

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: P939855

Luminaire Tested: **GALN-SB2C-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939855
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-SB2C-927-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9033 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

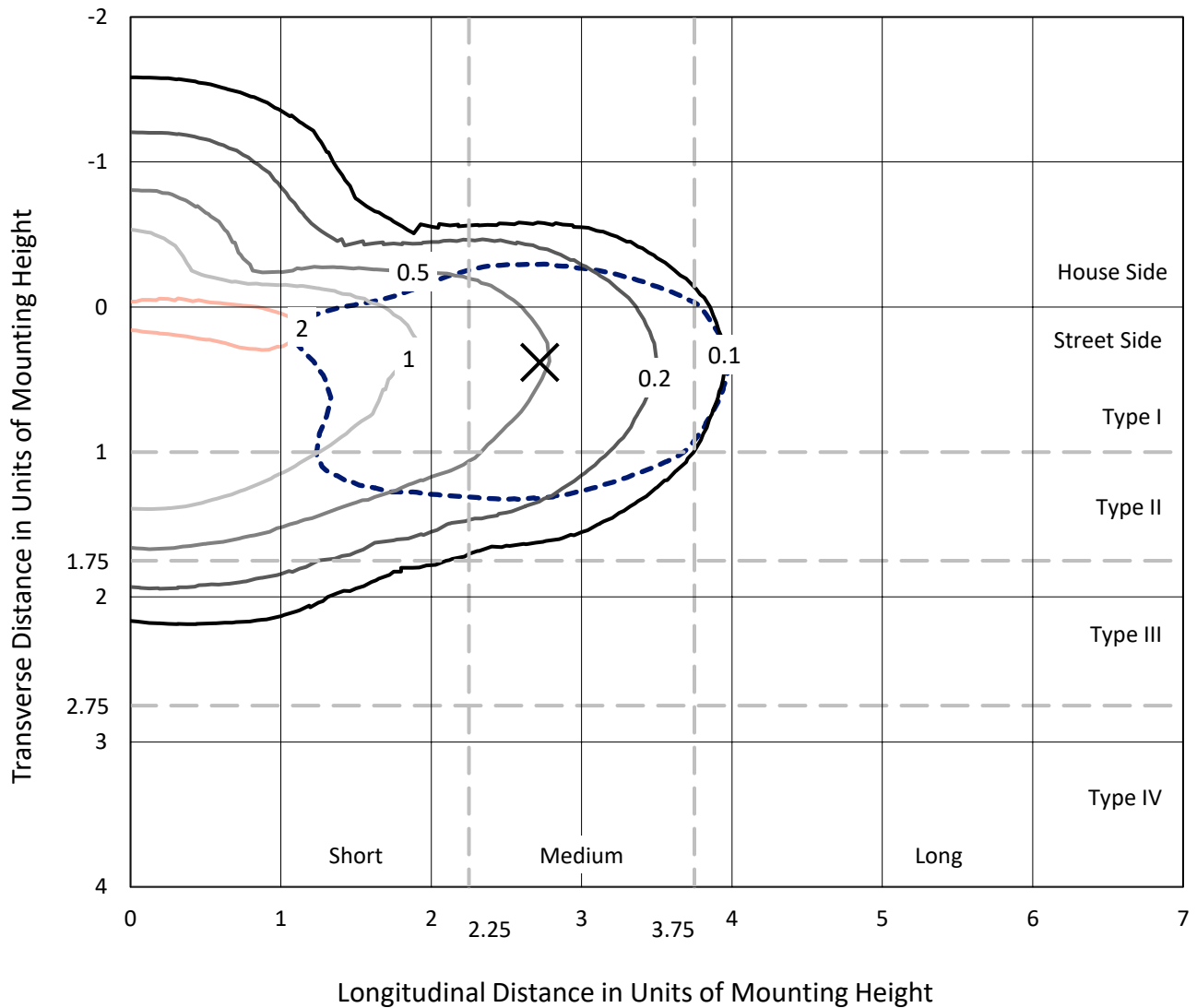
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

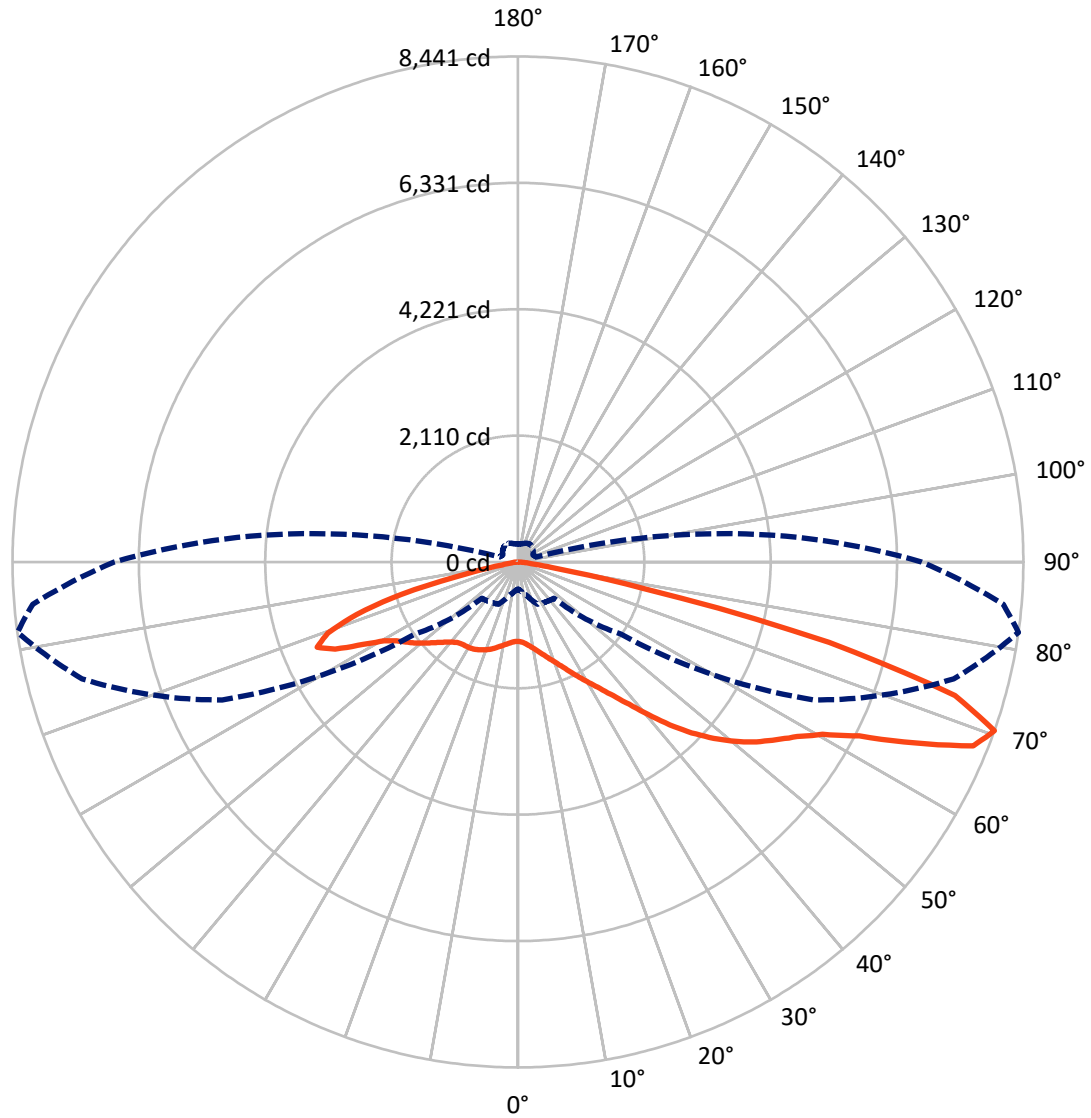
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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
House Side	Lumens	2226.9	0.0	2226.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	6806.1	0.0	6806.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	9033.0	0.0	9033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	1.4
10°-20°	359.3	4.0
20°-30°	601.0	6.7
30°-40°	938.9	10.4
40°-50°	1495.3	16.6
50°-60°	2080.9	23.0
60°-70°	2176.7	24.1
70°-80°	1137.7	12.6
80°-90°	118.1	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°	9033.0	100.0
0°-180°	9033.0	100.0

Coefficient of Utilization



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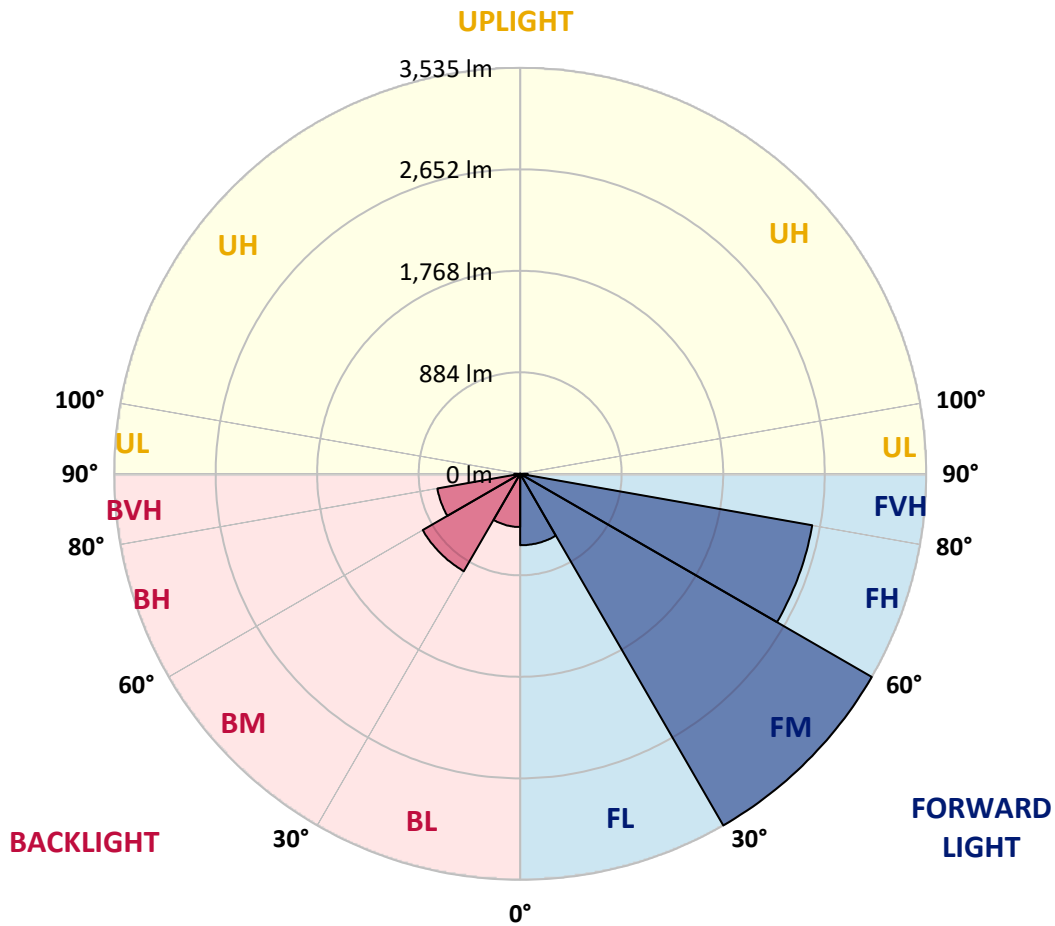
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	622.0	6.9			
FM (30°-60°)	3535.4	39.1			
FH (60°-80°)	2582.6	28.6			G2/5000
FVH (80°-90°)	66.1	0.7			G1/100
BL (0°-30°)	463.3	5.1	B1/500		
BM (30°-60°)	979.7	10.8	B1/1000		
BH (60°-80°)	731.9	8.1	B2/1000		G2/1000
