

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: P950854

Luminaire Tested: **GALN-SB5A-935-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950854
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-SB5A-935-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16182 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

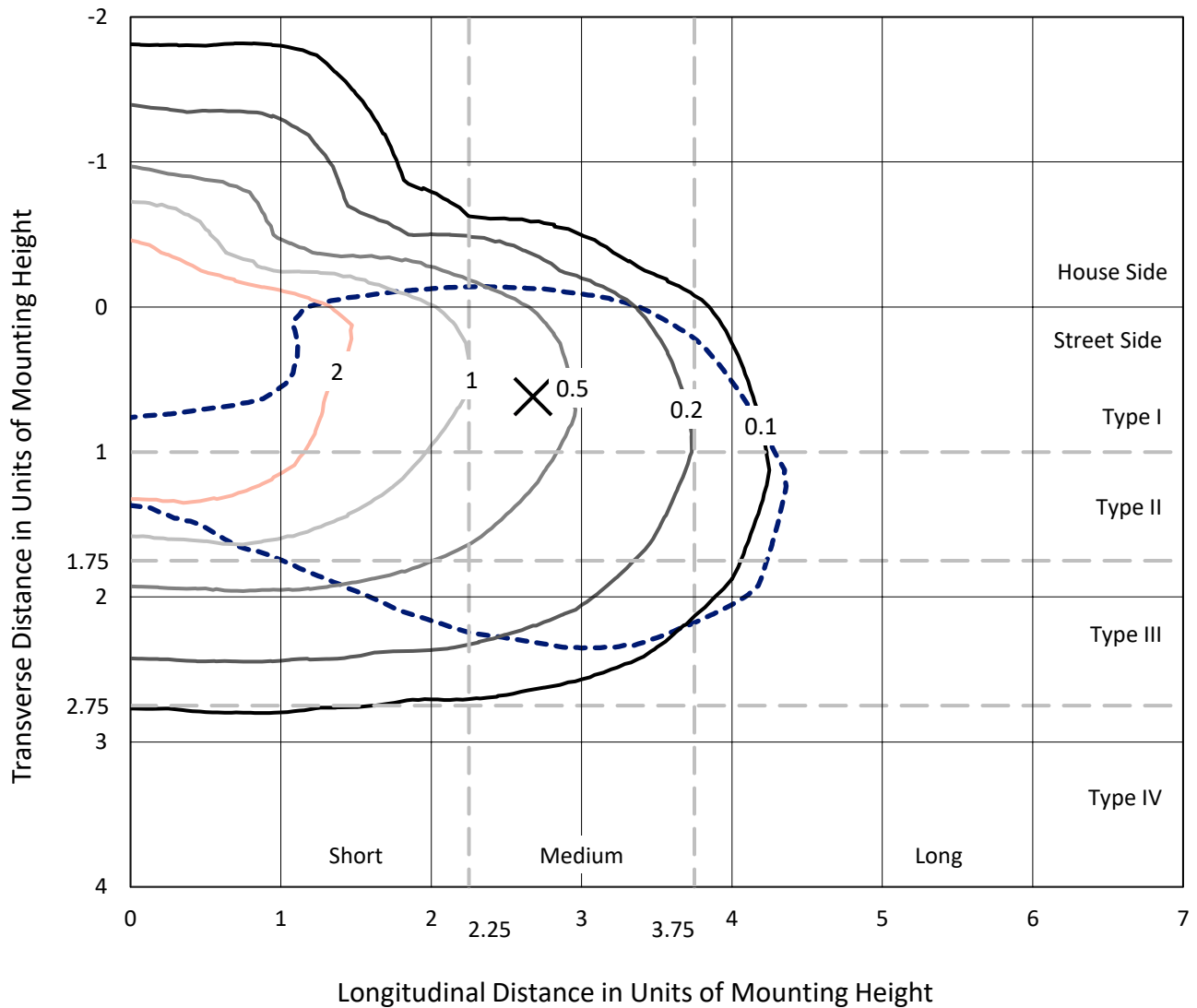
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

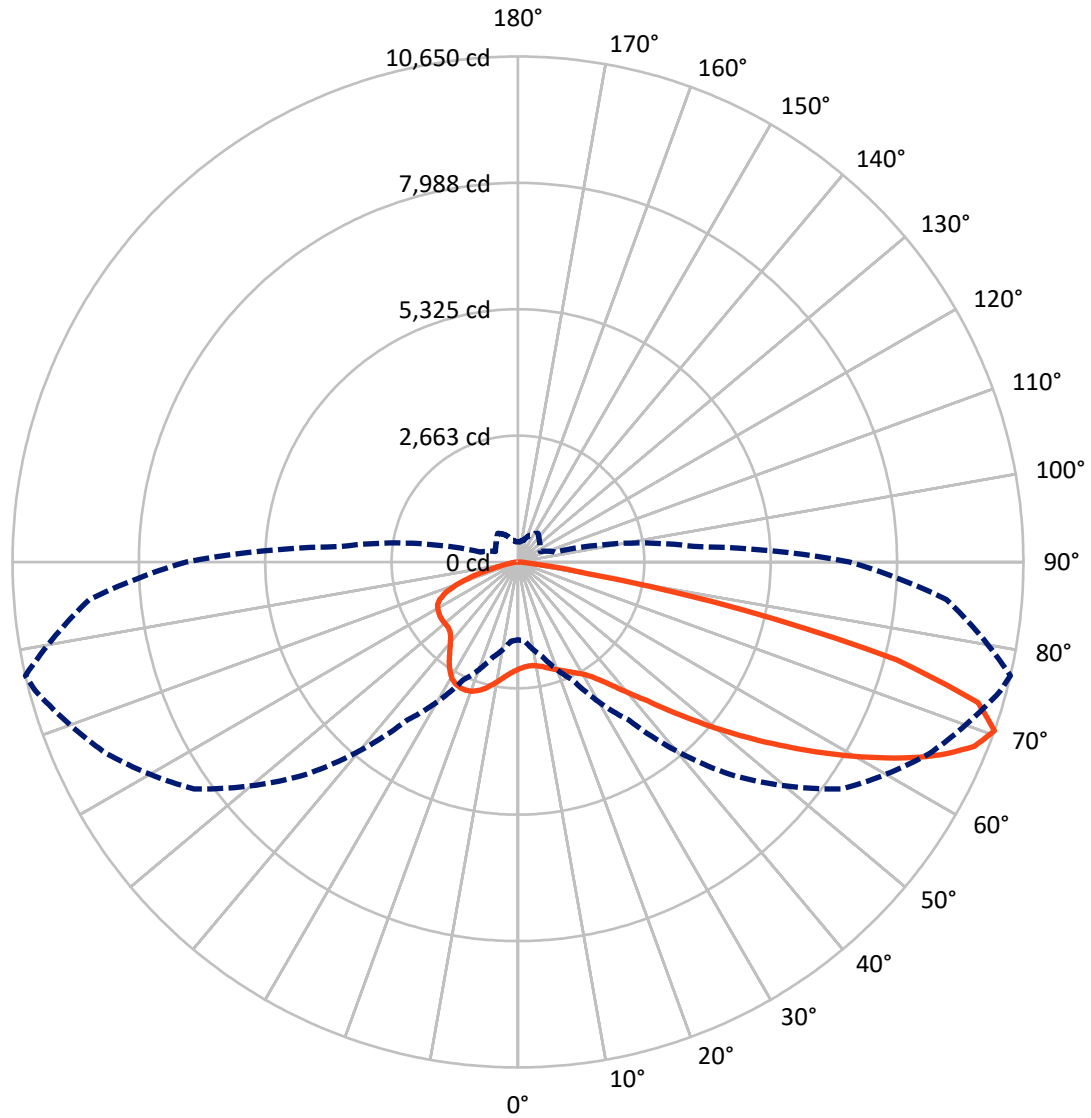
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	3543.6	0.0	3543.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12638.4	0.0	12638.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	16182.0	0.0	16182.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	1.3
10°-20°	621.4	3.8
20°-30°	1062.7	6.6
30°-40°	1708.9	10.6
40°-50°	2668.0	16.5
50°-60°	3563.9	22.0
60°-70°	3798.5	23.5
70°-80°	2338.4	14.5
80°-90°	204.9	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°	16182.0	100.0
0°-180°	16182.0	100.0



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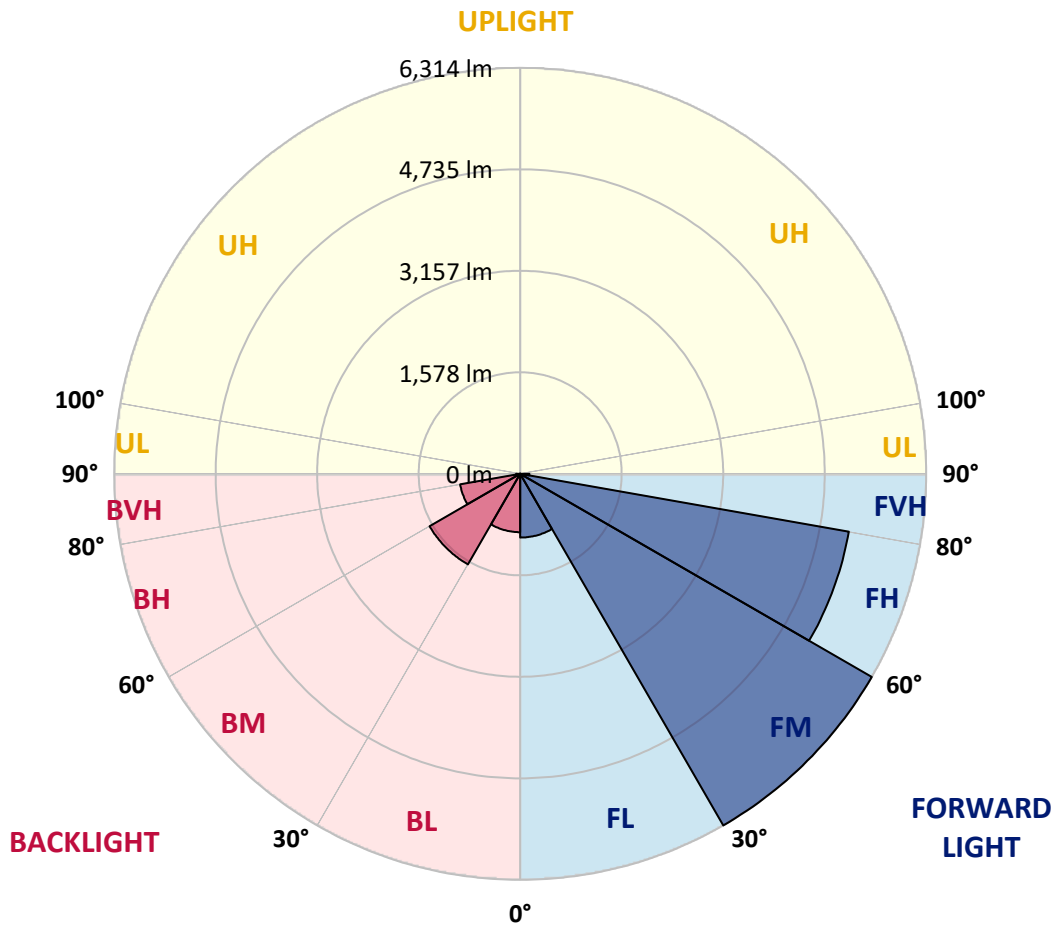
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	991.4	6.1			
FM (30°-60°)	6313.9	39.0			
FH (60°-80°)	5189.8	32.1			G3/7500
FVH (80°-90°)	143.3	0.9			G2/225
BL (0°-30°)	908.0	5.6	B2/1000		
BM (30°-60°)	1626.9	10.1	B2/2500		
BH (60°-80°)	947.1	5.9	B2/1000		G2/1000
BVH (80°-90°)	61.6	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5
