

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: P939979

Luminaire Tested: **GALN-SB2D-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17490 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

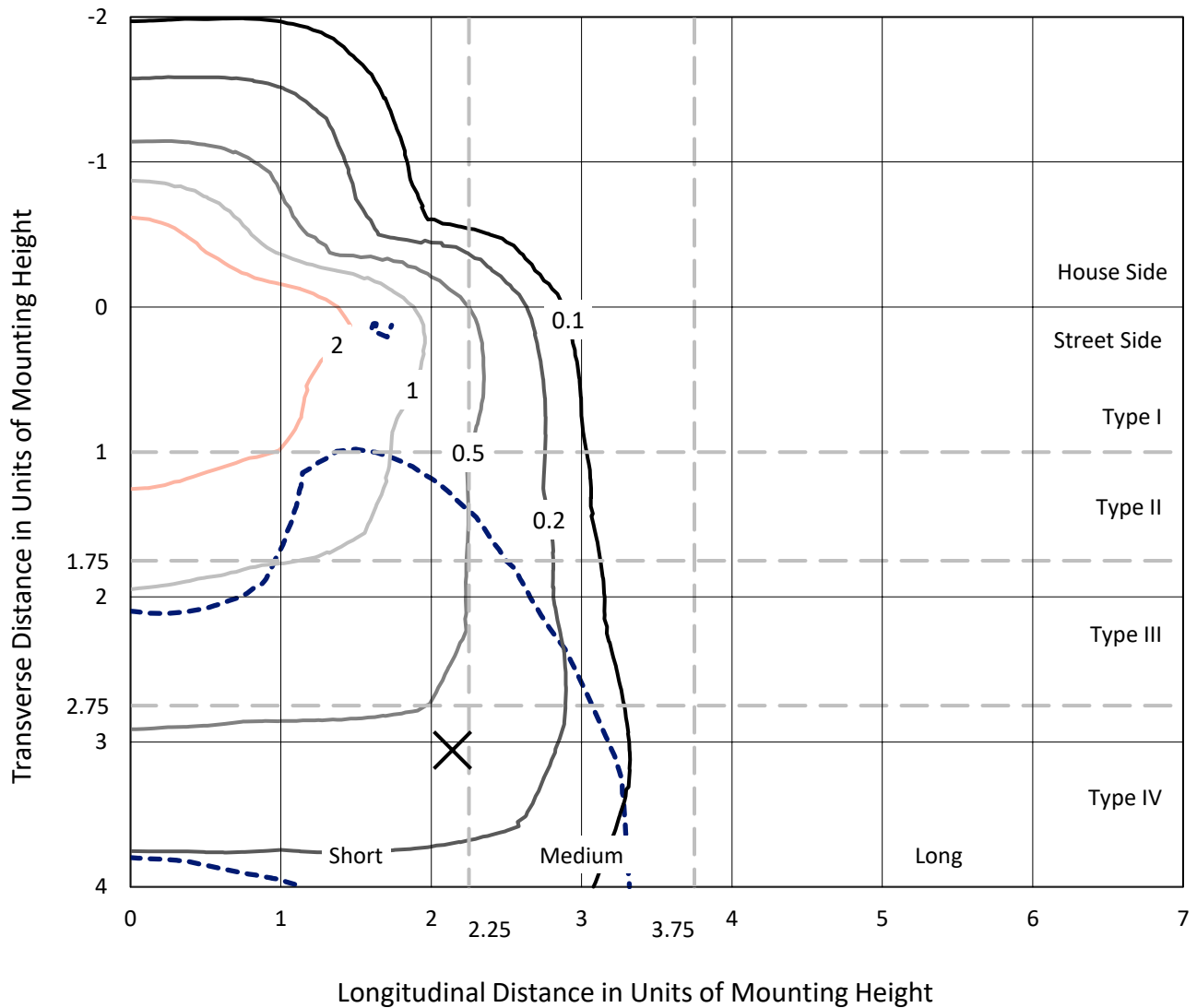
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939979
 CATALOG NUMBER: GALN-SB2D-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

