

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: P949741

Luminaire Tested: **GALN-SB4B-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14102 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

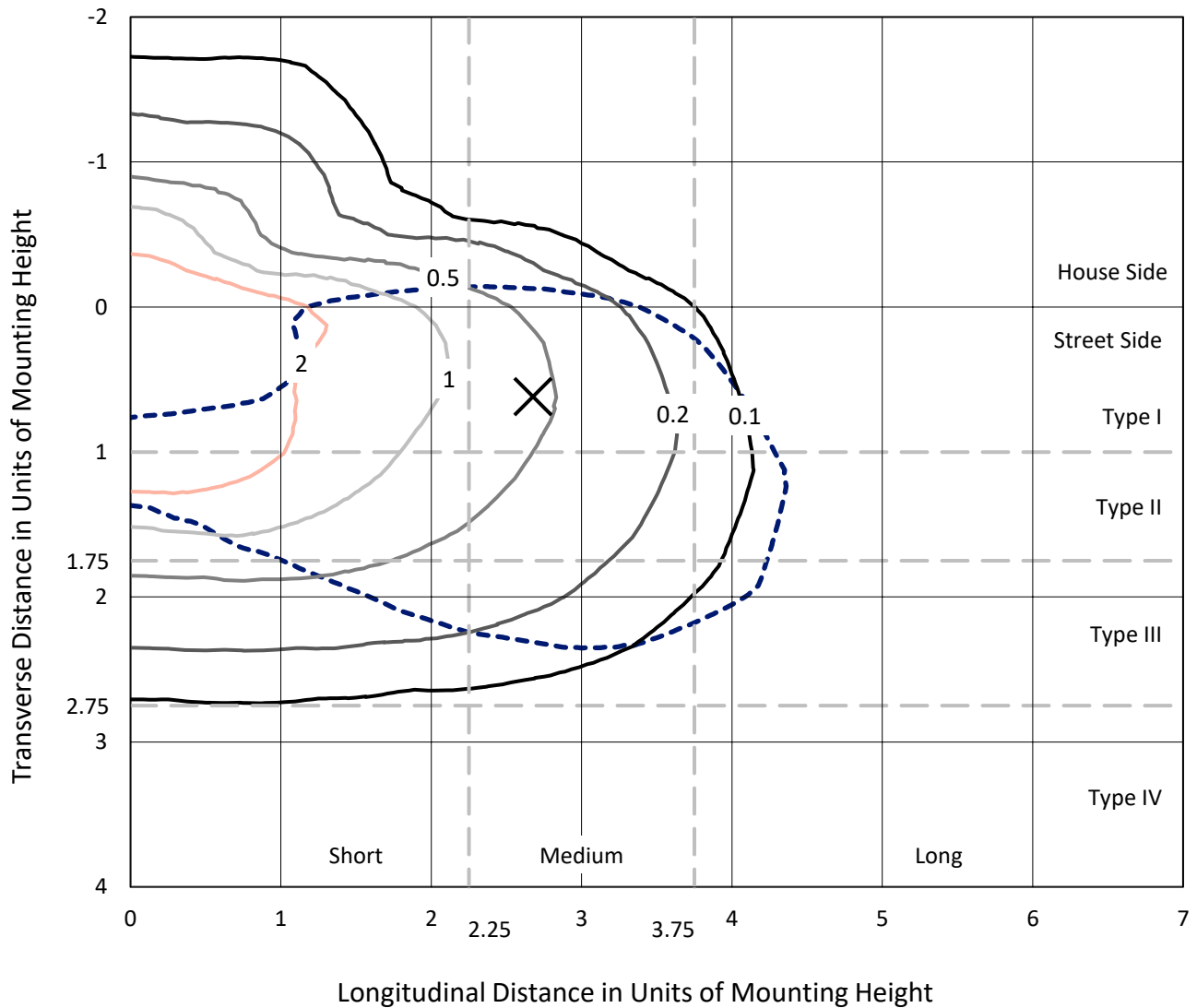
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

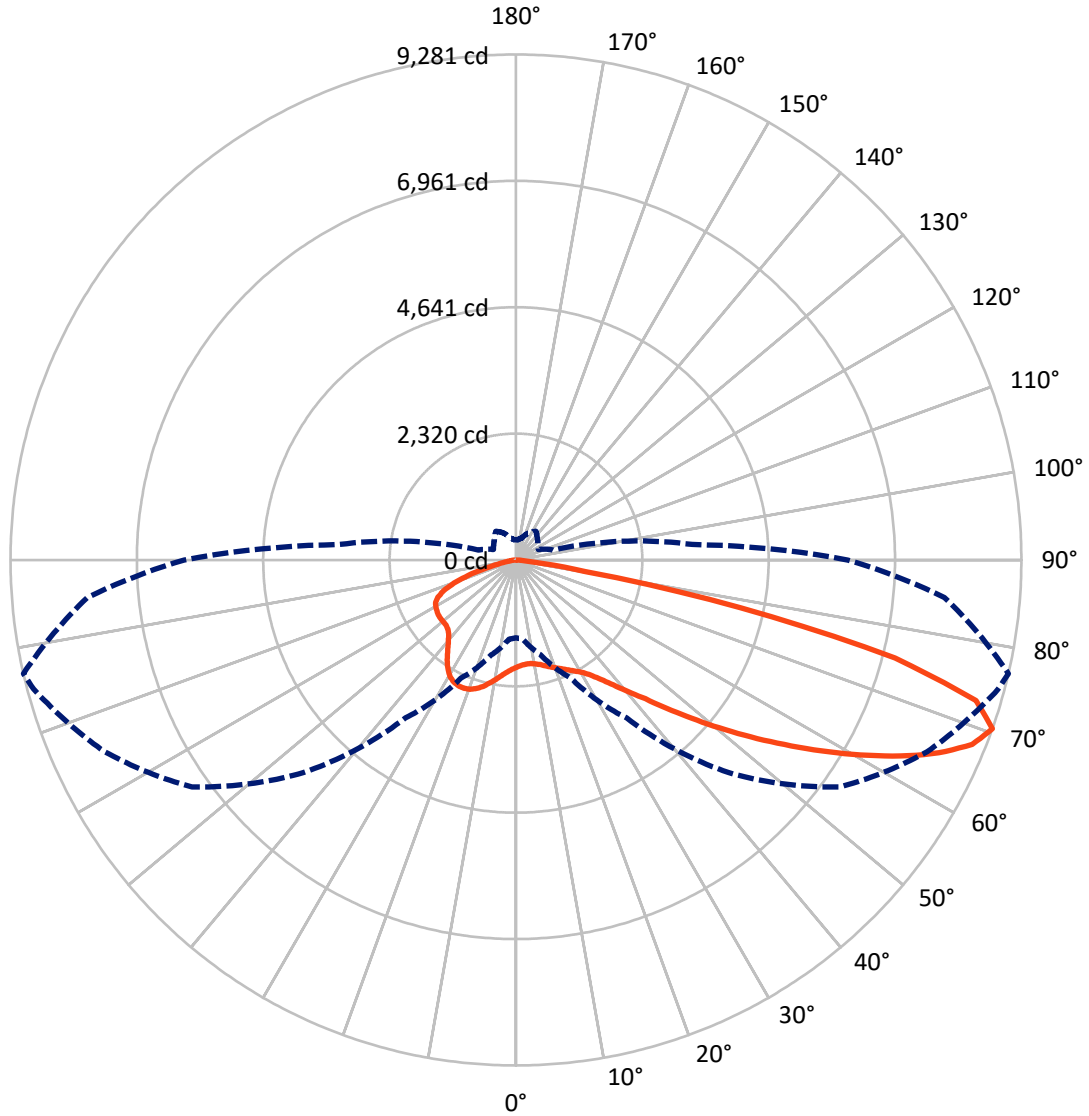
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3088.1	0.0	3088.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11013.9	0.0	11013.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	14102.0	0.0	14102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.6	1.3
10°-20°	541.5	3.8
20°-30°	926.1	6.6
30°-40°	1489.2	10.6
40°-50°	2325.1	16.5
50°-60°	3105.8	22.0
60°-70°	3310.3	23.5
70°-80°	2037.8	14.5
80°-90°	178.6	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°	14102.0	100.0
0°-180°	14102.0	100.0

Coefficient of Utilization



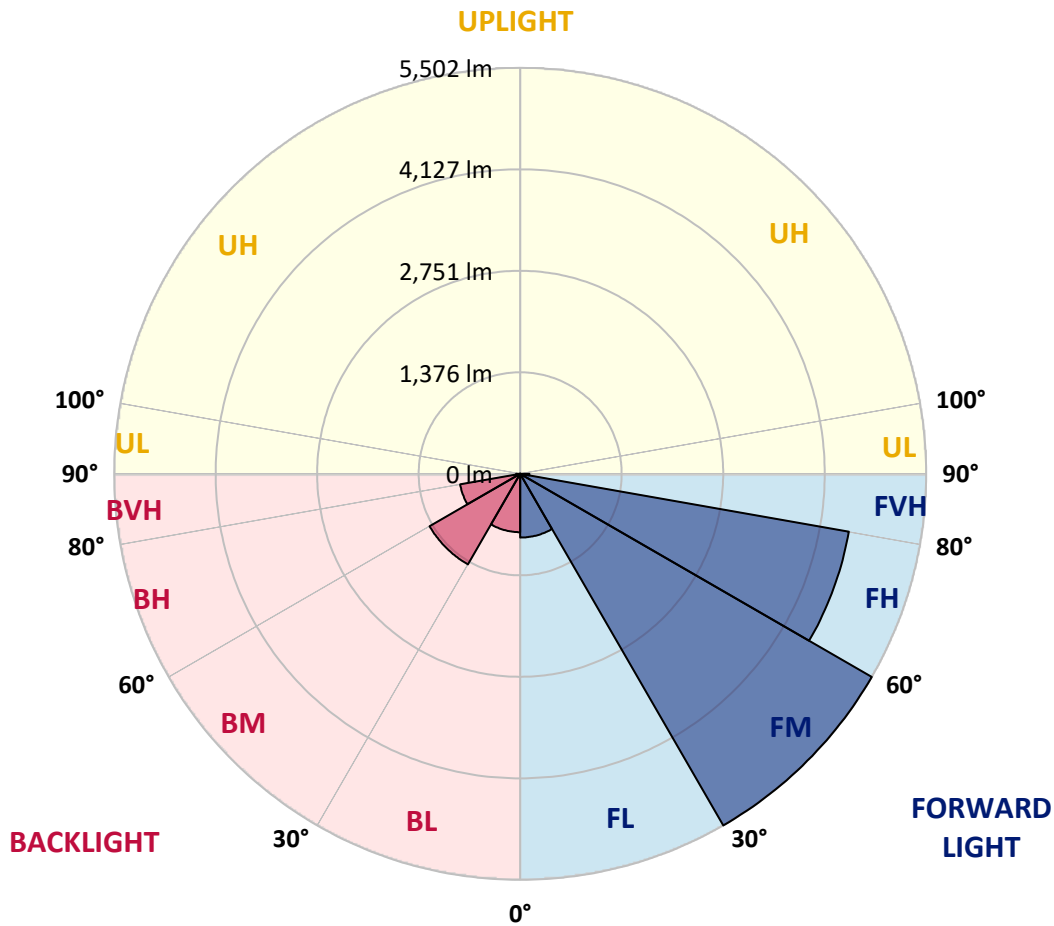
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	864.0	6.1			
FM (30°-60°)	5502.3	39.0			
FH (60°-80°)	4522.7	32.1			G2/5000
FVH (80°-90°)	124.9	0.9			G2/225
BL (0°-30°)	791.3	5.6	B2/1000		
BM (30°-60°)	1417.8	10.1	B2/2500		
BH (60°-80°)	825.3	5.9	B2/1000		G2/1000
BVH (80°-90°)	53.7	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4
2.5°	1813.5	1812.8	1822.2	1825.1	1842.4	1854.7	1877.8	1902.4	1934.1	1937.7
5°	1708.8	1708.8	1719.6	1731.2	1753.6	1778.1	1813.5	1856.1	1911.0	1919.7
