

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: P951167

Luminaire Tested: **GALN-SB5B-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17546 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

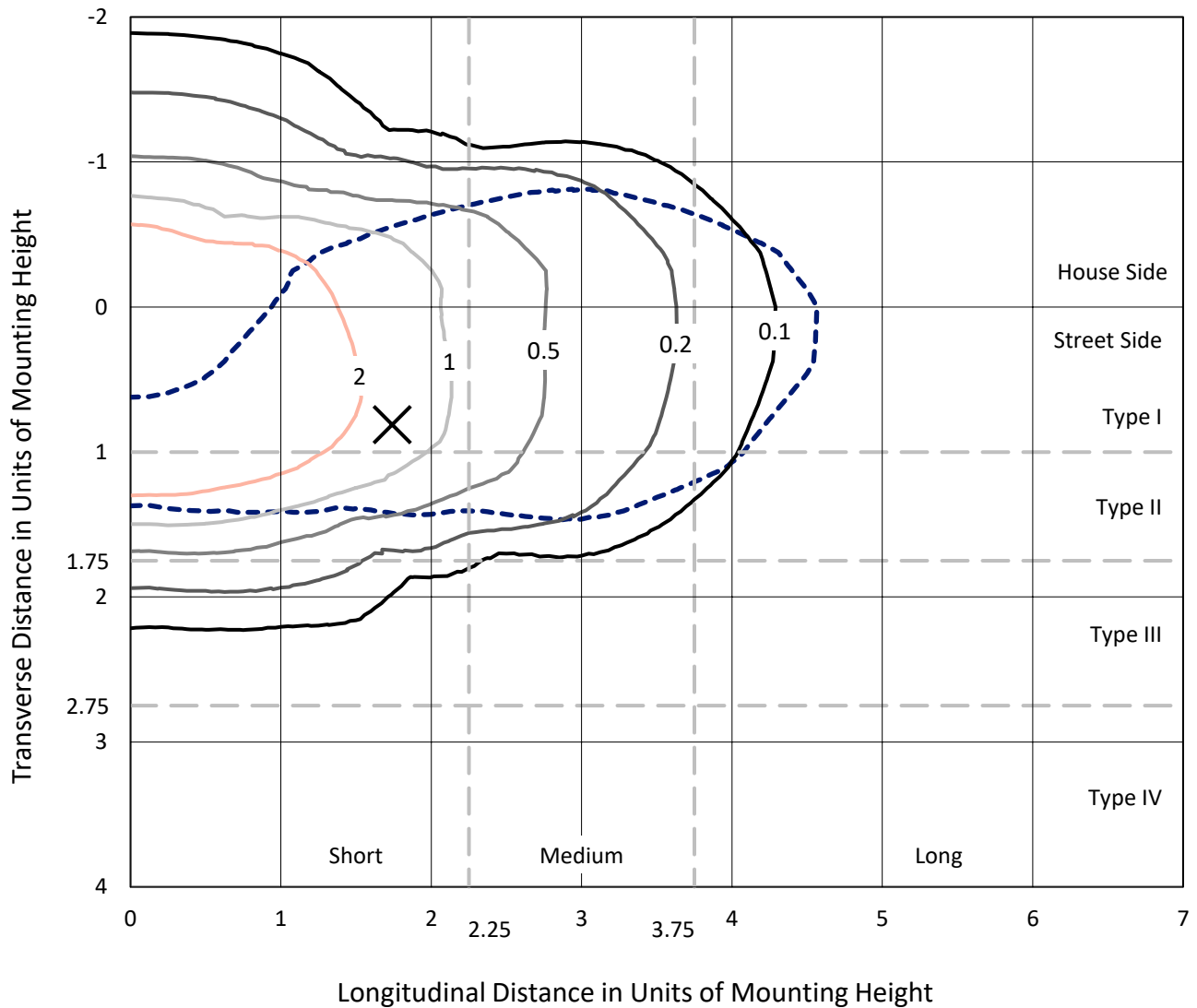
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

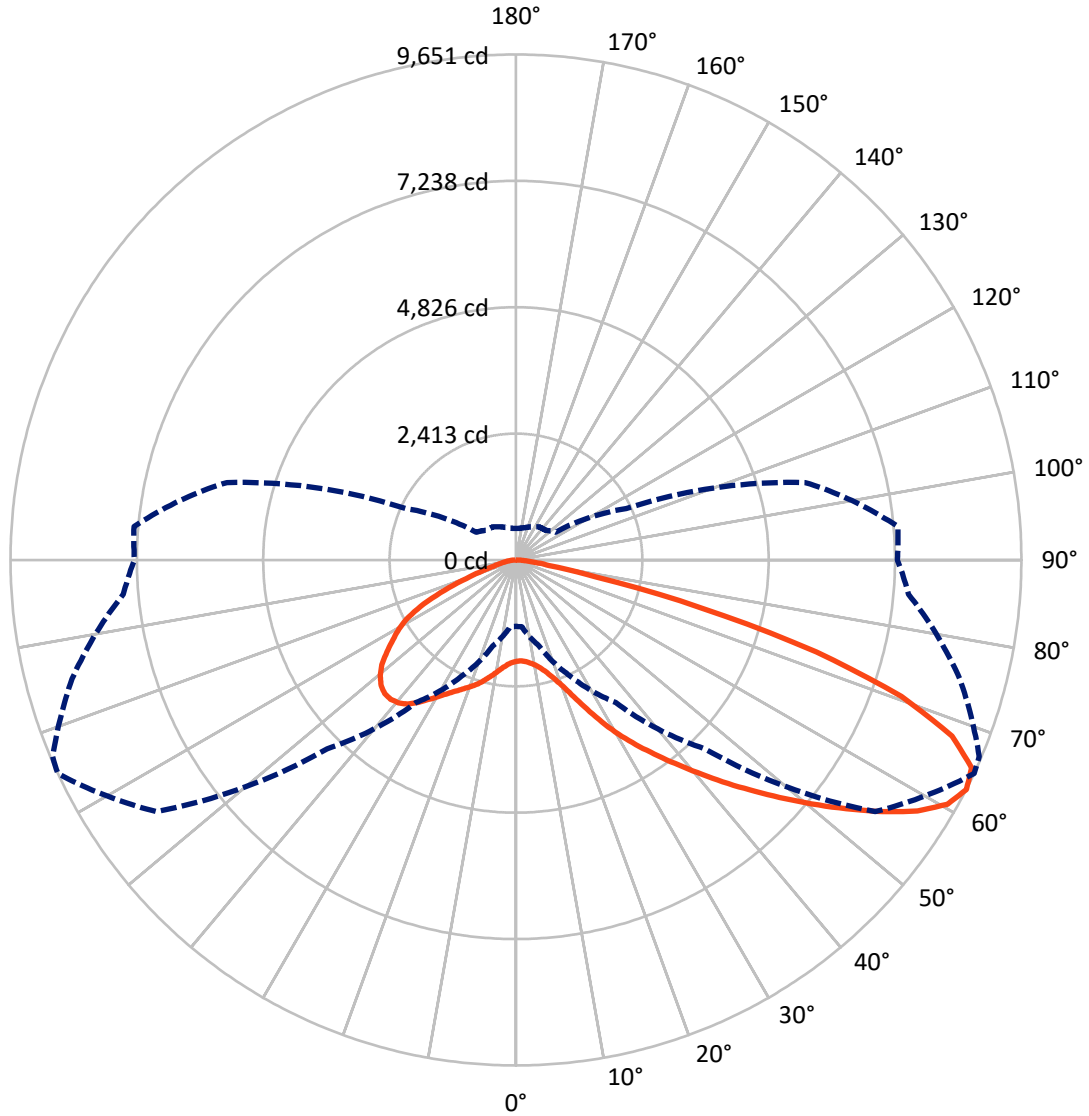
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5536.8	0.0	5536.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	12009.3	0.0	12009.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	17546.0	0.0	17546.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.8	1.1
10°-20°	653.7	3.7
20°-30°	1325.4	7.6
30°-40°	2293.6	13.1
40°-50°	3471.0	19.8
50°-60°	4069.5	23.2
60°-70°	3411.8	19.4
70°-80°	1883.6	10.7
80°-90°	244.7	1.4
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°	17546.0	100.0
0°-180°	17546.0	100.0



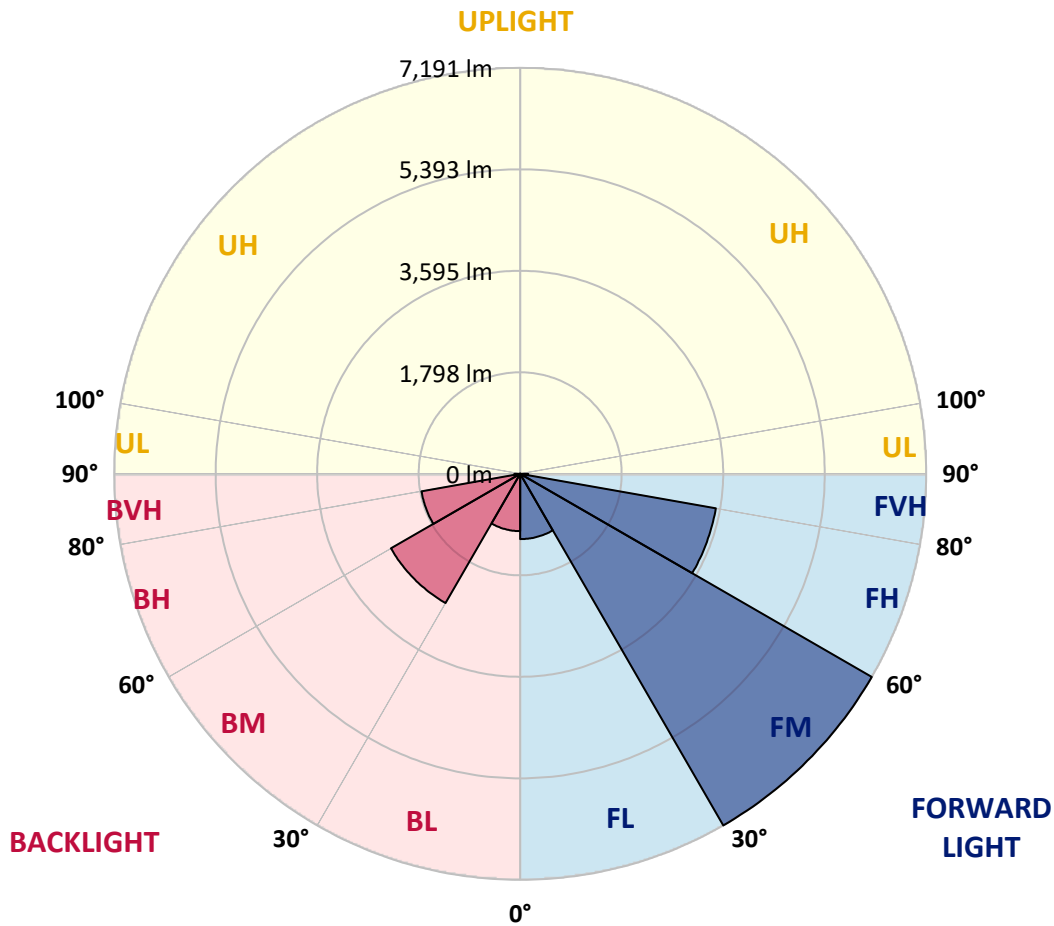
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.5	6.6			
FM (30°-60°)	7190.9	41.0			
FH (60°-80°)	3519.2	20.1			G2/5000
FVH (80°-90°)	142.6	0.8			G2/225
BL (0°-30°)	1015.4	5.8	B3/2500		
BM (30°-60°)	2643.2	15.1	B3/5000		
BH (60°-80°)	1776.1	10.1	B3/2500		G3/2500
BVH (80°-90°)	102.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1933.5	1933.5	1933.5	1933.5	1933.5	1933.5	1933.5	1933.5	1933.5	1933.5
2.5°	1920.7	1915.3	1919.8	1919.8	1921.7	1920.7	1927.1	1928.9	1931.7	1937.1
