

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: P939207

Luminaire Tested: **GALN-SB1C-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5432 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

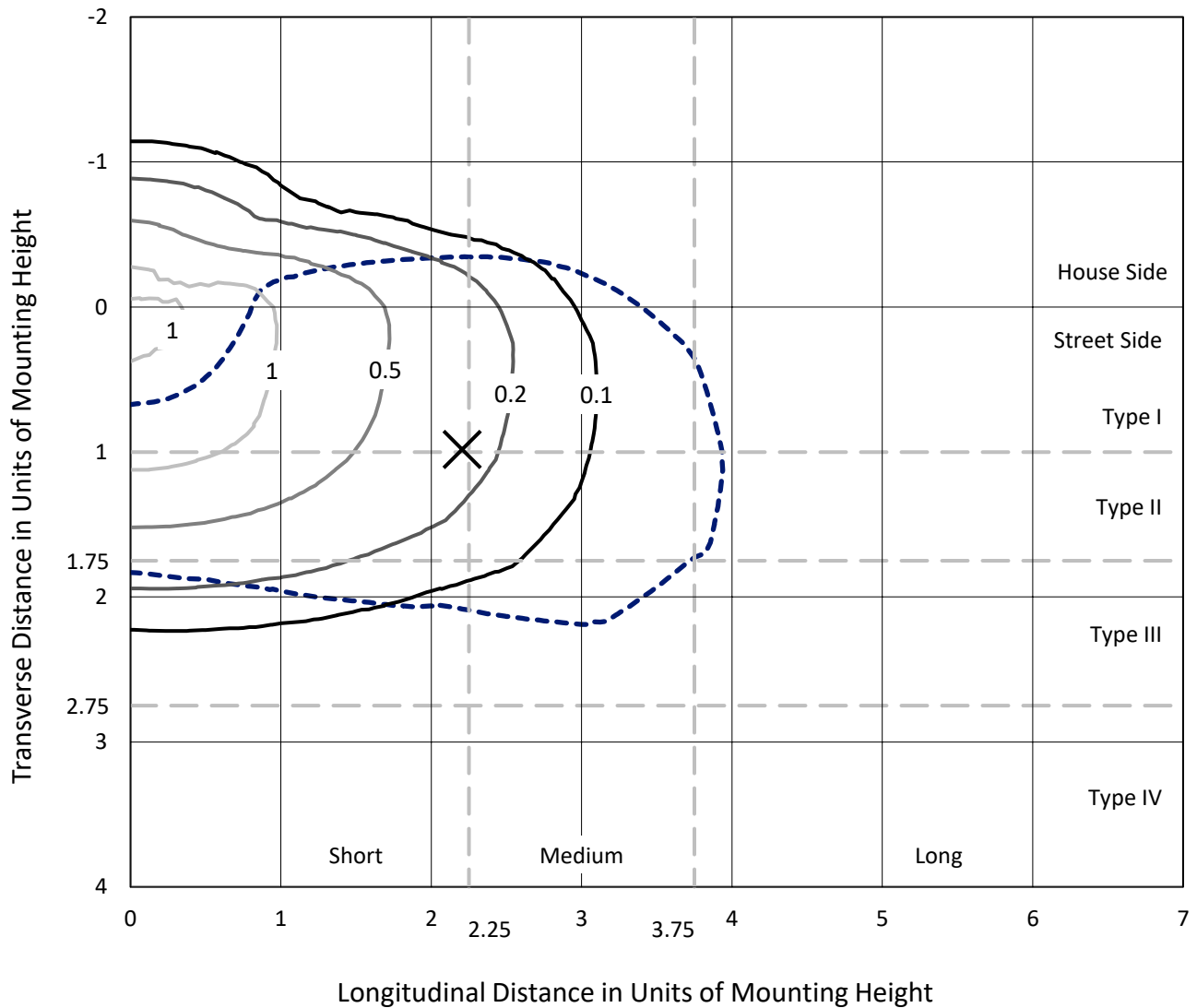
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

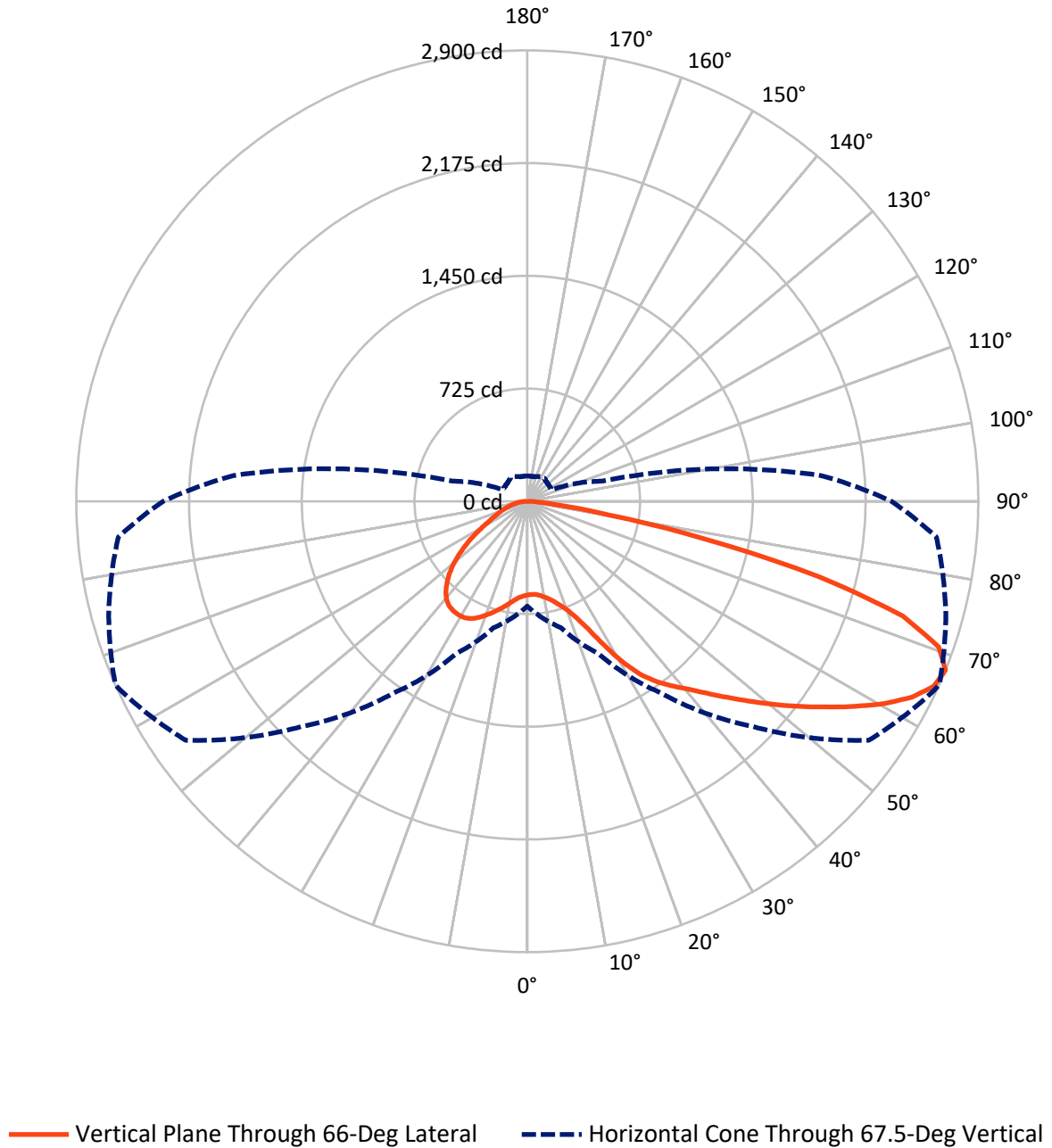
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1350.6	0.0	1350.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	4081.3	0.0	4081.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	5432.0	0.0	5432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	1.1
10°-20°	197.4	3.6
20°-30°	380.4	7.0
30°-40°	667.0	12.3
40°-50°	991.5	18.3
50°-60°	1256.9	23.1
60°-70°	1229.8	22.6
70°-80°	586.6	10.8
80°-90°	62.7	1.2
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°	5432.0	100.0
0°-180°	5432.0	100.0

Coefficient of Utilization



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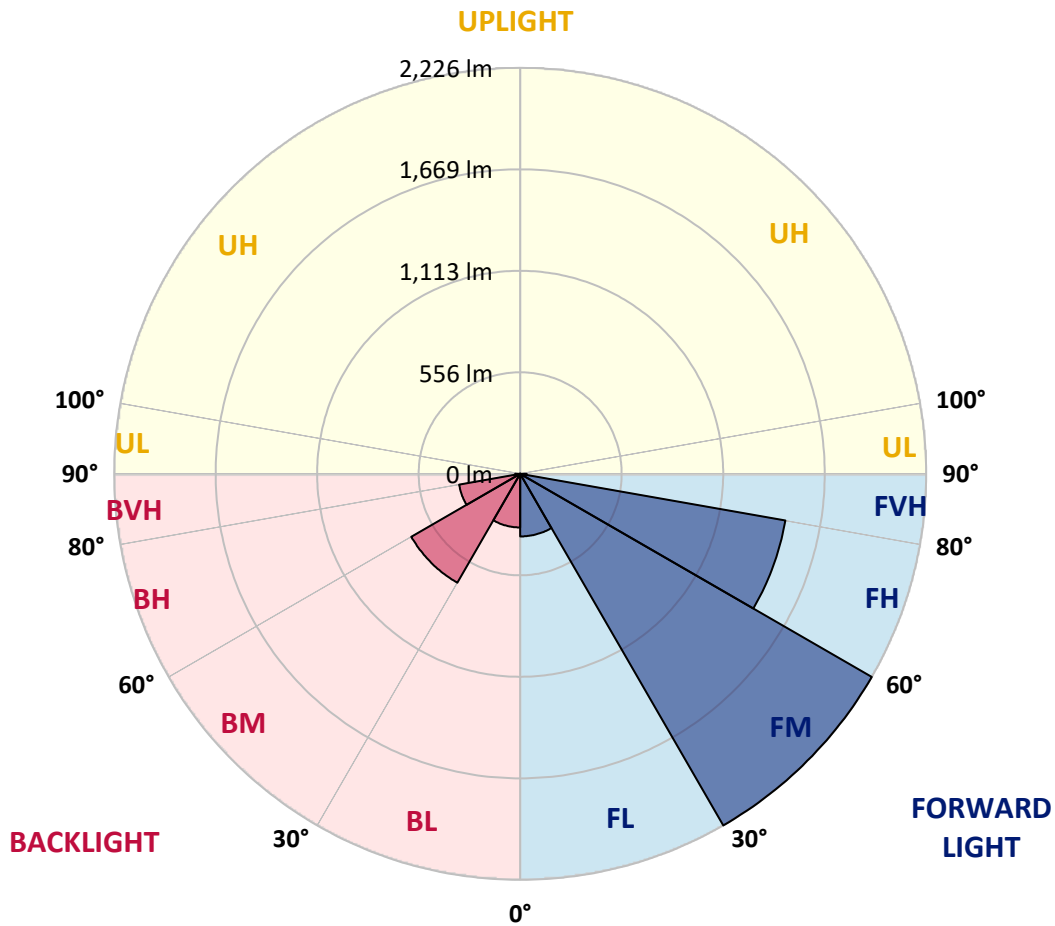
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.2	6.3			
FM (30°-60°)	2226.0	41.0			
FH (60°-80°)	1476.6	27.2			G1/1800
FVH (80°-90°)	35.5	0.7			G1/100
BL (0°-30°)	294.2	5.4	B1/500		
BM (30°-60°)	689.4	12.7	B1/1000		
BH (60°-80°)	339.9	6.3	B1/500		G1/500
BVH (80°-90°)	27.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5
