

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: P945306

Luminaire Tested: **GALN-SB1B-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-750-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6070 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

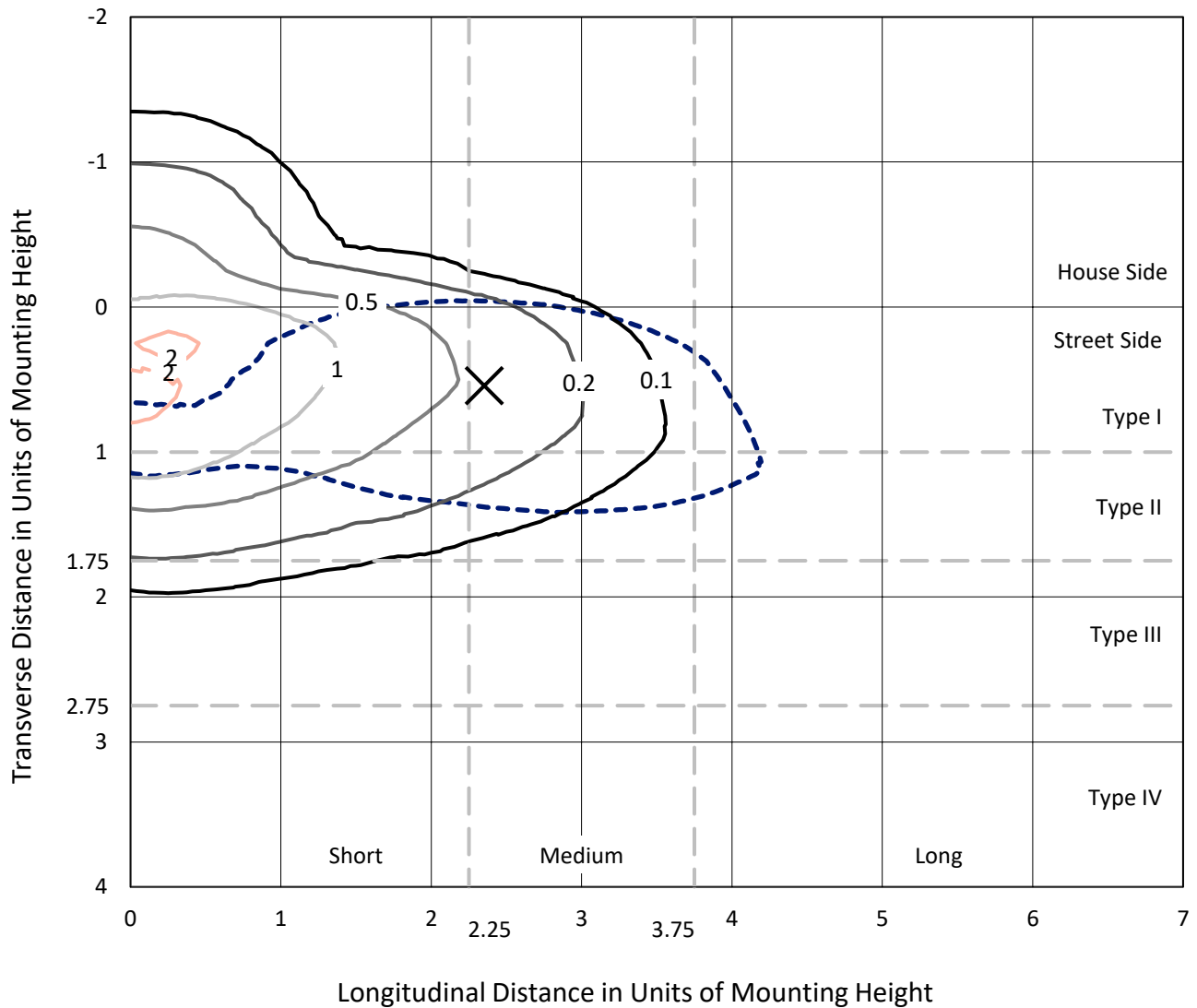
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

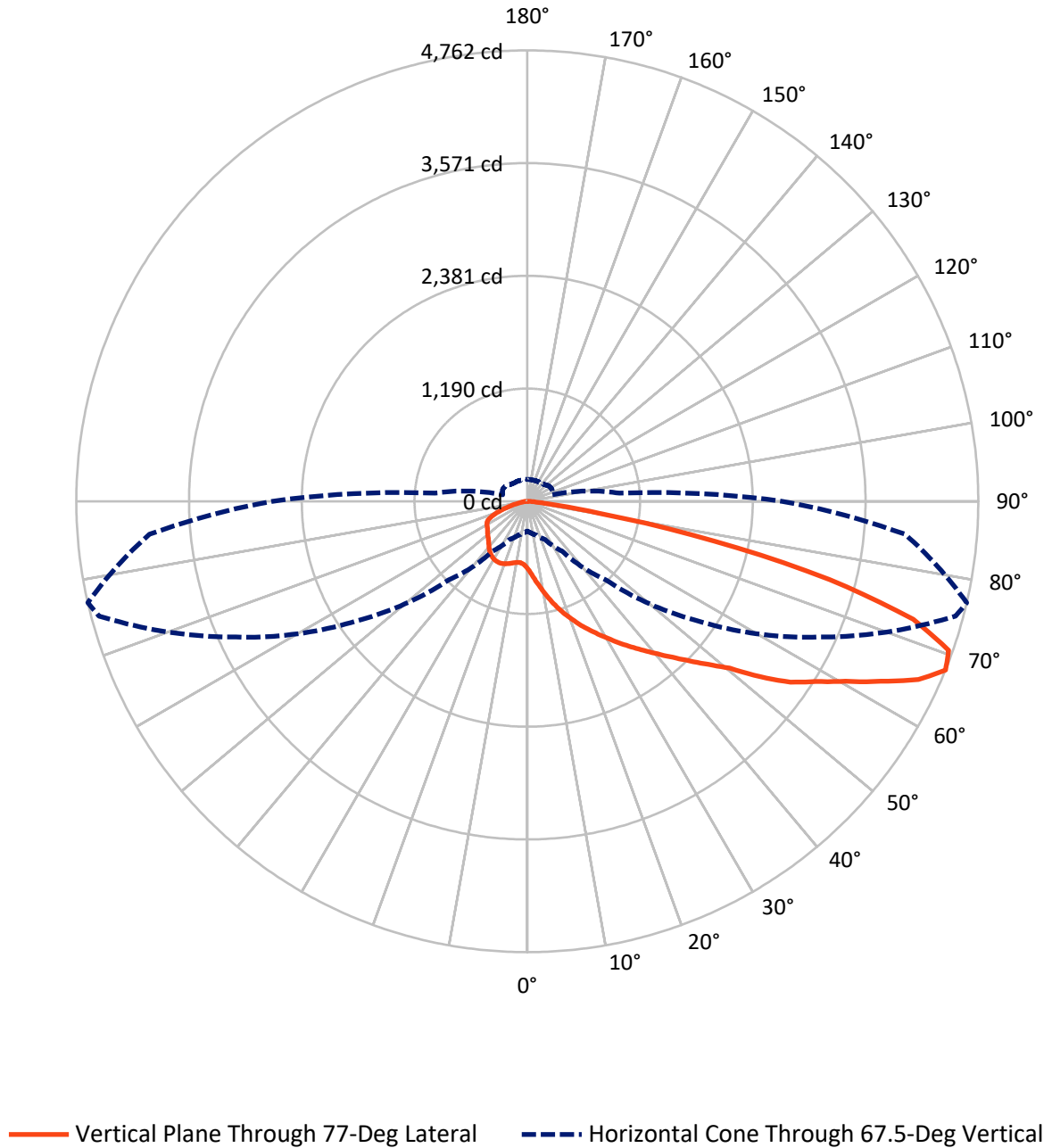
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1148.2	0.0	1148.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	4921.8	0.0	4921.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	6070.0	0.0	6070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.3
10°-20°	274.3	4.5
20°-30°	517.8	8.5
30°-40°	834.2	13.7
40°-50°	1141.0	18.8
50°-60°	1287.1	21.2
60°-70°	1201.3	19.8
70°-80°	658.5	10.8
80°-90°	79.4	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°	6070.0	100.0
0°-180°	6070.0	100.0

Coefficient of Utilization

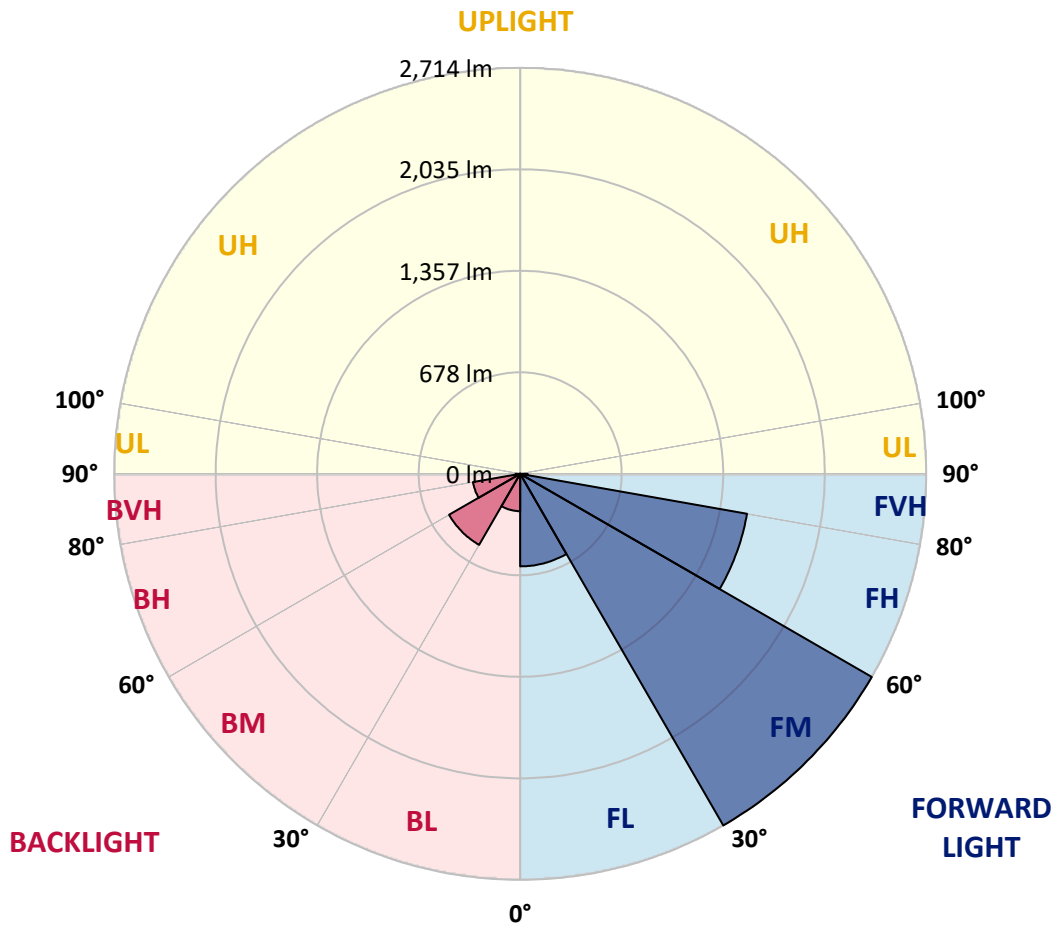


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	618.8	10.2			
FM (30°-60°)	2713.8	44.7			
FH (60°-80°)	1539.5	25.4			G1/1800
FVH (80°-90°)	49.7	0.8			G1/100
BL (0°-30°)	249.6	4.1	B1/500		
BM (30°-60°)	548.5	9.0	B1/1000		
BH (60°-80°)	320.3	5.3	B1/500		G1/500
BVH (80°-90°)	29.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	712.2	712.2	712.2	712.2	712.2	712.2	712.2	712.2	712.2	712.2
