

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: P939129

Luminaire Tested: **GALN-SB1C-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939129
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-SB1C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6439 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

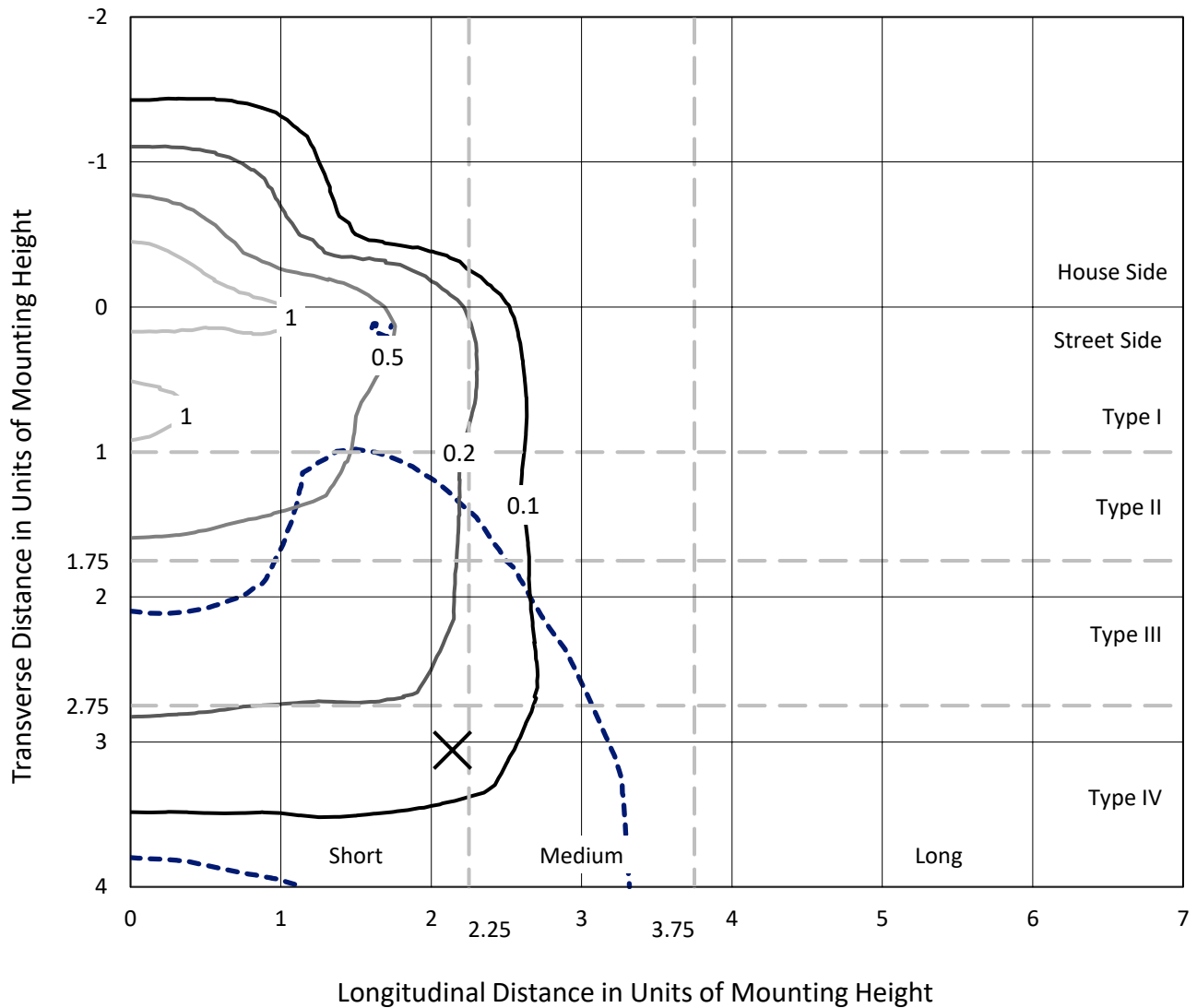
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

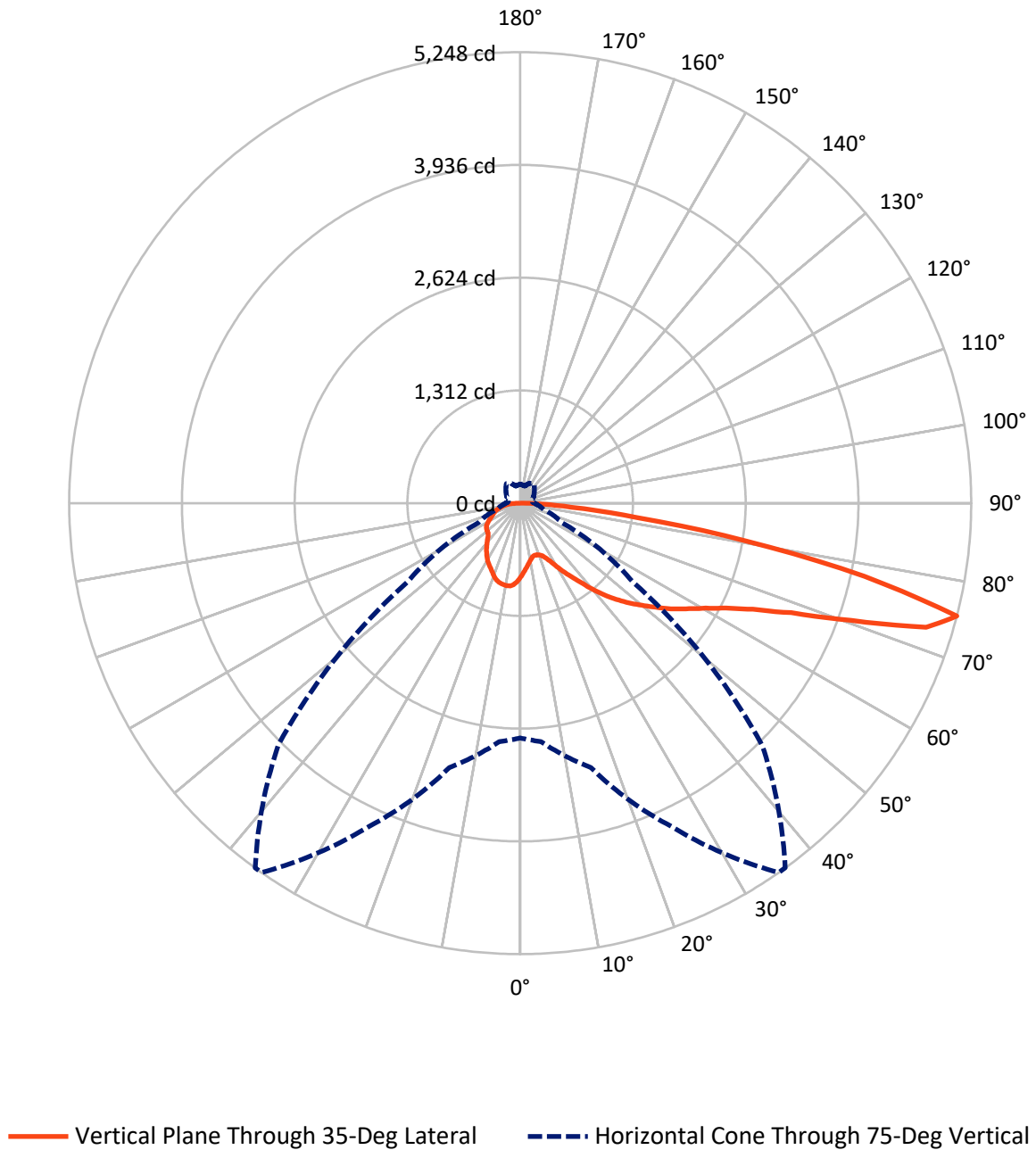
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	1532.3	0.0	1532.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4906.7	0.0	4906.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	6439.0	0.0	6439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	1.3
10°-20°	234.3	3.6
20°-30°	393.5	6.1
30°-40°	611.6	9.5
40°-50°	907.7	14.1
50°-60°	1253.1	19.5
60°-70°	1520.3	23.6
70°-80°	1256.5	19.5
80°-90°	180.7	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°	6439.0	100.0
0°-180°	6439.0	100.0

Coefficient of Utilization



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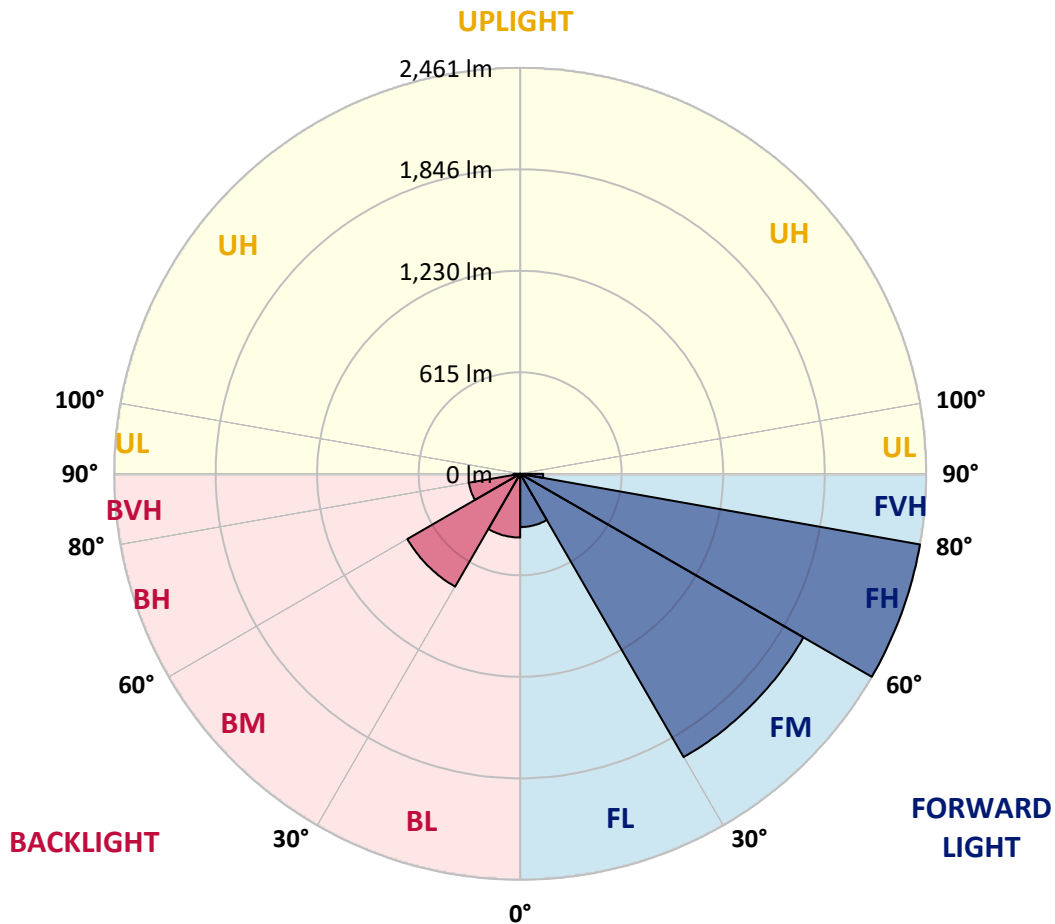
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	322.9	5.0			
FM (30°-60°)	1982.9	30.8			
FH (60°-80°)	2460.9	38.2			G2/5000
FVH (80°-90°)	140.0	2.2			G2/225
BL (0°-30°)	386.2	6.0	B1/500		
BM (30°-60°)	789.5	12.3	B1/1000		
BH (60°-80°)	315.9	4.9	B1/500		G1/500
