

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: P939885

Luminaire Tested: **GALN-SB2C-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939885
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-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10753 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

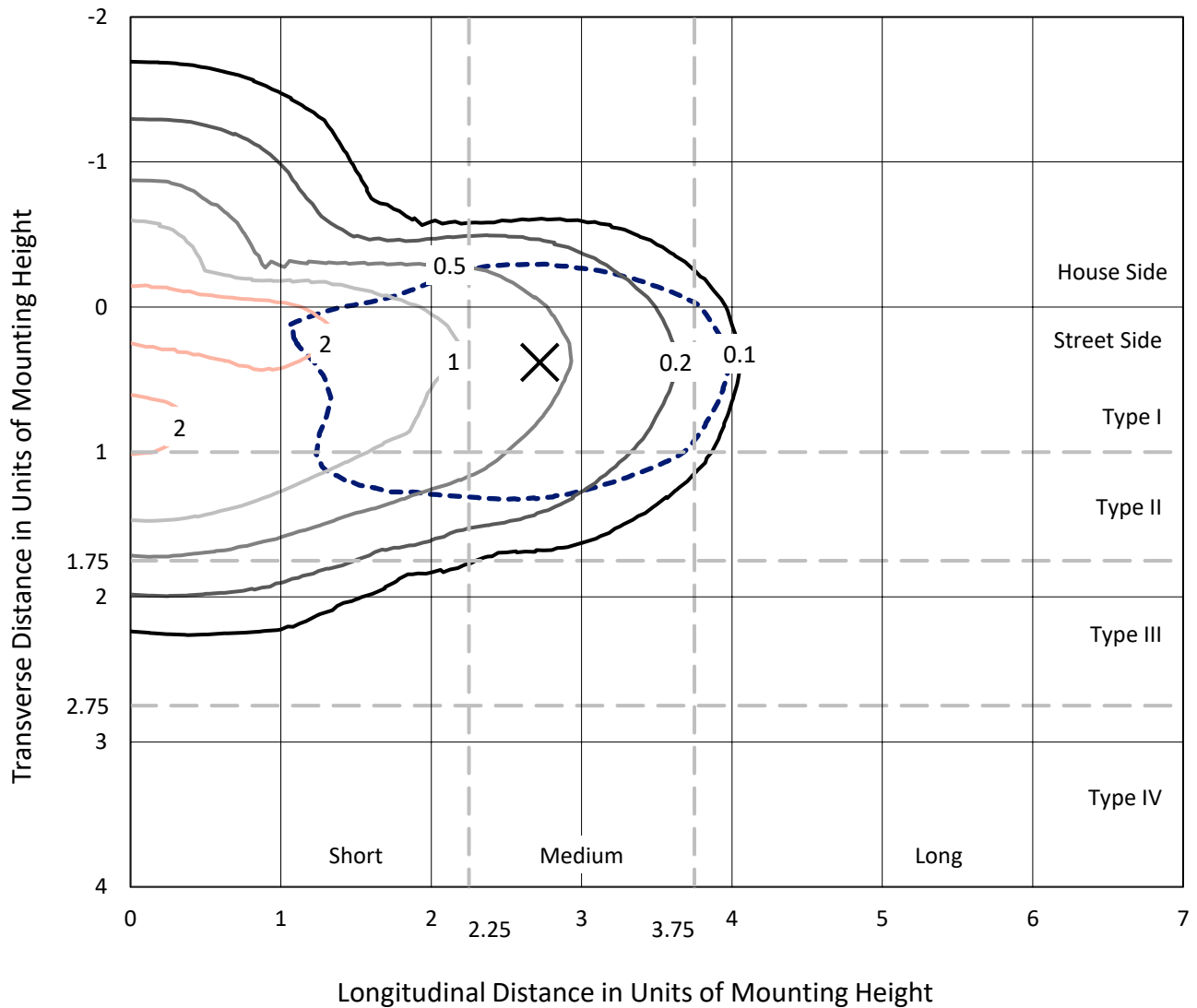
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939885
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Iso-Footcandle Lines of Horizontal Illumination

