

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: P949804

Luminaire Tested: **GALN-SB4B-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949804
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-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16789 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

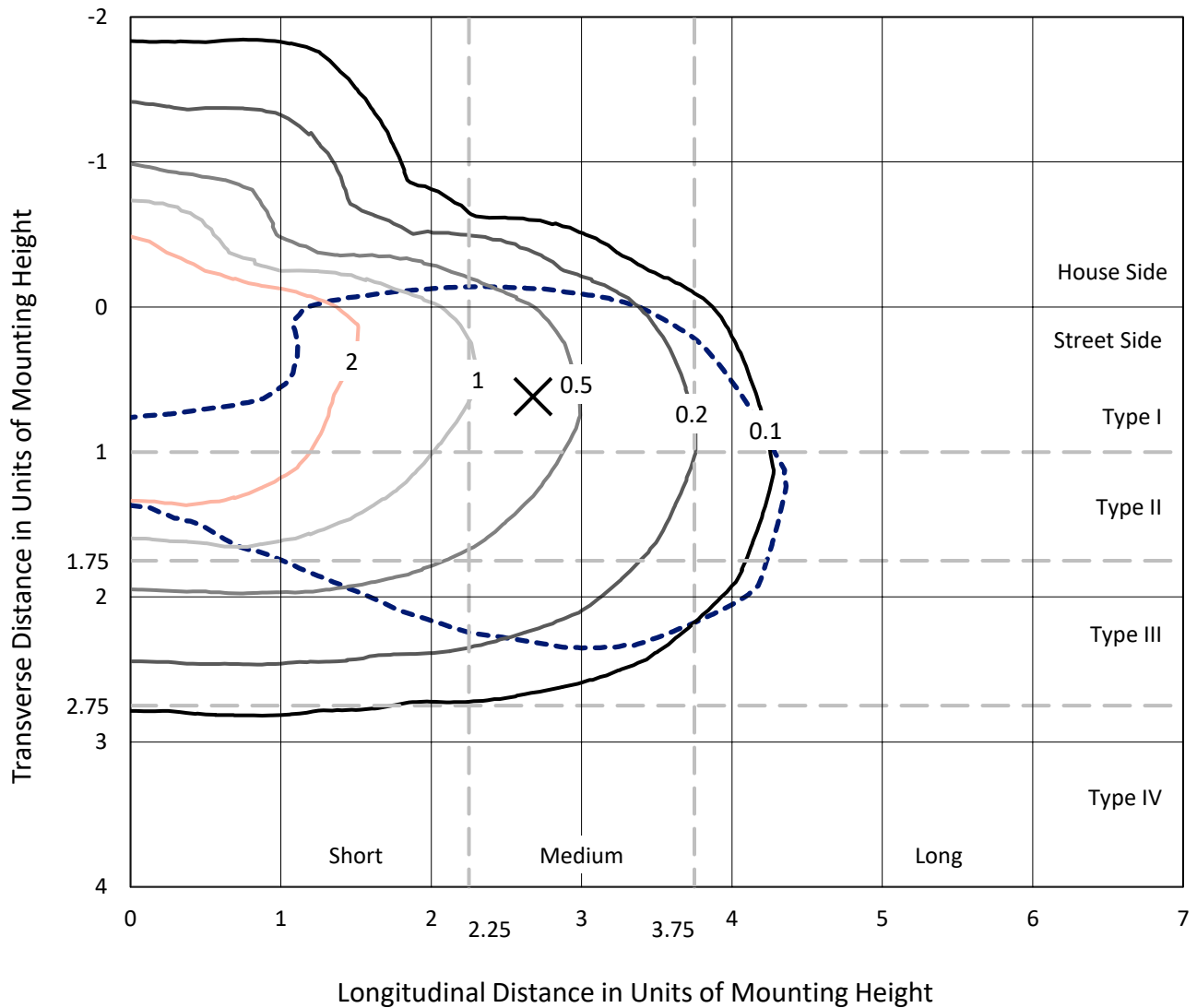
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

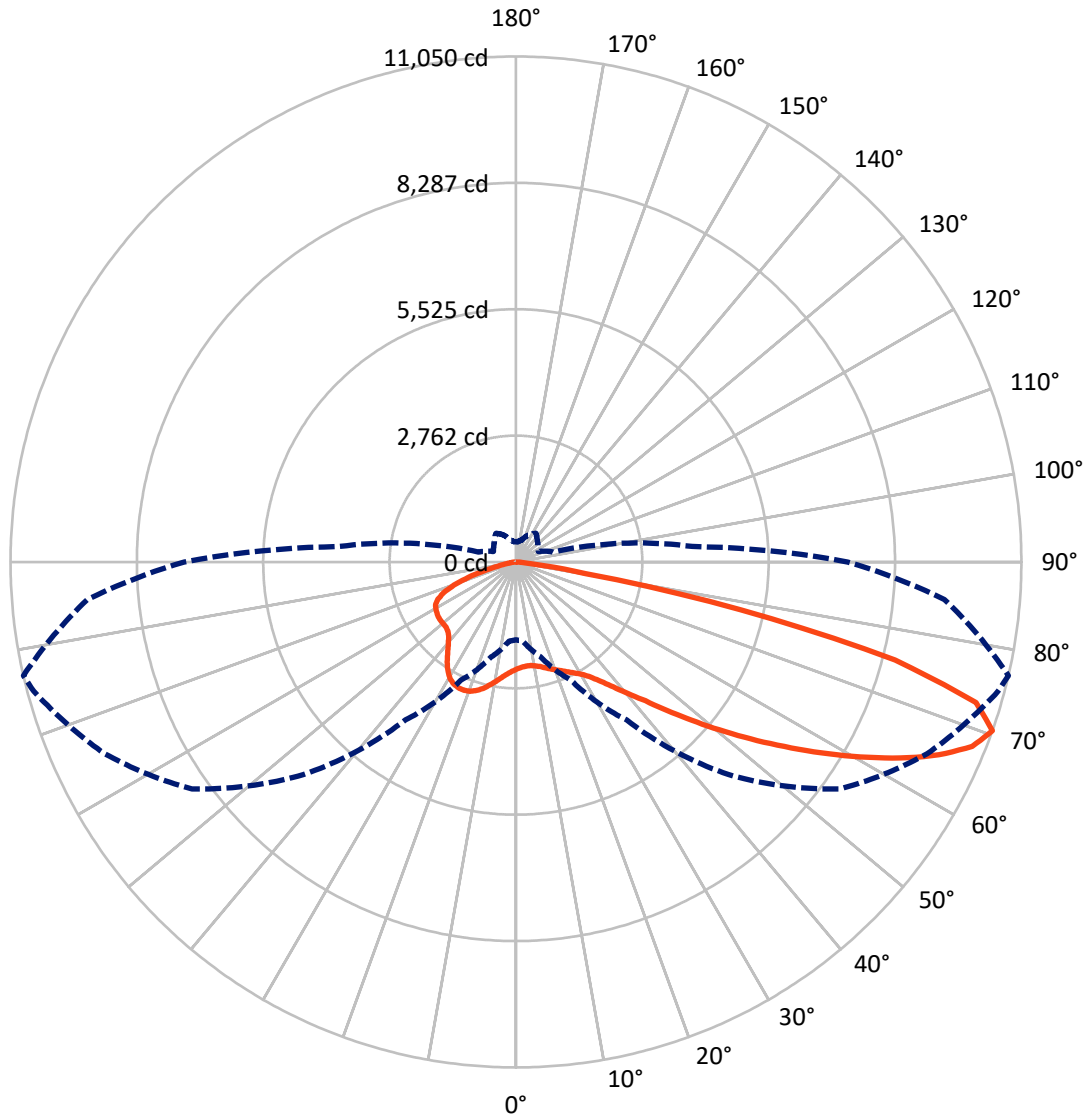
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	3676.5	0.0	3676.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	13112.5	0.0	13112.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	16789.0	0.0	16789.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	1.3
10°-20°	644.7	3.8
20°-30°	1102.5	6.6
30°-40°	1773.0	10.6
40°-50°	2768.1	16.5
50°-60°	3697.6	22.0
60°-70°	3941.0	23.5
70°-80°	2426.1	14.5
80°-90°	212.6	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°	16789.0	100.0
0°-180°	16789.0	100.0



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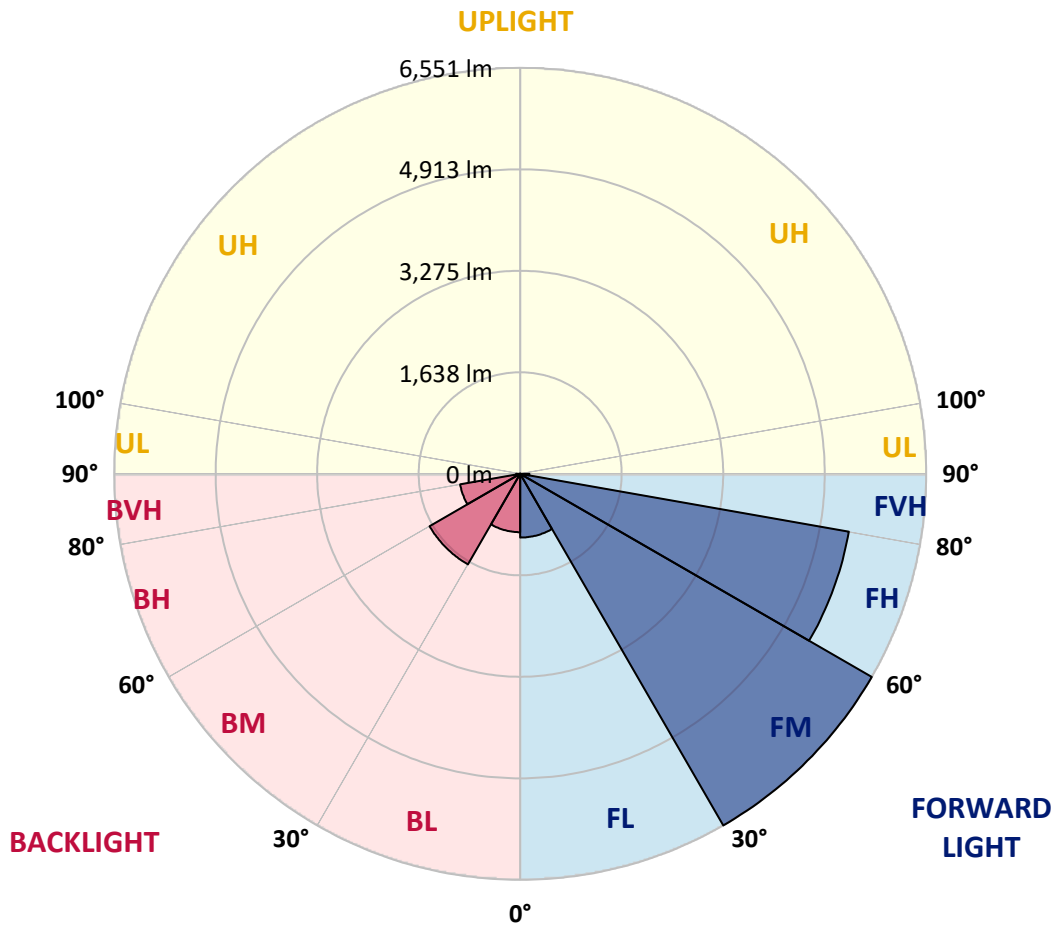
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.6	6.1			
FM (30°-60°)	6550.7	39.0			
FH (60°-80°)	5384.5	32.1			G3/7500
FVH (80°-90°)	148.7	0.9			G2/225
BL (0°-30°)	942.0	5.6	B2/1000		
BM (30°-60°)	1688.0	10.1	B2/2500		
BH (60°-80°)	982.6	5.9	B2/1000		G2/1000
BVH (80°-90°)	63.9	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°	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2