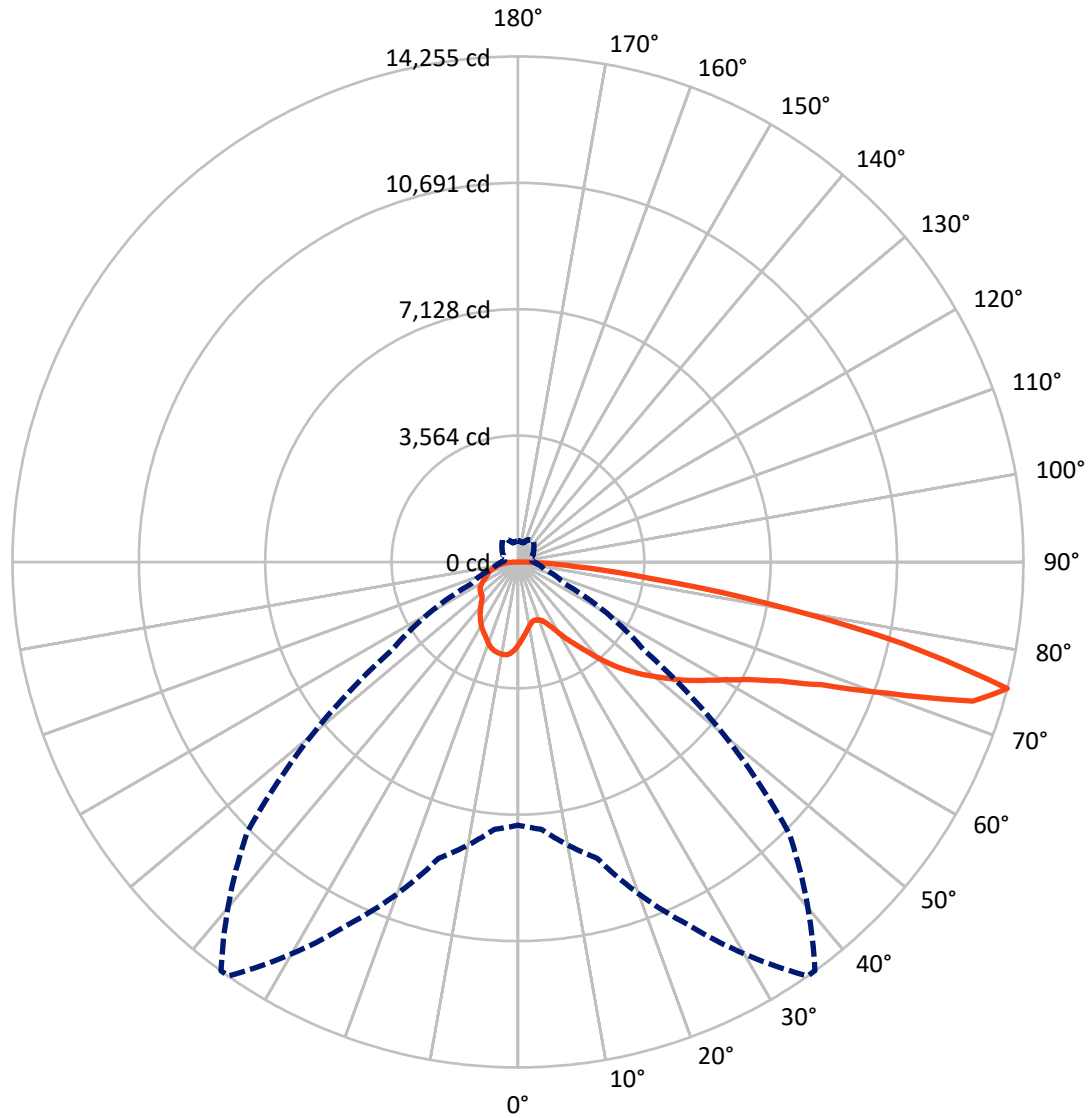
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P939979
CATALOG NUMBER: GALN-SB2D-827-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P939979

CATALOG NUMBER: GALN-SB2D-827-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4162.2	0.0	4162.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	13327.8	0.0	13327.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	17490.0	0.0	17490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.7	1.3
10°-20°	636.5	3.6
20°-30°	1068.9	6.1
30°-40°	1661.1	9.5
40°-50°	2465.6	14.1
50°-60°	3403.9	19.5
60°-70°	4129.7	23.6
70°-80°	3412.9	19.5
80°-90°	490.9	2.8
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°	17490.0	100.0
0°-180°	17490.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939979