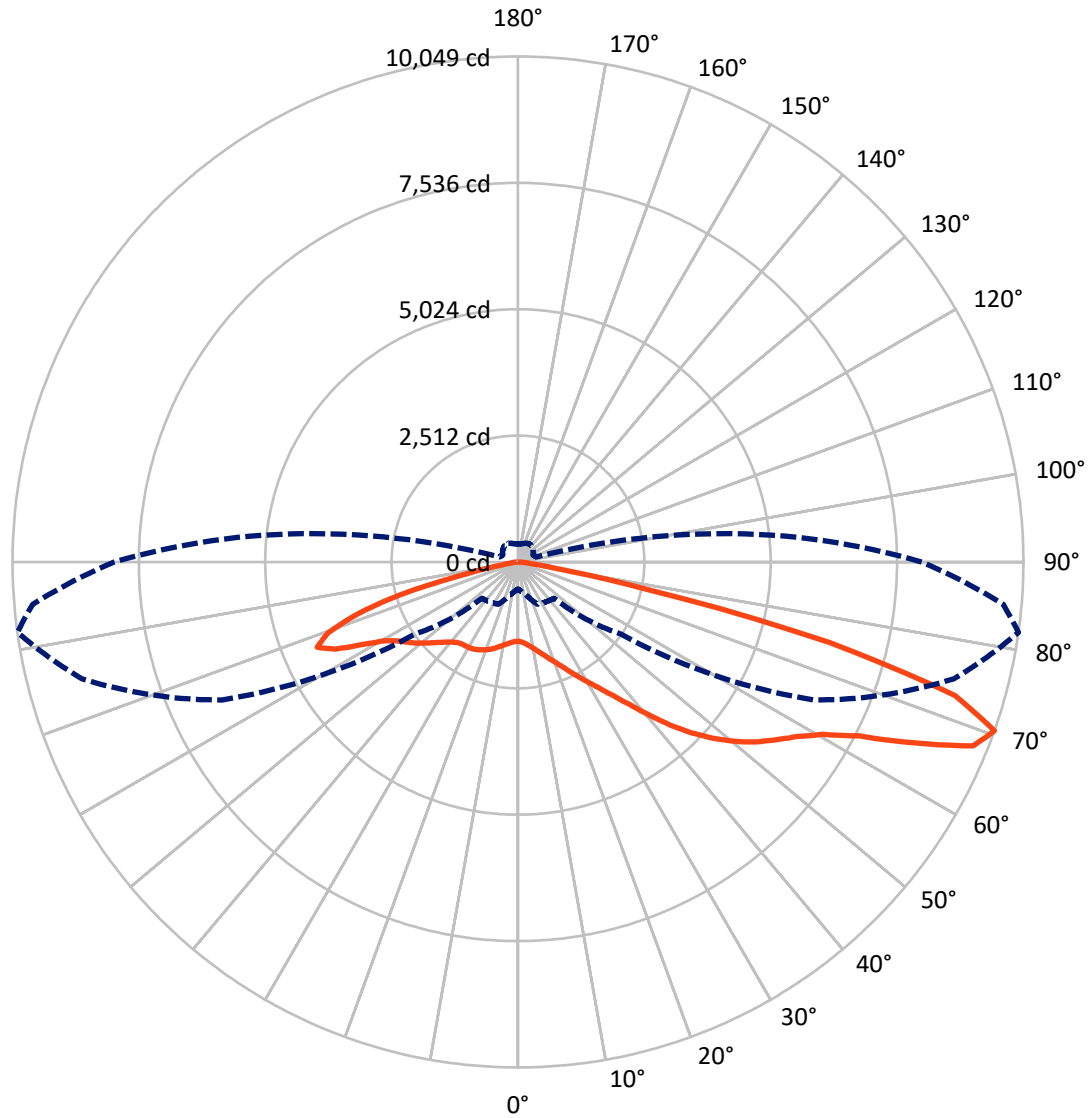
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P939885
CATALOG NUMBER: GALN-SB2C-940-U-T2

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SB2C-940-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2650.9	0.0	2650.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	8102.1	0.0	8102.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	10753.0	0.0	10753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	1.4
10°-20°	427.7	4.0
20°-30°	715.4	6.7
30°-40°	1117.7	10.4
40°-50°	1780.0	16.6
50°-60°	2477.2	23.0
60°-70°	2591.2	24.1
70°-80°	1354.3	12.6
80°-90°	140.6	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°	10753.0	100.0
0°-180°	10753.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939885