5°	1901.6	1900.7	1908.9	1916.2	1923.5	1929.9	1938.0	1949.9	1951.7	1958.1
7.5°	1895.3	1889.8	1902.5	1911.6	1928.9	1944.4	1966.3	1986.3	1994.5	1997.2
10°	1944.4	1935.3	1947.1	1952.6	1967.2	1982.6	2008.1	2040.0	2049.1	2060.0
12.5°	2028.2	2018.2	2035.4	2043.6	2057.3	2070.9	2088.2	2119.2	2123.7	2143.8
15°	2142.9	2131.0	2142.0	2152.0	2174.7	2187.5	2204.8	2234.8	2234.8	2250.3
17.5°	2298.5	2283.1	2291.2	2294.9	2309.5	2328.6	2357.7	2384.1	2397.7	2392.3
20°	2530.7	2511.5	2511.5	2493.3	2487.9	2503.3	2541.6	2578.0	2592.6	2564.3
22.5°	2879.3	2852.0	2836.5	2774.6	2750.0	2751.9	2790.1	2834.7	2846.5	2796.5
25°	3322.6	3279.8	3258.9	3167.9	3112.3	3064.1	3094.1	3151.5	3167.9	3106.0
27.5°	3765.9	3768.7	3748.6	3639.4	3547.5	3459.2	3443.7	3503.8	3521.1	3451.0
30°	4387.7	4323.1	4284.8	4153.7	4022.6	3898.8	3835.1	3859.7	3864.3	3780.5
32.5°	4923.9	4907.5	4825.5	4710.8	4542.4	4348.5	4242.0	4202.9	4195.6	4076.4
35°	5534.7	5525.6	5439.1	5302.5	5120.5	4851.0	4659.0	4547.0	4537.9	4370.4
37.5°	6155.5	6155.5	6070.8	5921.6	5733.1	5396.3	5104.1	4926.6	4897.5	4679.0
40°	6650.7	6620.7	6636.1	6573.3	6357.6	5999.8	5598.4	5340.8	5301.6	5039.5
42.5°	6932.0	6922.0	7014.8	7084.9	6996.6	6710.8	6142.8	5789.6	5734.9	5436.4
45°	6994.8	6983.9	7149.6	7406.3	7530.1	7412.6	6734.5	6262.0	6195.6	5851.5
47.5°	6850.1	6828.2	7071.3	7476.4	7873.2	8079.9	7375.3	6774.5	6678.0	6255.6
50°	6414.9	6394.0	6761.8	7299.8	7988.9	8533.2	8070.8	7318.0	7170.5	6688.9
