

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: P939479

Luminaire Tested: **GALN-SB2A-830-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2A-830-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

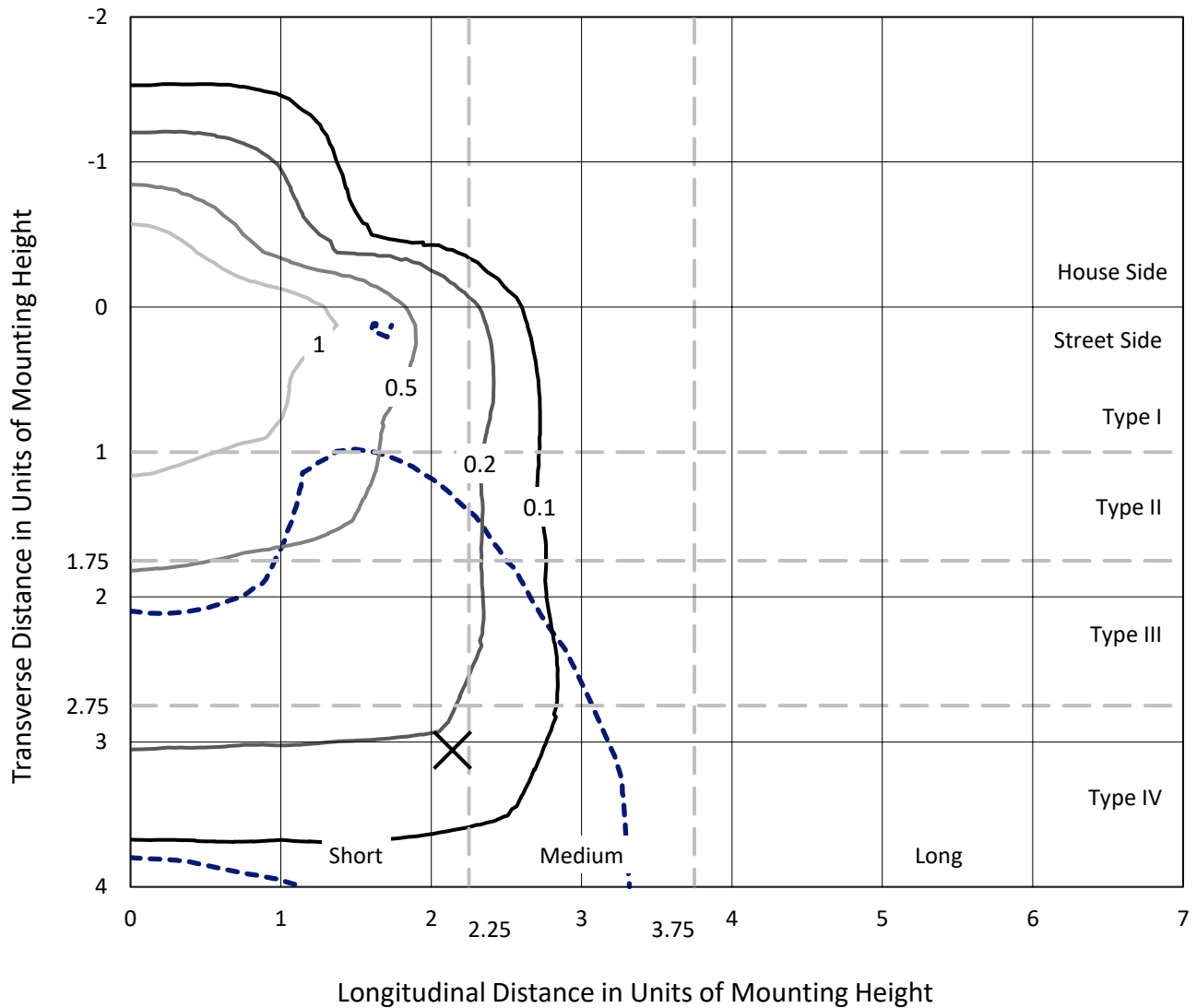
Lumens per Lamp: N/A  
Luminaire Lumens: 7967 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

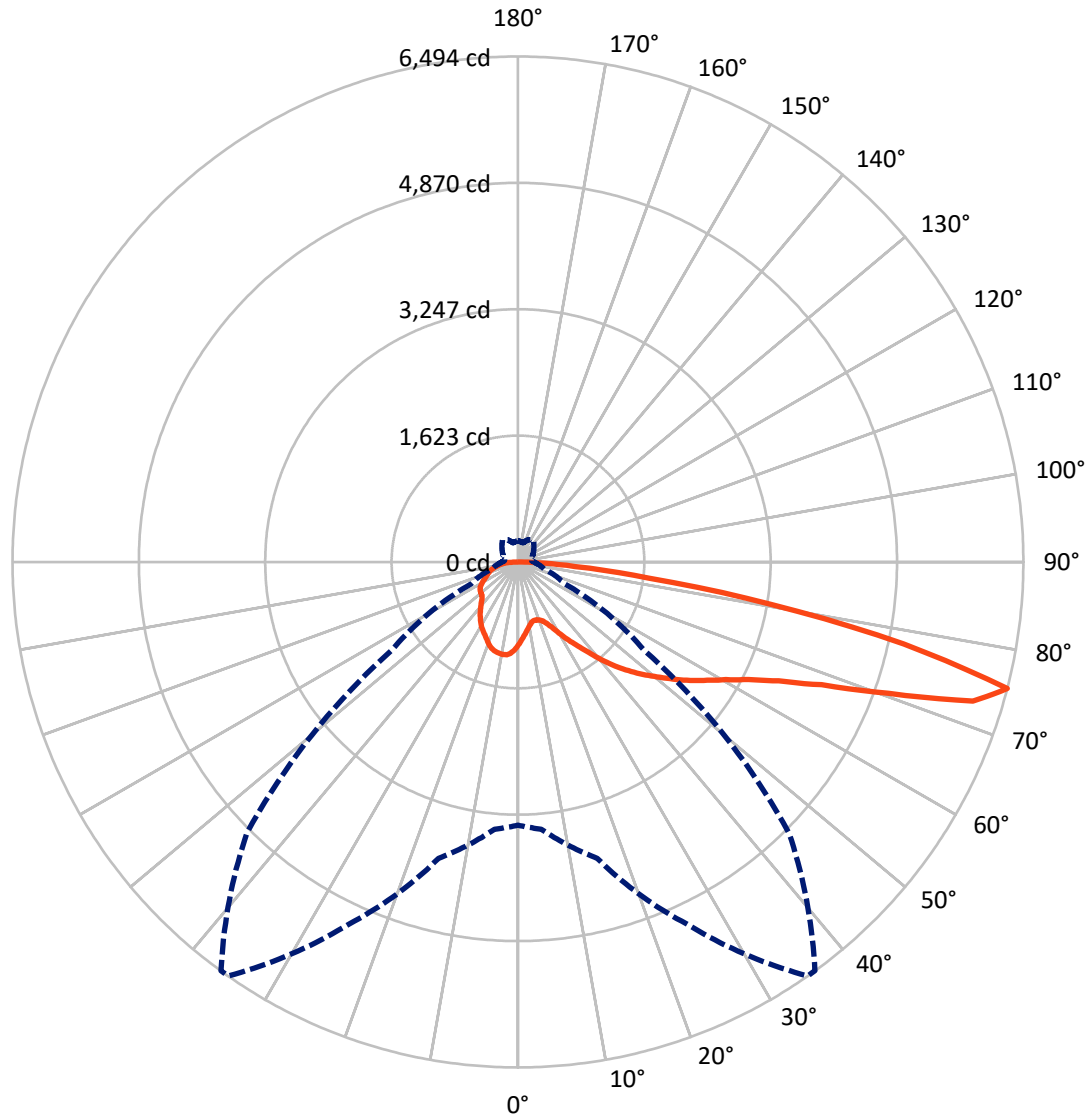
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1895.9	0.0	1895.9
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	6071.0	0.0	6071.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	7967.0	0.0	7967.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.5	1.3
10°-20°	289.9	3.6
20°-30°	486.9	6.1
30°-40°	756.7	9.5
40°-50°	1123.1	14.1
50°-60°	1550.5	19.5
60°-70°	1881.1	23.6
70°-80°	1554.6	19.5
80°-90°	223.6	2.8
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°	7967.0	100.0
0°-180°	7967.0	100.0

**Coefficient of Utilization**



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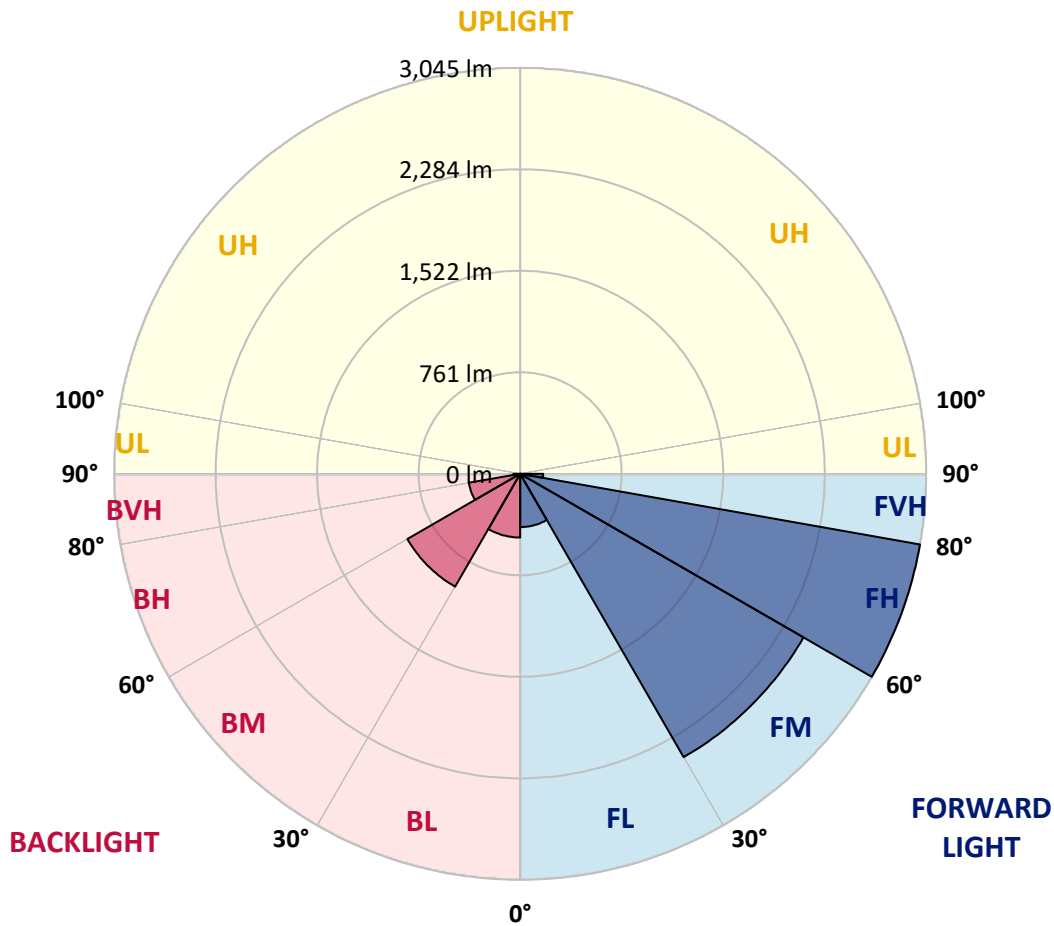
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.5	5.0			
FM (30°-60°)	2453.4	30.8			
FH (60°-80°)	3044.9	38.2			G2/5000
FVH (80°-90°)	173.2	2.2			G2/225
BL (0°-30°)	477.8	6.0	B1/500		
BM (30°-60°)	976.9	12.3	B1/1000		
BH (60°-80°)	390.9	4.9	B1/500		G1/500
BVH (80°-90°)	50.3	0.6			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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7
