

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: P939427

Luminaire Tested: **GALN-SB2A-735-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939427  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-735-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

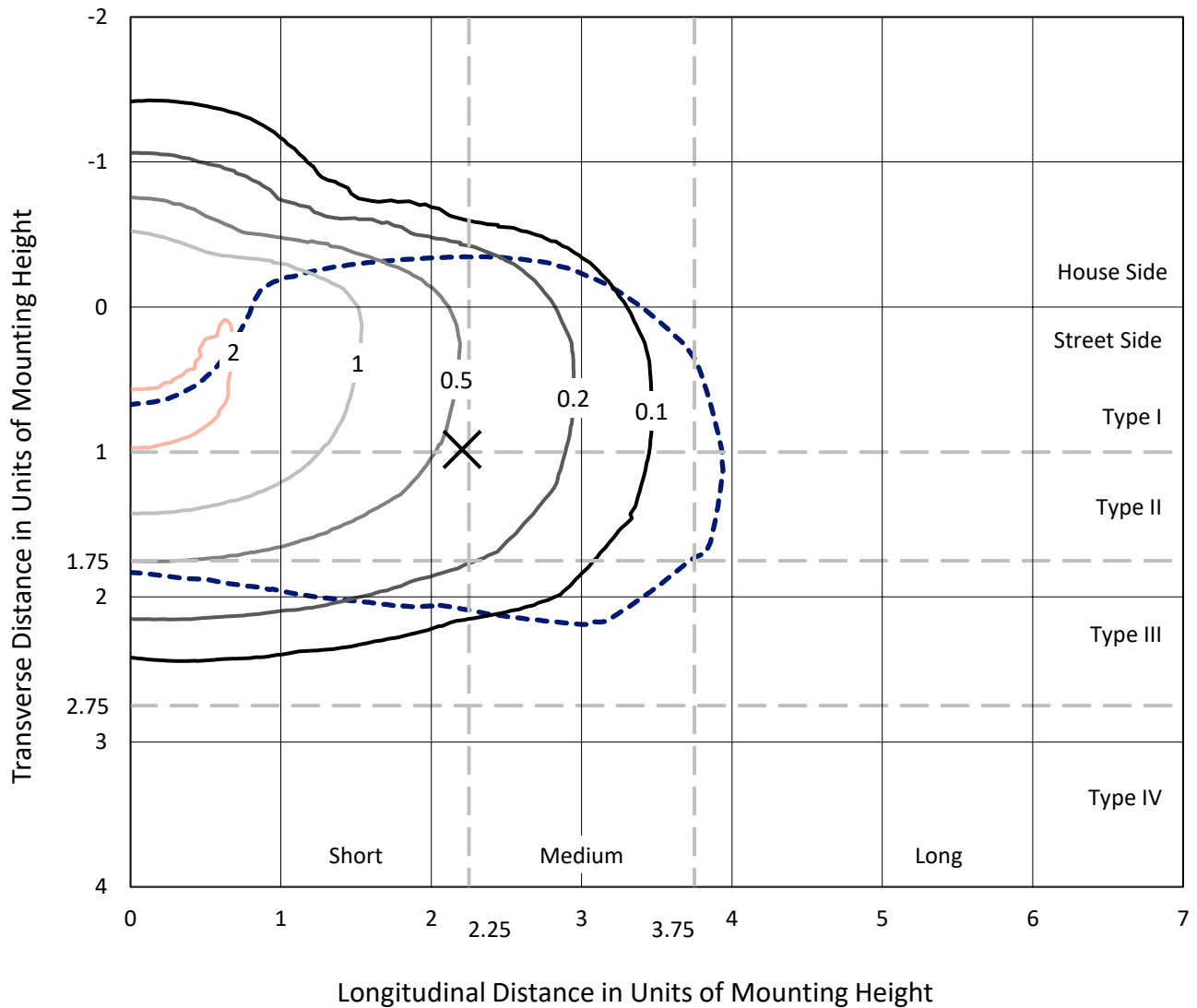
Lumens per Lamp: N/A  
Luminaire Lumens: 8977 lumens  
Efficiency: N/A  
Efficacy: 156.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

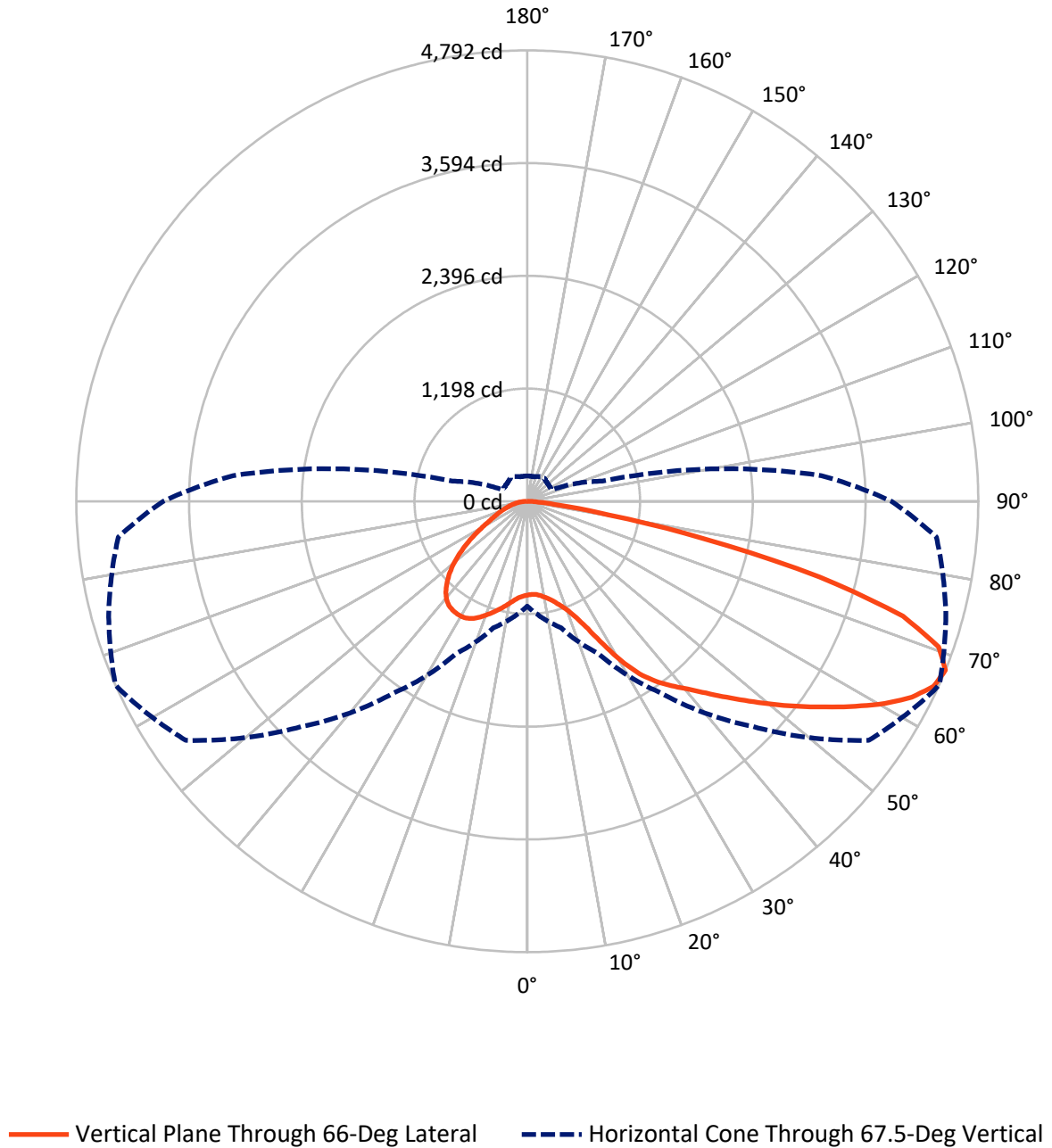
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2232.1	0.0	2232.1
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	6744.9	0.0	6744.9
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	8977.0	0.0	8977.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.7	1.1
10°-20°	326.1	3.6
20°-30°	628.6	7.0
30°-40°	1102.2	12.3
40°-50°	1638.6	18.3
50°-60°	2077.1	23.1
60°-70°	2032.4	22.6
70°-80°	969.5	10.8
80°-90°	103.6	1.2
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°	8977.0	100.0
0°-180°	8977.0	100.0

**Coefficient of Utilization**



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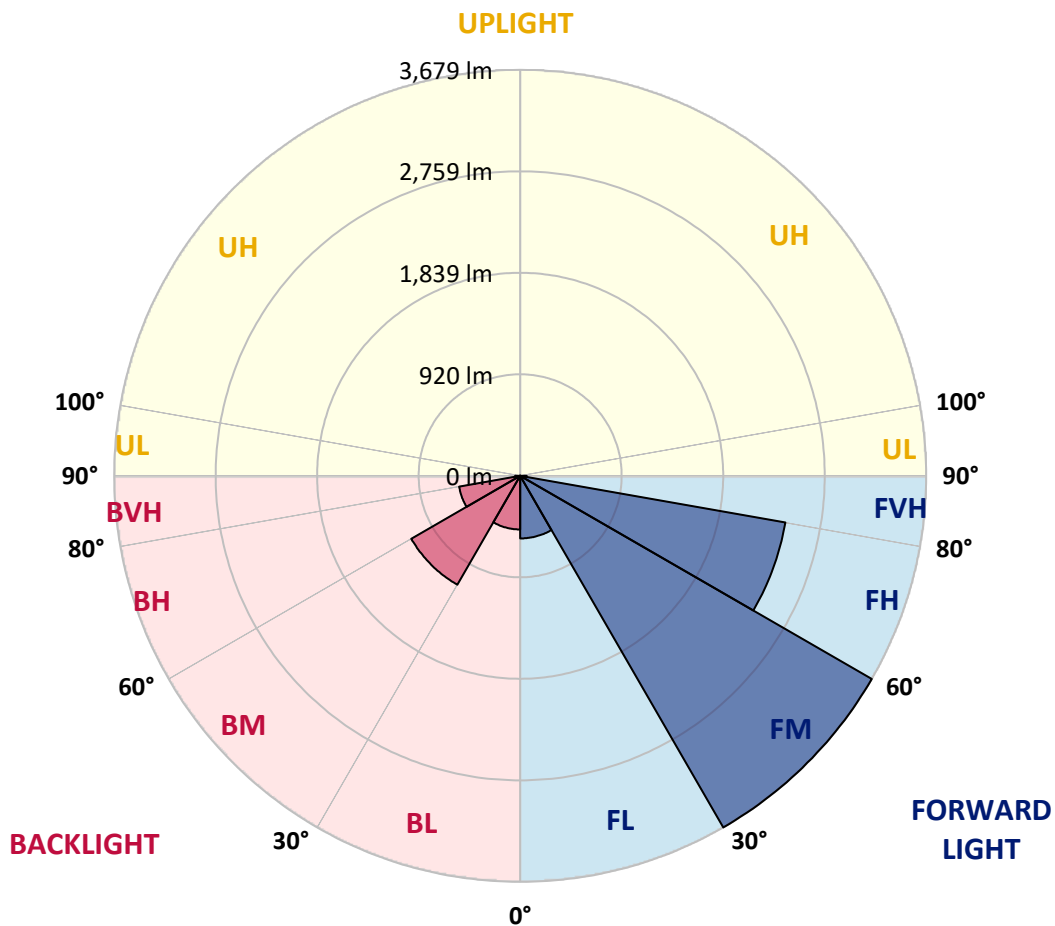
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.3	6.3			
FM (30°-60°)	3678.7	41.0			
FH (60°-80°)	2440.2	27.2			G2/5000
FVH (80°-90°)	58.7	0.7			G1/100
BL (0°-30°)	486.2	5.4	B1/500		
BM (30°-60°)	1139.3	12.7	B2/2500		
