

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: P947958

Luminaire Tested: **GALN-SB3A-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8176 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

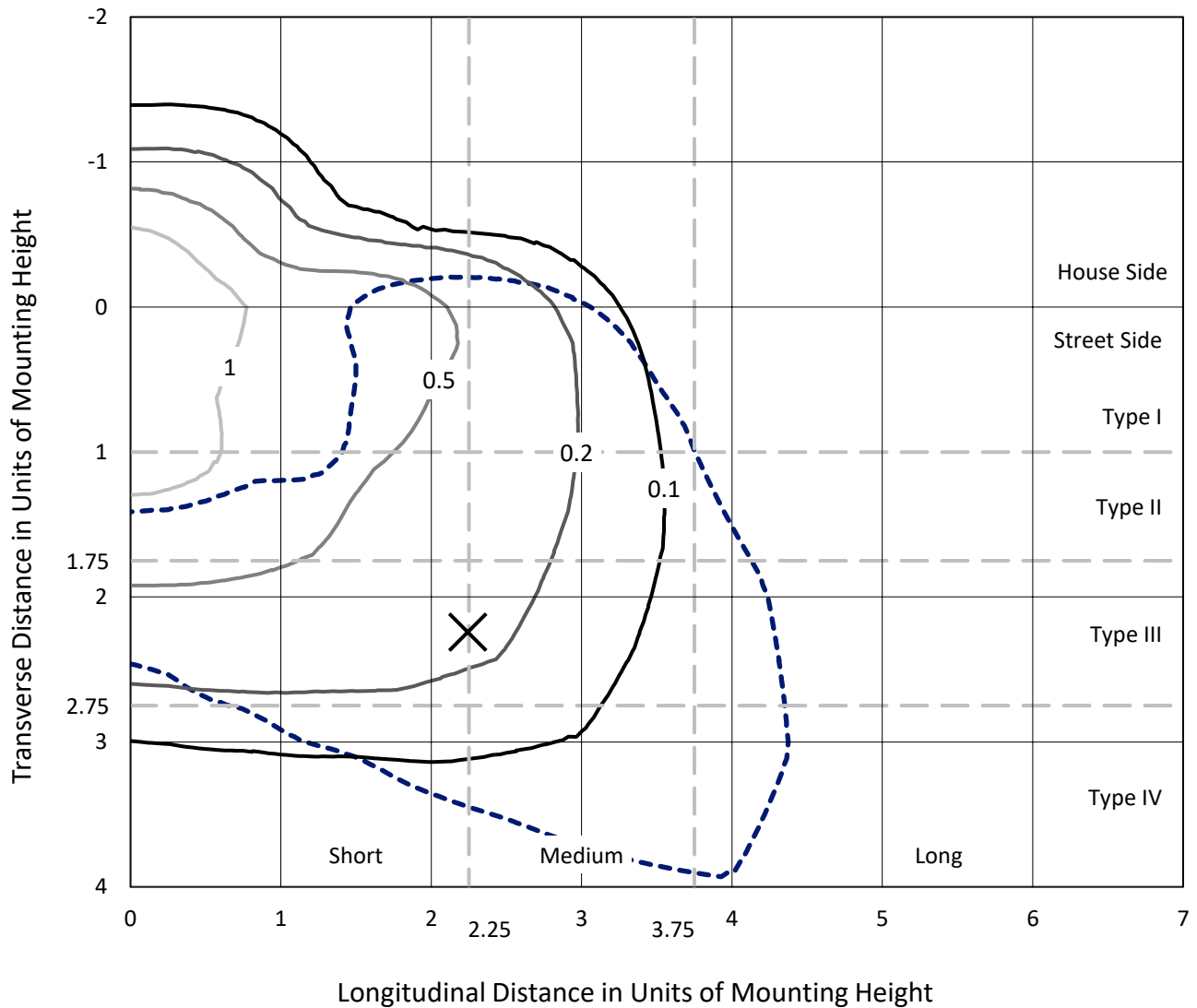
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

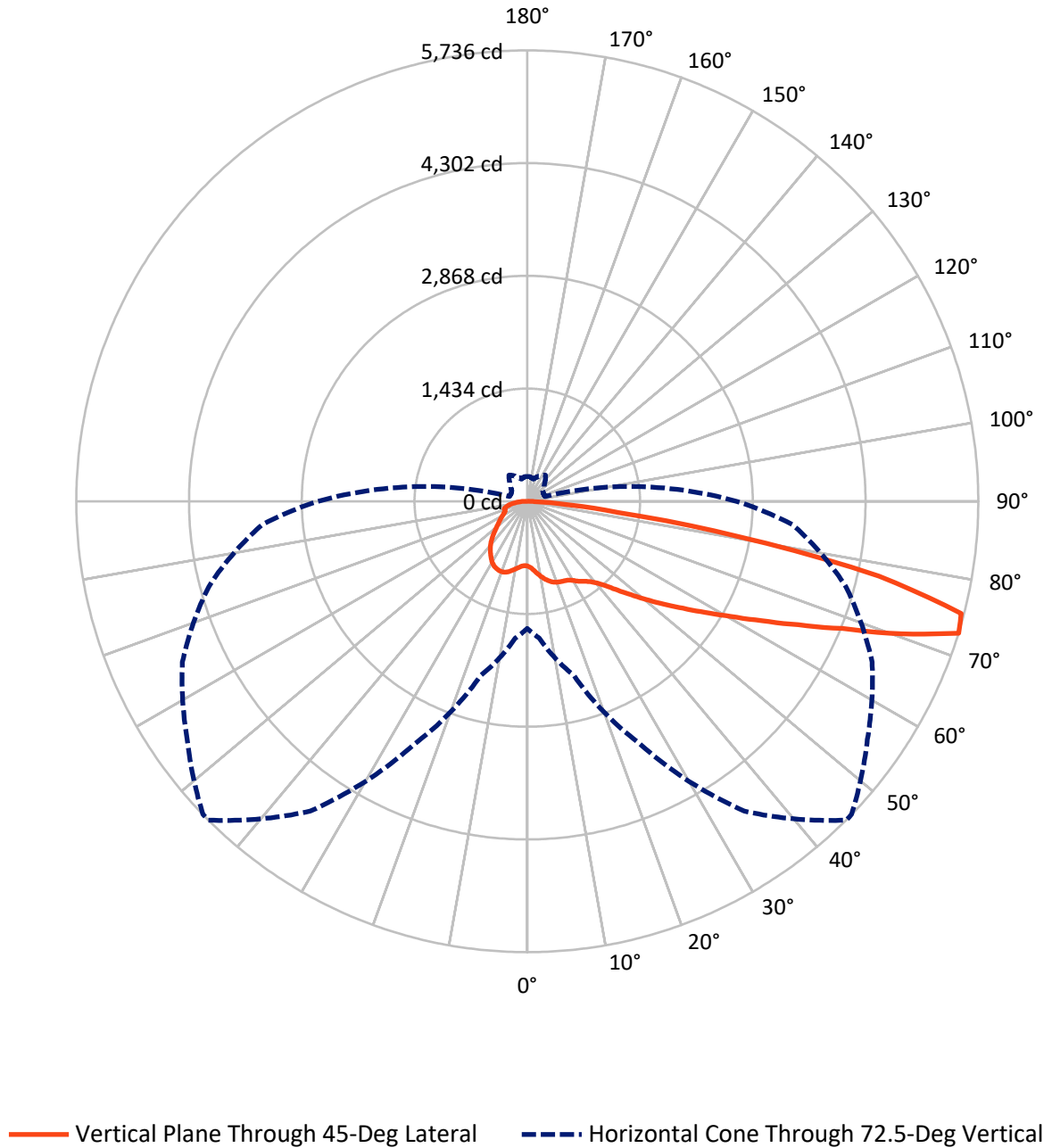
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1848.3	0.0	1848.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6327.7	0.0	6327.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	8176.0	0.0	8176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	1.0
10°-20°	279.9	3.4
20°-30°	486.9	6.0
30°-40°	698.0	8.5
40°-50°	982.8	12.0
50°-60°	1505.4	18.4
60°-70°	2180.8	26.7
70°-80°	1741.5	21.3
80°-90°	216.9	2.7
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°	8176.0	100.0
0°-180°	8176.0	100.0

Coefficient of Utilization



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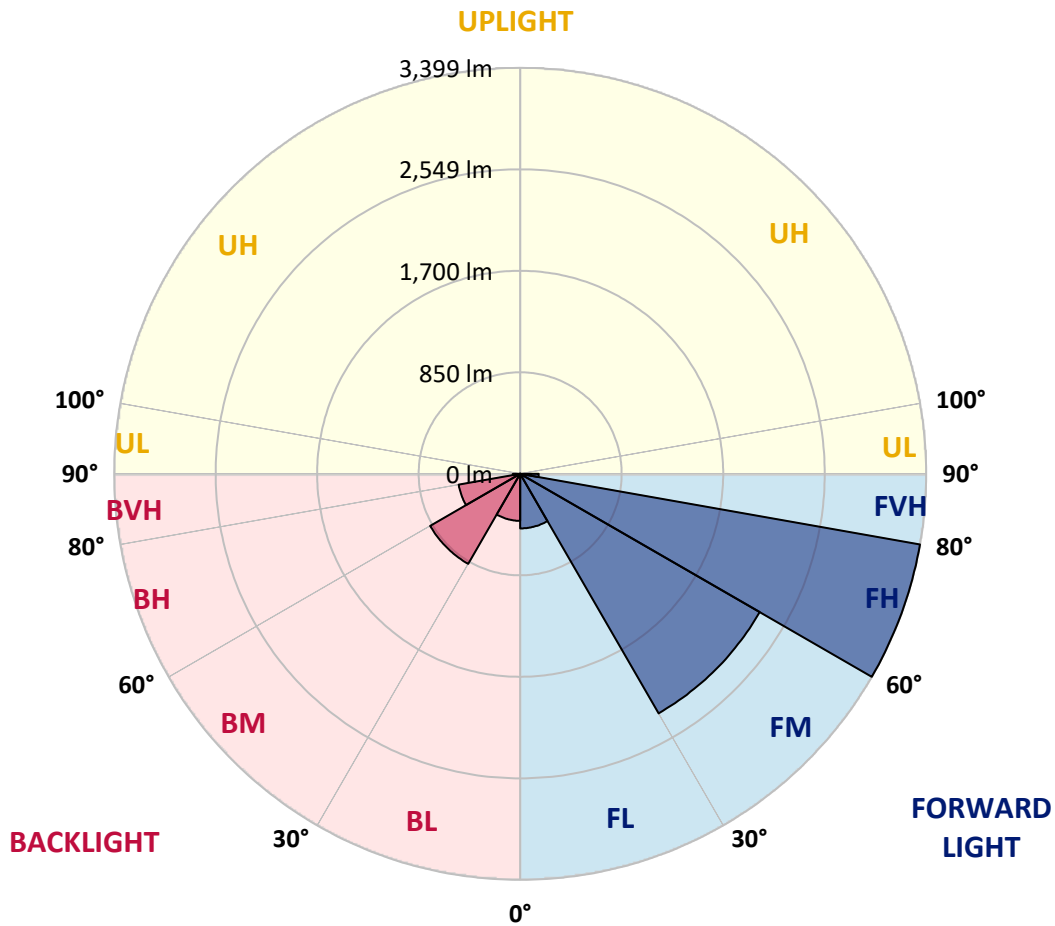
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.2	5.6			
FM (30°-60°)	2315.9	28.3			
FH (60°-80°)	3399.0	41.6			G2/5000
FVH (80°-90°)	155.6	1.9			G2/225
BL (0°-30°)	393.5	4.8	B1/500		
BM (30°-60°)	870.3	10.6	B1/1000		
BH (60°-80°)	523.2	6.4	B2/1000		G2/1000
BVH (80°-90°)	61.3	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8
2.5°	857.1	862.7	857.5	852.8	850.6	845.0	844.6	841.2	839.0	833.0
