

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: P947952

Luminaire Tested: **GALN-SB3A-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947952
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-SB3A-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8344 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

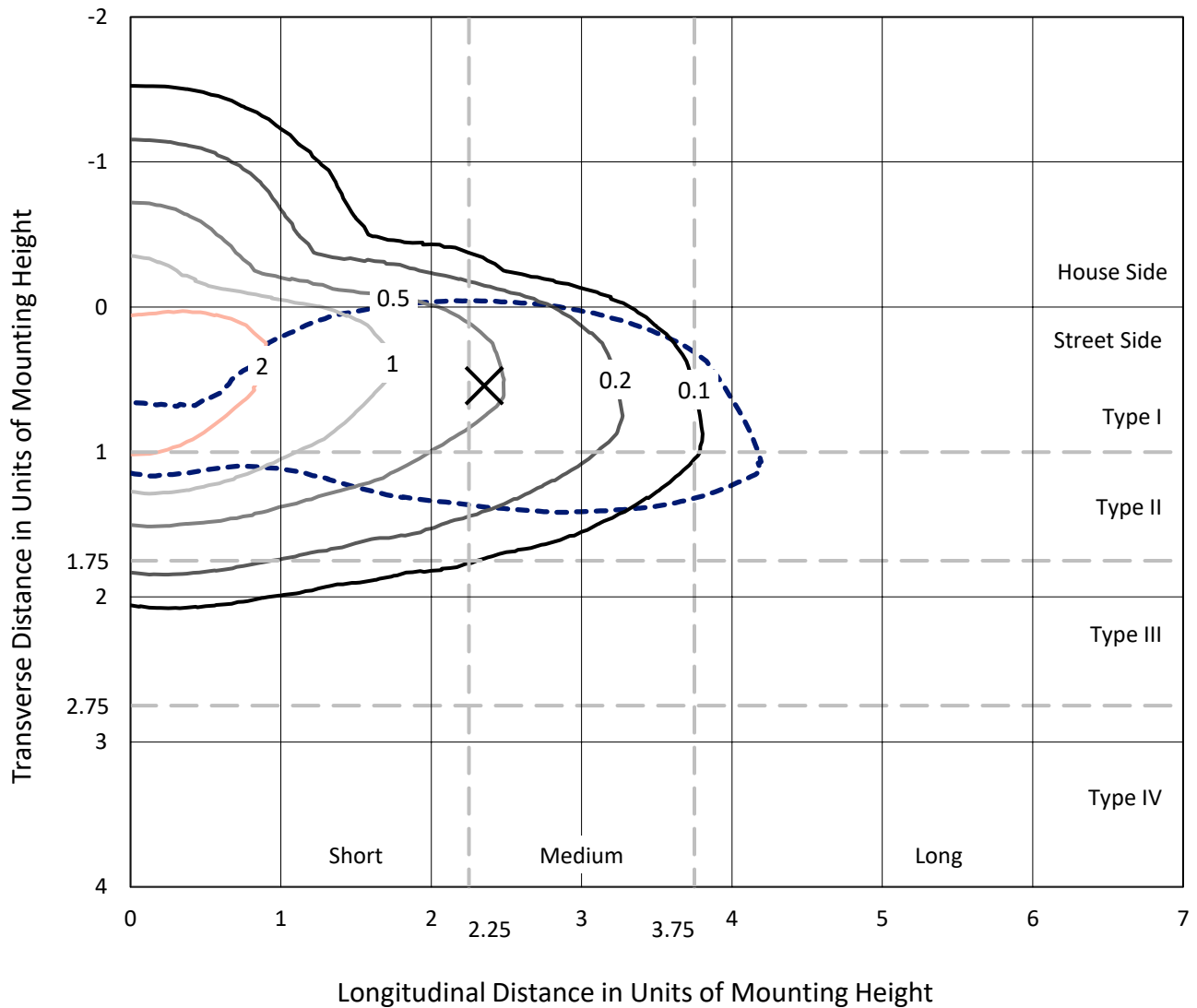
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

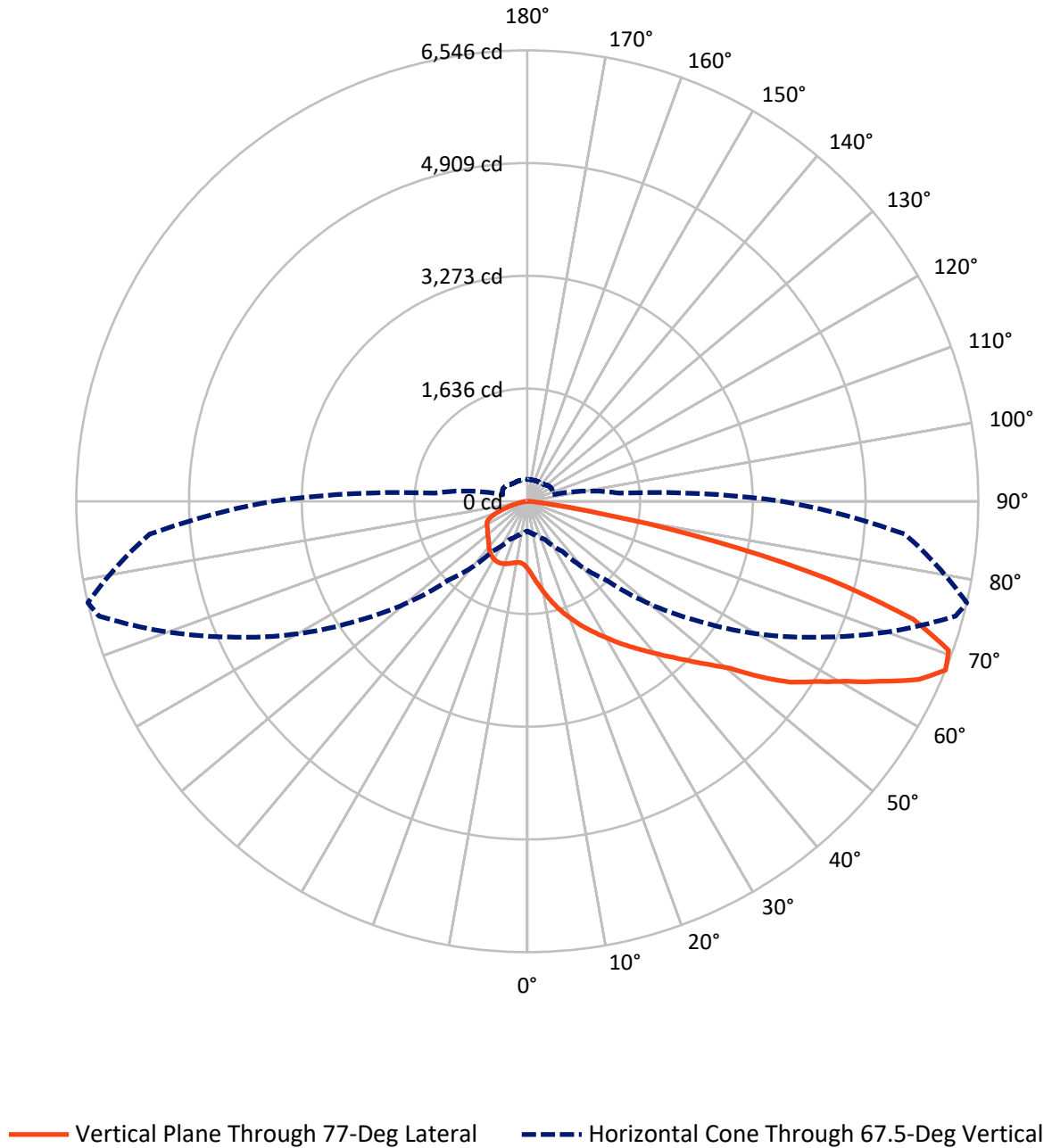
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	1578.3	0.0	1578.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	6765.6	0.0	6765.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	8344.0	0.0	8344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	1.3
10°-20°	377.0	4.5
20°-30°	711.8	8.5
30°-40°	1146.7	13.7
40°-50°	1568.5	18.8
50°-60°	1769.3	21.2
60°-70°	1651.4	19.8
70°-80°	905.2	10.8
80°-90°	109.2	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°	8344.0	100.0
0°-180°	8344.0	100.0

Coefficient of Utilization



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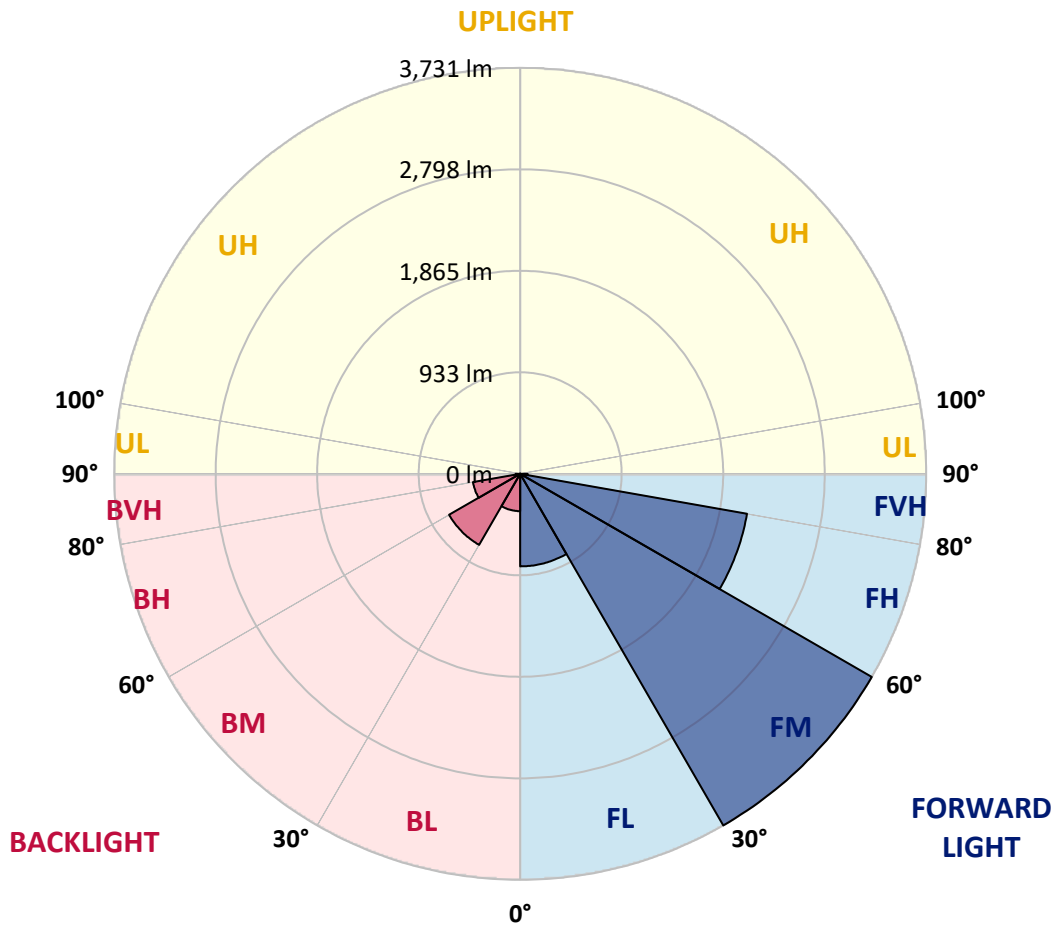
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.6	10.2			
FM (30°-60°)	3730.5	44.7			
FH (60°-80°)	2116.3	25.4			G2/5000
FVH (80°-90°)	68.3	0.8			G1/100
BL (0°-30°)	343.2	4.1	B1/500		
BM (30°-60°)	753.9	9.0	B1/1000		
BH (60°-80°)	440.3	5.3	B1/500		G1/500