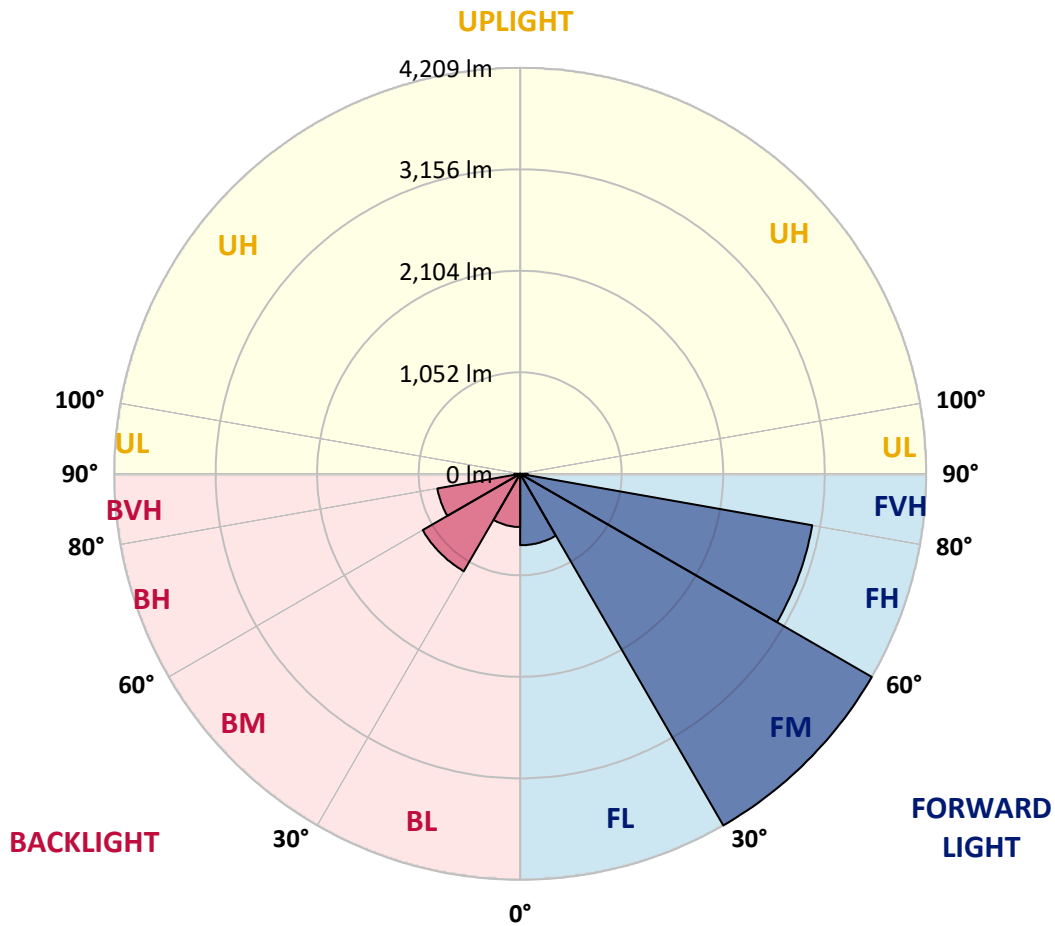
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	740.5	6.9			
FM (30°-60°)	4208.6	39.1			
FH (60°-80°)	3074.3	28.6			G2/5000
FVH (80°-90°)	78.7	0.7			G1/100
BL (0°-30°)	551.5	5.1	B2/1000		
BM (30°-60°)	1166.3	10.8	B2/2500		
BH (60°-80°)	871.2	8.1	B2/1000		G2/1000
BVH (80°-90°)	61.9	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