5°	917.0	924.3	915.7	906.2	897.6	883.8	882.1	872.2	861.0	848.1
7.5°	984.6	991.1	981.1	966.9	951.9	929.0	928.6	910.5	892.9	870.9
10°	1043.6	1052.2	1038.9	1019.5	1000.5	974.7	971.7	951.0	928.6	900.2
12.5°	1095.7	1101.7	1088.8	1065.1	1043.2	1017.3	1013.4	990.6	965.6	933.3
15°	1137.1	1144.8	1127.6	1102.2	1078.9	1053.5	1050.1	1029.4	1004.4	970.4
17.5°	1164.2	1170.7	1153.0	1124.6	1102.2	1081.1	1078.5	1061.3	1039.3	1004.8
20°	1174.5	1181.4	1162.9	1134.0	1113.4	1097.0	1095.7	1083.2	1068.1	1036.7
22.5°	1184.9	1191.3	1167.2	1137.1	1119.0	1108.6	1108.2	1100.0	1094.0	1068.1
25°	1226.6	1228.4	1196.1	1152.6	1126.7	1117.7	1117.2	1116.8	1119.4	1099.2
27.5°	1262.8	1262.4	1234.8	1193.9	1153.9	1134.9	1134.5	1138.8	1147.0	1130.2
30°	1315.8	1311.1	1278.3	1235.7	1199.1	1169.8	1167.2	1163.3	1169.8	1156.4
32.5°	1428.2	1413.1	1360.2	1284.4	1236.6	1214.2	1210.7	1186.6	1189.2	1181.0
35°	1589.3	1569.5	1498.9	1376.5	1283.1	1251.2	1249.5	1218.9	1213.7	1206.4
37.5°	1781.0	1756.4	1674.1	1510.1	1363.2	1294.3	1291.7	1264.1	1243.0	1235.3
40°	1973.5	1942.5	1874.4	1672.9	1481.2	1366.2	1358.0	1316.2	1292.1	1279.2
42.5°	2160.4	2134.6	2076.4	1855.5	1626.8	1471.3	1453.2	1381.7	1363.6	1351.6
45°	2325.8	2302.5	2259.9	2050.6	1797.3	1614.3	1596.6	1479.9	1474.3	1474.3
47.5°	2460.2	2455.0	2409.8	2249.6	1998.5	1777.1	1746.5	1616.4	1631.5	1654.8