2.5°	2081.0	2080.2	2091.0	2094.3	2114.2	2128.3	2154.8	2182.9	2219.4	2223.6
5°	1960.8	1960.8	1973.3	1986.5	2012.2	2040.4	2081.0	2129.9	2192.9	2202.8
7.5°	1858.9	1865.5	1876.3	1902.0	1931.8	1972.4	2034.6	2104.2	2187.1	2202.8
10°	1776.9	1784.3	1797.6	1818.3	1863.0	1919.4	2000.6	2090.1	2201.2	2226.0
12.5°	1751.2	1758.6	1766.1	1781.8	1823.3	1889.6	1986.5	2096.8	2235.2	2260.0
15°	1810.8	1820.0	1814.2	1810.0	1831.6	1892.1	1993.2	2120.8	2277.4	2313.1
17.5°	1948.4	1951.7	1938.5	1899.5	1896.2	1928.5	2024.7	2153.9	2330.5	2369.4
20°	2170.5	2164.7	2137.4	2060.3	2016.4	2009.7	2078.5	2203.7	2385.2	2426.6
22.5°	2472.2	2465.6	2410.9	2289.0	2191.2	2126.6	2156.4	2268.3	2446.5	2492.9
25°	2848.4	2839.3	2758.9	2593.2	2441.5	2281.6	2262.5	2353.7	2521.9	2565.0
27.5°	3287.7	3280.2	3193.2	2974.4	2755.6	2493.7	2394.3	2454.0	2600.6	2649.5
30°	3760.1	3781.6	3627.5	3392.1	3115.3	2770.5	2571.6	2577.4	2702.6	2746.5
32.5°	4315.3	4352.6	4167.0	3868.6	3490.7	3071.4	2795.4	2749.8	2850.9	2887.4
35°	4865.6	4907.9	4753.8	4423.9	3988.8	3426.1	3029.1	2947.9	3048.2	3088.0
37.5°	5341.3	5397.7	5318.1	5031.4	4521.7	3853.7	3334.1	3180.8	3291.0	3340.7
40°	5716.8	5803.0	5797.2	5618.2	5149.9	4372.5	3721.1	3468.4	3592.7	3646.5
42.5°	6021.8	6096.3	6161.0	6151.9	5805.4	4961.8	4176.1	3842.1	3936.6	3998.8
45°	6232.3	6311.8	6451.1	6601.1	6436.1	5592.5	4697.4	4285.5	4371.7	4465.3
47.5°	6420.4	6510.7	6691.4	6929.2	6971.5	6225.6	5268.4	4801.8	4880.6	4977.5
