

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: P947295

Luminaire Tested: **GALN-SB2C-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
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-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10607 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

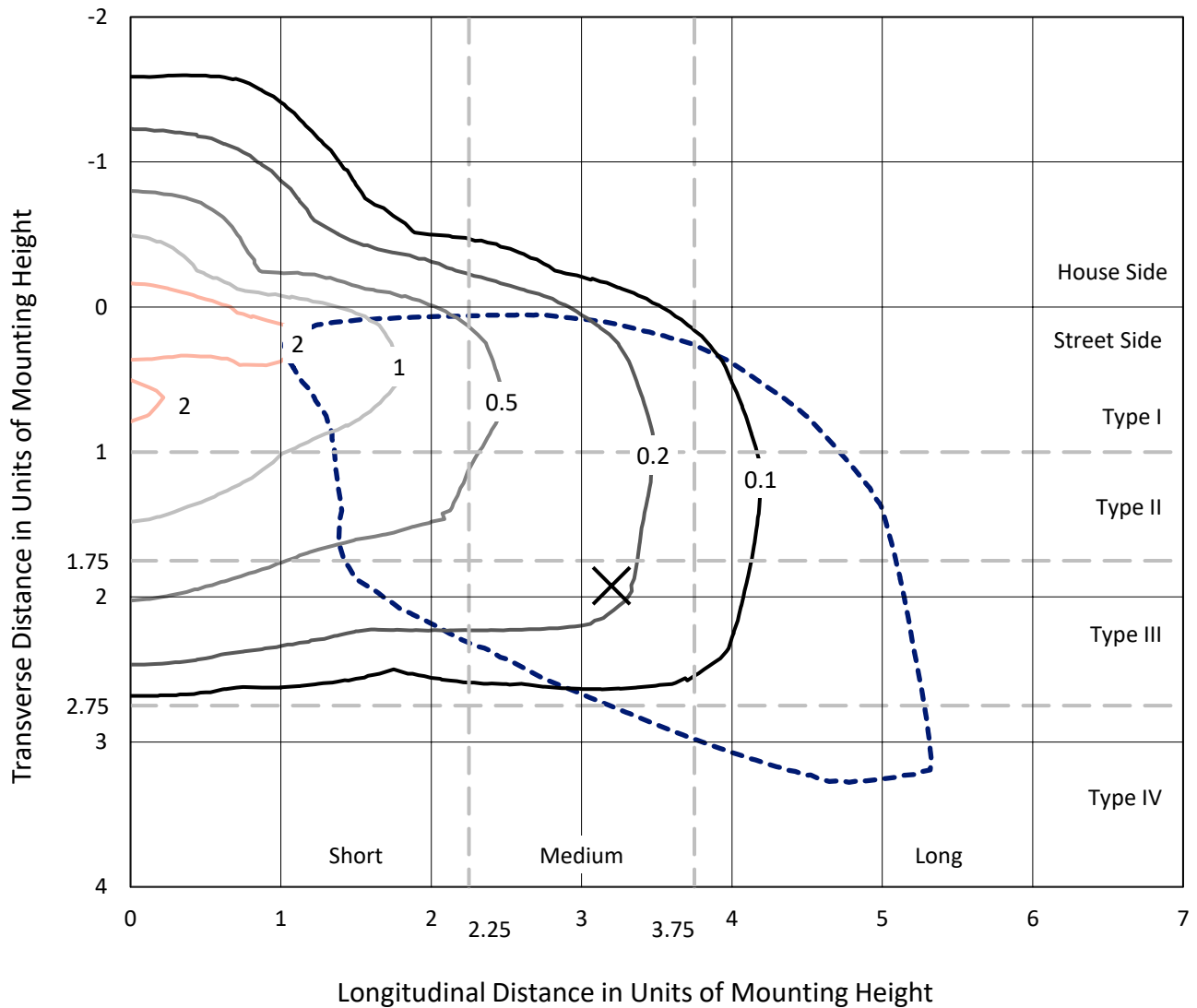
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

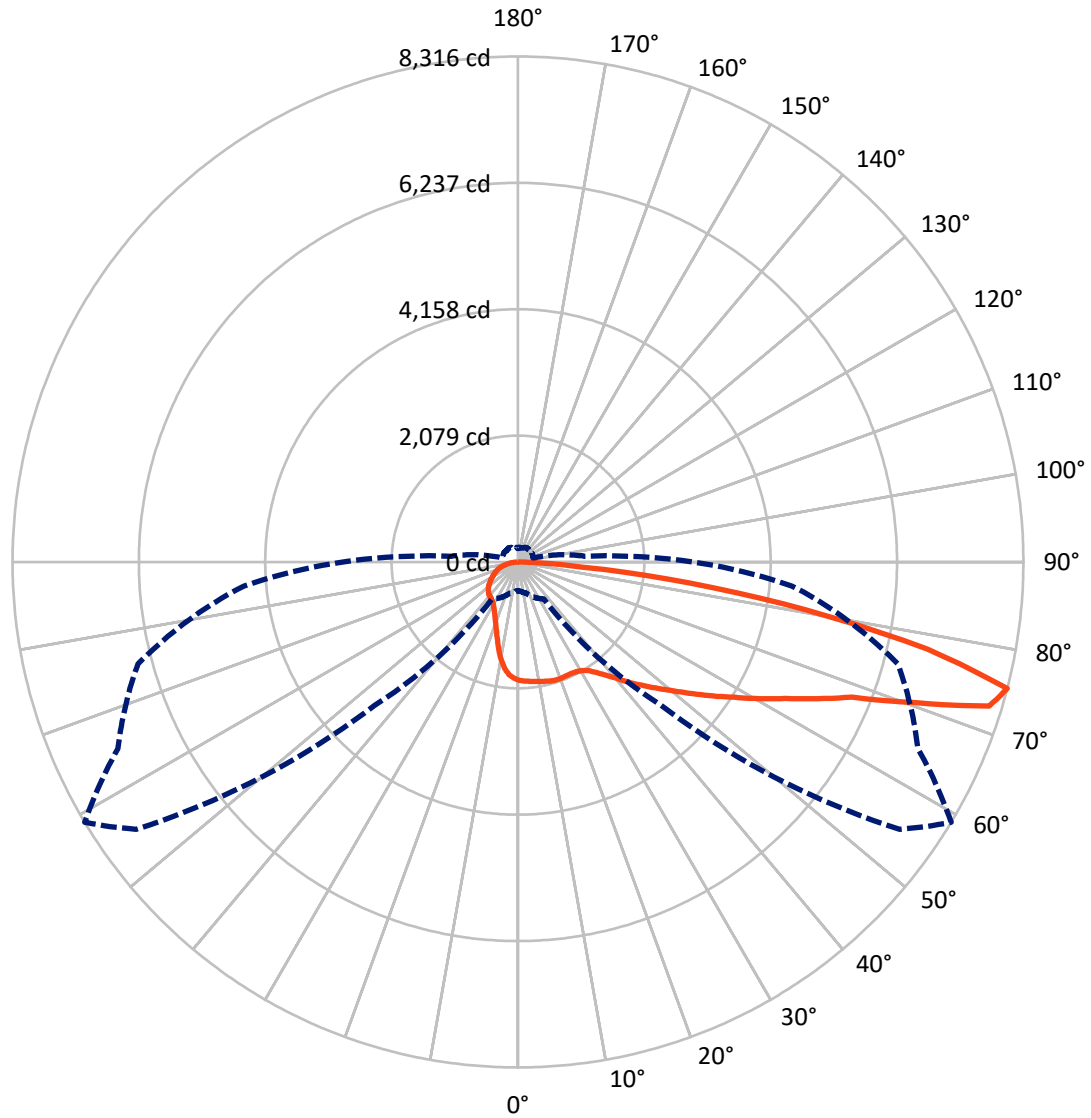
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1989.4	0.0	1989.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8617.6	0.0	8617.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	10607.0	0.0	10607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	1.6
10°-20°	446.2	4.2
20°-30°	677.8	6.4
30°-40°	1007.5	9.5
40°-50°	1498.3	14.1
50°-60°	2033.8	19.2
60°-70°	2482.9	23.4
70°-80°	1948.5	18.4
80°-90°	337.5	3.2
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°	10607.0	100.0
0°-180°	10607.0	100.0

Coefficient of Utilization



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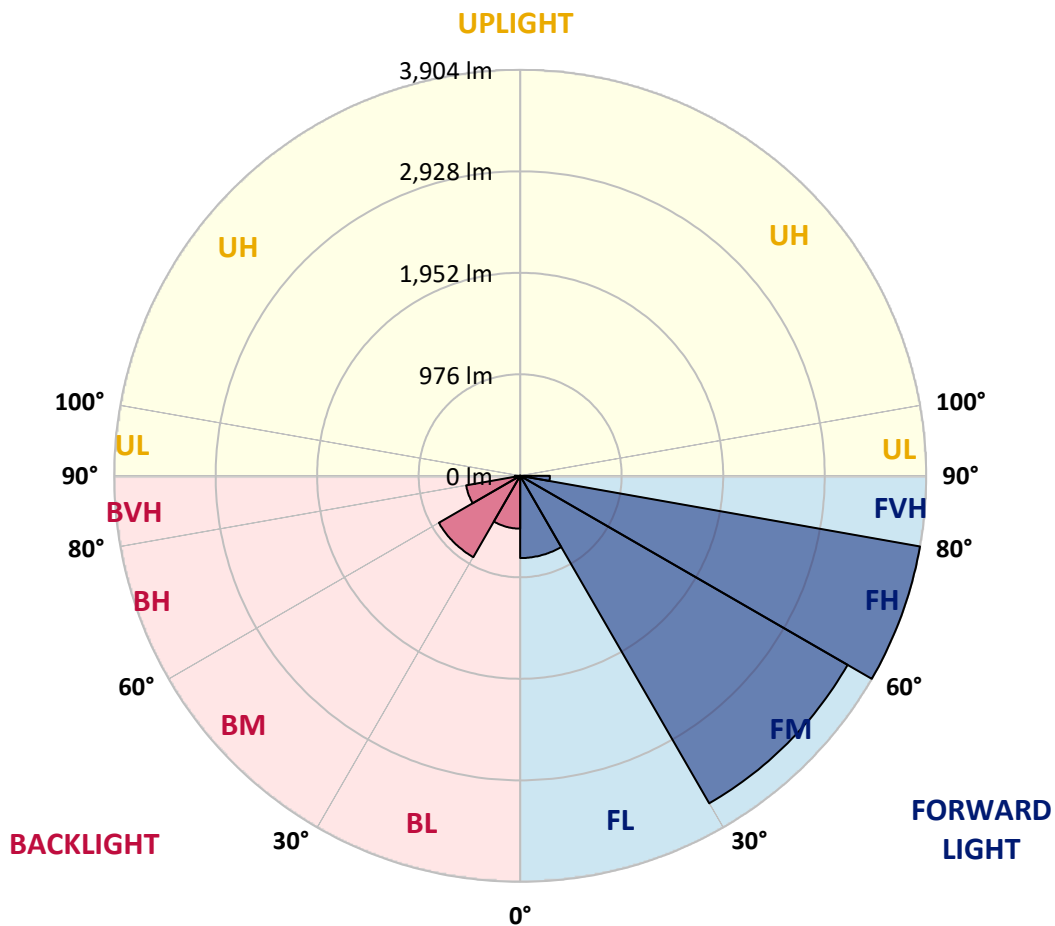
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	790.9	7.5			
FM (30°-60°)	3636.5	34.3			
FH (60°-80°)	3904.3	36.8			G2/5000
FVH (80°-90°)	285.9	2.7			G3/500
BL (0°-30°)	507.7	4.8	B2/1000		
BM (30°-60°)	903.0	8.5	B1/1000		
BH (60°-80°)	527.1	5.0	B2/1000		G2/1000
BVH (80°-90°)	51.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9
