

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: P939465

Luminaire Tested: **GALN-SB2A-827-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2A-827-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7729 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

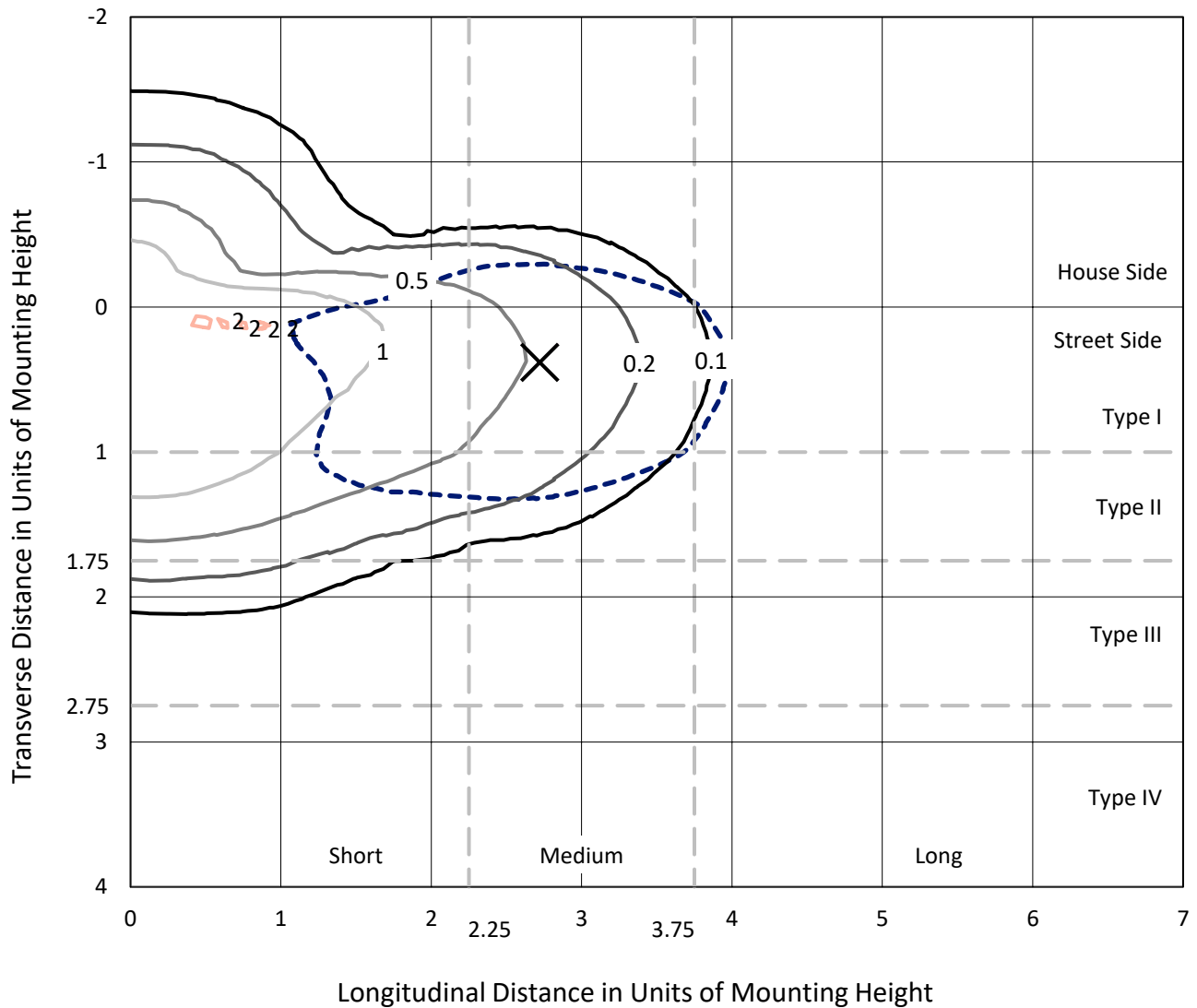
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

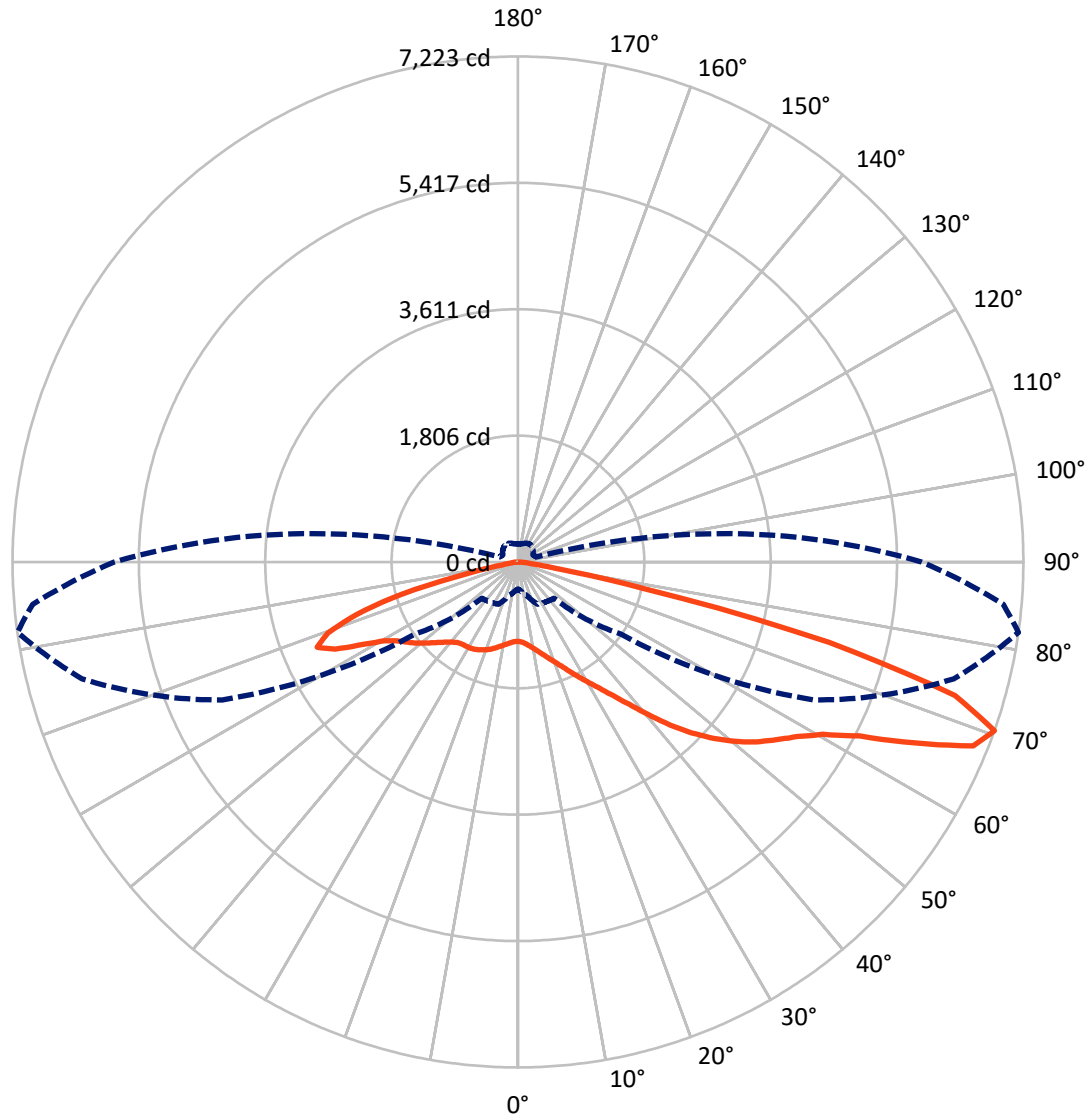
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1905.4	0.0	1905.4
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	5823.6	0.0	5823.6
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	7729.0	0.0	7729.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	1.4
10°-20°	307.4	4.0
20°-30°	514.2	6.7
30°-40°	803.4	10.4
40°-50°	1279.5	16.6
50°-60°	1780.5	23.0
60°-70°	1862.5	24.1
70°-80°	973.4	12.6
80°-90°	101.1	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°	7729.0	100.0
0°-180°	7729.0	100.0

**Coefficient of Utilization**



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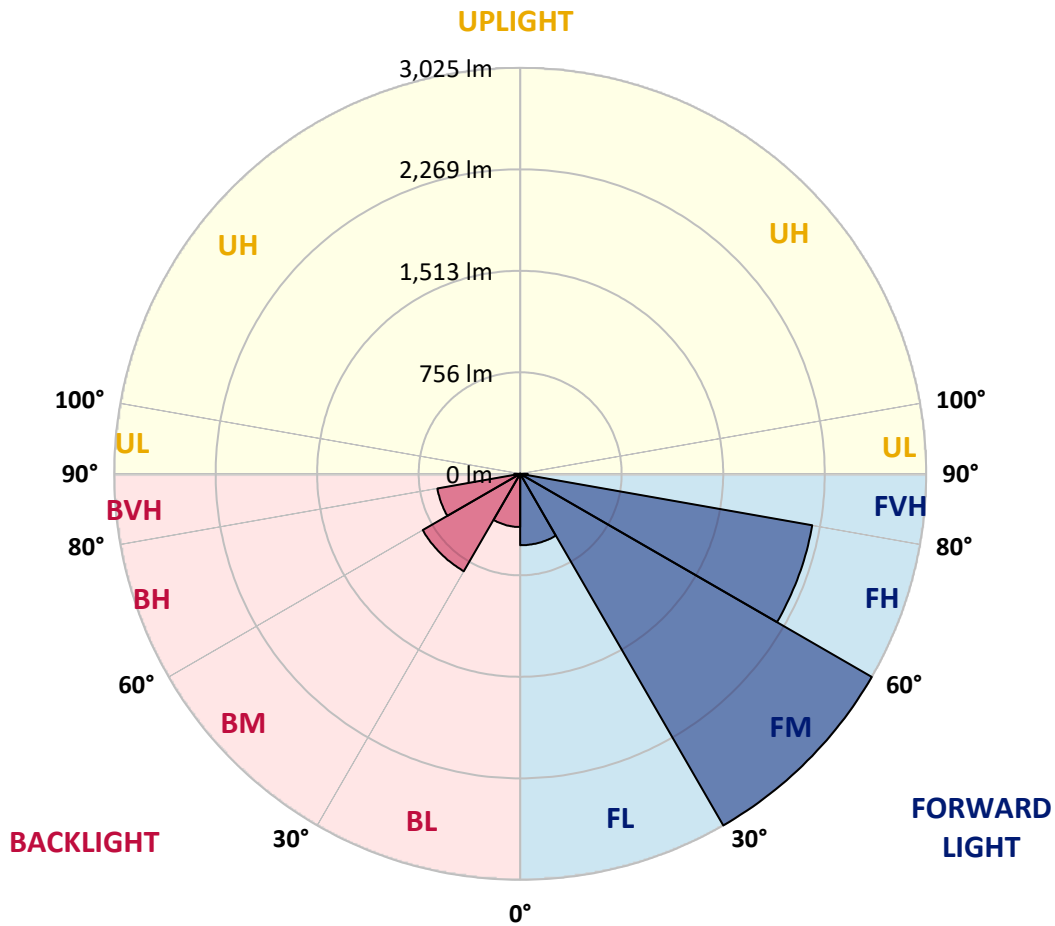
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.2	6.9			
FM (30°-60°)	3025.1	39.1			
FH (60°-80°)	2209.7	28.6			G2/5000
FVH (80°-90°)	56.6	0.7			G1/100
BL (0°-30°)	396.4	5.1	B1/500		
BM (30°-60°)	838.3	10.8	B1/1000		
BH (60°-80°)	626.2	8.1	B2/1000		G2/1000
BVH (80°-90°)	44.5	0.6			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°	82°
