

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: P940199

Luminaire Tested: **GALN-SB3A-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940199
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-SB3A-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8097 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

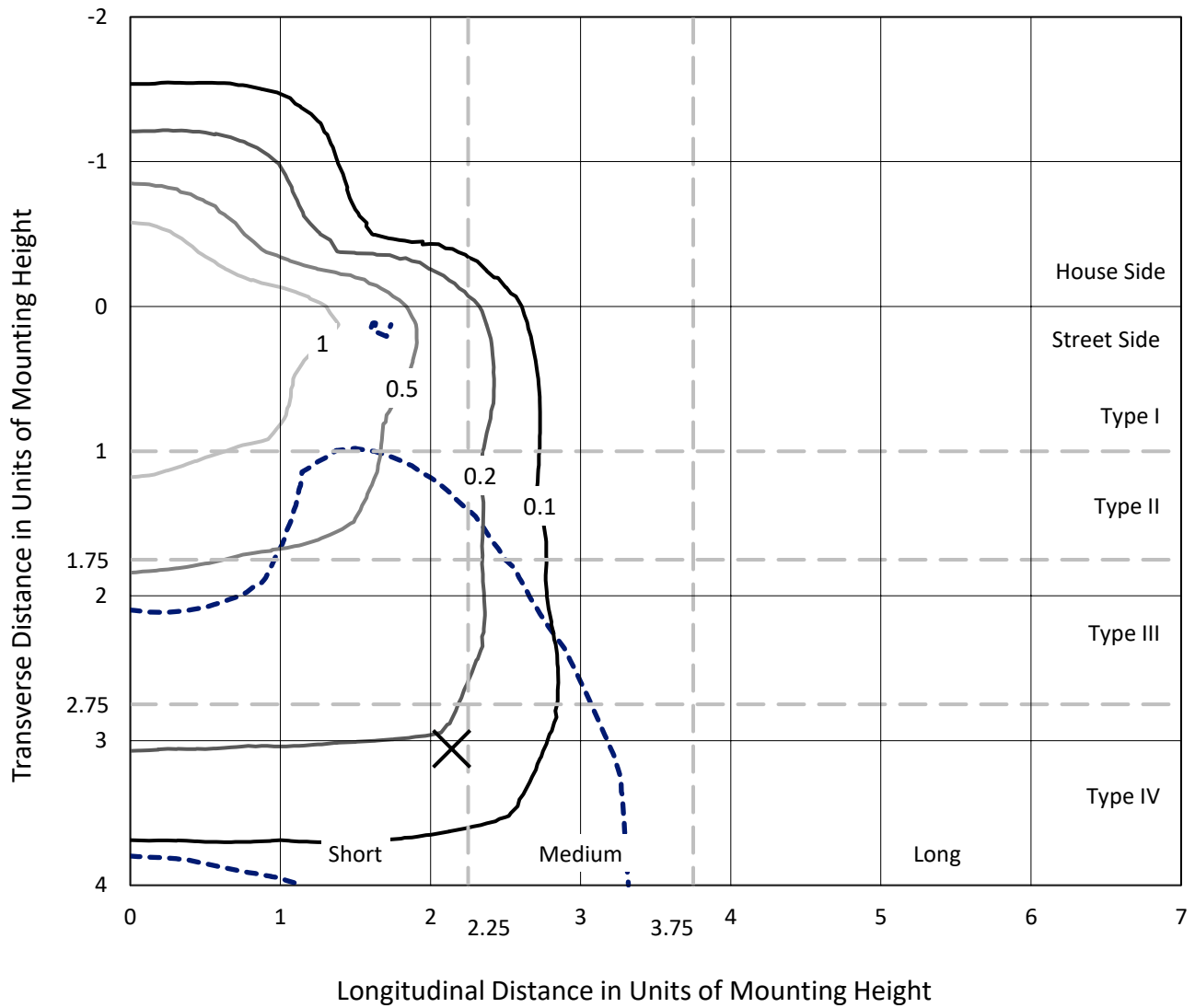
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

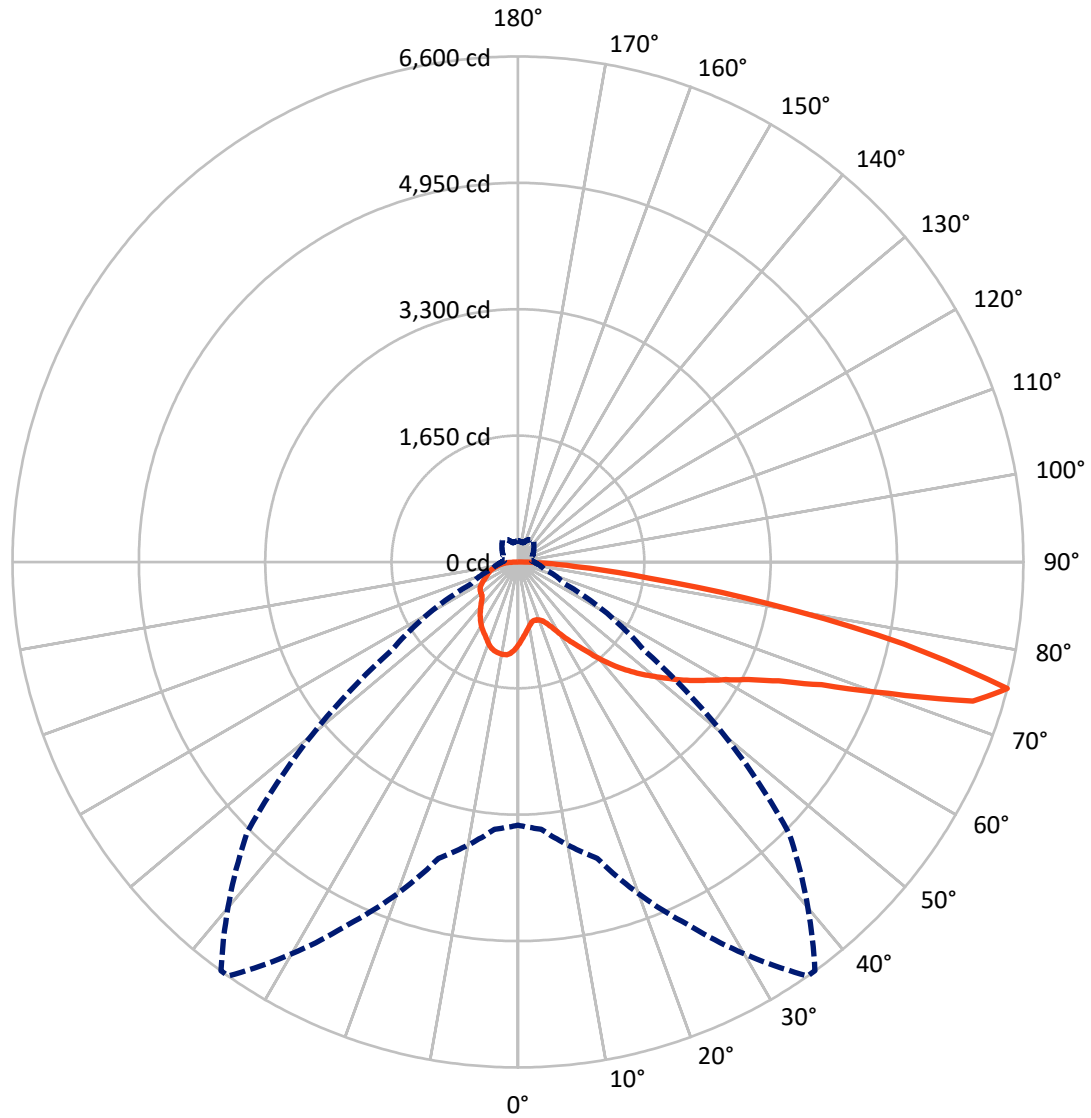
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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
House Side	Lumens	1926.9	0.0	1926.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6170.1	0.0	6170.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	8097.0	0.0	8097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	1.3
10°-20°	294.7	3.6
20°-30°	494.8	6.1
30°-40°	769.0	9.5
40°-50°	1141.4	14.1
50°-60°	1575.8	19.5
60°-70°	1911.8	23.6
70°-80°	1580.0	19.5
80°-90°	227.2	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°	8097.0	100.0
0°-180°	8097.0	100.0

Coefficient of Utilization



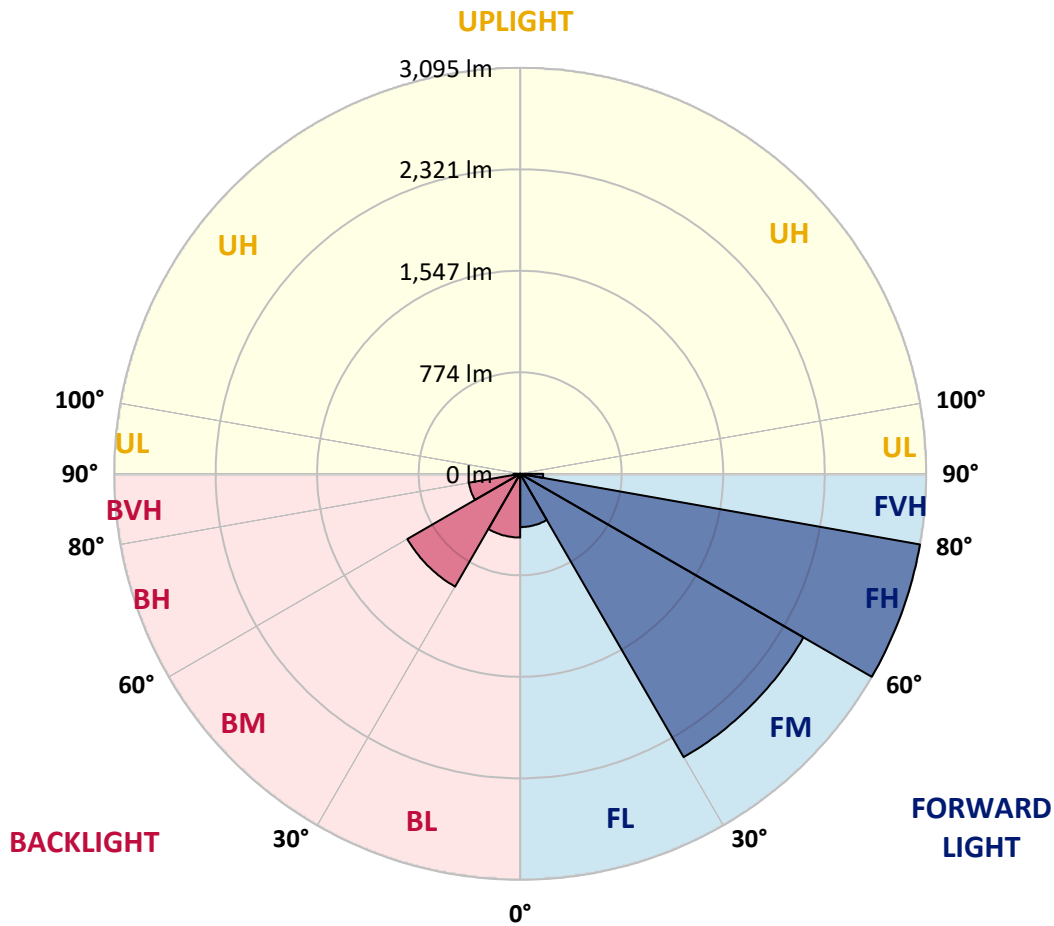
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.0	5.0			
FM (30°-60°)	2493.4	30.8			
FH (60°-80°)	3094.5	38.2			G2/5000
FVH (80°-90°)	176.1	2.2			G2/225
BL (0°-30°)	485.6	6.0	B1/500		
BM (30°-60°)	992.9	12.3	B1/1000		
BH (60°-80°)	397.3	4.9	B1/500		G1/500