52.5°	5469.1	5479.1	6055.4	6794.5	7836.8	8815.4	8669.8	7890.5	7713.0	7132.3
55°	4260.2	4282.1	4990.3	5804.1	7228.8	8772.6	9078.5	8480.4	8303.8	7549.2
57.5°	3050.4	3146.9	3810.5	4616.2	6060.8	8094.5	9167.7	9041.2	8870.0	8004.3
60°	1977.2	1994.5	2677.2	3489.2	4615.3	6889.2	8986.6	9466.3	9332.5	8468.6
62.5°	1267.1	1279.0	1695.0	2440.5	3321.7	5096.8	8376.6	9651.1	9610.1	8775.4
65°	931.2	922.1	1138.8	1613.1	2237.5	3143.3	7192.3	9561.9	9642.9	8967.4
67.5°	777.4	764.7	871.2	1116.9	1648.6	1785.1	5321.7	8982.0	9278.8	8945.6
70°	708.2	697.3	761.9	829.3	1286.3	1195.2	2682.7	7808.6	8265.6	8697.1
72.5°	599.9	580.8	669.1	736.4	1000.4	916.7	1108.8	5998.0	6555.1	7900.6
75°	465.2	452.4	528.0	648.1	751.9	715.5	700.9	3642.1	4250.2	6110.0
77.5°	368.7	351.4	420.6	505.2	676.4	539.8	510.7	1568.5	2171.1	3900.7
80°	277.6	262.2	319.5	399.6	519.8	406.9	330.4	639.9	818.4	1976.3
82.5°	197.5	183.9	223.0	293.1	349.6	365.0	203.0	358.7	403.3	761.9
85°	126.5	118.3	149.3	183.9	222.1	234.9	123.8	187.5	205.7	314.1
87.5°	69.2	56.4	80.1	85.6	102.9	93.8	59.2	68.3	73.7	113.8
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°
1933.5	0°	1933.5	1933.5	1933.5	1933.5	1933.5	1933.5	1933.5	1933.5	1933.5	1933.5
1937.1	2.5°	1940.8	1943.5	1952.6	1955.3	1961.7	1969.9	1975.4	1980.8	1980.8	1986.3
1966.3	5°	1967.2	1973.5	1992.7	2002.7	2019.1	2035.4	2045.5	2057.3	2064.6	2068.2
2012.7	7.5°	2018.2	2028.2	2055.5	2072.8	2101.0	2123.7	2139.2	2155.6	2159.2	2169.3