2.5°	1963.4	1956.6	1963.4	1960.6	1959.4	1957.2	1957.7	1961.7	1959.4	1962.3
5°	1950.3	1946.3	1953.2	1951.5	1958.9	1960.0	1967.4	1972.0	1974.9	1975.4
7.5°	1928.6	1924.6	1934.3	1942.3	1958.3	1962.9	1978.3	1985.7	1989.7	1996.5
10°	1849.3	1847.6	1871.6	1901.8	1939.5	1962.9	1986.3	1998.8	2005.1	2023.4
12.5°	1709.0	1711.2	1742.6	1800.8	1876.1	1951.5	1995.4	2013.7	2023.4	2046.2
15°	1574.9	1574.3	1608.5	1670.7	1776.3	1901.2	2000.0	2031.3	2047.9	2081.6
17.5°	1497.3	1495.0	1518.9	1566.3	1664.4	1824.2	1988.5	2041.0	2076.4	2118.6
20°	1483.0	1478.4	1491.0	1514.4	1584.0	1739.8	1958.9	2041.0	2099.2	2154.0
22.5°	1534.9	1527.5	1522.4	1519.5	1550.3	1670.1	1925.2	2034.2	2132.9	2204.8
25°	1639.3	1627.9	1601.7	1576.0	1566.9	1638.8	1895.5	2032.5	2183.1	2273.3
27.5°	1808.2	1794.0	1740.9	1679.3	1623.9	1654.7	1882.4	2042.8	2238.5	2345.7
30°	2017.6	2002.2	1935.5	1840.8	1741.5	1714.1	1899.0	2073.0	2309.2	2442.2
32.5°	2205.4	2188.3	2131.2	2034.8	1900.7	1816.8	1951.5	2130.6	2420.5	2576.3
35°	2372.0	2352.0	2300.7	2211.7	2095.8	1961.2	2046.2	2232.8	2578.5	2794.2
37.5°	2535.2	2511.8	2455.9	2361.7	2280.7	2153.4	2176.8	2364.0	2788.5	3059.0
40°	2717.8	2684.1	2616.2	2523.2	2444.5	2378.8	2348.6	2524.9	3001.9	3354.6
42.5°	2894.7	2862.7	2781.7	2702.4	2603.7	2584.8	2547.7	2713.2	3235.3	3679.2
45°	3085.2	3047.0	2948.9	2848.4	2786.2	2721.8	2740.6	2901.5	3464.1	4010.2
47.5°	3263.8	3221.0	3105.2	2993.4	2959.1	2837.0	2917.5	3108.6	3702.1	4345.7