2.5°	891.7	898.0	890.2	890.2	863.9	850.1	823.7	803.7	767.7	761.4
5°	1054.0	1061.9	1050.9	1046.2	1015.2	986.7	942.5	898.9	834.7	828.1
7.5°	1179.7	1189.7	1180.0	1175.0	1147.4	1115.5	1063.8	1003.0	912.4	899.6
10°	1282.1	1283.7	1280.6	1282.5	1260.8	1234.5	1181.6	1110.8	997.6	980.1
12.5°	1340.1	1347.3	1353.6	1364.9	1361.1	1344.8	1297.2	1212.6	1087.9	1065.3
15°	1367.4	1379.9	1394.0	1420.0	1441.0	1445.1	1408.7	1321.9	1179.7	1152.4
17.5°	1377.1	1389.0	1411.2	1448.8	1494.0	1524.4	1508.1	1428.2	1270.6	1239.2
20°	1426.3	1429.7	1443.2	1478.9	1527.8	1578.2	1590.5	1530.3	1360.5	1325.1
22.5°	1531.6	1524.7	1528.4	1544.7	1579.8	1628.7	1656.6	1620.5	1452.9	1412.2
25°	1705.5	1685.4	1665.4	1646.6	1664.4	1692.0	1723.6	1710.8	1549.7	1498.0
27.5°	1925.1	1900.7	1856.5	1794.8	1773.1	1782.8	1796.9	1794.4	1639.3	1587.0
30°	2141.3	2112.8	2060.1	1970.8	1913.8	1888.1	1877.5	1870.3	1736.8	1681.0
32.5°	2313.9	2291.4	2239.7	2139.7	2057.0	2013.1	1977.7	1952.0	1838.6	1782.8
35°	2465.0	2444.0	2384.8	2275.7	2185.8	2139.1	2092.7	2037.9	1944.5	1888.1
37.5°	2602.8	2581.8	2500.7	2387.3	2296.7	2264.4	2223.1	2130.0	2050.7	1997.5
40°	2689.9	2685.2	2609.4	2480.9	2386.9	2371.0	2357.2	2236.9	2168.6	2119.1
42.5°	2712.2	2722.5	2662.4	2556.8	2467.2	2454.3	2486.6	2357.8	2300.8	2253.5
45°	2658.6	2688.4	2648.9	2577.1	2524.2	2517.3	2601.3	2490.0	2447.1	2403.9