BVH (80°-90°)	40.9	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	979.0	979.0	979.0	979.0	979.0	979.0	979.0	979.0	979.0	979.0
2.5°	1225.8	1234.4	1223.7	1223.7	1187.5	1168.5	1132.3	1104.8	1055.2	1046.6
5°	1448.9	1459.7	1444.6	1438.2	1395.5	1356.3	1295.6	1235.7	1147.4	1138.4
7.5°	1621.6	1635.4	1622.1	1615.2	1577.3	1533.3	1462.3	1378.7	1254.2	1236.6
10°	1762.5	1764.6	1760.3	1762.9	1733.2	1697.0	1624.2	1526.9	1371.4	1347.3
12.5°	1842.2	1852.1	1860.7	1876.2	1871.0	1848.6	1783.2	1666.9	1495.4	1464.4
15°	1879.6	1896.9	1916.2	1952.0	1980.8	1986.4	1936.5	1817.2	1621.6	1584.2
17.5°	1893.0	1909.4	1939.9	1991.6	2053.6	2095.4	2073.0	1963.2	1746.5	1703.5
20°	1960.6	1965.3	1983.9	2033.0	2100.2	2169.5	2186.3	2103.6	1870.2	1821.5
22.5°	2105.3	2095.8	2101.0	2123.4	2171.7	2238.8	2277.2	2227.6	1997.2	1941.2
25°	2344.4	2316.8	2289.2	2263.4	2287.9	2325.8	2369.4	2351.7	2130.3	2059.2
27.5°	2646.3	2612.7	2552.0	2467.1	2437.4	2450.8	2470.1	2466.7	2253.5	2181.6
30°	2943.5	2904.3	2831.9	2709.2	2630.8	2595.5	2580.8	2570.9	2387.4	2310.8
32.5°	3180.8	3149.8	3078.7	2941.3	2827.6	2767.3	2718.7	2683.3	2527.4	2450.8
35°	3388.4	3359.6	3278.2	3128.3	3004.7	2940.5	2876.7	2801.4	2673.0	2595.5
37.5°	3577.9	3549.1	3437.5	3281.6	3157.1	3112.8	3055.9	2928.0	2819.0	2745.8
40°	3697.7	3691.2	3587.0	3410.4	3281.2	3259.2	3240.3	3074.9	2981.0	2912.9
42.5°	3728.3	3742.5	3659.8	3514.6	3391.4	3373.8	3418.1	3241.1	3162.7	3097.7
45°	3654.6	3695.5	3641.2	3542.6	3469.8	3460.3	3575.8	3422.9	3363.9	3304.4