2.5°	596.2	599.6	598.8	597.3	597.1	597.6	598.5	599.3	599.1	600.5
5°	594.5	597.9	597.6	597.6	598.8	601.1	602.5	603.9	602.5	604.2
7.5°	595.6	598.2	599.3	600.5	603.3	607.6	611.0	614.2	612.5	614.5
10°	610.2	612.2	613.3	613.3	615.3	620.2	623.6	629.3	627.9	631.0
12.5°	636.7	638.7	638.7	637.6	639.0	642.2	643.3	649.6	647.0	652.1
15°	669.3	673.3	670.1	668.1	668.7	671.8	671.5	676.4	673.8	678.1
17.5°	705.2	710.4	705.2	704.9	703.8	707.2	707.5	711.8	707.2	710.4
20°	747.7	754.9	750.6	752.0	749.5	750.9	752.3	758.6	751.5	753.7
22.5°	807.7	816.2	811.7	817.1	815.4	814.2	814.0	825.1	814.0	814.8
25°	895.0	905.3	897.3	904.7	904.7	908.4	912.7	927.0	908.4	903.0
27.5°	1024.0	1034.3	1018.6	1023.2	1021.7	1030.9	1026.3	1061.7	1041.7	1032.9
30°	1179.3	1197.5	1167.9	1166.7	1165.3	1179.8	1186.4	1209.8	1189.5	1180.7
32.5°	1347.1	1366.2	1330.8	1320.5	1315.1	1324.0	1318.6	1337.4	1323.4	1309.7
35°	1524.6	1543.4	1509.8	1489.8	1468.1	1449.5	1430.1	1435.0	1421.9	1401.0
37.5°	1692.4	1727.0	1691.3	1669.9	1629.9	1593.7	1539.5	1516.9	1504.6	1485.5
40°	1863.4	1883.1	1856.0	1837.7	1794.3	1737.5	1650.8	1603.1	1586.5	1568.0
42.5°	1989.2	2008.1	1993.5	1981.0	1947.0	1881.1	1768.9	1709.3	1685.3	1664.5
45°	2089.1	2103.1	2094.0	2098.6	2084.0	2020.1	1891.3	1823.1	1798.3	1772.9
47.5°	2129.4	2144.2	2158.8	2185.9	2210.7	2163.6	2022.9	1946.4	1920.2	1894.2
50°	2124.8	2139.9	2182.2	2239.8	2316.9	2301.2	2161.6	2077.7	2053.5	2023.8