2.5°	2159.1	2158.2	2169.4	2172.8	2193.5	2208.1	2235.6	2264.8	2302.7	2307.0
5°	2034.4	2034.4	2047.3	2061.0	2087.7	2116.9	2159.1	2209.8	2275.2	2285.5
7.5°	1928.6	1935.5	1946.7	1973.3	2004.3	2046.4	2110.9	2183.1	2269.1	2285.5
10°	1843.5	1851.2	1865.0	1886.5	1932.9	1991.4	2075.7	2168.5	2283.7	2309.5
12.5°	1816.9	1824.6	1832.3	1848.7	1891.7	1960.4	2061.0	2175.4	2319.0	2344.8
15°	1878.8	1888.2	1882.2	1877.9	1900.3	1963.0	2067.9	2200.3	2362.9	2399.8
17.5°	2021.5	2024.9	2011.2	1970.8	1967.3	2000.9	2100.6	2234.7	2417.9	2458.3
20°	2251.9	2245.9	2217.5	2137.6	2092.0	2085.1	2156.5	2286.3	2474.6	2517.6
22.5°	2564.9	2558.0	2501.3	2374.9	2273.4	2206.4	2237.3	2353.4	2538.3	2586.4
25°	2955.3	2945.8	2862.4	2690.5	2533.1	2367.2	2347.4	2442.0	2616.5	2661.2
27.5°	3411.0	3403.3	3313.0	3086.0	2859.0	2587.3	2484.1	2546.0	2698.2	2748.9
30°	3901.1	3923.5	3763.5	3519.3	3232.2	2874.5	2668.1	2674.1	2804.0	2849.5
32.5°	4477.2	4515.9	4323.3	4013.8	3621.7	3186.6	2900.3	2853.0	2957.9	2995.7
35°	5048.2	5092.0	4932.1	4589.9	4138.4	3554.6	3142.7	3058.5	3162.5	3203.8
37.5°	5541.7	5600.2	5517.6	5220.1	4691.3	3998.3	3459.2	3300.1	3414.4	3466.0
40°	5931.2	6020.6	6014.6	5828.9	5343.1	4536.5	3860.7	3598.5	3727.4	3783.3
42.5°	6247.6	6325.0	6392.1	6382.6	6023.2	5147.9	4332.8	3986.2	4084.3	4148.8
45°	6466.0	6548.6	6693.0	6848.7	6677.6	5802.2	4873.6	4446.3	4535.7	4632.8
47.5°	6661.2	6754.9	6942.4	7189.2	7233.0	6459.2	5466.0	4981.9	5063.6	5164.2