7.5°	1620.0	1625.7	1635.1	1657.5	1683.5	1718.9	1773.1	1833.7	1906.0	1919.7
10°	1548.5	1555.0	1566.5	1584.6	1623.6	1672.7	1743.5	1821.5	1918.2	1939.9
12.5°	1526.1	1532.6	1539.1	1552.8	1588.9	1646.7	1731.2	1827.2	1947.9	1969.5
15°	1578.1	1586.0	1581.0	1577.4	1596.1	1648.9	1737.0	1848.2	1984.7	2015.7
17.5°	1698.0	1700.9	1689.3	1655.4	1652.5	1680.6	1764.4	1877.1	2030.9	2064.9
20°	1891.5	1886.5	1862.6	1795.5	1757.2	1751.4	1811.4	1920.4	2078.6	2114.7
22.5°	2154.4	2148.6	2101.0	1994.8	1909.6	1853.2	1879.2	1976.7	2132.0	2172.5
25°	2482.3	2474.4	2404.3	2259.9	2127.7	1988.3	1971.7	2051.1	2197.7	2235.3
27.5°	2865.1	2858.6	2782.8	2592.1	2401.4	2173.2	2086.5	2138.5	2266.4	2309.0
30°	3276.8	3295.5	3161.2	2956.1	2714.9	2414.4	2241.1	2246.1	2355.2	2393.5
32.5°	3760.7	3793.2	3631.4	3371.4	3042.0	2676.6	2436.1	2396.4	2484.5	2516.3
35°	4240.2	4277.1	4142.7	3855.3	3476.1	2985.7	2639.8	2569.0	2656.4	2691.0
37.5°	4654.8	4703.9	4634.6	4384.7	3940.5	3358.4	2905.5	2771.9	2868.0	2911.3
40°	4982.0	5057.1	5052.0	4896.0	4487.9	3810.5	3242.8	3022.5	3130.9	3177.8
42.5°	5247.7	5312.7	5369.1	5361.1	5059.2	4324.0	3639.3	3348.3	3430.6	3484.8
45°	5431.2	5500.5	5621.8	5752.6	5608.8	4873.6	4093.6	3734.7	3809.8	3891.4
47.5°	5595.1	5673.8	5831.3	6038.6	6075.4	5425.4	4591.2	4184.6	4253.2	4337.7
50°	5609.6	5677.5	5921.6	6215.5	6406.9	5955.5	5125.7	4689.4	4753.7	4844.0