52.5°	2088.3	2105.4	2159.6	2255.5	2378.2	2404.2	2302.9	2213.3	2190.4	2155.1
55°	1992.4	2002.7	2084.0	2219.8	2392.8	2476.1	2441.3	2357.7	2334.9	2285.5
57.5°	1814.6	1829.4	1947.9	2123.7	2356.3	2524.9	2562.9	2509.5	2487.6	2416.5
60°	1582.5	1606.2	1741.8	1962.1	2263.2	2524.7	2673.3	2658.8	2640.5	2545.5
62.5°	1320.0	1347.4	1477.8	1733.8	2100.5	2453.0	2742.4	2783.8	2774.4	2664.5
65°	1013.7	1032.6	1162.4	1438.4	1847.4	2299.2	2750.4	2869.1	2870.8	2755.0
67.5°	675.0	729.2	841.9	1079.4	1508.3	2047.7	2680.2	2883.1	2899.7	2786.1
70°	329.4	400.7	511.2	701.5	1079.4	1662.2	2496.7	2768.4	2805.2	2695.3
72.5°	136.7	159.8	220.0	346.2	619.6	1121.6	2127.9	2457.3	2525.5	2388.2
75°	92.2	99.9	125.9	177.5	282.3	553.1	1534.6	1832.3	1942.2	1803.7
77.5°	71.1	75.9	91.6	124.1	167.8	209.2	821.4	1104.2	1161.0	1074.8
80°	55.9	59.6	68.5	90.5	119.0	111.9	280.0	500.3	533.1	447.2
82.5°	48.5	49.9	49.1	61.4	79.1	65.4	91.9	184.7	203.8	147.8
85°	35.1	39.1	40.8	38.0	42.0	33.1	37.7	65.4	71.9	64.2
87.5°	14.3	21.1	26.0	24.5	15.4	9.4	11.7	19.1	22.0	24.0
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°
602.5	0°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5
602.8	2.5°	603.1	605.0	606.5	608.2	609.3	611.0	614.5	616.5	616.8	618.2
607.3	5°	608.5	611.3	614.5	619.0	624.2	628.5	635.0	639.6	641.3	642.7