BVH (80°-90°)	52.0	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°	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4
2.5°	1356.0	1363.7	1361.3	1358.9	1358.9	1355.5	1355.0	1350.2	1346.4	1340.2
5°	1373.2	1381.4	1380.4	1382.3	1388.6	1390.0	1391.5	1388.6	1380.9	1373.2
7.5°	1357.9	1367.0	1369.9	1381.4	1400.6	1417.8	1430.8	1436.0	1428.8	1417.8
10°	1306.1	1316.2	1326.3	1353.6	1387.6	1428.4	1462.9	1483.5	1482.0	1471.5
12.5°	1201.2	1211.7	1233.3	1286.5	1348.8	1420.7	1484.9	1528.1	1542.9	1535.2
15°	1117.3	1126.4	1142.7	1197.3	1278.3	1387.6	1493.1	1577.0	1614.8	1610.5
17.5°	1114.9	1118.7	1128.8	1154.7	1217.0	1335.9	1484.4	1624.9	1697.3	1696.8
20°	1157.1	1158.5	1164.3	1169.5	1205.0	1296.6	1462.4	1664.7	1789.8	1789.8
22.5°	1215.5	1214.6	1220.3	1215.5	1232.8	1293.2	1448.5	1699.7	1892.8	1900.5
25°	1303.3	1298.5	1297.0	1286.0	1289.4	1324.4	1463.8	1739.4	2015.0	2030.9
27.5°	1420.2	1412.5	1407.3	1381.9	1373.2	1388.6	1510.8	1787.4	2151.2	2178.5
30°	1572.6	1558.7	1551.1	1507.0	1475.8	1478.2	1581.7	1851.1	2293.5	2337.6
32.5°	1780.7	1759.1	1738.5	1666.1	1609.1	1590.4	1673.3	1939.3	2447.9	2518.3
35°	2013.6	1996.4	1974.3	1862.6	1774.9	1731.8	1797.0	2062.5	2628.6	2740.3
37.5°	2237.9	2223.1	2233.6	2083.1	1970.0	1907.2	1959.0	2227.9	2851.5	3016.3
40°	2469.9	2458.4	2459.9	2316.1	2184.2	2113.8	2155.5	2435.4	3106.9	3344.7
42.5°	2722.0	2713.4	2684.7	2557.2	2409.0	2343.4	2381.7	2675.1	3381.1	3718.5