50°	2609.2	2595.0	2546.8	2445.5	2234.9	1963.6	1938.6	1784.0	1840.4	1904.1
52.5°	2746.2	2753.9	2700.1	2649.7	2502.0	2171.6	2127.7	1981.7	2103.6	2209.1
55°	2887.0	2887.4	2872.4	2865.5	2781.9	2401.6	2353.4	2219.4	2413.2	2544.2
57.5°	3019.2	3020.1	3042.5	3103.2	3106.7	2666.9	2612.2	2511.4	2757.4	2890.9
60°	3137.3	3143.3	3204.4	3346.6	3392.2	2971.0	2919.3	2856.4	3113.1	3247.5
62.5°	3176.9	3198.8	3334.9	3536.9	3674.3	3344.0	3293.2	3255.7	3487.0	3611.9
65°	3109.7	3160.1	3423.2	3694.2	3964.6	3787.2	3736.8	3695.9	3875.5	3993.1
67.5°	2944.7	3009.8	3418.1	3859.1	4317.0	4320.4	4273.5	4177.4	4292.0	4337.2
70°	2510.1	2607.5	3117.0	3920.7	4721.4	5049.6	5004.4	4757.1	4707.6	4488.8
72.5°	1617.3	1748.2	2295.2	3413.8	4811.4	5735.7	5733.1	5280.4	4839.0	4194.2
75°	590.1	670.2	1066.4	2142.8	4038.7	5700.8	5717.6	5190.9	4417.3	3239.8
77.5°	214.9	235.2	348.0	823.5	2483.9	4574.1	4609.0	4149.8	3144.1	1625.9
80°	112.8	124.0	178.3	319.6	1064.3	2716.5	2771.2	2466.2	1477.7	489.7
82.5°	62.5	67.6	99.9	173.6	479.4	1161.6	1194.3	974.3	519.9	207.6
85°	33.6	35.7	46.9	94.8	234.3	402.7	411.8	291.2	207.2	121.9
87.5°	9.9	12.1	15.5	30.1	91.7	90.4	92.6	57.7	81.8	61.6
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°
824.8	0°	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8	824.8
831.3	2.5°	828.7	827.4	822.6	820.5	817.9	817.5	819.6	820.1	820.5	820.9
840.7	5°	836.4	832.1	827.8	825.2	826.1	826.5	830.8	833.8	836.0	837.7