50°	6678.4	6759.2	7049.9	7399.8	7627.7	7090.3	6102.3	5583.0	5659.5	5767.0
52.5°	6263.1	6390.4	6897.7	7393.8	7809.1	7618.2	6734.3	6208.1	6294.1	6423.0
55°	4861.6	5048.2	6451.4	7163.4	7744.6	7959.6	7335.3	6872.7	6982.8	7117.8
57.5°	4187.4	4269.1	5121.2	6743.8	7450.6	8048.2	7842.6	7544.3	7721.4	7869.3
60°	3763.5	3831.5	4335.3	6091.1	7063.6	7908.0	8234.7	8170.3	8476.4	8652.6
62.5°	3309.5	3374.0	3832.3	5086.0	6568.4	7675.0	8482.4	8748.1	9250.2	9442.8
65°	2859.0	2914.0	3353.4	4273.4	5939.0	7442.0	8610.5	9247.6	9966.5	10166.0
67.5°	2356.8	2402.4	2817.7	3605.3	5173.7	7123.0	8674.1	9640.6	10589.9	10761.0
70°	1700.8	1736.0	2165.1	2851.2	4213.2	6574.4	8648.3	9919.2	10913.2	11049.9
72.5°	804.0	835.8	1339.6	1851.2	2975.9	5506.4	8126.4	9698.2	10584.7	10516.8
75°	429.1	456.6	769.6	1015.5	1571.8	3774.7	6650.0	8354.3	8888.2	8558.0
77.5°	290.6	312.1	476.4	609.6	718.0	1791.9	4274.3	5784.2	5564.9	5019.8
80°	230.4	252.8	390.4	412.7	347.4	647.5	1766.1	2677.6	1923.5	1538.3
82.5°	177.1	202.1	328.5	299.2	189.2	265.7	514.2	846.9	492.7	374.9
85°	108.3	135.0	258.0	190.9	106.6	121.2	174.5	235.6	150.5	125.5
87.5°	55.0	77.4	130.7	69.6	48.2	28.4	46.4	46.4	39.6	34.4
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°
2342.2	0°	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2
2330.2	2.5°	2350.8	2368.0	2397.2	2424.8	2446.3	2466.9	2487.5	2498.7	2502.1	2515.9
2343.1	5°	2378.3	2410.1	2466.9	2520.2	2553.7	2574.4	2589.0	2597.6	2599.3	2603.6
