

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: P946377

Luminaire Tested: **GALN-SB2A-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946377
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-SB2A-750-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9667 lumens
Efficiency: N/A
Efficacy: 168.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

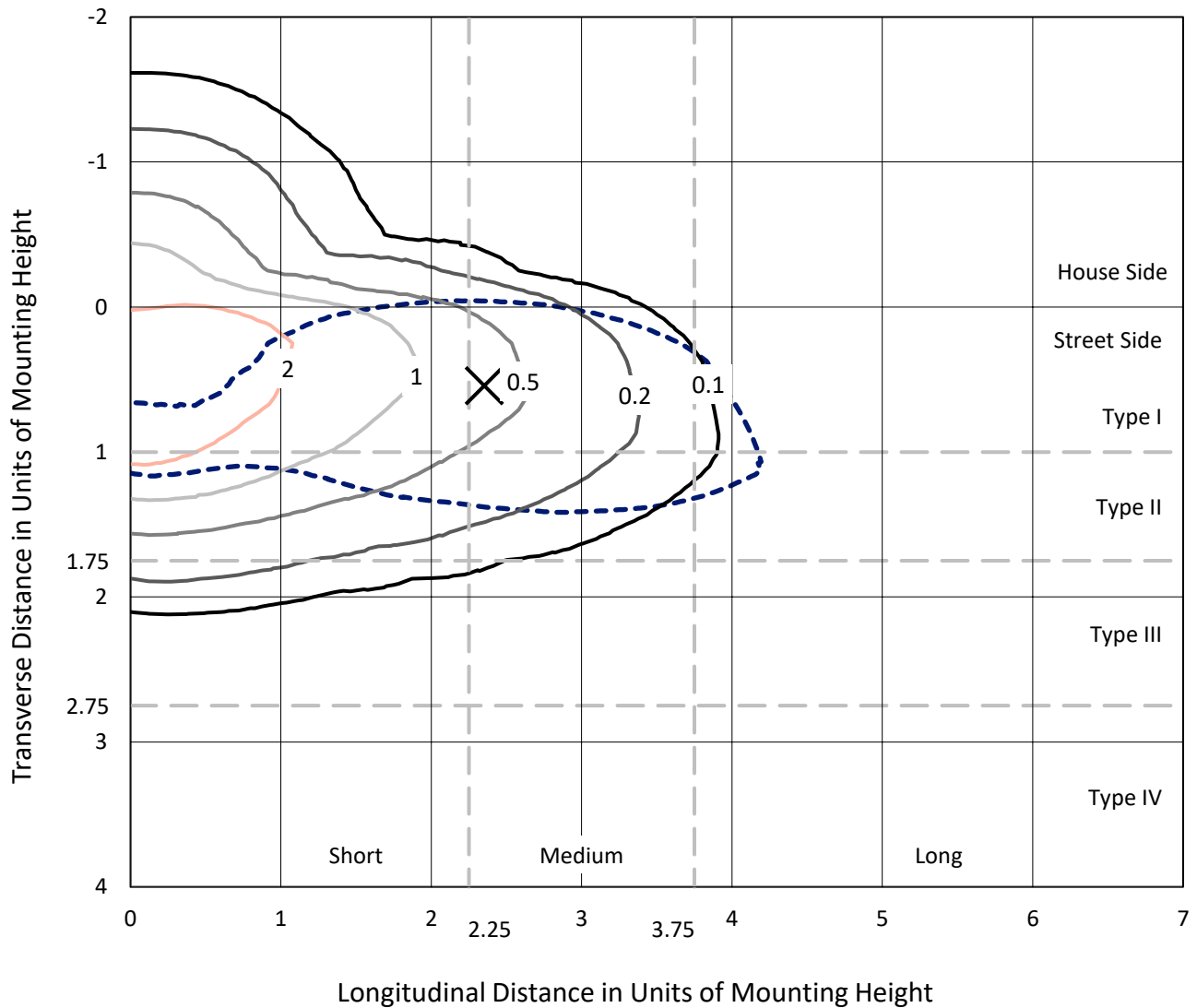
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

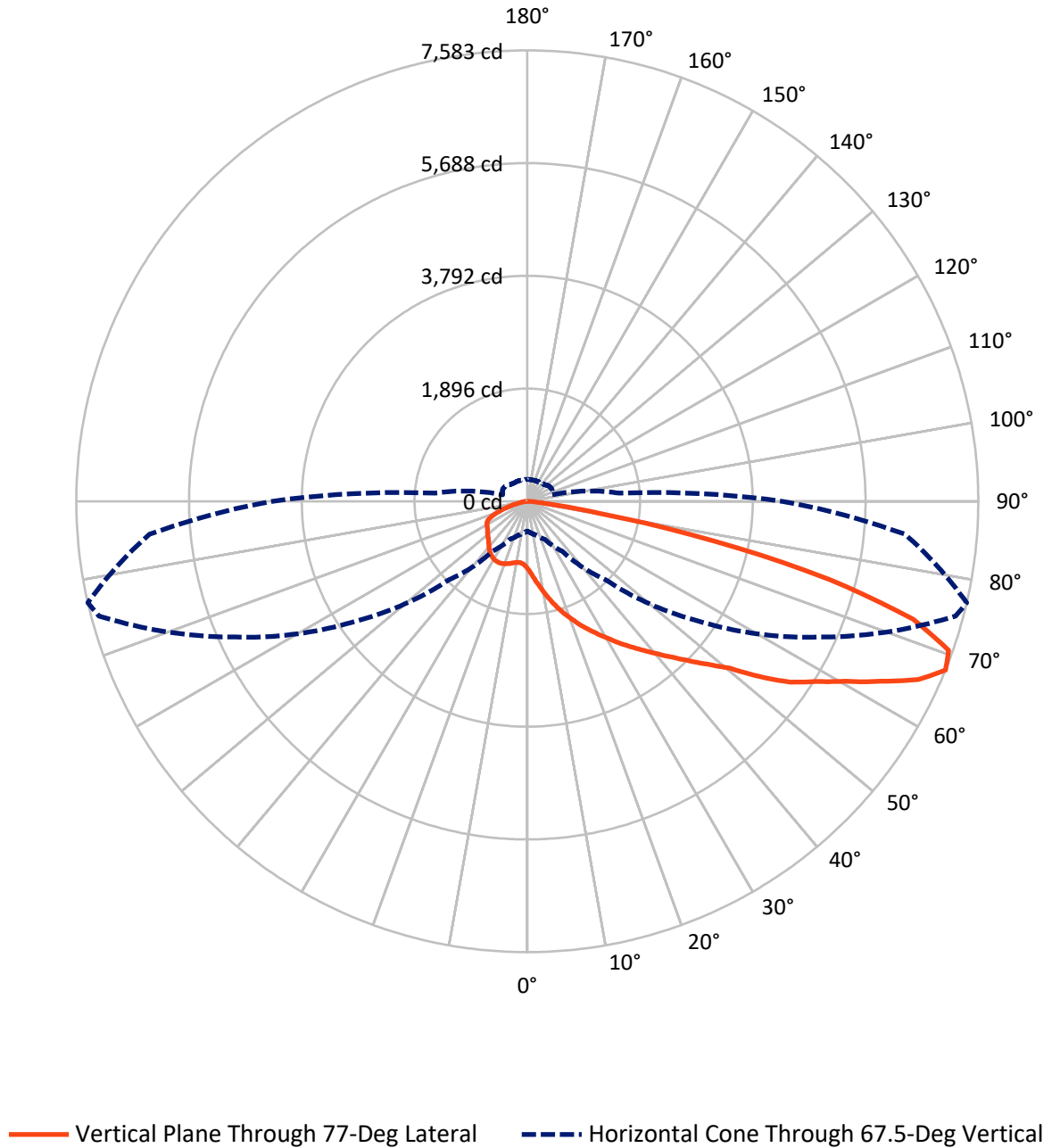
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1828.6	0.0	1828.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	7838.4	0.0	7838.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	9667.0	0.0	9667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	1.3
10°-20°	436.8	4.5
20°-30°	824.7	8.5
30°-40°	1328.5	13.7
40°-50°	1817.2	18.8
50°-60°	2049.8	21.2
60°-70°	1913.2	19.8
70°-80°	1048.8	10.8
80°-90°	126.5	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°	9667.0	100.0
0°-180°	9667.0	100.0

Coefficient of Utilization



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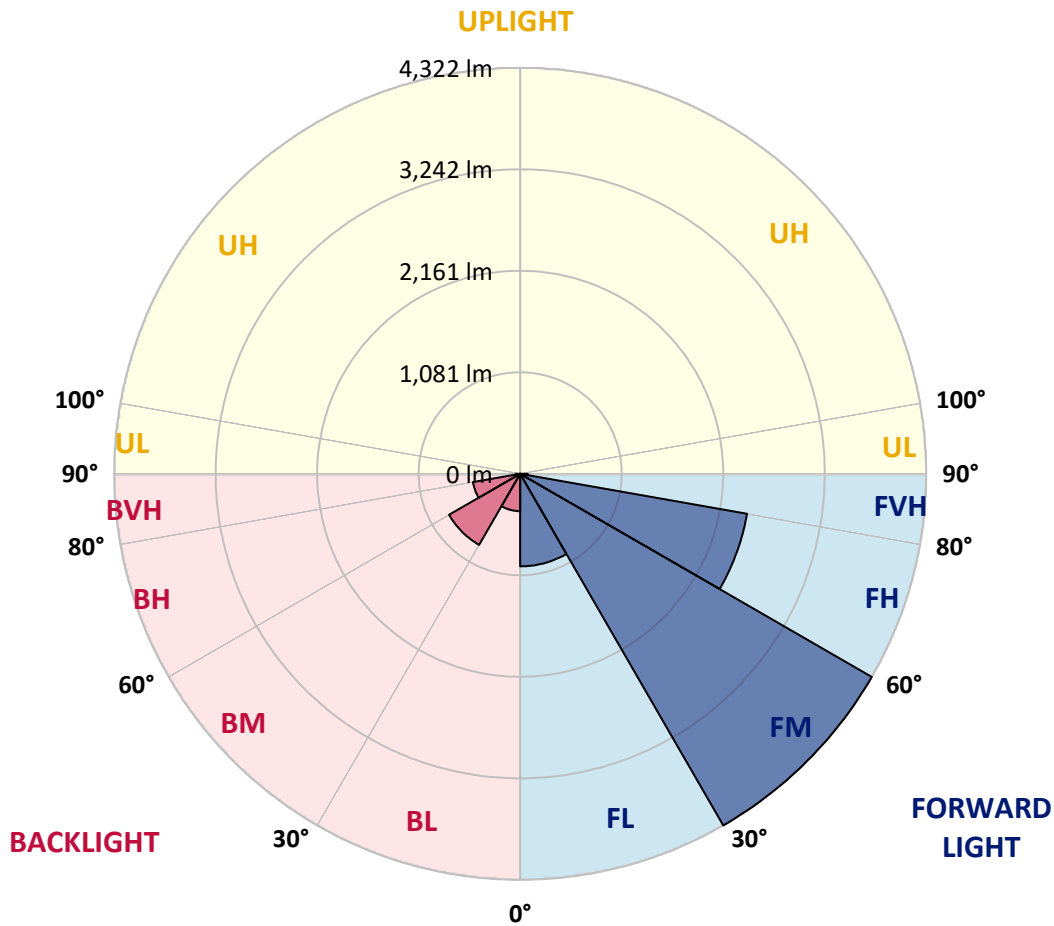
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	985.4	10.2			
FM (30°-60°)	4322.0	44.7			
FH (60°-80°)	2451.8	25.4			G2/5000
FVH (80°-90°)	79.1	0.8			G1/100
BL (0°-30°)	397.6	4.1	B1/500		
BM (30°-60°)	873.5	9.0	B1/1000		