REPORT NUMBER: P939885

CATALOG NUMBER: GALN-SB2C-940-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5
2.5°	1614.2	1623.3	1620.5	1617.6	1617.6	1613.6	1613.0	1607.3	1602.8	1595.4
5°	1634.7	1644.4	1643.3	1645.6	1653.0	1654.7	1656.4	1653.0	1643.9	1634.7
7.5°	1616.5	1627.3	1630.7	1644.4	1667.2	1687.8	1703.2	1709.5	1700.9	1687.8
10°	1554.8	1566.8	1578.8	1611.3	1651.8	1700.3	1741.4	1766.0	1764.2	1751.7
12.5°	1429.9	1442.4	1468.1	1531.4	1605.6	1691.2	1767.7	1819.0	1836.7	1827.6
15°	1330.0	1340.9	1360.3	1425.3	1521.7	1651.8	1777.4	1877.2	1922.3	1917.2
17.5°	1327.2	1331.7	1343.7	1374.5	1448.7	1590.2	1767.1	1934.3	2020.4	2019.9
20°	1377.4	1379.1	1385.9	1392.2	1434.4	1543.4	1740.9	1981.6	2130.6	2130.6
22.5°	1447.0	1445.9	1452.7	1447.0	1467.5	1539.4	1724.3	2023.3	2253.2	2262.4
25°	1551.4	1545.7	1544.0	1530.9	1534.9	1576.5	1742.6	2070.7	2398.7	2417.6
27.5°	1690.6	1681.5	1675.2	1645.0	1634.7	1653.0	1798.5	2127.7	2560.8	2593.3
30°	1872.1	1855.5	1846.4	1793.9	1756.8	1759.7	1882.9	2203.6	2730.2	2782.7
32.5°	2119.7	2094.0	2069.5	1983.4	1915.5	1893.2	1991.9	2308.6	2914.0	2997.8
35°	2397.0	2376.5	2350.2	2217.3	2112.9	2061.5	2139.1	2455.2	3129.1	3262.0
37.5°	2664.1	2646.4	2658.9	2479.8	2345.1	2270.4	2332.0	2652.1	3394.4	3590.7
40°	2940.2	2926.5	2928.2	2757.1	2600.2	2516.3	2565.9	2899.1	3698.5	3981.5
42.5°	3240.3	3230.1	3195.8	3044.1	2867.8	2789.6	2835.2	3184.4	4024.9	4426.6
45°	3576.4	3570.1	3538.2	3364.2	3162.2	3074.3	3135.9	3499.4	4353.0	4845.4
47.5°	3866.8	3872.0	3868.0	3721.4	3511.9	3383.0	3456.6	3828.0	4658.2	5239.1
50°	4006.6	4033.5	4072.8	4027.2	3897.1	3765.9	3780.1	4145.3	4949.2	5608.3
52.5°	3933.6	3984.4	4091.7	4164.7	4214.9	4187.5	4149.3	4460.3	5223.1	5941.5
55°	3661.4	3732.8	3910.8	4087.1	4343.3	4542.4	4592.6	4809.5	5490.2	6234.8
57.5°	3165.6	3281.4	3441.2	3797.8	4229.2	4714.2	5109.6	5293.9	5773.2	6548.0
60°	2315.4	2470.6	2669.2	3199.8	3829.8	4622.3	5549.5	6037.9	6175.4	6953.7
62.5°	1481.8	1577.7	1760.3	2260.1	2984.2	4151.6	5684.2	6968.0	6857.3	7619.0
65°	1014.5	1076.1	1243.3	1524.0	1929.1	3090.3	5323.6	7665.2	7940.3	8673.5
67.5°	737.2	784.0	926.6	1172.6	1257.0	1828.7	4131.0	7633.3	8993.0	9759.8
70°	537.5	570.6	690.4	926.6	967.1	1017.4	2502.6	6488.7	8970.2	10048.6
72.5°	398.3	421.1	501.5	718.9	782.8	687.0	1238.7	4715.9	7708.0	9088.8
75°	288.1	305.3	364.6	550.0	626.5	523.2	617.9	2755.9	5376.6	6393.4
77.5°	220.2	233.4	272.2	402.8	501.5	392.6	383.4	1267.8	2549.4	2561.9
80°	176.9	185.4	206.6	283.6	384.6	293.9	249.9	511.8	805.7	681.8
82.5°	130.1	144.4	174.6	199.1	275.0	202.6	152.3	258.5	306.4	263.6
85°	74.2	83.9	105.6	142.6	175.7	123.8	87.3	114.7	142.6	117.0
87.5°	26.2	34.2	37.1	55.9	76.5	51.4	33.7	33.1	46.8	34.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939885
 CATALOG NUMBER: GALN-SB2C-940-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1576.5	0°	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5
1593.6	2.5°	1587.9	1585.1	1573.7	1558.3	1542.3	1526.9	1521.7	1510.9	1503.5	1499.5