0°	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2
2.5°	1160.2	1166.8	1164.7	1162.7	1162.7	1159.8	1159.4	1155.3	1152.0	1146.7
5°	1175.0	1182.0	1181.2	1182.8	1188.1	1189.4	1190.6	1188.1	1181.6	1175.0
7.5°	1161.9	1169.7	1172.1	1182.0	1198.4	1213.1	1224.2	1228.7	1222.6	1213.1
10°	1117.6	1126.2	1134.8	1158.2	1187.3	1222.2	1251.7	1269.3	1268.1	1259.1
12.5°	1027.8	1036.8	1055.2	1100.8	1154.1	1215.6	1270.6	1307.5	1320.2	1313.6
15°	956.0	963.8	977.7	1024.5	1093.8	1187.3	1277.5	1349.3	1381.7	1378.0
17.5°	953.9	957.2	965.8	988.0	1041.3	1143.0	1270.1	1390.3	1452.2	1451.8
20°	990.0	991.3	996.2	1000.7	1031.0	1109.4	1251.3	1424.4	1531.4	1531.4
22.5°	1040.1	1039.3	1044.2	1040.1	1054.8	1106.5	1239.4	1454.3	1619.6	1626.1
25°	1115.1	1111.0	1109.8	1100.4	1103.2	1133.2	1252.5	1488.3	1724.2	1737.7
27.5°	1215.2	1208.6	1204.1	1182.4	1175.0	1188.1	1292.7	1529.3	1840.6	1864.0
30°	1345.6	1333.7	1327.2	1289.4	1262.8	1264.8	1353.4	1583.9	1962.4	2000.2
32.5°	1523.6	1505.1	1487.5	1425.6	1376.8	1360.8	1431.7	1659.4	2094.5	2154.8
35°	1722.9	1708.2	1689.3	1593.7	1518.7	1481.8	1537.5	1764.8	2249.1	2344.7
37.5°	1914.9	1902.1	1911.2	1782.4	1685.6	1631.9	1676.2	1906.2	2439.8	2580.9
40°	2113.4	2103.5	2104.7	1981.7	1868.9	1808.6	1844.3	2083.8	2658.4	2861.8
42.5°	2329.1	2321.7	2297.1	2188.0	2061.3	2005.1	2037.9	2288.9	2893.0	3181.7
45°	2570.6	2566.1	2543.2	2418.1	2272.9	2209.7	2254.0	2515.3	3128.8	3482.8