618.5	7.5°	620.2	624.2	629.9	637.9	645.3	651.0	659.0	664.4	669.8	671.8
636.2	10°	637.6	643.3	651.6	662.4	670.4	677.8	686.1	690.7	696.1	698.4
657.3	12.5°	659.3	665.3	676.1	691.2	698.7	703.8	706.7	705.5	706.7	708.6
682.7	15°	684.1	690.7	702.9	719.2	724.3	719.8	713.5	707.8	706.9	707.5
713.5	17.5°	713.5	718.4	732.6	746.3	742.6	723.8	710.1	700.9	696.4	695.0
752.9	20°	754.6	754.6	766.3	774.9	750.0	718.1	696.7	681.8	672.4	668.4
806.5	22.5°	804.5	800.0	807.4	801.4	748.6	702.1	672.4	646.7	632.4	626.7
881.6	25°	867.9	862.5	860.5	823.4	738.3	676.7	628.5	597.3	584.8	581.6
989.8	27.5°	963.5	949.8	923.8	835.4	719.5	636.7	577.1	548.3	541.1	541.4
1128.8	30°	1090.8	1063.4	999.8	837.4	688.7	580.2	524.6	504.0	500.6	502.0
1245.5	32.5°	1208.7	1182.7	1077.4	828.2	641.3	524.9	477.5	463.8	458.6	460.4
1334.5	35°	1301.1	1294.0	1149.3	815.4	583.1	472.9	435.2	423.5	413.5	411.3
1418.4	37.5°	1388.5	1385.6	1203.2	797.4	525.4	436.1	401.3	385.9	371.3	363.3
1511.2	40°	1484.4	1481.5	1238.6	769.7	474.3	404.1	370.7	350.5	332.5	317.9
1616.2	42.5°	1592.2	1575.4	1255.5	730.1	431.0	377.0	345.9	318.5	294.8	281.4
1735.0	45°	1710.1	1672.2	1255.2	679.5	394.4	352.2	319.4	280.5	258.6	246.0
1856.8	47.5°	1835.1	1764.6	1239.8	623.6	359.0	324.8	278.3	248.6	234.0	226.3
1989.2	50°	1964.1	1851.1	1213.5	559.4	322.8	293.7	252.6	232.3	221.2	214.1
2120.5	52.5°	2085.4	1929.6	1181.8	486.6	286.0	263.4	241.2	225.5	213.8	205.8