2.5°	979.0	985.0	987.6	986.3	992.7	991.9	1000.9	1012.1	1027.6	1042.7
5°	903.6	910.1	915.7	920.8	933.3	937.2	951.4	972.9	1001.4	1030.2
7.5°	833.4	839.0	847.6	857.1	878.2	882.1	905.7	939.3	979.0	1021.2
10°	776.1	781.7	790.8	801.5	827.8	832.5	862.7	907.5	959.2	1012.6
12.5°	751.6	753.3	758.4	769.2	792.0	795.1	828.2	879.5	939.8	1006.1
15°	750.3	753.7	754.1	759.7	778.7	780.0	810.6	861.4	927.7	1004.8
17.5°	763.2	765.8	761.9	765.3	781.3	783.4	807.5	852.8	923.8	1010.4
20°	797.6	799.8	788.2	783.4	795.1	796.8	820.5	858.4	927.7	1022.0
22.5°	870.9	872.2	843.7	824.3	825.2	826.1	846.7	881.2	942.8	1043.1
25°	985.0	984.1	938.9	901.4	879.9	875.2	888.9	918.2	968.2	1071.1
27.5°	1118.5	1112.0	1066.8	1010.8	963.9	957.0	954.0	966.5	1004.4	1108.2
30°	1269.3	1263.2	1214.6	1141.3	1076.3	1065.1	1036.7	1030.2	1058.2	1158.6
32.5°	1434.6	1430.8	1372.6	1283.9	1196.9	1184.0	1136.2	1118.9	1140.9	1234.8
35°	1573.3	1569.9	1521.6	1430.3	1323.9	1308.0	1259.3	1240.0	1251.2	1332.6
37.5°	1698.7	1696.9	1655.6	1583.7	1473.8	1454.4	1399.8	1393.3	1391.1	1461.3
40°	1814.9	1810.6	1767.6	1729.7	1648.3	1630.6	1582.4	1576.8	1560.4	1619.8
42.5°	1943.7	1932.5	1870.1	1852.4	1830.4	1815.8	1786.9	1787.8	1751.6	1798.6
45°	2048.8	2042.3	1978.2	1967.8	1991.5	1985.5	2010.5	2016.9	1946.7	1985.9
47.5°	2161.6	2155.6	2101.3	2094.0	2158.2	2159.9	2248.2	2250.4	2137.1	2180.6
50°	2300.8	2292.1	2238.3	2247.4	2319.3	2325.7	2487.2	2472.6	2312.4	2378.3