50°	6437.0	6514.9	6795.0	7132.3	7351.9	6833.9	5881.7	5381.1	5454.9	5558.5
52.5°	6036.7	6159.3	6648.3	7126.5	7526.8	7342.8	6490.8	5983.6	6066.5	6190.8
55°	4685.8	4865.6	6218.2	6904.4	7464.6	7671.8	7070.1	6624.3	6730.3	6860.5
57.5°	4036.1	4114.8	4936.1	6499.9	7181.2	7757.2	7559.1	7271.5	7442.2	7584.8
60°	3627.5	3692.9	4178.6	5870.9	6808.2	7622.1	7937.0	7874.9	8169.9	8339.8
62.5°	3189.9	3252.0	3693.8	4902.1	6330.9	7397.5	8175.7	8431.8	8915.8	9101.4
65°	2755.6	2808.7	3232.2	4118.9	5724.2	7172.9	8299.2	8913.3	9606.1	9798.4
67.5°	2271.6	2315.5	2715.8	3475.0	4986.6	6865.4	8360.5	9292.0	10207.0	10371.9
70°	1639.3	1673.3	2086.8	2748.2	4060.9	6336.7	8335.6	9560.6	10518.6	10650.4
72.5°	774.9	805.6	1291.2	1784.3	2868.3	5307.4	7832.6	9347.6	10202.0	10136.5
75°	413.6	440.1	741.7	978.8	1515.0	3638.2	6409.6	8052.2	8566.9	8248.6
77.5°	280.1	300.8	459.1	587.6	692.0	1727.1	4119.8	5575.1	5363.7	4838.3
80°	222.1	243.7	376.3	397.8	334.8	624.1	1702.3	2580.8	1853.9	1482.6
82.5°	170.7	194.8	316.6	288.4	182.3	256.1	495.6	816.3	474.9	361.3
85°	104.4	130.1	248.6	184.0	102.8	116.9	168.2	227.1	145.0	121.0
87.5°	53.0	74.6	126.0	67.1	46.4	27.3	44.8	44.8	38.1	33.2
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°
2257.5	0°	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5
2245.9	2.5°	2265.8	2282.4	2310.6	2337.1	2357.8	2377.7	2397.6	2408.4	2411.7	2424.9
2258.4	5°	2292.3	2323.0	2377.7	2429.1	2461.4	2481.3	2495.4	2503.7	2505.3	2509.5