47.5°	2522.9	2573.4	2557.1	2547.1	2539.5	2569.3	2702.2	2630.4	2612.9	2575.3
50°	2249.1	2344.6	2373.2	2436.5	2509.1	2609.7	2794.0	2783.6	2806.5	2768.6
52.5°	1775.6	1907.2	2072.7	2231.2	2415.8	2596.3	2894.9	3003.6	3100.1	3079.4
55°	1465.8	1525.0	1652.2	1943.0	2234.7	2539.5	2940.3	3181.2	3391.5	3373.0
57.5°	1227.6	1280.6	1358.9	1601.7	1960.8	2410.8	2968.5	3289.7	3591.1	3589.2
60°	972.3	1028.3	1108.6	1280.6	1640.9	2188.3	2962.2	3413.1	3845.8	3861.5
62.5°	684.0	745.7	834.7	995.1	1314.1	1900.0	2834.4	3502.4	4145.7	4188.3
65°	449.6	490.4	557.4	695.9	979.2	1529.4	2590.3	3514.0	4466.5	4538.6
67.5°	315.2	330.9	370.4	445.6	645.5	1172.8	2201.5	3394.0	4680.5	4761.7
70°	246.0	253.8	273.9	303.9	405.4	788.7	1687.0	3081.9	4634.8	4719.4
72.5°	212.4	220.0	227.5	231.2	272.0	486.9	1142.7	2576.8	4204.0	4261.3
75°	192.7	194.6	200.8	199.6	207.4	315.8	659.6	1877.5	3316.9	3297.2
77.5°	162.0	164.5	174.8	173.3	184.2	215.9	342.5	1211.6	2150.4	2016.3
80°	137.2	138.5	149.8	147.9	160.1	156.4	174.8	617.6	912.1	772.7
82.5°	47.6	58.9	114.4	117.8	122.2	94.6	100.9	251.9	278.6	213.4
85°	23.2	24.8	58.3	82.7	82.4	47.6	49.2	89.9	87.7	68.9
87.5°	3.8	4.7	6.9	32.3	25.7	12.5	16.9	17.5	18.2	15.7
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°
712.2	0°	712.2	712.2	712.2	712.2	712.2	712.2	712.2	712.2	712.2	712.2
737.6	2.5°	720.0	704.4	671.5	641.1	617.3	594.4	581.5	570.6	564.3	563.1