858.4	7.5°	851.5	848.1	840.7	840.3	841.6	845.5	851.1	858.0	861.8	864.9
881.2	10°	873.9	867.4	858.8	860.1	862.7	868.3	879.9	885.5	892.0	897.6
909.2	12.5°	896.7	891.1	881.2	882.1	886.4	896.3	907.5	914.4	918.7	923.0
939.4	15°	926.4	916.5	905.8	905.8	913.5	924.3	929.5	935.1	937.6	942.4
971.7	17.5°	957.0	944.1	929.9	929.0	938.5	943.7	946.7	947.6	948.4	953.6
1003.1	20°	987.6	973.4	953.1	951.4	953.6	952.7	952.3	951.4	952.7	959.2
1035.4	22.5°	1017.8	1001.4	973.4	965.6	959.6	951.4	951.0	950.6	951.4	957.9
1070.3	25°	1053.1	1033.3	995.8	972.5	952.3	941.1	942.4	942.8	943.7	948.8
1106.5	27.5°	1091.4	1069.4	1016.5	970.4	933.8	926.0	923.9	925.2	928.2	936.4
1142.7	30°	1129.7	1103.9	1035.4	961.8	910.5	899.7	892.9	895.9	905.3	913.5
1174.1	32.5°	1164.6	1138.8	1050.5	942.8	880.8	864.0	854.9	858.8	868.3	871.3
1209.0	35°	1205.5	1176.3	1056.9	912.7	848.5	822.6	810.6	805.0	809.7	806.7
1249.9	37.5°	1251.2	1220.6	1056.1	873.0	810.6	780.9	764.1	743.0	733.1	722.7
1310.2	40°	1318.8	1274.9	1045.8	825.2	763.6	736.5	706.4	670.6	648.2	628.0
1407.5	42.5°	1411.0	1350.3	1026.8	772.7	710.7	685.3	644.3	602.6	567.2	533.6
1555.3	45°	1548.4	1448.9	1003.1	716.7	653.4	628.4	584.0	537.1	497.0	454.0
1765.0	47.5°	1746.5	1581.5	980.7	652.9	593.1	570.3	530.2	486.7	439.3	397.5
2068.2	50°	2018.7	1771.9	960.0	590.9	533.6	516.4	484.5	440.2	392.4	358.8
2423.6	52.5°	2365.0	2030.8	951.4	531.1	478.1	471.6	446.2	404.9	359.6	331.2