47.5°	3468.1	3537.4	3515.0	3501.3	3490.9	3531.8	3714.5	3615.8	3591.7	3540.0
50°	3091.7	3223.0	3262.2	3349.2	3449.1	3587.4	3840.7	3826.5	3857.9	3805.8
52.5°	2440.9	2621.7	2849.2	3067.1	3320.8	3568.9	3979.4	4128.8	4261.5	4233.0
55°	2014.9	2096.3	2271.1	2670.9	3071.8	3490.9	4041.8	4373.0	4662.0	4636.6
57.5°	1687.5	1760.3	1868.0	2201.8	2695.4	3313.9	4080.6	4522.1	4936.4	4933.8
60°	1336.5	1413.6	1523.9	1760.3	2255.6	3008.1	4072.0	4691.8	5286.6	5308.1
62.5°	940.2	1025.1	1147.4	1367.9	1806.4	2611.8	3896.2	4814.5	5698.8	5757.3
65°	618.1	674.1	766.2	956.6	1346.0	2102.3	3560.7	4830.4	6139.8	6238.9
67.5°	433.3	454.8	509.1	612.5	887.3	1612.2	3026.2	4665.5	6434.0	6545.5
70°	338.1	348.9	376.4	417.8	557.3	1084.1	2319.0	4236.5	6371.1	6487.4
72.5°	292.0	302.4	312.7	317.9	373.9	669.3	1570.8	3542.2	5778.9	5857.7
75°	264.9	267.5	276.1	274.4	285.1	434.2	906.7	2580.8	4559.5	4532.4
77.5°	222.7	226.1	240.3	238.2	253.3	296.8	470.8	1665.6	2956.0	2771.6
80°	188.7	190.4	205.9	203.3	220.1	214.9	240.3	848.9	1253.8	1062.1
82.5°	65.5	81.0	157.2	161.9	168.0	130.1	138.7	346.3	382.9	293.3
85°	31.9	34.0	80.1	113.7	113.3	65.5	67.6	123.6	120.6	94.8
87.5°	5.2	6.5	9.5	44.4	35.3	17.2	23.3	24.1	25.0	21.5
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°
979.0	0°	979.0	979.0	979.0	979.0	979.0	979.0	979.0	979.0	979.0	979.0
1013.9	2.5°	989.8	968.2	923.0	881.2	848.5	817.1	799.4	784.3	775.7	774.0
