

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: P948229

Luminaire Tested: **GALN-SB3B-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948229
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-SB3B-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15585 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

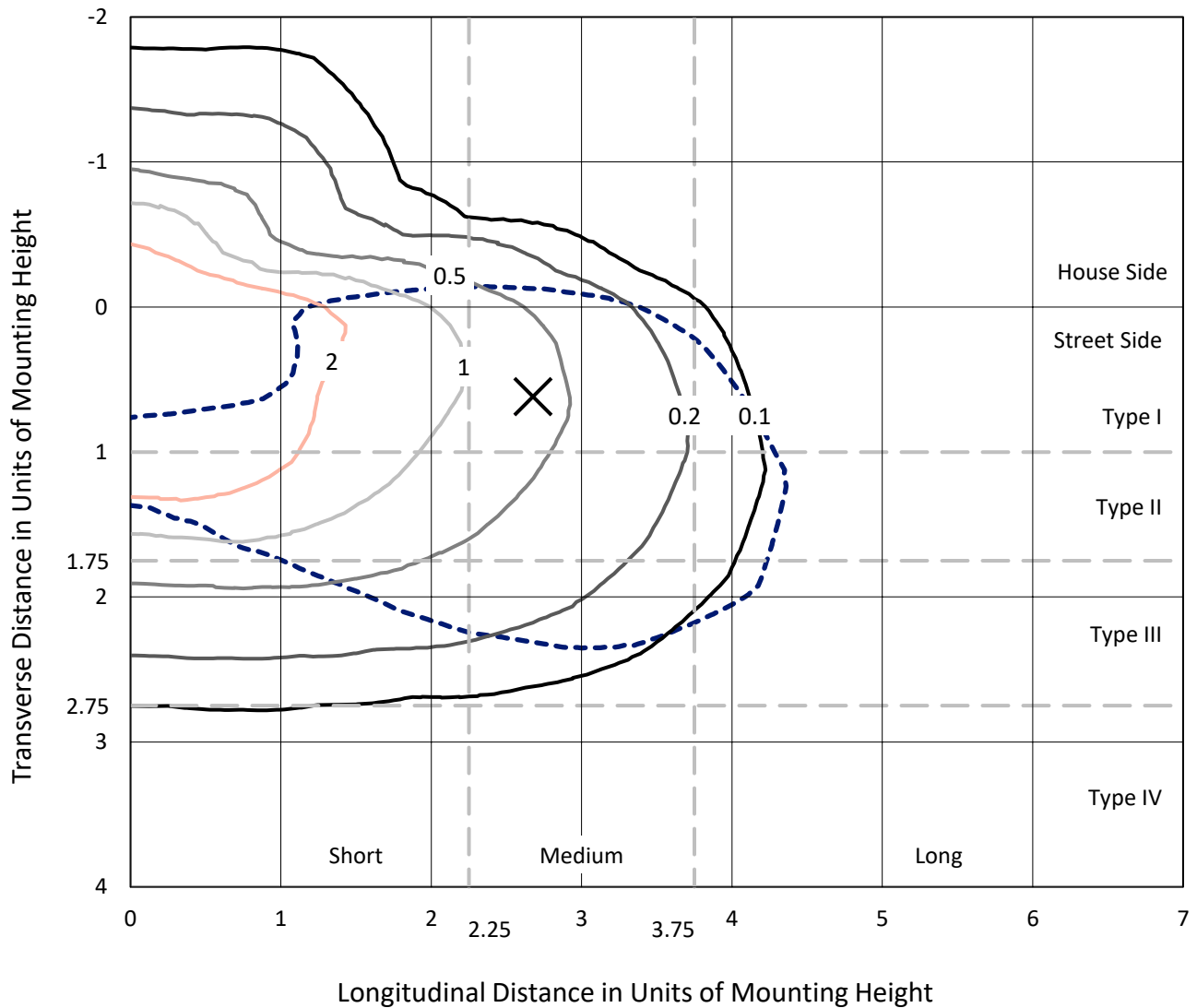
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

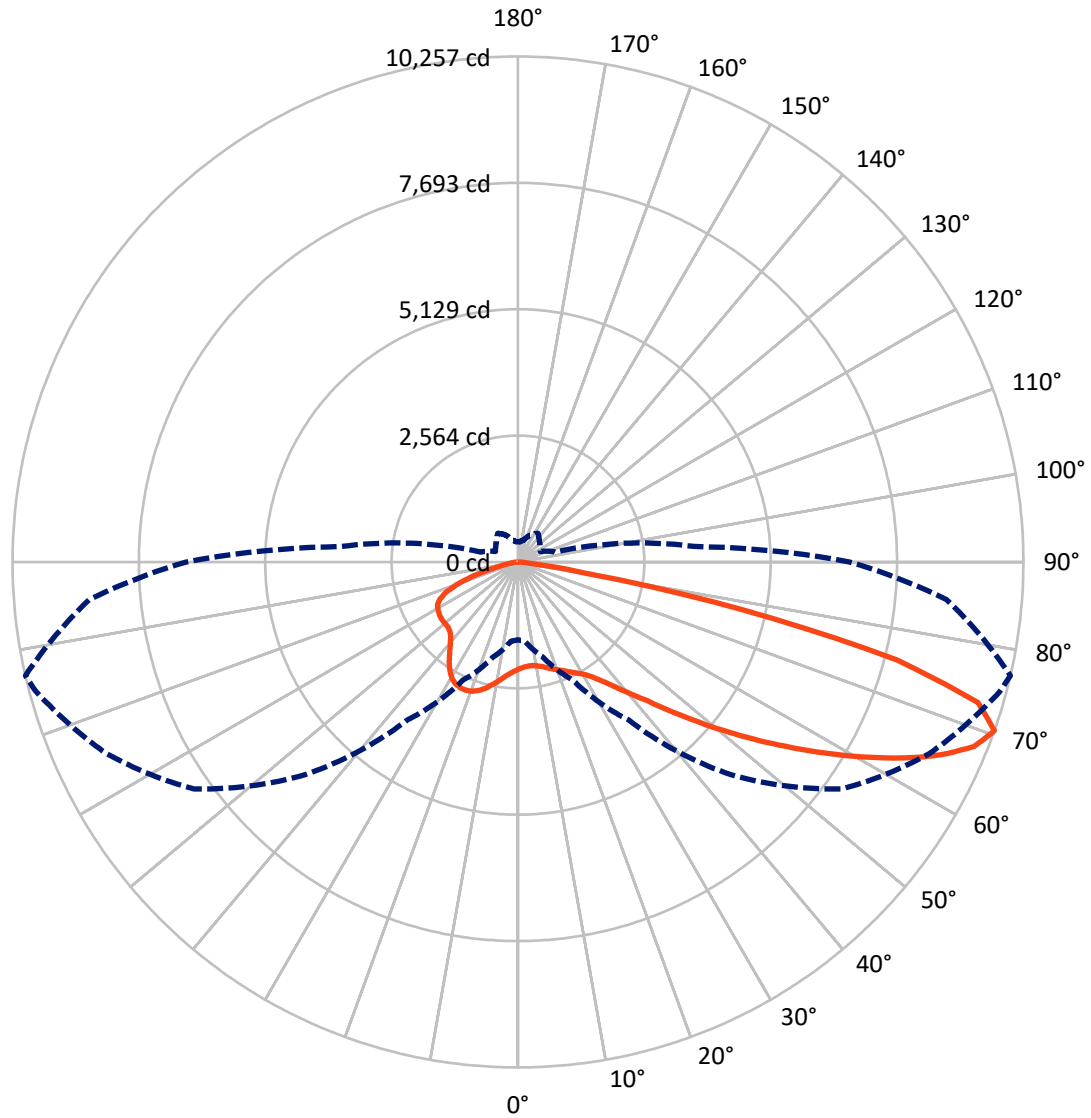
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	3412.9	0.0	3412.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12172.1	0.0	12172.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	15585.0	0.0	15585.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.4	1.3
10°-20°	598.5	3.8
20°-30°	1023.5	6.6
30°-40°	1645.9	10.6
40°-50°	2569.6	16.5
50°-60°	3432.4	22.0
60°-70°	3658.4	23.5
70°-80°	2252.1	14.5
80°-90°	197.3	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°	15585.0	100.0
0°-180°	15585.0	100.0



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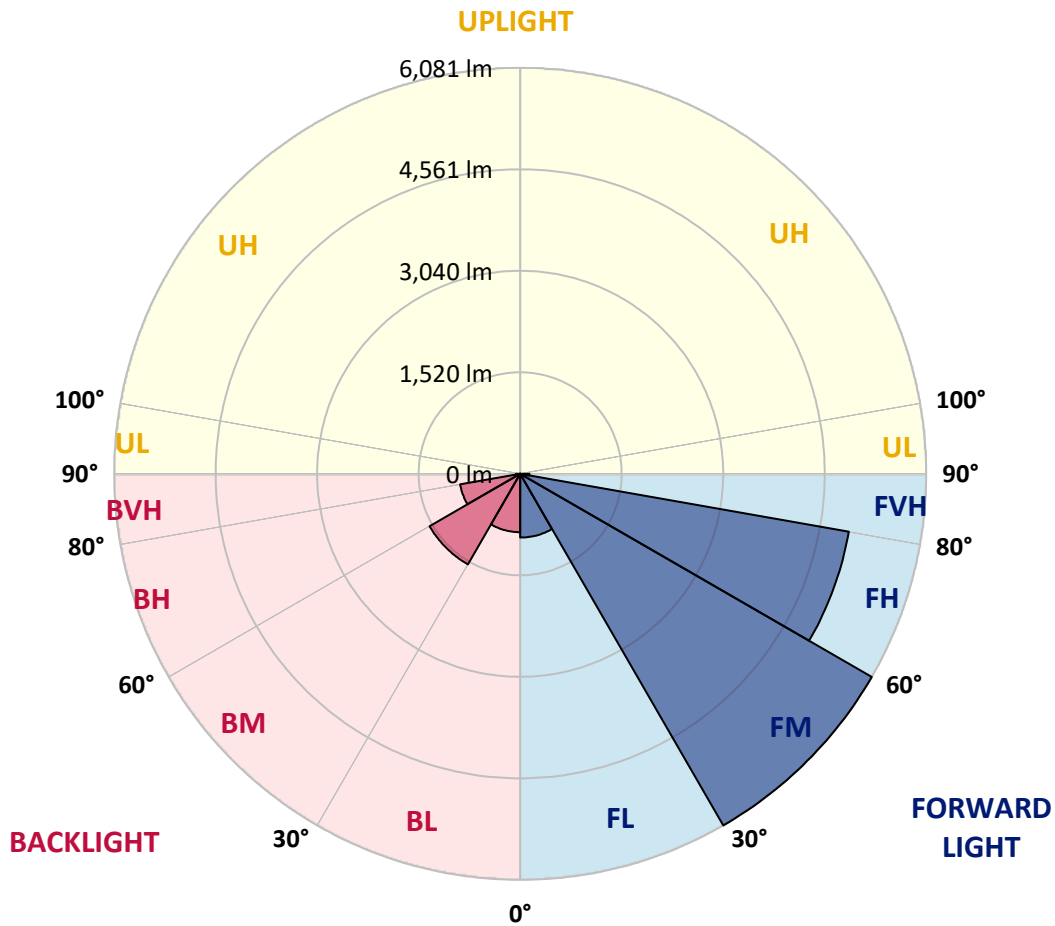
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	954.8	6.1			
FM (30°-60°)	6080.9	39.0			
FH (60°-80°)	4998.4	32.1			G2/5000
FVH (80°-90°)	138.0	0.9			G2/225
BL (0°-30°)	874.5	5.6	B2/1000		
BM (30°-60°)	1566.9	10.1	B2/2500		
BH (60°-80°)	912.1	5.9	B2/1000		G2/1000
BVH (80°-90°)	59.4	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°	2174.2	2174.2	2174.2	2174.2	2174.2	2174.2	2174.2	2174.2	2174.2	2174.2