52.5°	5260.7	5367.6	5793.7	6210.5	6559.3	6399.0	5656.5	5214.5	5286.7	5395.1
55°	4083.5	4240.2	5418.9	6016.9	6505.1	6685.7	6161.4	5772.8	5865.2	5978.6
57.5°	3517.3	3585.9	4301.6	5664.5	6258.1	6760.1	6587.5	6336.9	6485.6	6609.9
60°	3161.2	3218.3	3641.5	5116.3	5933.1	6642.4	6916.8	6862.6	7119.8	7267.8
62.5°	2779.9	2834.0	3219.0	4272.0	5517.1	6446.6	7124.8	7348.0	7769.8	7931.5
65°	2401.4	2447.6	2816.7	3589.5	4988.5	6250.9	7232.4	7767.6	8371.4	8538.9
67.5°	1979.6	2017.9	2366.8	3028.3	4345.7	5983.0	7285.9	8097.7	8895.0	9038.7
70°	1428.6	1458.2	1818.6	2394.9	3538.9	5522.2	7264.2	8331.7	9166.6	9281.4
72.5°	675.3	702.0	1125.2	1555.0	2499.6	4625.2	6825.8	8146.0	8890.7	8833.6
75°	360.4	383.5	646.4	853.0	1320.2	3170.6	5585.7	7017.2	7465.7	7188.4
77.5°	244.1	262.2	400.1	512.1	603.1	1505.1	3590.2	4858.4	4674.3	4216.4
80°	193.6	212.3	327.9	346.7	291.8	543.8	1483.5	2249.0	1615.6	1292.1
82.5°	148.8	169.7	275.9	251.3	158.9	223.2	431.9	711.4	413.8	314.9
85°	91.0	113.4	216.7	160.3	89.6	101.8	146.6	197.9	126.4	105.4
87.5°	46.2	65.0	109.8	58.5	40.4	23.8	39.0	39.0	33.2	28.9
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°
1967.4	0°	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4
1957.2	2.5°	1974.6	1989.0	2013.6	2036.7	2054.7	2072.1	2089.4	2098.8	2101.7	2113.2
1968.1	5°	1997.7	2024.4	2072.1	2116.9	2145.0	2162.4	2174.6	2181.9	2183.3	2186.9
1997.7	7.5°	2040.3	2082.9	2149.4	2194.1	2215.1	2213.6	2208.6	2190.5	2183.3	2176.8
