3605.6	4101.5
55°	2527.6	2576.8	2699.7	2821.4	2998.3	3135.7	3170.4	3320.1	3790.0	4304.0
57.5°	2185.3	2265.2	2375.5	2621.7	2919.5	3254.3	3527.2	3654.5	3985.3	4520.2
60°	1598.4	1705.5	1842.6	2208.9	2643.8	3190.9	3830.9	4168.1	4263.0	4800.3
62.5°	1022.9	1089.1	1215.1	1560.2	2060.0	2865.9	3923.9	4810.1	4733.7	5259.5
65°	700.3	742.9	858.3	1052.1	1331.7	2133.3	3674.9	5291.5	5481.3	5987.4
67.5°	508.9	541.2	639.7	809.4	867.7	1262.4	2851.7	5269.4	6208.0	6737.4
70°	371.0	393.9	476.6	639.7	667.6	702.3	1727.6	4479.3	6192.3	6936.7
72.5°	274.9	290.7	346.2	496.3	540.4	474.2	855.1	3255.5	5321.0	6274.2
75°	198.9	210.7	251.7	379.7	432.5	361.2	426.6	1902.5	3711.6	4413.5
77.5°	152.0	161.1	187.9	278.1	346.2	271.0	264.7	875.2	1759.9	1768.5
80°	122.1	128.0	142.6	195.8	265.5	202.9	172.5	353.3	556.2	470.7
82.5°	89.8	99.7	120.5	137.5	189.9	139.8	105.2	178.4	211.5	182.0
85°	51.2	57.9	72.9	98.5	121.3	85.5	60.3	79.2	98.5	80.7
87.5°	18.1	23.6	25.6	38.6	52.8	35.4	23.2	22.8	32.3	24.0
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°
1088.3	0°	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3	1088.3
1100.1	2.5°	1096.2	1094.2	1086.3	1075.7	1064.7	1054.0	1050.5	1043.0	1037.9	1035.1
1125.7	5°	1118.2	1111.9	1093.4	1069.8	1045.0	1018.2	999.3	982.0	969.4	957.5
1160.8	7.5°	1149.8	1138.7	1106.8	1065.5	1021.3	976.8	943.7	918.5	901.6	890.6
1201.7	10°	1186.4	1169.4	1120.6	1058.8	990.6	926.8	887.8	866.2	855.5	849.6
1248.6	12.5°	1228.5	1204.5	1134.8	1043.4	943.7	870.9	844.1	837.8	838.2	838.6
1307.7	15°	1280.5	1247.0	1146.2	1009.9	882.7	827.9	823.2	833.5	844.1	849.2
1374.7	17.5°	1339.2	1291.9	1148.2	954.8	822.8	800.4	815.3	837.4	853.5	860.6
1449.5	20°	1402.2	1337.6	1134.0	876.8	773.6	777.9	804.7	833.1	850.8	859.9
1535.0	22.5°	1474.3	1386.5	1100.1	794.9	733.4	753.5	785.0	812.6	831.1	840.2
1635.4	25°	1556.6	1441.2	1046.9	725.9	698.8	725.9	757.4	780.3	795.3	803.5
1747.7	27.5°	1648.0	1498.3	976.0	671.2	668.4	697.6	723.6	741.3	749.2	755.5
1867.0	30°	1739.8	1550.3	890.2	629.8	642.0	669.6	688.1	696.0	698.4	699.5
2000.1	32.5°	1839.0	1595.2	800.0	595.6	616.8	642.4	653.5	657.0	646.0	638.5
2161.6	35°	1959.2	1643.3	711.8	568.4	592.0	614.1	617.6	614.5	601.5	586.1
2364.1	37.5°	2107.7	1703.2	641.2	549.1	568.8	583.3	579.0	578.2	579.4	561.3
2607.5	40°	2289.7	1781.1	589.6	534.1	549.9	553.0	540.8	547.5	553.4	525.8
2874.6	42.5°	2491.7	1875.3	557.0	523.9	534.1	526.6	507.7	515.2	514.4	478.2
3142.8	45°	2697.7	1977.7	545.5	516.4	519.5	504.6	483.7	485.7	469.1	436.4
3400.0	47.5°	2902.5	2087.6	552.6	510.1	501.4	484.5	468.3	459.7	435.2	410.8
3646.6	50°	3103.4	2203.0	578.6	497.5	476.6	466.8	454.9	439.6	413.6	392.7
3879.8	52.5°	3289.7	2319.2	607.8	476.6	445.5	451.4	443.9	426.2	400.6	379.3
4100.3	55°	3466.2	2435.4	619.2	447.8	416.3	438.0	433.7	401.0	370.3	352.9
4331.2	57.5°	3658.4	2575.2	606.6	411.2	392.7	422.6	406.1	369.9	352.1	339.1
4631.7	60°	3924.7	2794.6	579.4	365.9	370.3	399.8	371.4	356.5	337.2	322.6
5082.3	62.5°	4367.0	3203.9	535.7	321.0	343.9	365.9	354.9	339.9	320.2	306.0
5852.7	65°	5020.9	3772.6	453.4	286.0	314.3	332.8	337.2	322.2	301.7	286.7
6527.9	67.5°	5572.3	4129.5	343.1	256.8	284.0	306.0	318.3	303.7	282.0	267.4
6685.8	70°	5542.0	3870.3	261.9	228.1	257.2	279.7	295.4	284.0	260.8	247.0
6072.9	72.5°	4922.4	3237.7	211.9	198.9	230.0	252.1	271.0	262.3	238.7	225.3
4448.9	75°	3616.3	2298.3	169.4	169.4	196.2	223.3	244.2	238.7	217.0	207.6
1867.8	77.5°	1524.3	964.2	132.7	140.6	163.1	191.8	217.8	219.8	200.9	212.7
493.9	80°	405.3	265.9	101.2	110.7	128.0	158.3	189.5	188.7	168.2	157.2
183.6	82.5°	154.4	104.8	72.1	78.0	92.6	121.3	150.1	154.8	134.3	116.2
72.1	85°	59.5	44.9	44.5	46.9	54.0	80.4	113.4	117.4	101.2	85.9
20.1	87.5°	15.4	13.4	16.5	15.8	24.8	42.9	65.0	67.4	61.8	35.8
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

180°
1088.3
1038.3
962.3
892.9
851.2
839.4
848.8
862.2
862.2
842.5
805.9
757.8
702.3
640.9
586.9
562.5
526.6
477.8
437.6
410.8
391.1
379.7
351.3
338.0
321.8
306.0
287.5
267.8
248.1
225.3
204.8
193.0
146.1
116.2
88.6
51.2
0.0

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