BH (60°-80°)	561.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	44.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	995.7	995.7	995.7	995.7	995.7	995.7	995.7	995.7	995.7	995.7
2.5°	985.3	991.0	989.5	987.2	986.7	987.6	989.1	990.5	990.0	992.4
5°	982.5	988.1	987.6	987.6	989.5	993.3	995.7	998.0	995.7	998.5
7.5°	984.3	988.6	990.5	992.4	997.1	1004.2	1009.8	1015.0	1012.2	1015.5
10°	1008.4	1011.7	1013.6	1013.6	1016.9	1024.9	1030.6	1040.0	1037.6	1042.8
12.5°	1052.3	1055.6	1055.6	1053.7	1056.0	1061.2	1063.1	1073.5	1069.2	1077.7
15°	1106.0	1112.6	1107.5	1104.1	1105.1	1110.3	1109.8	1117.8	1113.6	1120.7
17.5°	1165.5	1174.0	1165.5	1165.0	1163.1	1168.8	1169.2	1176.3	1168.8	1174.0
20°	1235.7	1247.5	1240.5	1242.8	1238.6	1240.9	1243.3	1253.7	1241.9	1245.6
22.5°	1334.8	1348.9	1341.4	1350.4	1347.5	1345.6	1345.2	1363.6	1345.2	1346.6
25°	1479.1	1496.1	1482.9	1495.2	1495.2	1501.3	1508.4	1531.9	1501.3	1492.3
27.5°	1692.3	1709.3	1683.3	1690.9	1688.5	1703.6	1696.1	1754.6	1721.5	1706.9
30°	1948.9	1979.1	1930.0	1928.1	1925.8	1949.8	1960.7	1999.4	1965.9	1951.2
32.5°	2226.2	2257.8	2199.3	2182.4	2173.4	2188.0	2179.1	2210.2	2187.1	2164.4
35°	2519.6	2550.7	2495.1	2462.0	2426.2	2395.5	2363.5	2371.5	2349.8	2315.4
37.5°	2796.9	2854.0	2795.0	2759.7	2693.6	2633.7	2544.1	2506.9	2486.6	2455.0
40°	3079.4	3112.0	3067.2	3037.0	2965.3	2871.4	2728.1	2649.3	2621.9	2591.3
42.5°	3287.4	3318.6	3294.5	3273.8	3217.6	3108.7	2923.3	2824.8	2785.1	2750.7
45°	3452.5	3475.6	3460.5	3468.1	3444.0	3338.4	3125.7	3012.9	2971.9	2929.9