2292.3	7.5°	2341.2	2390.1	2466.4	2517.8	2541.8	2540.1	2534.3	2513.6	2505.3	2497.9
2342.1	10°	2410.0	2474.7	2568.3	2604.0	2589.0	2549.3	2497.9	2437.4	2409.2	2381.9
2410.0	12.5°	2495.4	2577.4	2669.4	2667.8	2594.0	2492.1	2372.7	2279.9	2221.1	2178.8
2493.7	15°	2599.0	2693.5	2763.9	2707.6	2545.9	2362.8	2187.9	2066.9	2013.9	1967.5
2578.3	17.5°	2705.9	2807.0	2839.3	2695.1	2424.9	2171.3	1973.3	1878.0	1825.8	1800.9
2669.4	20°	2810.3	2910.6	2884.1	2623.8	2241.0	1954.2	1777.7	1725.5	1714.7	1720.5
2758.1	22.5°	2920.5	3010.0	2893.2	2486.3	2006.4	1732.1	1635.1	1636.8	1660.8	1678.2
2850.9	25°	3033.3	3093.8	2869.2	2287.4	1754.5	1568.8	1544.8	1571.3	1618.6	1652.5
2955.4	27.5°	3141.8	3168.3	2816.9	2041.2	1538.2	1452.0	1456.1	1510.8	1582.1	1629.3
3082.2	30°	3264.5	3234.6	2716.7	1764.4	1388.2	1351.7	1386.5	1450.3	1521.6	1563.9
3242.1	32.5°	3402.9	3291.8	2557.5	1508.3	1282.1	1271.3	1328.5	1369.9	1401.4	1413.9
3454.3	35°	3575.3	3372.2	2353.7	1328.5	1186.8	1212.5	1267.2	1246.5	1234.0	1227.4
3739.4	37.5°	3799.0	3480.8	2115.0	1211.6	1109.7	1170.2	1192.6	1127.9	1079.0	1055.0
4084.9	40°	4068.4	3639.9	1885.4	1121.3	1060.8	1133.7	1094.8	1016.9	954.7	920.8
4473.6	42.5°	4367.6	3806.5	1692.3	1053.4	1033.5	1103.9	1022.7	929.9	829.6	818.8
4936.9	45°	4681.7	3978.0	1560.6	1001.1	1020.2	1078.2	981.2	831.2	760.0	803.9
5401.8	47.5°	4995.8	4135.5	1481.0	962.2	1013.6	1049.2	944.8	776.5	726.0	789.8
5899.9	50°	5345.5	4276.4	1445.4	934.0	1006.1	1037.6	890.1	762.5	690.4	732.6