772.0	5°	739.5	707.2	647.3	596.9	564.0	539.6	526.7	518.6	514.5	512.0
818.4	7.5°	767.3	720.0	634.8	577.5	543.0	525.5	518.9	517.6	517.3	517.6
874.5	10°	805.9	741.0	633.6	572.8	543.9	534.2	533.9	534.2	535.5	535.8
935.6	12.5°	847.6	762.6	638.6	576.8	555.8	550.5	549.6	549.3	550.2	550.8
997.3	15°	893.0	791.2	647.0	585.6	569.0	563.4	562.4	560.5	560.2	559.9
1062.2	17.5°	939.7	819.4	656.4	595.0	577.5	569.6	566.2	561.8	558.4	557.4
1129.2	20°	987.0	847.2	663.0	599.7	578.1	567.1	560.2	552.7	546.8	543.3
1196.9	22.5°	1037.4	876.4	667.1	598.5	572.5	557.4	544.9	536.1	527.0	521.1
1265.2	25°	1086.6	901.8	666.8	591.9	561.5	542.4	526.4	515.1	502.6	496.3
1335.7	27.5°	1133.9	924.6	658.9	580.3	545.8	524.5	505.4	491.9	479.7	473.8
1406.9	30°	1182.8	943.8	646.7	563.4	527.3	503.8	482.8	471.2	460.3	454.6
1482.1	32.5°	1231.4	961.3	629.5	542.4	506.0	483.5	462.8	452.1	445.6	445.6
1562.9	35°	1282.8	973.5	606.6	517.9	483.5	461.8	445.6	439.3	438.7	434.9
1648.4	37.5°	1337.0	981.4	578.7	492.9	461.2	440.9	435.8	428.3	422.1	413.9
1742.4	40°	1394.0	989.2	545.2	466.9	437.7	426.4	424.2	414.2	396.4	376.3
1849.0	42.5°	1463.3	994.5	510.4	440.9	413.0	409.2	412.3	395.1	366.6	351.6
1977.4	45°	1543.5	1003.3	478.5	415.2	387.6	387.6	400.7	378.2	354.7	345.3
2124.1	47.5°	1647.5	1023.6	448.7	387.0	364.1	370.4	375.1	357.8	344.7	333.1
2302.7	50°	1797.9	1072.5	418.0	358.4	346.2	358.8	352.2	342.2	326.8	317.4