47.5°	3519.0	3543.6	3567.6	3612.4	3653.5	3575.6	3343.1	3216.7	3173.3	3130.4
50°	3511.5	3536.5	3606.3	3701.6	3828.9	3803.0	3572.3	3433.7	3393.6	3344.5
52.5°	3451.1	3479.4	3569.0	3727.5	3930.3	3973.2	3805.8	3657.7	3620.0	3561.5
55°	3292.6	3309.6	3444.0	3668.5	3954.4	4092.1	4034.6	3896.4	3858.6	3777.0
57.5°	2998.8	3023.3	3219.1	3509.6	3894.0	4172.7	4235.5	4147.3	4111.0	3993.5
60°	2615.3	2654.5	2878.5	3242.6	3740.2	4172.3	4418.0	4394.0	4363.8	4206.7
62.5°	2181.4	2226.7	2442.2	2865.3	3471.4	4053.9	4532.2	4600.5	4585.0	4403.4
65°	1675.3	1706.5	1921.1	2377.2	3053.0	3799.7	4545.4	4741.6	4744.4	4552.9
67.5°	1115.5	1205.1	1391.4	1783.8	2492.7	3384.1	4429.3	4764.7	4792.0	4604.3
70°	544.3	662.2	844.7	1159.3	1783.8	2746.9	4126.1	4575.1	4635.9	4454.3
72.5°	225.9	264.1	363.6	572.1	1024.0	1853.6	3516.7	4061.0	4173.7	3946.8
75°	152.3	165.1	208.0	293.4	466.5	914.1	2536.1	3028.0	3209.6	2980.9
77.5°	117.4	125.5	151.4	205.2	277.3	345.7	1357.4	1824.8	1918.7	1776.3
80°	92.4	98.6	113.2	149.5	196.7	184.9	462.7	826.8	881.1	739.1
82.5°	80.2	82.5	81.1	101.4	130.6	108.0	151.9	305.2	336.8	244.3
85°	58.0	64.6	67.4	62.7	69.3	54.7	62.3	108.0	118.9	106.1
87.5°	23.6	34.9	42.9	40.6	25.5	15.6	19.3	31.6	36.3	39.6
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°
995.7	0°	995.7	995.7	995.7	995.7	995.7	995.7	995.7	995.7	995.7	995.7
996.1	2.5°	996.6	999.9	1002.3	1005.1	1007.0	1009.8	1015.5	1018.8	1019.3	1021.6