2837.9	55°	2762.5	2340.4	951.4	473.8	429.4	431.6	413.9	375.6	336.4	311.0
3265.2	57.5°	3168.3	2654.0	934.2	420.8	388.1	397.1	385.9	352.3	317.0	290.7
3714.4	60°	3542.1	2916.7	864.4	372.6	351.5	365.7	358.3	329.5	286.4	264.5
4090.0	62.5°	3829.4	3064.9	730.0	334.2	321.3	337.7	333.8	299.3	280.8	271.8
4398.4	65°	3973.2	3040.8	558.2	300.2	295.9	321.3	313.1	311.8	297.2	286.8
4498.7	67.5°	3885.0	2833.2	404.9	275.2	281.3	306.2	337.7	342.8	315.7	295.5
4216.2	70°	3497.8	2457.6	301.5	251.5	262.7	306.7	385.0	358.8	309.7	286.0
3381.5	72.5°	2660.9	1832.6	233.9	226.6	238.6	308.8	406.2	351.5	292.4	316.1
2106.6	75°	1521.7	1006.1	187.8	196.0	208.5	288.6	395.4	332.5	279.1	290.3
834.7	77.5°	580.2	386.8	155.1	165.8	167.5	252.0	378.2	331.2	265.7	259.3
250.2	80°	201.1	151.2	128.3	131.8	129.6	224.0	362.7	288.1	217.5	194.7
103.4	82.5°	82.3	75.4	101.6	97.3	92.2	174.0	292.9	235.6	177.9	157.2
50.0	85°	35.7	47.8	67.2	59.0	53.4	120.6	234.7	199.4	150.3	129.6
16.4	87.5°	7.3	18.1	28.4	26.7	27.6	80.5	166.7	141.7	106.4	79.7
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>
824.8
822.6
838.6
865.7
896.3
924.7
944.1
955.3
961.8
962.2
955.7
944.5
922.6
882.1
816.2
729.2
629.3
530.6
448.8
392.8
356.6
329.1
308.4
286.4
261.0
268.8
283.4
292.0
282.1
313.6
290.3
236.5
188.2
155.5
129.2
62.5
0.0

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