50°	3360.3	3318.0	3221.6	3120.6	3093.8	2979.1	3109.2	3336.3	3951.4	4680.1
52.5°	3440.7	3395.1	3269.0	3213.1	3205.1	3133.7	3345.4	3596.5	4200.8	4975.6
55°	3526.3	3475.5	3314.6	3264.4	3300.9	3307.2	3625.6	3891.5	4464.4	5263.8
57.5°	3625.0	3560.6	3358.6	3307.8	3394.5	3510.3	3947.4	4197.3	4723.4	5530.8
60°	3718.0	3653.0	3443.0	3376.8	3495.5	3746.0	4316.6	4567.7	5016.7	5768.8
62.5°	3736.3	3682.7	3510.3	3509.8	3632.4	4021.0	4753.7	4941.4	5272.9	6003.9
65°	3420.2	3386.5	3284.4	3504.6	3828.7	4417.0	5240.4	5419.6	5598.7	6209.3
67.5°	2603.1	2607.6	2600.2	3025.3	3670.1	4985.9	5945.1	5931.4	6001.0	6439.8
70°	1190.3	1217.1	1391.7	2088.4	2940.3	5051.5	7110.3	6932.8	6506.0	6738.2
72.5°	643.1	663.6	734.9	1011.7	1767.7	4491.2	7981.0	8107.1	7177.6	6939.1
75°	471.9	483.3	532.9	643.1	742.4	3338.0	7668.9	8315.9	7261.5	6470.6
77.5°	353.2	358.3	398.9	509.5	380.0	1759.7	6127.7	6887.2	6216.1	5316.3
80°	256.2	261.9	292.1	382.3	266.5	643.6	4207.6	4834.1	4257.3	3388.8
82.5°	176.9	179.2	192.3	260.2	186.0	249.9	2387.4	2834.7	2376.6	1189.1
85°	106.7	109.6	115.3	151.8	105.6	118.7	1030.5	1065.9	710.4	284.2
87.5°	43.9	46.8	51.4	63.9	41.7	33.1	170.0	213.4	133.0	83.3
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°
1946.9	0°	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9
1952.6	2.5°	1949.7	1945.8	1934.9	1920.1	1906.4	1889.3	1881.8	1875.6	1869.9	1859.0