1630.7	5°	1619.9	1610.8	1583.9	1549.7	1513.8	1475.0	1447.6	1422.5	1404.2	1387.1
1681.5	7.5°	1665.5	1649.6	1603.3	1543.4	1479.5	1415.0	1367.1	1330.6	1306.1	1290.1
1740.9	10°	1718.6	1694.1	1623.3	1533.7	1435.0	1342.6	1286.1	1254.7	1239.3	1230.8
1808.8	12.5°	1779.7	1744.8	1643.9	1511.5	1367.1	1261.6	1222.8	1213.6	1214.2	1214.8
1894.3	15°	1855.0	1806.5	1660.4	1463.0	1278.7	1199.4	1192.5	1207.4	1222.8	1230.2
1991.3	17.5°	1940.0	1871.5	1663.3	1383.1	1192.0	1159.4	1181.1	1213.1	1236.5	1246.7
2099.8	20°	2031.3	1937.7	1642.7	1270.1	1120.6	1126.9	1165.7	1206.8	1232.5	1245.6
2223.6	22.5°	2135.7	2008.5	1593.6	1151.4	1062.4	1091.5	1137.2	1177.1	1203.9	1217.1
2369.1	25°	2254.9	2087.8	1516.6	1051.6	1012.2	1051.6	1097.2	1130.3	1152.0	1164.0
2531.7	27.5°	2387.3	2170.5	1413.9	972.3	968.3	1010.5	1048.2	1073.8	1085.3	1094.4
2704.6	30°	2520.3	2245.8	1289.5	912.4	930.1	970.0	996.8	1008.2	1011.6	1013.4
2897.4	32.5°	2664.1	2310.9	1158.9	862.7	893.5	930.6	946.6	951.7	935.8	924.9
3131.4	35°	2838.1	2380.5	1031.0	823.4	857.6	889.5	894.7	890.1	871.3	849.0
3424.6	37.5°	3053.2	2467.2	928.9	795.4	823.9	845.0	838.8	837.6	839.3	813.1
3777.3	40°	3316.8	2580.2	854.2	773.7	796.5	801.1	783.4	793.1	801.7	761.7
4164.1	42.5°	3609.5	2716.6	806.8	758.9	773.7	762.9	735.5	746.3	745.2	692.7
4552.7	45°	3907.9	2864.9	790.3	748.0	752.6	730.9	700.7	703.5	679.6	632.2
4925.3	47.5°	4204.6	3024.1	800.5	738.9	726.4	701.8	678.4	665.9	630.5	595.1
5282.5	50°	4495.6	3191.3	838.2	720.6	690.4	676.1	659.0	636.8	599.1	568.9
5620.3	52.5°	4765.5	3359.6	880.4	690.4	645.3	653.9	643.0	617.4	580.3	549.5
5939.8	55°	5021.1	3527.9	897.0	648.8	603.1	634.5	628.2	580.9	536.3	511.2
6274.1	57.5°	5299.6	3730.5	878.7	595.7	568.9	612.2	588.3	535.8	510.1	491.3
6709.5	60°	5685.3	4048.3	839.3	530.1	536.3	579.1	538.1	516.4	488.4	467.3
7362.2	62.5°	6326.1	4641.1	776.0	465.0	498.1	530.1	514.1	492.4	463.9	443.3
8478.3	65°	7273.2	5465.1	656.7	414.2	455.3	482.1	488.4	466.7	437.1	415.4
9456.3	67.5°	8072.1	5982.0	497.0	372.0	411.4	443.3	461.0	439.9	408.5	387.4
9685.1	70°	8028.1	5606.6	379.4	330.4	372.6	405.1	427.9	411.4	377.7	357.8
8797.3	72.5°	7130.6	4690.2	307.0	288.1	333.2	365.2	392.6	380.0	345.8	326.4
6444.7	75°	5238.5	3329.4	245.4	245.4	284.2	323.5	353.8	345.8	314.4	300.7
2705.7	77.5°	2208.2	1396.8	192.3	203.7	236.2	277.9	315.5	318.4	291.0	308.1
715.5	80°	587.1	385.1	146.6	160.3	185.4	229.4	274.5	273.3	243.6	227.7
265.9	82.5°	223.7	151.8	104.4	113.0	134.1	175.7	217.4	224.2	194.6	168.3
104.4	85°	86.2	65.0	64.5	67.9	78.2	116.4	164.3	170.0	146.6	124.4
29.1	87.5°	22.3	19.4	24.0	22.8	35.9	62.2	94.1	97.6	89.6	51.9
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>
1576.5
1504.1
1393.9
1293.5
1233.0
1215.9
1229.6
1249.0
1249.0
1220.5
1167.4
1097.8
1017.4
928.3
850.2
814.8
762.9
692.1
633.9
595.1
566.6
550.0
509.0
489.6
466.2
443.3
416.5
388.0
359.5
326.4
296.7
279.6
211.7
168.3
128.4
74.2
0.0

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