BVH (80°-90°)	51.2	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°	1079.0	1079.0	1079.0	1079.0	1079.0	1079.0	1079.0	1079.0	1079.0	1079.0
2.5°	994.9	1001.1	1003.7	1002.4	1008.9	1008.1	1017.3	1028.6	1044.4	1059.7
5°	918.3	924.9	930.6	935.8	948.5	952.5	966.9	988.8	1017.7	1047.0
7.5°	847.0	852.7	861.4	871.1	892.5	896.5	920.5	954.7	994.9	1037.8
10°	788.8	794.5	803.7	814.6	841.3	846.1	876.8	922.3	974.8	1029.1
12.5°	763.8	765.6	770.8	781.8	805.0	808.0	841.7	893.8	955.1	1022.5
15°	762.5	766.0	766.4	772.1	791.4	792.7	823.8	875.4	942.8	1021.2
17.5°	775.6	778.3	774.3	777.8	794.0	796.2	820.7	866.7	938.9	1026.9
20°	810.7	812.8	801.0	796.2	808.0	809.8	833.9	872.4	942.8	1038.7
22.5°	885.1	886.4	857.5	837.8	838.7	839.5	860.6	895.6	958.2	1060.2
25°	1001.1	1000.2	954.2	916.1	894.3	889.4	903.5	933.2	984.0	1088.6
27.5°	1136.8	1130.2	1084.2	1027.3	979.6	972.6	969.6	982.2	1020.8	1126.3
30°	1290.0	1283.8	1234.4	1160.0	1093.9	1082.5	1053.6	1047.0	1075.5	1177.5
32.5°	1458.0	1454.1	1395.0	1304.8	1216.4	1203.3	1154.7	1137.2	1159.5	1254.9
35°	1599.0	1595.5	1546.5	1453.7	1345.6	1329.4	1279.9	1260.2	1271.6	1354.3
37.5°	1726.4	1724.6	1682.6	1609.5	1497.9	1478.2	1422.6	1416.0	1413.8	1485.2
40°	1844.6	1840.2	1796.4	1757.9	1675.2	1657.2	1608.2	1602.5	1585.9	1646.3
42.5°	1975.4	1964.1	1900.6	1882.6	1860.3	1845.4	1816.1	1817.0	1780.2	1827.9
45°	2082.2	2075.7	2010.4	1999.9	2024.0	2017.9	2043.3	2049.8	1978.5	2018.3
47.5°	2196.9	2190.8	2135.6	2128.2	2193.4	2195.2	2284.9	2287.1	2172.0	2216.2