1061.3	5°	1016.5	972.1	889.9	820.5	775.3	741.7	724.0	712.8	707.2	703.8
1125.0	7.5°	1054.8	989.8	872.6	793.8	746.4	722.3	713.3	711.5	711.1	711.5
1202.1	10°	1107.8	1018.6	870.9	787.3	747.7	734.4	733.9	734.4	736.1	736.5
1286.1	12.5°	1165.1	1048.4	877.8	792.9	764.1	756.8	755.5	755.0	756.3	757.2
1371.0	15°	1227.5	1087.6	889.4	805.0	782.2	774.4	773.1	770.5	770.1	769.7
1460.1	17.5°	1291.7	1126.3	902.3	817.9	793.8	783.0	778.3	772.3	767.5	766.2
1552.3	20°	1356.7	1164.6	911.4	824.4	794.7	779.6	770.1	759.8	751.6	746.9
1645.3	22.5°	1426.1	1204.7	917.0	822.7	786.9	766.2	749.0	736.9	724.5	716.3
1739.2	25°	1493.7	1239.6	916.6	813.6	771.8	745.6	723.6	708.1	690.9	682.2
1836.1	27.5°	1558.7	1271.0	905.8	797.7	750.3	721.0	694.7	676.2	659.4	651.2
1933.9	30°	1625.9	1297.3	889.0	774.4	724.9	692.6	663.7	647.8	632.7	625.0
2037.3	32.5°	1692.7	1321.4	865.3	745.6	695.6	664.6	636.2	621.5	612.5	612.5
2148.4	35°	1763.3	1338.2	833.9	712.0	664.6	634.9	612.5	603.9	603.0	597.8
2266.0	37.5°	1837.9	1349.0	795.5	677.5	634.0	606.0	599.1	588.8	580.2	569.0
2395.2	40°	1916.2	1359.8	749.4	641.8	601.7	586.2	583.2	569.4	544.9	517.3
2541.6	42.5°	2011.4	1367.1	701.6	606.0	567.7	562.5	566.8	543.1	503.9	483.3
2718.2	45°	2121.7	1379.1	657.7	570.7	532.8	532.8	550.9	519.9	487.6	474.6
2919.8	47.5°	2264.7	1407.1	616.8	531.9	500.5	509.1	515.6	491.9	473.8	457.8
3165.3	50°	2471.4	1474.3	574.6	492.7	475.9	493.2	484.1	470.3	449.2	436.3