47.5°	2779.4	2783.1	2780.2	2674.8	2524.3	2431.6	2484.5	2751.5	3348.2	3765.7
50°	2879.9	2899.2	2927.5	2894.6	2801.1	2706.8	2717.1	2979.5	3557.4	4031.1
52.5°	2827.4	2863.9	2941.0	2993.5	3029.6	3009.9	2982.4	3205.9	3754.3	4270.6
55°	2631.8	2683.0	2811.0	2937.7	3121.9	3265.0	3301.1	3456.9	3946.2	4481.4
57.5°	2275.4	2358.6	2473.4	2729.8	3039.8	3388.4	3672.6	3805.1	4149.6	4706.6
60°	1664.3	1775.8	1918.6	2300.0	2752.7	3322.4	3988.8	4339.9	4438.8	4998.2
62.5°	1065.1	1134.0	1265.2	1624.5	2144.9	2984.1	4085.6	5008.4	4928.9	5476.4
65°	729.2	773.5	893.7	1095.4	1386.6	2221.2	3826.4	5509.6	5707.3	6234.3
67.5°	529.9	563.5	666.0	842.8	903.5	1314.4	2969.3	5486.6	6463.9	7015.1
70°	386.3	410.1	496.2	666.0	695.2	731.2	1798.8	4663.9	6447.5	7222.7
72.5°	286.3	302.7	360.5	516.8	562.7	493.8	890.4	3389.7	5540.3	6532.8
75°	207.1	219.4	262.1	395.4	450.3	376.1	444.2	1980.9	3864.6	4595.4
77.5°	158.3	167.7	195.6	289.5	360.5	282.2	275.6	911.3	1832.4	1841.4
80°	127.1	133.3	148.5	203.8	276.4	211.2	179.6	367.9	579.1	490.1
82.5°	93.5	103.8	125.5	143.1	197.7	145.6	109.5	185.8	220.2	189.5
85°	53.3	60.3	75.9	102.5	126.3	89.0	62.7	82.4	102.5	84.1
87.5°	18.9	24.6	26.7	40.2	55.0	36.9	24.2	23.8	33.6	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°
1133.2	0°	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2
1145.5	2.5°	1141.4	1139.3	1131.1	1120.0	1108.6	1097.5	1093.8	1086.0	1080.7	1077.8