50°	2338.3	2329.5	2274.8	2284.0	2357.1	2363.7	2527.8	2513.0	2350.1	2417.1
52.5°	2431.5	2436.8	2425.0	2439.9	2539.7	2545.8	2766.8	2728.7	2526.5	2615.4
55°	2500.3	2510.8	2547.5	2581.7	2732.2	2738.4	2992.3	2934.0	2672.7	2799.2
57.5°	2588.7	2573.8	2642.5	2709.0	2915.2	2931.4	3211.6	3131.9	2802.3	2957.7
60°	2715.6	2705.1	2758.5	2857.0	3120.1	3145.9	3443.5	3310.0	2897.3	3083.3
62.5°	2973.0	2946.7	2955.0	3042.2	3378.3	3412.5	3705.3	3465.4	2944.5	3132.3
65°	3357.8	3312.7	3270.6	3331.0	3742.1	3775.8	4000.8	3587.6	2927.0	3037.3
67.5°	3842.3	3797.7	3746.0	3802.9	4277.8	4304.5	4365.4	3656.3	2789.2	2671.4
70°	4241.9	4225.3	4287.0	4521.2	5133.6	5134.5	4832.9	3599.4	2411.4	1894.0
72.5°	4189.0	4178.9	4504.1	5228.1	6212.1	6188.9	5275.4	3168.7	1624.4	854.4
75°	3436.5	3501.8	4005.6	5215.4	6599.5	6596.4	5004.5	2014.4	671.9	354.1
77.5°	1842.8	1946.1	2600.5	3850.6	5152.0	5229.4	3518.4	704.7	288.5	226.7
80°	601.0	691.2	1036.5	1960.5	3347.7	3333.2	1507.9	276.6	197.4	160.6
82.5°	255.2	265.7	463.1	925.8	1718.1	1691.4	480.2	158.9	138.8	109.9
85°	99.8	111.6	204.4	428.1	744.1	727.9	173.3	78.8	88.9	71.8
87.5°	32.8	39.8	73.1	146.6	231.6	223.2	42.5	27.1	38.5	32.8
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°
1079.0	0°	1079.0	1079.0	1079.0	1079.0	1079.0	1079.0	1079.0	1079.0	1079.0	1079.0
1082.0	2.5°	1088.2	1095.2	1103.5	1115.7	1126.3	1135.0	1144.2	1149.9	1152.1	1158.6
1083.8	5°	1096.1	1111.4	1131.9	1152.1	1171.8	1183.6	1194.1	1199.4	1204.2	1207.7