1003.7	5°	1005.6	1010.3	1015.5	1023.0	1031.5	1038.6	1049.4	1057.0	1059.8	1062.2
1022.1	7.5°	1024.9	1031.5	1040.9	1054.2	1066.4	1075.8	1089.1	1098.0	1107.0	1110.3
1051.3	10°	1053.7	1063.1	1076.8	1094.7	1107.9	1120.2	1133.9	1141.4	1150.4	1154.1
1086.2	12.5°	1089.5	1099.4	1117.4	1142.4	1154.6	1163.1	1167.8	1165.9	1167.8	1171.1
1128.2	15°	1130.6	1141.4	1161.7	1188.6	1197.1	1189.5	1179.1	1169.7	1168.3	1169.2
1179.1	17.5°	1179.1	1187.2	1210.7	1233.4	1227.3	1196.1	1173.5	1158.4	1150.8	1148.5
1244.2	20°	1247.1	1247.1	1266.4	1280.5	1239.5	1186.7	1151.3	1126.8	1111.2	1104.6
1332.9	22.5°	1329.6	1322.1	1334.3	1324.4	1237.2	1160.3	1111.2	1068.8	1045.2	1035.8
1456.9	25°	1434.3	1425.3	1422.0	1360.7	1220.2	1118.3	1038.6	987.2	966.4	961.2
1635.7	27.5°	1592.3	1569.7	1526.8	1380.5	1189.0	1052.3	953.7	906.1	894.3	894.7
1865.4	30°	1802.7	1757.4	1652.2	1383.8	1138.1	958.9	866.9	832.9	827.3	829.6
2058.3	32.5°	1997.5	1954.5	1780.5	1368.7	1059.8	867.4	789.1	766.4	758.0	760.8
2205.5	35°	2150.3	2138.5	1899.4	1347.5	963.6	781.5	719.3	699.9	683.4	679.7
2344.1	37.5°	2294.6	2289.9	1988.5	1317.8	868.3	720.7	663.1	637.7	613.6	600.4
2497.4	40°	2453.1	2448.4	2047.0	1272.1	783.9	667.9	612.7	579.2	549.5	525.4
2671.0	42.5°	2631.4	2603.5	2074.8	1206.5	712.2	623.1	571.6	526.4	487.2	465.1
2867.2	45°	2826.2	2763.4	2074.3	1123.0	651.8	582.0	527.8	463.6	427.3	406.6
3068.6	47.5°	3032.8	2916.3	2048.9	1030.6	593.3	536.7	459.9	410.8	386.8	374.0
3287.4	50°	3245.9	3059.2	2005.5	924.4	533.4	485.3	417.4	383.9	365.5	353.7