45°	3004.4	2999.1	2972.2	2826.0	2656.4	2582.6	2634.3	2939.6	3656.7	4070.4
47.5°	3248.3	3252.6	3249.3	3126.1	2950.2	2841.9	2903.7	3215.7	3913.1	4401.1
50°	3365.8	3388.3	3421.4	3383.0	3273.7	3163.5	3175.5	3482.2	4157.6	4711.2
52.5°	3304.4	3347.1	3437.2	3498.5	3540.7	3517.7	3485.6	3746.8	4387.7	4991.1
55°	3075.8	3135.7	3285.2	3433.3	3648.6	3815.8	3858.0	4040.2	4612.0	5237.5
57.5°	2659.2	2756.5	2890.8	3190.3	3552.7	3960.1	4292.3	4447.1	4849.7	5500.6
60°	1945.1	2075.4	2242.2	2688.0	3217.2	3882.9	4661.8	5072.1	5187.6	5841.4
62.5°	1244.8	1325.3	1478.7	1898.6	2506.8	3487.5	4774.9	5853.4	5760.4	6400.3
65°	852.2	904.0	1044.4	1280.3	1620.6	2596.0	4472.0	6439.1	6670.2	7286.1
67.5°	619.3	658.6	778.4	985.0	1055.9	1536.2	3470.2	6412.3	7554.5	8198.7
70°	451.5	479.3	580.0	778.4	812.4	854.6	2102.3	5450.8	7535.3	8441.2
72.5°	334.6	353.7	421.3	603.9	657.6	577.1	1040.6	3961.5	6475.1	7635.0
75°	242.1	256.4	306.3	462.1	526.3	439.5	519.1	2315.1	4516.6	5370.7
77.5°	185.0	196.0	228.6	338.4	421.3	329.8	322.1	1065.0	2141.6	2152.1
80°	148.6	155.8	173.5	238.2	323.1	246.8	209.9	429.9	676.8	572.8
82.5°	109.3	121.3	146.7	167.3	231.0	170.2	128.0	217.1	257.4	221.4
85°	62.3	70.5	88.7	119.8	147.6	104.0	73.3	96.3	119.8	98.3
87.5°	22.0	28.8	31.2	47.0	64.2	43.1	28.3	27.8	39.3	29.2
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°
1324.4	0°	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4
1338.7	2.5°	1333.9	1331.5	1322.0	1309.0	1295.6	1282.7	1278.3	1269.2	1263.0	1259.6