3555.5	52.5°	2728.1	1514.0	537.1	457.4	454.8	472.1	459.1	446.2	430.3	413.1
3851.4	55°	2903.0	1521.3	505.7	431.6	440.6	438.9	434.2	422.5	413.9	391.1
4143.5	57.5°	3098.5	1535.9	479.8	416.1	431.6	412.6	410.9	401.0	389.8	374.3
4499.7	60°	3332.4	1558.7	457.4	410.0	423.8	395.4	386.8	382.9	371.7	364.0
4928.2	62.5°	3587.4	1579.4	434.6	410.9	414.8	378.6	365.7	364.4	357.5	354.9
5330.5	65°	3761.4	1523.0	406.2	410.0	400.6	361.4	345.0	344.6	339.0	338.1
5504.9	67.5°	3700.7	1344.3	367.8	398.0	385.9	344.1	326.0	324.3	317.0	317.4
5322.8	70°	3396.6	1089.3	314.9	368.3	367.8	328.6	306.2	300.6	290.7	292.5
4628.0	72.5°	2826.3	807.2	243.8	318.7	339.0	314.4	283.4	274.4	261.9	263.6
3416.4	75°	2041.1	548.7	177.5	242.5	295.0	297.6	261.0	245.5	230.4	233.0
1901.6	77.5°	1044.5	311.0	130.5	167.1	231.7	270.5	240.8	220.1	216.6	240.8
548.3	80°	340.7	155.9	90.4	117.2	152.0	221.4	211.0	187.4	186.5	192.1
115.0	82.5°	101.6	65.9	58.1	77.1	84.0	169.7	182.2	141.7	121.9	128.4
38.3	85°	34.9	31.9	33.2	38.3	40.1	99.5	127.5	93.9	88.7	97.8
8.6	87.5°	8.2	11.2	9.5	8.6	8.6	24.1	49.5	39.2	54.3	36.2
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>
979.0
774.0
703.4
712.8
736.9
757.6
769.3
767.5
748.6
716.7
682.2
650.8
624.5
612.9
596.5
567.2
513.4
483.7
476.8
457.4
435.0
409.6
391.5
369.1
366.1
354.9
337.7
317.4
294.2
263.2
233.9
237.3
165.0
132.7
96.5
34.9
0.0

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