1088.6	7.5°	1109.2	1128.9	1161.3	1187.5	1204.2	1213.8	1220.8	1219.1	1220.8	1221.7
1093.9	10°	1120.6	1148.1	1186.7	1211.6	1224.3	1224.7	1223.0	1216.9	1213.8	1214.2
1101.7	12.5°	1134.1	1164.8	1206.4	1227.4	1230.9	1221.2	1213.8	1203.3	1199.4	1197.6
1113.6	15°	1152.5	1187.5	1227.8	1235.7	1226.9	1214.7	1202.0	1184.9	1176.2	1169.2
1133.7	17.5°	1174.8	1213.4	1244.4	1238.7	1219.9	1199.8	1179.2	1153.4	1135.4	1128.0
1161.3	20°	1205.9	1240.5	1257.1	1232.2	1203.7	1173.1	1138.1	1106.6	1089.9	1082.5
1196.3	22.5°	1243.6	1276.8	1269.4	1220.8	1180.5	1131.5	1087.7	1064.5	1056.2	1051.0
1241.4	25°	1288.6	1317.1	1278.1	1204.2	1142.4	1076.4	1042.6	1035.2	1031.3	1027.3
1296.5	27.5°	1347.3	1362.6	1284.7	1179.7	1082.9	1017.7	1005.4	1006.8	1005.4	998.9
1373.1	30°	1424.8	1421.7	1290.8	1139.8	1014.6	964.7	965.6	971.3	972.2	967.8
1479.9	32.5°	1526.8	1495.7	1293.9	1088.2	949.4	918.3	919.2	925.3	929.7	922.3
1619.6	35°	1650.2	1581.9	1289.1	1023.4	899.1	874.1	867.6	869.3	870.6	863.6
1789.0	37.5°	1794.2	1678.7	1267.6	951.6	857.5	830.8	816.8	805.0	798.0	791.4
1980.7	40°	1952.2	1784.1	1228.2	881.6	811.1	784.8	763.8	741.5	717.9	709.1
2183.8	42.5°	2117.7	1892.7	1180.5	814.6	757.7	736.2	713.9	681.5	646.1	628.1
2394.8	45°	2289.3	2003.9	1133.7	748.5	703.0	693.8	668.0	629.0	590.5	567.7
2606.2	47.5°	2457.4	2108.9	1065.0	682.0	651.8	661.8	641.7	605.8	562.9	527.0
2815.9	50°	2618.0	2207.4	952.5	614.6	610.2	652.2	632.9	581.3	532.3	486.3