1369.9	5°	1360.8	1353.1	1330.6	1301.8	1271.6	1239.0	1216.0	1194.9	1179.6	1165.2
1412.5	7.5°	1399.1	1385.7	1346.9	1296.6	1242.9	1188.7	1148.4	1117.8	1097.2	1083.7
1462.4	10°	1443.7	1423.1	1363.7	1288.4	1205.5	1127.8	1080.4	1054.0	1041.1	1033.9
1519.4	12.5°	1495.0	1465.7	1380.9	1269.7	1148.4	1059.8	1027.2	1019.5	1020.0	1020.5
1591.3	15°	1558.3	1517.5	1394.8	1229.0	1074.1	1007.5	1001.8	1014.2	1027.2	1033.4
1672.8	17.5°	1629.7	1572.2	1397.2	1161.9	1001.3	974.0	992.2	1019.0	1038.7	1047.3
1763.9	20°	1706.4	1627.8	1380.0	1067.0	941.4	946.6	979.2	1013.8	1035.3	1046.3
1867.9	22.5°	1794.1	1687.2	1338.7	967.3	892.5	916.9	955.3	988.8	1011.4	1022.4
1990.1	25°	1894.3	1753.8	1274.0	883.4	850.3	883.4	921.7	949.5	967.7	977.8
2126.7	27.5°	2005.5	1823.3	1187.7	816.8	813.4	848.9	880.5	902.1	911.7	919.3
2272.0	30°	2117.1	1886.6	1083.3	766.4	781.3	814.8	837.4	847.0	849.8	851.3
2434.0	32.5°	2237.9	1941.2	973.5	724.7	750.6	781.8	795.2	799.5	786.1	777.0
2630.5	35°	2384.1	1999.7	866.1	691.7	720.4	747.3	751.6	747.7	731.9	713.2
2876.9	37.5°	2564.8	2072.6	780.3	668.2	692.1	709.9	704.6	703.6	705.1	683.0
3173.1	40°	2786.3	2167.5	717.5	650.0	669.1	673.0	658.1	666.2	673.4	639.9
3498.0	42.5°	3032.2	2282.0	677.8	637.5	650.0	640.8	617.8	626.9	626.0	581.9
3824.5	45°	3282.8	2406.6	663.9	628.4	632.2	614.0	588.6	591.0	570.9	531.1
4137.5	47.5°	3532.1	2540.4	672.5	620.7	610.2	589.6	569.9	559.4	529.6	499.9
4437.5	50°	3776.5	2680.8	704.1	605.4	580.0	568.0	553.6	534.9	503.3	477.9