2077.3	10°	2087.3	2099.2	2130.1	2162.9	2196.6	2224.8	2239.4	2251.2	2255.7	2257.6
2160.2	12.5°	2166.5	2183.8	2223.9	2263.9	2299.4	2324.0	2327.7	2324.9	2312.2	2301.3
2262.1	15°	2263.9	2279.4	2324.0	2367.7	2402.3	2406.9	2384.1	2369.5	2354.1	2351.3
2375.9	17.5°	2380.5	2388.6	2429.6	2472.4	2475.1	2459.7	2426.0	2412.3	2397.7	2387.7
2524.3	20°	2516.1	2513.4	2542.5	2560.7	2541.6	2494.2	2443.3	2420.5	2405.9	2394.1
2706.3	22.5°	2678.1	2657.2	2653.5	2649.0	2598.0	2498.8	2429.6	2400.5	2377.7	2361.3
2960.3	25°	2913.9	2833.8	2778.3	2747.3	2632.6	2474.2	2385.9	2321.3	2278.5	2250.3
3270.7	27.5°	3208.8	3074.1	2933.9	2858.4	2632.6	2424.1	2280.3	2175.6	2105.5	2076.4
3571.1	30°	3490.1	3349.0	3142.4	2992.2	2626.2	2342.2	2110.1	1964.4	1882.5	1853.4
3827.8	32.5°	3730.4	3576.6	3363.6	3138.7	2610.8	2209.3	1898.9	1737.8	1658.6	1624.0
4081.8	35°	3953.5	3789.6	3585.7	3299.9	2569.8	2014.5	1666.8	1543.9	1455.6	1400.1
4340.3	37.5°	4182.0	3987.1	3796.0	3445.5	2496.1	1786.9	1488.4	1383.7	1279.9	1205.2
4615.3	40°	4430.5	4197.4	4020.8	3532.0	2375.0	1570.3	1350.0	1254.4	1144.3	1065.1
4932.0	42.5°	4720.9	4449.6	4271.2	3576.6	2209.3	1416.4	1259.9	1166.1	1062.3	997.7
5271.6	45°	5024.0	4727.2	4499.6	3575.7	2024.5	1344.5	1230.7	1137.9	1023.2	955.8
5620.2	47.5°	5341.7	5017.6	4697.2	3517.4	1864.3	1354.5	1214.4	1076.9	950.4	884.8
5972.5	50°	5660.3	5335.3	4888.4	3408.2	1796.0	1332.7	1153.4	991.3	842.0	782.9
6303.0	52.5°	5976.2	5673.0	5053.1	3252.5	1726.9	1251.7	1075.1	880.3	797.4	756.5