BVH (80°-90°)	40.7	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°	858.0	858.0	858.0	858.0	858.0	858.0	858.0	858.0	858.0	858.0
2.5°	791.2	796.1	798.2	797.1	802.3	801.6	809.0	818.0	830.5	842.7
5°	730.3	735.5	740.0	744.2	754.3	757.4	768.9	786.3	809.3	832.6
7.5°	673.6	678.1	685.0	692.7	709.8	712.9	732.0	759.2	791.2	825.3
10°	627.3	631.8	639.1	647.8	669.0	672.9	697.2	733.4	775.2	818.4
12.5°	607.4	608.8	613.0	621.7	640.1	642.6	669.4	710.8	759.5	813.1
15°	606.4	609.2	609.5	614.0	629.3	630.4	655.1	696.2	749.8	812.1
17.5°	616.8	618.9	615.8	618.6	631.4	633.2	652.7	689.2	746.7	816.6
20°	644.7	646.4	637.0	633.2	642.6	644.0	663.1	693.7	749.8	826.0
22.5°	703.8	704.9	681.9	666.2	666.9	667.6	684.3	712.2	762.0	843.1
25°	796.1	795.4	758.8	728.6	711.1	707.3	718.5	742.1	782.5	865.7
27.5°	904.0	898.8	862.2	817.0	779.0	773.5	771.0	781.1	811.7	895.6
30°	1025.8	1020.9	981.6	922.4	869.9	860.8	837.9	832.6	855.3	936.4
32.5°	1159.5	1156.4	1109.4	1037.7	967.3	956.9	918.3	904.3	922.1	998.0
35°	1271.6	1268.8	1229.8	1156.0	1070.0	1057.1	1017.8	1002.1	1011.2	1077.0
37.5°	1372.9	1371.5	1338.1	1279.9	1191.2	1175.5	1131.3	1126.1	1124.3	1181.1
40°	1466.8	1463.4	1428.6	1397.9	1332.1	1317.9	1278.9	1274.4	1261.1	1309.2
42.5°	1570.9	1561.9	1511.4	1497.1	1479.4	1467.5	1444.2	1444.9	1415.7	1453.6
45°	1655.9	1650.6	1598.8	1590.4	1609.6	1604.7	1624.9	1630.1	1573.4	1605.0
47.5°	1747.1	1742.2	1698.3	1692.4	1744.3	1745.7	1817.0	1818.8	1727.2	1762.4