6415.4	52.5°	5692.7	4385.8	1418.8	905.8	995.3	1028.5	863.6	745.9	647.3	649.7
6934.2	55°	6039.2	4457.1	1389.8	868.5	971.3	1008.6	861.1	727.6	614.9	603.3
7482.9	57.5°	6408.8	4497.7	1354.2	827.1	929.9	958.0	858.6	713.6	605.0	585.9
8043.9	60°	6785.0	4557.3	1307.8	776.5	874.3	897.5	852.8	708.6	599.2	566.9
8572.7	62.5°	7122.3	4578.1	1252.3	728.5	803.1	837.9	840.4	704.4	583.4	527.9
9011.9	65°	7343.6	4488.6	1155.3	673.8	726.0	776.5	816.3	690.4	555.3	499.7
9229.0	67.5°	7334.5	4233.3	1003.6	603.3	651.4	708.6	781.5	666.3	521.3	464.9
9065.0	70°	6993.1	3729.4	811.4	521.3	569.4	635.7	736.8	630.7	480.7	426.8
8060.5	72.5°	5997.7	2918.9	589.2	425.2	474.0	560.2	678.8	587.6	439.2	392.8
5957.1	75°	4284.7	1847.3	399.5	326.5	368.8	474.9	606.7	537.0	401.1	394.5
2983.5	77.5°	2188.7	882.6	264.4	238.7	256.9	374.6	509.7	479.9	406.9	325.7
848.6	80°	711.9	325.7	166.6	162.4	170.7	249.5	394.5	393.7	308.3	221.3
205.5	82.5°	227.1	140.1	108.6	104.4	100.3	156.6	275.1	311.6	208.0	140.1
73.8	85°	90.3	83.7	63.8	58.8	42.3	73.8	144.2	207.2	155.0	101.1
19.1	87.5°	33.2	33.2	17.4	12.4	9.1	24.9	39.0	62.2	88.7	52.2
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>
2257.5
2432.4
2516.1
2499.5
2373.6
2168.9
1962.5
1808.3
1718.0
1682.4
1661.7
1640.9
1573.8
1420.5
1234.0
1060.8
923.2
829.6
827.1
819.6
764.1
667.2
611.6
588.4
569.4
527.9
499.7
467.4
431.8
390.3
372.1
290.1
195.6
139.2
103.6
51.4
0.0

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