2.5°	2004.2	2003.4	2013.8	2017.0	2036.2	2049.7	2075.3	2102.4	2137.5	2141.5
5°	1888.5	1888.5	1900.5	1913.2	1938.0	1965.1	2004.2	2051.3	2112.0	2121.6
7.5°	1790.3	1796.7	1807.1	1831.8	1860.6	1899.7	1959.5	2026.6	2106.4	2121.6
10°	1711.3	1718.5	1731.3	1751.2	1794.3	1848.6	1926.8	2013.0	2120.0	2143.9
12.5°	1686.6	1693.7	1700.9	1716.1	1756.0	1819.9	1913.2	2019.4	2152.7	2176.6
15°	1744.0	1752.8	1747.2	1743.2	1764.0	1822.3	1919.6	2042.5	2193.4	2227.7
17.5°	1876.5	1879.7	1866.9	1829.4	1826.2	1857.4	1950.0	2074.5	2244.5	2282.0
20°	2090.4	2084.9	2058.5	1984.3	1942.0	1935.6	2001.8	2122.4	2297.2	2337.1
22.5°	2381.0	2374.6	2321.9	2204.6	2110.4	2048.1	2076.9	2184.6	2356.2	2400.9
25°	2743.4	2734.6	2657.2	2497.5	2351.4	2197.4	2179.0	2266.8	2428.9	2470.4
27.5°	3166.4	3159.2	3075.4	2864.7	2654.0	2401.7	2305.9	2363.4	2504.7	2551.8
30°	3621.4	3642.1	3493.6	3267.0	3000.4	2668.3	2476.8	2482.3	2602.9	2645.2
32.5°	4156.1	4192.1	4013.3	3725.9	3361.9	2958.1	2692.3	2648.4	2745.7	2780.9
35°	4686.1	4726.8	4578.4	4260.7	3841.7	3299.7	2917.4	2839.1	2935.7	2974.0
37.5°	5144.3	5198.6	5121.9	4845.8	4354.9	3711.5	3211.1	3063.4	3169.6	3217.5
40°	5505.9	5588.9	5583.3	5410.9	4959.9	4211.2	3583.8	3340.4	3460.1	3512.0
42.5°	5799.6	5871.4	5933.7	5924.9	5591.3	4778.7	4022.0	3700.4	3791.4	3851.2
45°	6002.3	6079.0	6213.1	6357.5	6198.7	5386.1	4524.1	4127.4	4210.4	4300.6
47.5°	6183.5	6270.5	6444.5	6673.6	6714.3	5995.9	5074.0	4624.7	4700.5	4793.9