BH (60°-80°)	510.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	47.4	0.5			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°	77°
0°	1134.2	1134.2	1134.2	1134.2	1134.2	1134.2	1134.2	1134.2	1134.2	1134.2
2.5°	1420.2	1430.1	1417.7	1417.7	1375.8	1353.8	1311.9	1279.9	1222.6	1212.6
5°	1678.7	1691.1	1673.7	1666.2	1616.8	1571.4	1501.0	1431.6	1329.4	1318.9
7.5°	1878.8	1894.7	1879.3	1871.3	1827.4	1776.5	1694.1	1597.3	1453.1	1432.6
10°	2041.9	2044.4	2039.4	2042.4	2008.0	1966.1	1881.7	1769.0	1588.8	1560.9
12.5°	2134.2	2145.7	2155.7	2173.7	2167.7	2141.7	2065.9	1931.2	1732.5	1696.6
15°	2177.7	2197.6	2220.1	2261.5	2294.9	2301.4	2243.5	2105.3	1878.8	1835.3
17.5°	2193.1	2212.1	2247.5	2307.4	2379.3	2427.7	2401.7	2274.5	2023.5	1973.6
20°	2271.5	2277.0	2298.4	2355.3	2433.2	2513.5	2533.0	2437.1	2166.7	2110.3
22.5°	2439.1	2428.2	2434.1	2460.1	2516.0	2593.8	2638.2	2580.9	2313.9	2249.0
25°	2716.1	2684.2	2652.2	2622.3	2650.7	2694.6	2745.0	2724.6	2468.1	2385.7
27.5°	3065.9	3027.0	2956.6	2858.3	2823.9	2839.3	2861.8	2857.8	2610.8	2527.5
30°	3410.2	3364.8	3281.0	3138.7	3047.9	3007.0	2990.0	2978.6	2766.0	2677.2
32.5°	3685.2	3649.2	3566.9	3407.7	3276.0	3206.1	3149.7	3108.8	2928.2	2839.3
35°	3925.7	3892.2	3797.9	3624.3	3481.1	3406.7	3332.9	3245.5	3096.8	3007.0
37.5°	4145.2	4111.8	3982.6	3801.9	3657.7	3606.3	3540.4	3392.2	3266.0	3181.2
40°	4284.0	4276.5	4155.7	3951.1	3801.4	3776.0	3754.0	3562.4	3453.6	3374.8
42.5°	4319.4	4335.9	4240.0	4071.9	3929.2	3908.7	3960.1	3755.0	3664.2	3588.8