4721.3	52.5°	4003.2	2822.2	739.6	580.0	542.1	549.3	540.2	518.6	487.5	461.6
4989.7	55°	4218.0	2963.6	753.5	545.0	506.6	533.0	527.7	487.9	450.6	429.5
5270.6	57.5°	4451.9	3133.8	738.1	500.4	477.9	514.3	494.2	450.1	428.5	412.7
5636.3	60°	4775.9	3400.7	705.1	445.3	450.6	486.5	452.0	433.8	410.3	392.6
6184.6	62.5°	5314.2	3898.8	651.9	390.6	418.4	445.3	431.9	413.6	389.7	372.4
7122.2	65°	6109.8	4590.9	551.7	348.0	382.5	405.0	410.3	392.1	367.2	348.9
7943.7	67.5°	6780.9	5025.2	417.5	312.5	345.6	372.4	387.3	369.6	343.2	325.5
8135.9	70°	6744.0	4709.8	318.7	277.5	313.0	340.3	359.5	345.6	317.3	300.5
7390.1	72.5°	5990.0	3940.0	257.9	242.1	279.9	306.8	329.8	319.2	290.5	274.2
5413.9	75°	4400.6	2796.8	206.1	206.1	238.7	271.8	297.2	290.5	264.1	252.6
2272.9	77.5°	1855.0	1173.4	161.5	171.1	198.4	233.4	265.1	267.5	244.5	258.8
601.1	80°	493.2	323.5	123.2	134.7	155.8	192.7	230.6	229.6	204.7	191.2
223.4	82.5°	187.9	127.5	87.7	94.9	112.6	147.6	182.6	188.4	163.4	141.4
87.7	85°	72.4	54.6	54.2	57.0	65.7	97.8	138.0	142.8	123.2	104.5
24.4	87.5°	18.7	16.3	20.1	19.2	30.2	52.2	79.1	82.0	75.3	43.6
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>
1324.4
1263.5
1171.0
1086.6
1035.8
1021.4
1032.9
1049.2
1049.2
1025.3
980.7
922.2
854.6
779.8
714.2
684.5
640.8
581.4
532.5
499.9
476.0
462.1
427.6
411.3
391.6
372.4
349.9
325.9
302.0
274.2
249.2
234.9
177.8
141.4
107.8
62.3
0.0

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