50°	1859.5	1852.5	1809.0	1816.3	1874.5	1879.7	2010.2	1998.4	1868.9	1922.1
52.5°	1933.6	1937.8	1928.4	1940.3	2019.6	2024.5	2200.3	2170.0	2009.2	2079.8
55°	1988.3	1996.6	2025.9	2053.0	2172.8	2177.6	2379.5	2333.2	2125.4	2226.0
57.5°	2058.6	2046.8	2101.4	2154.3	2318.3	2331.2	2553.9	2490.6	2228.5	2352.0
60°	2159.5	2151.2	2193.7	2272.0	2481.2	2501.7	2738.4	2632.3	2304.0	2451.9
62.5°	2364.2	2343.3	2350.0	2419.2	2686.6	2713.7	2946.6	2755.8	2341.6	2490.9
65°	2670.2	2634.3	2600.9	2649.0	2975.8	3002.6	3181.5	2852.9	2327.7	2415.4
67.5°	3055.5	3020.0	2978.9	3024.2	3401.9	3423.1	3471.5	2907.6	2218.0	2124.4
70°	3373.3	3360.1	3409.2	3595.4	4082.4	4083.1	3843.3	2862.3	1917.6	1506.2
72.5°	3331.2	3323.2	3581.8	4157.6	4940.1	4921.6	4195.2	2519.8	1291.8	679.5
75°	2732.8	2784.7	3185.4	4147.5	5248.1	5245.7	3979.7	1601.9	534.3	281.6
77.5°	1465.5	1547.6	2068.0	3062.1	4097.0	4158.6	2797.9	560.4	229.4	180.3
80°	477.9	549.6	824.3	1559.1	2662.2	2650.7	1199.2	220.0	157.0	127.7
82.5°	202.9	211.3	368.3	736.2	1366.3	1345.0	381.9	126.4	110.3	87.4
85°	79.4	88.8	162.6	340.4	591.8	578.9	137.8	62.7	70.7	57.1
87.5°	26.1	31.7	58.1	116.6	184.1	177.5	33.8	21.6	30.6	26.1
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°
858.0	0°	858.0	858.0	858.0	858.0	858.0	858.0	858.0	858.0	858.0	858.0
860.5	2.5°	865.4	870.9	877.5	887.3	895.6	902.6	909.9	914.4	916.2	921.4