45°	4234.1	4281.5	4218.6	4104.3	4020.0	4009.0	4142.7	3965.6	3897.2	3828.4
47.5°	4018.0	4098.3	4072.4	4056.4	4044.4	4091.8	4303.4	4189.2	4161.2	4101.3
50°	3581.9	3734.1	3779.5	3880.3	3996.0	4156.2	4449.6	4433.2	4469.6	4409.2
52.5°	2827.9	3037.4	3300.9	3553.4	3847.3	4134.8	4610.3	4783.5	4937.2	4904.2
55°	2334.3	2428.7	2631.3	3094.3	3558.9	4044.4	4682.7	5066.4	5401.2	5371.8
57.5°	1955.1	2039.4	2164.2	2550.9	3122.8	3839.3	4727.6	5239.1	5719.1	5716.1
60°	1548.4	1637.7	1765.5	2039.4	2613.3	3485.1	4717.6	5435.7	6124.8	6149.7
62.5°	1089.3	1187.6	1329.4	1584.8	2092.8	3026.0	4514.0	5577.9	6602.3	6670.2
65°	716.1	780.9	887.7	1108.3	1559.4	2435.6	4125.3	5596.3	7113.3	7228.1
67.5°	502.0	526.9	589.8	709.6	1028.0	1867.8	3506.0	5405.2	7454.1	7583.4
70°	391.7	404.2	436.1	484.0	645.7	1256.0	2686.6	4908.2	7381.3	7516.0
72.5°	338.3	350.3	362.3	368.3	433.1	775.5	1819.9	4103.8	6695.2	6786.5
75°	306.9	309.9	319.9	317.9	330.3	503.0	1050.4	2990.0	5282.5	5251.0
77.5°	258.0	262.0	278.4	276.0	293.4	343.8	545.4	1929.7	3424.7	3211.1
80°	218.6	220.6	238.5	235.5	255.0	249.0	278.4	983.5	1452.6	1230.5
82.5°	75.8	93.8	182.1	187.6	194.6	150.7	160.7	401.2	443.6	339.8
85°	36.9	39.4	92.8	131.7	131.2	75.8	78.3	143.2	139.7	109.8
87.5°	6.0	7.5	11.0	51.4	40.9	20.0	26.9	27.9	28.9	25.0
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°
1134.2	0°	1134.2	1134.2	1134.2	1134.2	1134.2	1134.2	1134.2	1134.2	1134.2	1134.2