6644.3	55°	6293.9	6007.1	5232.4	3025.9	1553.9	1157.0	944.0	838.4	761.9	724.6
6978.4	57.5°	6612.5	6393.1	5402.7	2799.2	1336.3	1040.5	872.1	787.4	726.4	694.6
7257.9	60°	6943.8	6834.6	5578.4	2590.7	1121.5	891.2	819.3	746.5	684.6	649.0
7526.4	62.5°	7285.2	7320.7	5715.8	2322.2	924.0	800.2	771.9	697.3	637.2	603.5
7748.5	65°	7629.3	7789.5	5805.9	1949.9	749.2	713.7	721.0	643.6	582.6	553.5
7911.5	67.5°	7888.7	8127.2	5780.5	1475.6	614.5	631.8	657.2	587.1	529.8	507.0
7885.1	70°	7917.9	8087.2	5529.2	1010.4	514.3	551.6	586.2	531.6	472.4	456.1
7513.7	72.5°	7530.1	7541.0	4829.2	660.0	435.1	484.3	511.6	475.2	417.8	401.4
6573.3	75°	6513.3	6236.5	3545.6	435.1	364.1	416.0	441.5	416.0	360.5	364.1
4918.4	77.5°	4934.8	4416.8	2152.9	309.5	304.0	349.6	384.1	365.9	318.6	357.8
2473.3	80°	2542.5	2389.6	960.4	231.2	240.3	279.5	315.9	292.2	252.2	240.3
552.6	82.5°	582.6	677.3	378.7	165.7	173.9	201.2	241.2	219.4	181.2	152.9
230.3	85°	203.9	223.0	167.5	103.8	102.0	125.6	163.9	146.6	122.9	98.3
97.4	87.5°	64.6	84.7	62.8	41.9	43.7	56.4	75.6	69.2	57.3	37.3
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

180°
1933.5
1986.3
2070.0
2165.6
2253.0
2301.3
2351.3
2388.6
2395.0
2366.8
2261.2
2091.0
1870.7
1641.3
1418.3
1225.3
1080.5
1010.4
966.7
893.9
786.5
756.5
721.0
689.1
646.3
602.6
552.6
508.0
457.0
400.5
351.4
315.0
219.4
151.1
103.8
39.1
0.0

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