52.5°	2392.5	2397.7	2386.0	2400.7	2498.9	2504.9	2722.4	2684.9	2486.0	2573.4
55°	2460.1	2470.5	2506.6	2540.2	2688.4	2694.4	2944.2	2886.9	2629.8	2754.3
57.5°	2547.1	2532.5	2600.1	2665.6	2868.4	2884.3	3160.0	3081.6	2757.3	2910.2
60°	2672.0	2661.7	2714.2	2811.1	3070.0	3095.4	3388.3	3256.9	2850.8	3033.8
62.5°	2925.3	2899.4	2907.6	2993.3	3324.1	3357.7	3645.8	3409.8	2897.3	3082.0
65°	3303.8	3259.5	3218.1	3277.6	3682.0	3715.2	3936.5	3530.0	2880.0	2988.6
67.5°	3780.6	3736.7	3685.9	3741.9	4209.2	4235.4	4295.3	3597.6	2744.4	2628.5
70°	4173.8	4157.5	4218.2	4448.6	5051.2	5052.0	4755.3	3541.6	2372.7	1863.6
72.5°	4121.7	4111.8	4431.8	5144.2	6112.4	6089.6	5190.7	3117.8	1598.3	840.7
75°	3381.4	3445.5	3941.3	5131.7	6493.5	6490.5	4924.1	1982.0	661.1	348.4
77.5°	1813.2	1914.9	2558.7	3788.8	5069.2	5145.5	3461.9	693.4	283.8	223.1
80°	591.3	680.1	1019.9	1929.1	3293.9	3279.7	1483.7	272.2	194.2	158.1
82.5°	251.1	261.4	455.7	910.9	1690.5	1664.2	472.5	156.3	136.5	108.1
85°	98.2	109.8	201.1	421.2	732.2	716.2	170.6	77.5	87.4	70.6
87.5°	32.3	39.2	71.9	144.3	227.8	219.7	41.8	26.7	37.9	32.3
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°
1061.7	0°	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7
1064.7	2.5°	1070.7	1077.6	1085.8	1097.8	1108.2	1116.8	1125.8	1131.4	1133.6	1140.0
1066.4	5°	1078.5	1093.5	1113.8	1133.6	1153.0	1164.6	1174.9	1180.1	1184.8	1188.3