1174.7	2.5°	1146.7	1121.8	1069.4	1021.0	983.0	946.6	926.2	908.7	898.7	896.7
1229.5	5°	1177.7	1126.3	1030.9	950.6	898.2	859.3	838.8	825.9	819.4	815.4
1303.4	7.5°	1222.1	1146.7	1011.0	919.7	864.8	836.8	826.4	824.4	823.9	824.4
1392.7	10°	1283.4	1180.1	1009.0	912.2	866.3	850.8	850.3	850.8	852.8	853.3
1490.0	12.5°	1349.8	1214.6	1017.0	918.7	885.2	876.8	875.3	874.8	876.3	877.3
1588.3	15°	1422.2	1260.0	1030.4	932.6	906.2	897.2	895.7	892.7	892.2	891.7
1691.6	17.5°	1496.5	1304.9	1045.4	947.6	919.7	907.2	901.7	894.7	889.2	887.7
1798.4	20°	1571.9	1349.3	1055.9	955.1	920.7	903.2	892.2	880.2	870.8	865.3
1906.2	22.5°	1652.2	1395.7	1062.4	953.1	911.7	887.7	867.8	853.8	839.3	829.8
2015.0	25°	1730.6	1436.1	1061.9	942.6	894.2	863.8	838.3	820.4	800.4	790.4
2127.3	27.5°	1805.9	1472.6	1049.4	924.2	869.3	835.3	804.9	783.4	764.0	754.5
2240.5	30°	1883.7	1503.0	1029.9	897.2	839.8	802.4	769.0	750.5	733.0	724.1
2360.3	32.5°	1961.1	1530.9	1002.5	863.8	805.9	770.0	737.0	720.1	709.6	709.6
2489.0	35°	2042.9	1550.4	966.1	824.9	770.0	735.5	709.6	699.6	698.6	692.6
2625.3	37.5°	2129.3	1562.9	921.7	784.9	734.5	702.1	694.1	682.1	672.2	659.2
2775.0	40°	2220.1	1575.4	868.3	743.5	697.1	679.1	675.7	659.7	631.2	599.3
2944.6	42.5°	2330.4	1583.8	812.9	702.1	657.7	651.7	656.7	629.2	583.8	559.9
3149.2	45°	2458.1	1597.8	762.0	661.2	617.3	617.3	638.2	602.3	564.9	549.9
3382.8	47.5°	2623.8	1630.3	714.6	616.3	579.8	589.8	597.3	569.9	548.9	530.4
3667.2	50°	2863.3	1708.1	665.7	570.9	551.4	571.4	560.9	544.9	520.5	505.5