3504.4	52.5°	3446.4	3188.9	1953.1	804.2	472.6	435.3	398.6	372.6	353.3	340.1
3714.8	55°	3632.7	3300.7	1879.1	681.1	423.1	401.9	389.6	367.9	345.7	330.2
3928.4	57.5°	3798.3	3373.3	1751.3	565.5	387.7	378.7	380.2	359.9	334.4	321.2
4138.8	60°	3936.0	3426.6	1562.1	458.5	358.9	356.1	365.5	344.8	315.1	300.0
4316.6	62.5°	4018.5	3425.6	1330.1	375.4	334.4	335.3	346.2	325.9	295.7	281.6
4409.5	65°	4011.4	3341.7	1075.4	321.2	310.8	311.8	325.9	305.2	279.7	271.2
4362.8	67.5°	3869.5	3137.0	824.9	285.8	284.9	289.1	305.6	291.0	269.8	268.8
4084.5	70°	3485.1	2712.0	594.3	257.5	258.0	264.1	285.8	282.1	264.6	266.5
3434.1	72.5°	2794.6	2067.7	399.0	227.8	228.3	238.2	267.0	275.0	259.4	284.4
2436.6	75°	1861.2	1289.5	256.6	196.2	196.7	209.4	250.4	261.3	245.3	283.5
1267.8	77.5°	894.3	579.7	185.8	165.1	165.1	176.9	216.5	233.9	208.9	220.3
407.5	80°	308.9	217.9	146.2	133.0	130.2	138.2	182.5	202.8	180.2	166.0
133.0	82.5°	121.7	113.2	117.4	103.3	93.9	99.0	142.0	167.4	132.5	119.8
75.0	85°	69.8	73.6	83.0	68.4	54.2	60.8	104.2	120.3	100.0	88.2
24.5	87.5°	18.9	25.9	38.2	35.4	24.5	25.9	49.5	66.5	57.5	44.3
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°
995.7
1021.1
1061.7
1110.8
1156.0
1172.1
1172.5
1151.8
1103.2
1034.3
962.2
896.1
837.7
764.6
682.5
600.9
527.8
466.5
405.6
371.2
349.5
334.4
324.0
312.7
293.4
277.3
270.7
270.3
266.0
288.2
285.8
201.9
155.6
119.3
90.1
45.8
0.0

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