861.9	5°	871.6	883.8	900.2	916.2	931.8	941.2	949.6	953.8	957.6	960.4
865.7	7.5°	882.1	897.7	923.5	944.4	957.6	965.3	970.8	969.4	970.8	971.5
869.9	10°	891.1	913.0	943.7	963.5	973.6	974.0	972.6	967.7	965.3	965.6
876.1	12.5°	901.9	926.3	959.3	976.0	978.8	971.2	965.3	956.9	953.8	952.4
885.5	15°	916.5	944.4	976.4	982.7	975.7	965.9	955.9	942.3	935.3	929.7
901.6	17.5°	934.3	964.9	989.6	985.1	970.1	954.1	937.8	917.2	902.9	897.0
923.5	20°	959.0	986.5	999.7	979.9	957.2	932.9	905.0	880.0	866.7	860.8
951.3	22.5°	988.9	1015.4	1009.5	970.8	938.8	899.8	865.0	846.6	839.9	835.8
987.2	25°	1024.8	1047.4	1016.4	957.6	908.5	856.0	829.1	823.2	820.1	817.0
1031.0	27.5°	1071.4	1083.6	1021.6	938.1	861.2	809.3	799.6	800.6	799.6	794.3
1092.0	30°	1133.0	1130.6	1026.5	906.4	806.9	767.2	767.9	772.4	773.1	769.6
1176.9	32.5°	1214.1	1189.4	1029.0	865.4	755.0	730.3	731.0	735.9	739.3	733.4
1287.9	35°	1312.3	1258.0	1025.1	813.8	715.0	695.1	689.9	691.3	692.3	686.8
1422.6	37.5°	1426.8	1334.9	1008.1	756.7	681.9	660.7	649.5	640.1	634.6	629.3
1575.1	40°	1552.5	1418.8	976.7	701.1	645.0	624.1	607.4	589.7	570.9	563.9
1736.6	42.5°	1684.1	1505.1	938.8	647.8	602.5	585.5	567.7	542.0	513.8	499.5
1904.4	45°	1820.5	1593.6	901.6	595.2	559.0	551.7	531.2	500.2	469.6	451.5
2072.5	47.5°	1954.2	1677.1	846.9	542.3	518.3	526.3	510.3	481.8	447.6	419.1
2239.3	50°	2081.9	1755.4	757.4	488.7	485.2	518.7	503.3	462.3	423.3	386.7