2041.0	10°	2100.2	2156.6	2238.2	2269.3	2256.3	2221.6	2176.8	2124.1	2099.5	2075.7
2100.2	12.5°	2174.6	2246.1	2326.3	2324.9	2260.6	2171.7	2067.7	1986.9	1935.6	1898.7
2173.2	15°	2264.9	2347.3	2408.6	2359.5	2218.7	2059.1	1906.7	1801.2	1755.0	1714.6
2246.9	17.5°	2358.1	2446.2	2474.4	2348.7	2113.2	1892.2	1719.6	1636.6	1591.1	1569.4
2326.3	20°	2449.1	2536.5	2513.4	2286.6	1952.9	1703.0	1549.2	1503.7	1494.3	1499.4
2403.6	22.5°	2545.1	2623.1	2521.3	2166.7	1748.5	1509.5	1425.0	1426.4	1447.4	1462.5
2484.5	25°	2643.4	2696.1	2500.4	1993.4	1529.0	1367.2	1346.2	1369.4	1410.5	1440.1
2575.5	27.5°	2738.0	2761.1	2454.9	1778.9	1340.5	1265.3	1269.0	1316.6	1378.7	1419.9
2686.0	30°	2844.9	2818.9	2367.5	1537.6	1209.7	1178.0	1208.3	1263.9	1326.0	1362.9
2825.4	32.5°	2965.5	2868.7	2228.8	1314.5	1117.3	1107.9	1157.7	1193.8	1221.3	1232.1
3010.3	35°	3115.7	2938.8	2051.1	1157.7	1034.2	1056.6	1104.3	1086.2	1075.4	1069.6
3258.7	37.5°	3310.7	3033.4	1843.1	1055.9	967.1	1019.8	1039.3	983.0	940.3	919.4
3559.9	40°	3545.4	3172.0	1643.1	977.2	924.5	988.0	954.1	886.2	832.0	802.4
3898.6	42.5°	3806.2	3317.2	1474.8	918.0	900.6	962.0	891.2	810.3	723.0	713.6
4302.3	45°	4079.9	3466.7	1360.0	872.5	889.1	939.6	855.1	724.4	662.3	700.6
4707.5	47.5°	4353.6	3603.9	1290.6	838.5	883.3	914.3	823.3	676.7	632.7	688.3
5141.6	50°	4658.4	3726.7	1259.6	814.0	876.8	904.2	775.7	664.5	601.6	638.5