1172.1	5°	1164.3	1157.8	1138.5	1113.9	1088.1	1060.2	1040.5	1022.4	1009.3	997.0
1208.6	7.5°	1197.1	1185.7	1152.4	1109.4	1063.4	1017.1	982.7	956.4	938.8	927.3
1251.3	10°	1235.3	1217.7	1166.8	1102.4	1031.5	965.0	924.4	901.9	890.8	884.6
1300.1	12.5°	1279.2	1254.2	1181.6	1086.4	982.7	906.8	878.9	872.3	872.7	873.2
1361.6	15°	1333.3	1298.4	1193.5	1051.6	919.1	862.1	857.2	867.8	878.9	884.2
1431.3	17.5°	1394.4	1345.2	1195.5	994.1	856.7	833.4	849.0	871.9	888.7	896.1
1509.3	20°	1460.0	1392.8	1180.7	912.9	805.5	810.0	837.9	867.4	885.9	895.3
1598.2	22.5°	1535.1	1443.6	1145.5	827.6	763.6	784.6	817.4	846.1	865.4	874.8
1702.8	25°	1620.8	1500.6	1090.1	755.9	727.6	755.9	788.7	812.5	828.0	836.6
1819.7	27.5°	1716.0	1560.1	1016.3	698.8	696.0	726.3	753.4	771.9	780.1	786.6
1944.0	30°	1811.5	1614.2	926.9	655.8	668.5	697.2	716.5	724.7	727.1	728.4
2082.6	32.5°	1914.9	1661.0	833.0	620.1	642.3	668.9	680.4	684.1	672.6	664.8
2250.8	35°	2039.9	1711.0	741.1	591.8	616.4	639.4	643.1	639.8	626.3	610.3
2461.6	37.5°	2194.6	1773.4	667.7	571.7	592.2	607.4	602.9	602.1	603.3	584.4
2715.0	40°	2384.0	1854.6	614.0	556.1	572.5	575.8	563.1	570.1	576.2	547.5
2993.1	42.5°	2594.4	1952.6	579.9	545.5	556.1	548.3	528.6	536.4	535.6	497.9
3272.4	45°	2808.9	2059.2	568.0	537.7	541.0	525.4	503.6	505.7	488.5	454.4
3540.2	47.5°	3022.2	2173.6	575.4	531.1	522.1	504.5	487.6	478.6	453.2	427.8
3796.9	50°	3231.4	2293.8	602.5	518.0	496.2	486.0	473.7	457.7	430.6	408.9