1071.1	7.5°	1091.4	1110.8	1142.6	1168.5	1184.8	1194.3	1201.2	1199.5	1201.2	1202.1
1076.3	10°	1102.6	1129.7	1167.6	1192.2	1204.6	1205.1	1203.4	1197.3	1194.3	1194.7
1084.1	12.5°	1115.9	1146.1	1187.0	1207.7	1211.1	1201.6	1194.3	1184.0	1180.1	1178.4
1095.7	15°	1134.0	1168.5	1208.1	1215.8	1207.2	1195.2	1182.7	1165.9	1157.3	1150.4
1115.5	17.5°	1156.0	1193.9	1224.5	1218.9	1200.3	1180.5	1160.3	1134.9	1117.2	1109.9
1142.6	20°	1186.6	1220.6	1236.9	1212.4	1184.4	1154.3	1119.8	1088.8	1072.4	1065.1
1177.1	22.5°	1223.6	1256.3	1249.0	1201.2	1161.6	1113.3	1070.3	1047.4	1039.3	1034.1
1221.4	25°	1268.0	1296.0	1257.6	1184.8	1124.1	1059.1	1025.9	1018.6	1014.7	1010.8
1275.7	27.5°	1325.7	1340.7	1264.1	1160.7	1065.5	1001.4	989.3	990.6	989.3	982.8
1351.1	30°	1401.9	1398.9	1270.1	1121.5	998.3	949.2	950.1	955.7	956.6	952.3
1456.2	32.5°	1502.3	1471.7	1273.1	1070.7	934.2	903.6	904.5	910.5	914.8	907.5
1593.6	35°	1623.7	1556.5	1268.4	1007.0	884.6	860.1	853.6	855.4	856.6	849.8
1760.2	37.5°	1765.4	1651.7	1247.3	936.3	843.7	817.5	803.7	792.0	785.2	778.7
1948.9	40°	1920.9	1755.5	1208.5	867.4	798.1	772.2	751.6	729.6	706.3	697.7
2148.7	42.5°	2083.7	1862.3	1161.6	801.5	745.5	724.4	702.5	670.6	635.7	618.0
2356.3	45°	2252.5	1971.7	1115.5	736.5	691.7	682.6	657.2	618.9	581.0	558.6
2564.3	47.5°	2417.9	2075.1	1047.9	671.0	641.3	651.2	631.4	596.1	553.9	518.6
2770.6	50°	2576.0	2172.0	937.2	604.7	600.4	641.7	622.8	572.0	523.7	478.5