50°	6199.5	6274.5	6544.3	6869.2	7080.7	6581.8	5664.7	5182.6	5253.6	5353.4
52.5°	5814.0	5932.1	6403.0	6863.6	7249.1	7071.9	6251.4	5762.9	5842.7	5962.4
55°	4512.9	4686.1	5988.8	6649.7	7189.2	7388.8	6809.3	6379.9	6482.0	6607.4
57.5°	3887.1	3963.0	4754.0	6260.1	6916.3	7471.0	7280.2	7003.3	7167.7	7305.0
60°	3493.6	3556.7	4024.4	5654.3	6557.1	7340.9	7644.2	7584.3	7868.5	8032.1
62.5°	3072.2	3132.1	3557.5	4721.3	6097.3	7124.6	7874.1	8120.7	8586.8	8765.6
65°	2654.0	2705.0	3112.9	3967.0	5513.0	6908.3	7993.0	8584.5	9251.7	9436.9
67.5°	2187.8	2230.1	2615.6	3346.8	4802.7	6612.1	8052.1	8949.2	9830.4	9989.3
70°	1578.8	1611.5	2009.8	2646.8	3911.1	6102.9	8028.1	9207.8	10130.5	10257.4
72.5°	746.3	775.8	1243.6	1718.5	2762.5	5111.6	7543.6	9002.7	9825.6	9762.6
75°	398.3	423.8	714.4	942.7	1459.1	3504.0	6173.1	7755.1	8250.8	7944.3
77.5°	269.8	289.7	442.2	565.9	666.5	1663.4	3967.8	5369.4	5165.8	4659.8
80°	213.9	234.7	362.4	383.1	322.5	601.0	1639.5	2485.5	1785.5	1427.9
82.5°	164.4	187.6	304.9	277.8	175.6	246.6	477.3	786.2	457.4	348.0
85°	100.6	125.3	239.5	177.2	99.0	112.5	162.0	218.7	139.7	116.5
87.5°	51.1	71.8	121.3	64.7	44.7	26.3	43.1	43.1	36.7	31.9
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°
2174.2	0°	2174.2	2174.2	2174.2	2174.2	2174.2	2174.2	2174.2	2174.2	2174.2	2174.2
2163.1	2.5°	2182.2	2198.2	2225.3	2250.9	2270.8	2290.0	2309.1	2319.5	2322.7	2335.5
2175.0	5°	2207.8	2237.3	2290.0	2339.5	2370.6	2389.8	2403.3	2411.3	2412.9	2416.9