2378.3	7.5°	2429.1	2479.8	2558.9	2612.2	2637.1	2635.4	2629.4	2607.9	2599.3	2591.6
2429.9	10°	2500.4	2567.5	2664.7	2701.6	2686.2	2644.9	2591.6	2528.8	2499.6	2471.2
2500.4	12.5°	2589.0	2674.1	2769.6	2767.8	2691.3	2585.6	2461.7	2365.4	2304.4	2260.5
2587.3	15°	2696.5	2794.5	2867.6	2809.1	2641.4	2451.4	2270.0	2144.5	2089.4	2041.3
2675.0	17.5°	2807.4	2912.3	2945.8	2796.2	2515.9	2252.8	2047.3	1948.4	1894.2	1868.4
2769.6	20°	2915.7	3019.8	2992.3	2722.3	2325.0	2027.5	1844.4	1790.2	1779.0	1785.0
2861.6	22.5°	3030.1	3123.0	3001.7	2579.5	2081.7	1797.1	1696.5	1698.2	1723.1	1741.2
2957.9	25°	3147.0	3209.8	2976.8	2373.2	1820.3	1627.7	1602.8	1630.3	1679.3	1714.5
3066.2	27.5°	3259.7	3287.2	2922.6	2117.8	1595.9	1506.4	1510.7	1567.5	1641.4	1690.5
3197.8	30°	3386.9	3356.0	2818.6	1830.6	1440.2	1402.4	1438.5	1504.7	1578.7	1622.5
3363.7	32.5°	3530.5	3415.3	2653.5	1564.9	1330.2	1319.0	1378.3	1421.3	1454.0	1466.9
3583.8	35°	3709.4	3498.7	2442.0	1378.3	1231.3	1258.0	1314.7	1293.2	1280.3	1273.4
3879.6	37.5°	3941.5	3611.4	2194.3	1257.1	1151.3	1214.1	1237.3	1170.2	1119.5	1094.6
4238.2	40°	4221.0	3776.4	1956.1	1163.4	1100.6	1176.3	1135.9	1055.0	990.5	955.3
4641.4	42.5°	4531.4	3949.3	1755.8	1092.9	1072.2	1145.3	1061.0	964.7	860.7	849.5
5122.1	45°	4857.3	4127.3	1619.1	1038.7	1058.5	1118.7	1018.1	862.4	788.5	834.0
5604.5	47.5°	5183.1	4290.6	1536.5	998.3	1051.6	1088.6	980.2	805.7	753.2	819.4
6121.2	50°	5546.0	4436.8	1499.6	969.0	1043.9	1076.5	923.5	791.1	716.3	760.1