1968.0	5°	1961.7	1950.9	1921.8	1884.1	1841.3	1794.5	1748.9	1717.5	1690.7	1670.7
1985.7	7.5°	1980.0	1959.4	1906.4	1829.3	1731.2	1630.8	1540.1	1475.6	1427.1	1409.4
2010.8	10°	1998.8	1974.3	1881.8	1746.0	1576.6	1421.9	1301.5	1235.4	1196.6	1184.0
2040.5	12.5°	2021.1	1985.1	1843.6	1630.2	1403.7	1234.2	1129.2	1090.4	1070.4	1063.6
2077.0	15°	2053.6	1994.3	1786.0	1485.3	1238.8	1097.3	1029.4	1002.5	992.3	991.7
2114.6	17.5°	2078.1	1996.0	1696.4	1330.1	1112.1	1014.5	958.6	948.3	955.2	965.5
2151.7	20°	2105.5	1980.6	1578.9	1188.6	1023.1	942.1	918.7	925.5	942.1	956.9
2200.8	22.5°	2124.9	1952.6	1436.8	1078.4	946.1	900.4	899.3	913.5	922.7	930.1
2258.4	25°	2142.0	1905.2	1286.1	986.0	882.7	875.3	887.9	883.3	877.0	883.3
2316.1	27.5°	2154.6	1830.5	1151.5	905.0	838.2	858.2	850.8	840.5	839.9	843.3
2384.0	30°	2150.6	1730.6	1040.8	827.9	806.8	826.2	808.5	806.8	805.1	806.8
2486.1	32.5°	2150.6	1617.1	955.8	774.9	786.9	779.4	777.7	773.7	766.9	766.3
2624.8	35°	2162.6	1503.5	882.7	746.3	770.3	752.6	753.8	744.1	729.8	723.0
2808.5	37.5°	2187.1	1412.2	810.3	732.7	741.2	740.6	736.1	719.5	694.4	672.7
3037.9	40°	2246.5	1385.4	760.6	726.4	727.5	734.4	722.4	690.4	633.4	598.0
3270.7	42.5°	2339.5	1430.5	749.8	711.0	718.4	725.2	701.8	627.7	587.1	566.0
3514.9	45°	2457.6	1509.2	773.2	688.7	696.7	708.7	639.1	603.7	585.4	586.0
3756.8	47.5°	2607.1	1592.0	816.5	669.3	665.3	672.2	597.4	575.7	550.6	556.9
3989.1	50°	2780.0	1675.9	857.6	643.1	630.5	608.3	570.6	550.1	518.1	503.3