4119.3	52.5°	3160.7	1754.0	622.3	529.9	526.9	546.9	531.9	517.0	498.5	478.5
4462.1	55°	3363.3	1762.5	585.8	500.0	510.5	508.5	503.0	489.5	479.5	453.1
4800.4	57.5°	3589.8	1779.5	555.9	482.0	500.0	478.0	476.1	464.6	451.6	433.6
5213.1	60°	3860.8	1805.9	529.9	475.1	491.0	458.1	448.1	443.6	430.6	421.7
5709.6	62.5°	4156.2	1829.9	503.5	476.1	480.5	438.6	423.7	422.2	414.2	411.2
6175.7	65°	4357.8	1764.5	470.6	475.1	464.1	418.7	399.7	399.2	392.7	391.7
6377.8	67.5°	4287.5	1557.4	426.2	461.1	447.1	398.7	377.7	375.8	367.3	367.8
6166.7	70°	3935.2	1262.0	364.8	426.6	426.2	380.7	354.8	348.3	336.8	338.8
5361.8	72.5°	3274.5	935.1	282.4	369.3	392.7	364.3	328.3	317.9	303.4	305.4
3958.1	75°	2364.8	635.7	205.6	280.9	341.8	344.8	302.4	284.4	267.0	270.0
2203.1	77.5°	1210.1	360.3	151.2	193.6	268.5	313.4	278.9	255.0	251.0	278.9
635.2	80°	394.7	180.6	104.8	135.7	176.1	256.5	244.5	217.1	216.1	222.6
133.2	82.5°	117.8	76.3	67.4	89.3	97.3	196.6	211.1	164.2	141.2	148.7
44.4	85°	40.4	36.9	38.4	44.4	46.4	115.3	147.7	108.8	102.8	113.3
10.0	87.5°	9.5	13.0	11.0	10.0	10.0	27.9	57.4	45.4	62.9	41.9
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°
1134.2
896.7
814.9
825.9
853.8
877.8
891.2
889.2
867.3
830.3
790.4
754.0
723.6
710.1
691.1
657.2
594.8
560.4
552.4
529.9
504.0
474.6
453.6
427.6
424.2
411.2
391.2
367.8
340.8
304.9
271.0
275.0
191.1
153.7
111.8
40.4
0.0

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