2402.9	52.5°	2208.6	1818.8	642.9	440.0	467.5	516.6	494.3	449.0	401.3	363.1
2556.7	55°	2316.2	1851.5	532.6	398.2	441.7	498.8	483.5	433.4	370.4	329.6
2662.2	57.5°	2377.5	1825.0	440.7	357.1	406.2	469.6	465.0	400.0	333.5	302.1
2682.7	60°	2351.0	1717.8	365.5	321.3	372.5	437.9	433.0	366.9	305.3	275.7
2572.7	62.5°	2205.1	1513.5	306.0	290.0	341.8	405.5	401.0	341.5	283.7	255.1
2280.7	65°	1911.4	1231.2	259.7	263.9	310.8	366.5	373.2	320.2	266.6	238.8
1764.5	67.5°	1457.8	891.8	223.5	241.2	280.6	328.2	347.4	304.9	252.4	225.9
1020.9	70°	830.9	506.5	192.8	219.3	253.8	292.7	327.6	292.7	237.0	215.1
382.6	72.5°	315.0	232.5	166.7	197.4	228.0	262.8	305.6	273.6	219.3	202.9
197.7	75°	168.1	141.7	140.3	171.6	198.4	233.6	278.1	254.8	206.1	214.4
136.8	77.5°	114.5	100.2	117.3	146.9	166.0	201.2	248.9	226.3	178.6	177.9
94.7	80°	79.4	71.0	95.4	118.4	128.4	169.2	217.2	194.2	145.5	135.8
58.5	82.5°	47.7	46.3	71.4	88.4	90.9	130.5	180.0	162.9	119.0	103.7
34.8	85°	26.1	27.5	45.6	51.9	52.9	91.2	141.0	126.0	91.5	76.9
12.5	87.5°	7.3	9.4	16.7	20.5	25.4	47.3	83.9	74.8	45.9	32.0
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>
858.0
921.0
961.1
972.6
966.3
951.7
931.5
897.4
860.1
836.5
817.0
795.4
771.4
736.2
690.6
632.8
567.0
501.2
450.1
416.0
383.6
358.9
326.2
298.0
271.5
250.6
234.3
221.7
212.3
200.2
221.4
164.0
129.8
104.4
77.6
32.0
0.0

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