6656.1	52.5°	5906.3	4550.3	1472.1	939.8	1032.7	1067.1	896.0	773.9	671.5	674.1
7194.3	55°	6265.7	4624.2	1442.0	901.1	1007.7	1046.4	893.4	754.9	638.0	626.0
7763.5	57.5°	6649.2	4666.4	1405.0	858.1	964.7	994.0	890.8	740.3	627.7	607.9
8345.7	60°	7039.6	4728.3	1356.8	805.7	907.1	931.2	884.8	735.2	621.7	588.1
8894.2	62.5°	7389.5	4749.8	1299.2	755.8	833.2	869.3	871.9	730.9	605.3	547.7
9350.0	65°	7619.1	4656.9	1198.6	699.1	753.2	805.7	846.9	716.3	576.1	518.5
9575.2	67.5°	7609.6	4392.1	1041.3	626.0	675.8	735.2	810.8	691.3	540.8	482.4
9405.0	70°	7255.4	3869.3	841.8	540.8	590.7	659.5	764.4	654.3	498.7	442.8
8362.9	72.5°	6222.7	3028.4	611.4	441.1	491.8	581.3	704.2	609.6	455.7	407.6
6180.6	75°	4445.4	1916.6	414.4	338.8	382.6	492.7	629.4	557.2	416.2	409.3
3095.4	77.5°	2270.9	915.7	274.3	247.6	266.6	388.7	528.8	497.9	422.2	337.9
880.5	80°	738.6	337.9	172.8	168.5	177.1	258.8	409.3	408.4	319.9	229.6
213.2	82.5°	235.6	145.3	112.6	108.3	104.0	162.5	285.5	323.3	215.8	145.3
76.5	85°	93.7	86.8	66.2	61.0	43.9	76.5	149.6	215.0	160.8	104.9
19.8	87.5°	34.4	34.4	18.1	12.9	9.5	25.8	40.4	64.5	92.0	54.2
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>
2342.2
2523.6
2610.5
2593.3
2462.6
2250.2
2036.1
1876.2
1782.5
1745.5
1724.0
1702.5
1632.8
1473.8
1280.3
1100.6
957.9
860.7
858.1
850.4
792.8
692.2
634.6
610.5
590.7
547.7
518.5
485.0
448.0
405.0
386.1
300.9
202.9
144.5
107.5
53.3
0.0

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