5590.8	52.5°	4961.0	3822.0	1236.5	789.4	867.4	896.3	752.6	650.0	564.1	566.2
6042.9	55°	5262.9	3884.2	1211.2	756.9	846.5	879.0	750.4	634.1	535.9	525.8
6521.0	57.5°	5585.0	3919.5	1180.1	720.8	810.3	834.9	748.2	621.8	527.2	510.6
7010.0	60°	5912.9	3971.5	1139.7	676.7	762.0	782.2	743.2	617.5	522.2	494.0
7470.8	62.5°	6206.9	3989.6	1091.3	634.8	699.8	730.2	732.3	613.9	508.5	460.1
7853.5	65°	6399.7	3911.6	1006.8	587.2	632.7	676.7	711.4	601.6	483.9	435.5
8042.8	67.5°	6391.7	3689.2	874.6	525.8	567.7	617.5	681.1	580.7	454.3	405.2
7899.8	70°	6094.2	3250.0	707.1	454.3	496.2	554.0	642.1	549.6	418.9	371.9
7024.4	72.5°	5226.8	2543.7	513.5	370.5	413.1	488.2	591.5	512.1	382.8	342.3
5191.4	75°	3733.9	1609.9	348.1	284.6	321.4	413.8	528.7	468.0	349.6	343.8
2600.0	77.5°	1907.4	769.2	230.4	208.0	223.9	326.4	444.2	418.2	354.6	283.8
739.6	80°	620.4	283.8	145.2	141.6	148.8	217.4	343.8	343.1	268.7	192.8
179.1	82.5°	197.9	122.1	94.6	91.0	87.4	136.5	239.8	271.6	181.3	122.1
64.3	85°	78.7	72.9	55.6	51.3	36.8	64.3	125.7	180.6	135.1	88.1
16.6	87.5°	28.9	28.9	15.2	10.8	7.9	21.7	33.9	54.2	77.3	45.5
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>
1967.4
2119.7
2192.7
2178.2
2068.5
1890.1
1710.2
1575.9
1497.2
1466.1
1448.1
1430.0
1371.5
1237.9
1075.4
924.5
804.6
723.0
720.8
714.3
665.9
581.4
533.0
512.8
496.2
460.1
435.5
407.3
376.3
340.2
324.3
252.8
170.4
121.3
90.3
44.8
0.0

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