4039.7	52.5°	3425.3	2414.8	632.8	496.2	463.8	470.0	462.2	443.8	417.1	394.9
4269.4	55°	3609.1	2535.8	644.7	466.3	433.5	456.1	451.5	417.5	385.5	367.5
4509.7	57.5°	3809.2	2681.4	631.6	428.2	408.9	440.1	422.8	385.1	366.6	353.1
4822.6	60°	4086.5	2909.8	603.3	381.0	385.5	416.3	386.7	371.2	351.1	335.9
5291.8	62.5°	4547.0	3335.9	557.8	334.2	358.0	381.0	369.5	353.9	333.4	318.7
6094.0	65°	5227.8	3928.2	472.1	297.7	327.3	346.6	351.1	335.5	314.2	298.6
6797.0	67.5°	5802.0	4299.7	357.2	267.4	295.7	318.7	331.4	316.2	293.6	278.5
6961.4	70°	5770.4	4029.9	272.7	237.5	267.8	291.2	307.6	295.7	271.5	257.1
6323.3	72.5°	5125.3	3371.2	220.6	207.1	239.5	262.5	282.2	273.1	248.5	234.6
4632.3	75°	3765.3	2393.1	176.4	176.4	204.2	232.5	254.3	248.5	226.0	216.1
1944.8	77.5°	1587.2	1004.0	138.2	146.4	169.8	199.7	226.8	228.8	209.2	221.5
514.3	80°	422.0	276.8	105.4	115.2	133.3	164.9	197.3	196.4	175.1	163.6
191.1	82.5°	160.8	109.1	75.1	81.2	96.4	126.3	156.3	161.2	139.9	121.0
75.1	85°	61.9	46.8	46.3	48.8	56.2	83.7	118.1	122.2	105.4	89.4
20.9	87.5°	16.0	13.9	17.2	16.4	25.8	44.7	67.7	70.1	64.4	37.3
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°
1133.2
1081.1
1001.9
929.7
886.3
874.0
883.8
897.8
897.8
877.3
839.1
789.1
731.2
667.3
611.1
585.7
548.3
497.5
455.6
427.8
407.3
395.4
365.8
351.9
335.1
318.7
299.4
278.9
258.4
234.6
213.3
201.0
152.2
121.0
92.3
53.3
0.0

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