3021.6	52.5°	2777.3	2287.1	808.5	553.3	587.9	649.6	621.6	564.7	504.7	456.5
3215.1	55°	2912.6	2328.2	669.7	500.8	555.5	627.3	608.0	545.0	465.7	414.5
3347.7	57.5°	2989.6	2295.0	554.2	449.1	510.8	590.5	584.8	502.9	419.3	379.9
3373.5	60°	2956.4	2160.1	459.6	404.0	468.4	550.7	544.5	461.4	383.9	346.7
3235.2	62.5°	2773.0	1903.2	384.8	364.6	429.8	509.9	504.3	429.4	356.7	320.8
2867.9	65°	2403.5	1548.2	326.5	331.8	390.9	460.9	469.2	402.7	335.3	300.3
2218.8	67.5°	1833.2	1121.4	281.0	303.3	352.8	412.8	436.8	383.4	317.3	284.1
1283.8	70°	1044.8	636.9	242.5	275.8	319.1	368.1	411.9	368.1	298.1	270.5
481.1	72.5°	396.1	292.4	209.7	248.2	286.7	330.5	384.3	344.0	275.8	255.2
248.6	75°	211.4	178.2	176.4	215.8	249.5	293.7	349.7	320.4	259.1	269.6
172.0	77.5°	144.0	126.1	147.5	184.7	208.8	253.0	313.0	284.5	224.6	223.7
119.1	80°	99.8	89.3	119.9	148.8	161.5	212.7	273.1	244.2	183.0	170.7
73.5	82.5°	60.0	58.2	89.7	111.2	114.2	164.1	226.3	204.9	149.7	130.4
43.8	85°	32.8	34.6	57.3	65.2	66.5	114.7	177.3	158.5	115.1	96.7
15.8	87.5°	9.2	11.8	21.0	25.8	32.0	59.5	105.5	94.1	57.8	40.3
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

<u>180°</u>
1079.0
1158.2
1208.5
1223.0
1215.1
1196.7
1171.3
1128.4
1081.6
1051.8
1027.3
1000.2
970.0
925.8
868.4
795.8
713.0
630.3
566.0
523.1
482.4
451.3
410.1
374.7
341.4
315.2
294.6
278.8
267.0
251.7
278.4
206.2
163.3
131.3
97.6
40.3
0.0

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