2247.8	55°	2198.2	1997.2	1137.0	412.1	256.0	243.2	235.7	222.6	209.2	199.8
2377.1	57.5°	2298.3	2041.2	1059.7	342.2	234.6	229.2	230.0	217.8	202.3	194.4
2504.4	60°	2381.7	2073.4	945.2	277.4	217.2	215.5	221.2	208.6	190.6	181.5
2612.0	62.5°	2431.6	2072.9	804.8	227.2	202.3	202.9	209.5	197.2	178.9	170.4
2668.2	65°	2427.3	2022.1	650.7	194.4	188.1	188.6	197.2	184.7	169.2	164.1
2640.0	67.5°	2341.4	1898.2	499.2	173.0	172.4	175.0	184.9	176.1	163.2	162.7
2471.6	70°	2108.8	1641.1	359.6	155.8	156.1	159.8	173.0	170.7	160.1	161.3
2078.0	72.5°	1691.0	1251.2	241.4	137.8	138.1	144.1	161.5	166.4	157.0	172.1
1474.4	75°	1126.2	780.3	155.3	118.7	119.0	126.7	151.5	158.1	148.4	171.5
767.2	77.5°	541.1	350.8	112.4	99.9	99.9	107.0	131.0	141.6	126.4	133.3
246.6	80°	186.9	131.9	88.5	80.5	78.8	83.6	110.5	122.7	109.0	100.5
80.5	82.5°	73.6	68.5	71.1	62.5	56.8	59.9	85.9	101.3	80.2	72.5
45.4	85°	42.2	44.5	50.2	41.4	32.8	36.8	63.1	72.8	60.5	53.4
14.8	87.5°	11.4	15.7	23.1	21.4	14.8	15.7	30.0	40.2	34.8	26.8
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

180°
602.5
617.9
642.4
672.1
699.5
709.2
709.5
696.9
667.6
625.9
582.2
542.3
506.9
462.6
413.0
363.6
319.4
282.3
245.4
224.6
211.5
202.3
196.1
189.2
177.5
167.8
163.8
163.5
161.0
174.4
173.0
122.2
94.2
72.2
54.5
27.7
0.0

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