2586.5	52.5°	1984.6	1101.4	390.7	332.8	330.9	343.4	334.0	324.6	313.0	300.5
2801.8	55°	2111.8	1106.7	367.8	314.0	320.5	319.3	315.8	307.4	301.1	284.5
3014.2	57.5°	2254.1	1117.3	349.0	302.7	314.0	300.2	298.9	291.7	283.6	272.3
3273.4	60°	2424.2	1133.9	332.8	298.3	308.3	287.6	281.4	278.6	270.4	264.8
3585.1	62.5°	2609.7	1149.0	316.2	298.9	301.7	275.4	266.0	265.1	260.1	258.2
3877.8	65°	2736.3	1107.9	295.5	298.3	291.4	262.9	251.0	250.7	246.6	246.0
4004.7	67.5°	2692.1	977.9	267.6	289.5	280.7	250.4	237.2	235.9	230.6	230.9
3872.1	70°	2470.9	792.4	229.0	267.9	267.6	239.1	222.8	218.7	211.5	212.8
3366.7	72.5°	2056.1	587.2	177.3	231.9	246.6	228.7	206.2	199.6	190.5	191.8
2485.3	75°	1484.9	399.2	129.1	176.4	214.6	216.5	189.9	178.6	167.6	169.5
1383.4	77.5°	759.8	226.2	94.9	121.6	168.6	196.8	175.2	160.1	157.6	175.2
398.9	80°	247.8	113.4	65.8	85.2	110.6	161.1	153.5	136.3	135.7	139.7
83.7	82.5°	73.9	47.9	42.3	56.1	61.1	123.5	132.5	103.1	88.7	93.4
27.9	85°	25.4	23.2	24.1	27.9	29.1	72.4	92.7	68.3	64.5	71.1
6.3	87.5°	6.0	8.1	6.9	6.3	6.3	17.5	36.0	28.5	39.5	26.3
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°
712.2
563.1
511.7
518.6
536.1
551.1
559.6
558.4
544.6
521.4
496.3
473.4
454.3
445.9
434.0
412.7
373.5
351.9
346.9
332.8
316.5
298.0
284.8
268.5
266.3
258.2
245.7
230.9
214.0
191.4
170.1
172.6
120.0
96.5
70.2
25.4
0.0

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