2207.8	7.5°	2254.9	2302.0	2375.4	2424.9	2448.0	2446.4	2440.8	2420.9	2412.9	2405.7
2255.7	10°	2321.1	2383.4	2473.6	2507.9	2493.5	2455.2	2405.7	2347.5	2320.3	2294.0
2321.1	12.5°	2403.3	2482.3	2570.9	2569.4	2498.3	2400.1	2285.2	2195.8	2139.1	2098.4
2401.7	15°	2503.1	2594.1	2661.9	2607.7	2452.0	2275.6	2107.2	1990.7	1939.6	1894.9
2483.1	17.5°	2606.1	2703.4	2734.6	2595.7	2335.5	2091.2	1900.5	1808.7	1758.4	1734.5
2570.9	20°	2706.6	2803.2	2777.7	2527.0	2158.3	1882.1	1712.1	1661.8	1651.4	1657.0
2656.4	22.5°	2812.8	2899.0	2786.5	2394.5	1932.4	1668.2	1574.8	1576.4	1599.6	1616.3
2745.7	25°	2921.3	2979.6	2763.3	2203.0	1689.8	1511.0	1487.8	1513.4	1558.9	1591.6
2846.3	27.5°	3025.9	3051.5	2713.0	1965.9	1481.4	1398.4	1402.4	1455.1	1523.7	1569.2
2968.4	30°	3144.0	3115.3	2616.4	1699.3	1337.0	1301.8	1335.4	1396.8	1465.5	1506.2
3122.5	32.5°	3277.3	3170.4	2463.2	1452.7	1234.8	1224.4	1279.5	1319.4	1349.7	1361.7
3326.8	35°	3443.4	3247.8	2266.8	1279.5	1143.0	1167.7	1220.4	1200.5	1188.5	1182.1
3601.4	37.5°	3658.9	3352.4	2037.0	1166.9	1068.8	1127.0	1148.6	1086.3	1039.2	1016.1
3934.2	40°	3918.3	3505.6	1815.9	1079.9	1021.7	1091.9	1054.4	979.4	919.5	886.8
4308.6	42.5°	4206.4	3666.1	1629.9	1014.5	995.3	1063.2	985.0	895.6	799.0	788.6
4754.8	45°	4508.9	3831.3	1503.0	964.2	982.6	1038.4	945.0	800.6	731.9	774.2
5202.6	47.5°	4811.4	3982.9	1426.4	926.7	976.2	1010.5	909.9	747.9	699.2	760.7
5682.3	50°	5148.3	4118.6	1392.0	899.6	969.0	999.3	857.2	734.3	664.9	705.6