2973.1	52.5°	2732.7	2250.4	795.5	544.4	578.4	639.1	611.6	555.6	496.6	449.2
3163.4	55°	2865.8	2290.9	659.0	492.7	546.5	617.2	598.2	536.2	458.3	407.9
3293.9	57.5°	2941.6	2258.1	545.3	441.9	502.6	581.0	575.4	494.9	412.6	373.8
3319.3	60°	2908.9	2125.5	452.2	397.5	460.8	541.8	535.8	453.9	377.7	341.1
3183.2	62.5°	2728.4	1872.7	378.6	358.8	422.9	501.8	496.2	422.5	351.0	315.7
2821.9	65°	2364.9	1523.4	321.3	326.5	384.6	453.5	461.7	396.2	329.9	295.5
2183.2	67.5°	1803.7	1103.4	276.5	298.5	347.1	406.1	429.8	377.3	312.3	279.5
1263.2	70°	1028.1	626.7	238.6	271.3	314.0	362.2	405.3	362.2	293.3	266.2
473.3	72.5°	389.8	287.7	206.3	244.2	282.1	325.2	378.1	338.5	271.3	251.1
244.6	75°	208.0	175.3	173.6	212.3	245.5	289.0	344.1	315.3	255.0	265.3
169.3	77.5°	141.7	124.0	145.1	181.8	205.4	248.9	307.9	280.0	220.9	220.1
117.1	80°	98.2	87.9	118.0	146.4	158.9	209.3	268.8	240.3	180.0	168.0
72.4	82.5°	59.0	57.3	88.3	109.4	112.4	161.5	222.7	201.6	147.3	128.3
43.1	85°	32.3	34.0	56.4	64.2	65.5	112.8	174.4	155.9	113.3	95.2
15.5	87.5°	9.0	11.6	20.7	25.4	31.4	58.6	103.8	92.6	56.9	39.6
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>
1061.7
1139.6
1189.1
1203.4
1195.6
1177.5
1152.5
1110.3
1064.2
1035.0
1010.8
984.1
954.4
910.9
854.5
783.0
701.6
620.2
556.9
514.7
474.6
444.0
403.6
368.7
335.9
310.1
289.9
274.4
262.7
247.6
273.9
202.9
160.6
129.2
96.0
39.6
0.0

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