4213.3	52.5°	2967.1	1756.9	874.2	611.1	592.9	567.2	552.3	527.2	488.4	463.9
4425.0	55°	3144.6	1830.5	855.9	572.9	555.2	535.2	532.9	517.5	475.9	441.6
4613.3	57.5°	3312.3	1892.1	810.3	534.1	517.0	505.0	520.4	513.0	460.5	416.5
4791.3	60°	3454.4	1934.3	744.1	494.7	482.7	476.5	499.8	497.6	438.8	389.7
4951.1	62.5°	3567.4	1950.9	671.0	457.1	454.2	442.8	471.3	471.3	411.4	363.5
5091.5	65°	3655.8	1934.9	596.8	420.0	425.7	408.6	436.5	433.1	382.3	340.1
5253.0	67.5°	3734.0	1882.4	514.7	383.4	396.6	374.9	400.0	392.0	350.3	316.7
5392.8	70°	3768.8	1760.3	421.1	346.9	362.9	341.8	363.5	348.6	314.4	291.6
5239.3	72.5°	3489.2	1463.0	331.5	308.7	322.4	305.3	324.1	307.0	275.6	265.3
4524.3	75°	2886.7	1097.8	255.1	267.0	277.3	264.2	276.7	264.2	235.7	243.1
3342.0	77.5°	2096.4	741.2	195.1	223.1	227.7	220.8	231.7	217.4	191.7	190.0
1665.6	80°	1042.5	434.2	152.9	176.3	174.6	170.0	182.6	175.7	154.1	163.2
449.6	82.5°	301.8	186.0	111.3	123.8	120.4	121.5	130.7	134.1	200.9	199.1
139.8	85°	94.7	73.0	66.8	69.0	65.6	67.3	77.0	152.9	141.5	82.7
43.4	87.5°	24.5	25.1	16.5	17.7	18.3	21.7	24.5	93.0	44.5	29.1
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>
1946.9
1853.9
1654.2
1378.6
1164.6
1065.3
994.0
969.5
962.0
934.1
887.3
849.1
813.1
773.7
729.8
680.2
602.6
566.0
588.9
572.9
507.3
463.3
441.6
414.3
388.0
361.8
337.8
314.4
287.0
256.8
222.0
181.5
161.5
203.7
89.6
30.8
0.0

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