6178.7	52.5°	5482.7	4224.0	1366.5	872.4	958.6	990.5	831.7	718.4	623.4	625.8
6678.4	55°	5816.4	4292.6	1338.6	836.5	935.5	971.4	829.3	700.8	592.3	581.1
7206.8	57.5°	6172.3	4331.7	1304.2	796.6	895.6	922.7	826.9	687.2	582.7	564.3
7747.2	60°	6534.7	4389.2	1259.5	747.9	842.1	864.4	821.3	682.4	577.1	546.0
8256.4	62.5°	6859.6	4409.2	1206.1	701.6	773.4	807.0	809.4	678.5	561.9	508.4
8679.4	65°	7072.7	4323.0	1112.7	648.9	699.2	747.9	786.2	664.9	534.8	481.3
8888.6	67.5°	7063.9	4077.1	966.6	581.1	627.4	682.4	752.7	641.7	502.1	447.8
8730.5	70°	6735.1	3591.8	781.4	502.1	548.4	612.2	709.6	607.4	462.9	411.1
7763.1	72.5°	5776.4	2811.2	567.5	409.5	456.6	539.6	653.7	565.9	423.0	378.3
5737.3	75°	4126.6	1779.1	384.7	314.5	355.2	457.4	584.3	517.2	386.3	379.9
2873.5	77.5°	2108.0	850.1	254.6	229.9	247.4	360.8	490.9	462.1	391.9	313.7
817.3	80°	685.6	313.7	160.4	156.4	164.4	240.3	379.9	379.1	296.9	213.1
197.9	82.5°	218.7	134.9	104.6	100.6	96.6	150.9	265.0	300.1	200.3	134.9
71.0	85°	87.0	80.6	61.5	56.7	40.7	71.0	138.9	199.5	149.3	97.4
18.4	87.5°	31.9	31.9	16.8	12.0	8.8	23.9	37.5	59.9	85.4	50.3
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>
2174.2
2342.7
2423.3
2407.3
2286.0
2088.8
1890.1
1741.6
1654.6
1620.3
1600.4
1580.4
1515.7
1368.1
1188.5
1021.7
889.2
799.0
796.6
789.4
735.9
642.5
589.1
566.7
548.4
508.4
481.3
450.2
415.9
375.9
358.4
279.4
188.4
134.1
99.8
49.5
0.0

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