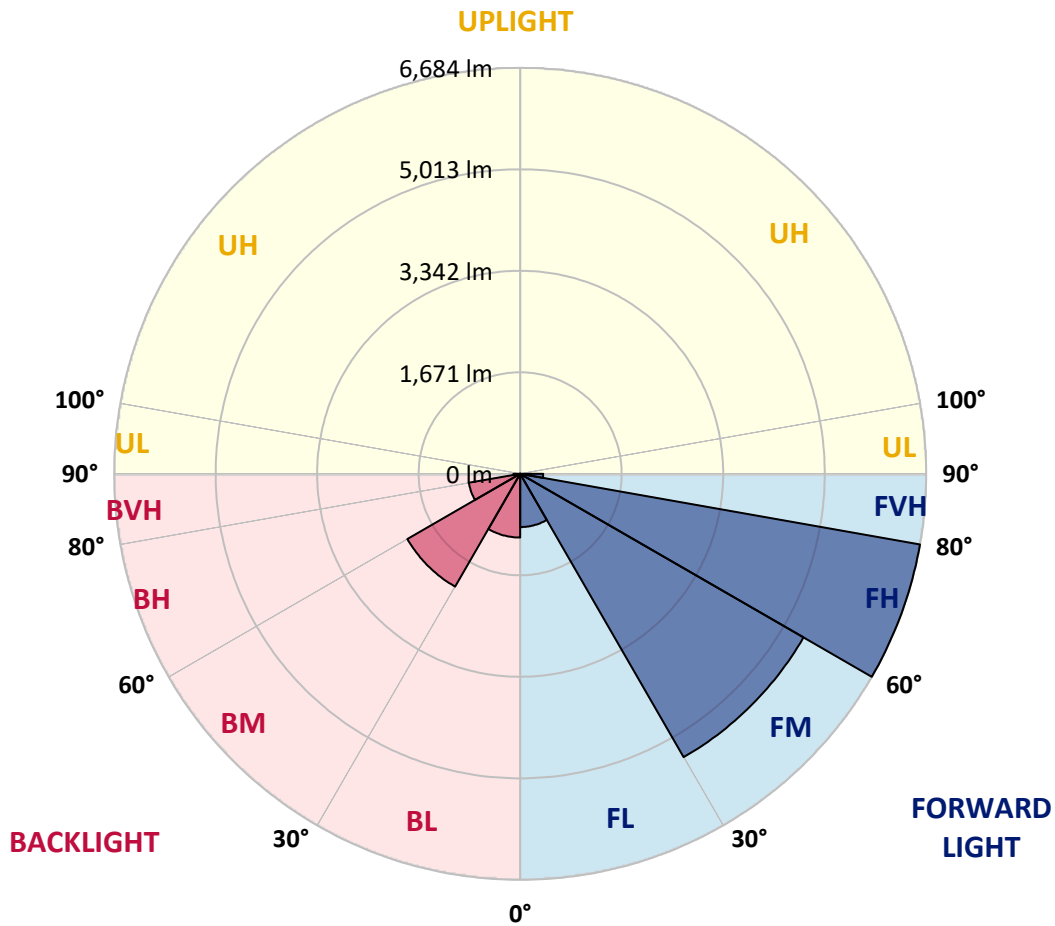
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.1	5.0			
FM (30°-60°)	5386.0	30.8			
FH (60°-80°)	6684.4	38.2			G3/7500
FVH (80°-90°)	380.3	2.2			G3/500
BL (0°-30°)	1048.9	6.0	B3/2500		
BM (30°-60°)	2144.6	12.3	B2/2500		
BH (60°-80°)	858.1	4.9	B2/1000		G2/1000
BVH (80°-90°)	110.5	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 IV Short



REPORT NUMBER: P939979

CATALOG NUMBER: GALN-SB2D-827-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2330.7	2330.7	2330.7	2330.7	2330.7	2330.7	2330.7	2330.7	2330.7	2330.7
2.5°	2149.1	2162.4	2168.0	2165.2	2179.4	2177.5	2197.3	2221.9	2256.0	2289.1
5°	1983.7	1997.8	2010.1	2021.5	2048.9	2057.4	2088.6	2135.9	2198.3	2261.6
7.5°	1829.5	1841.8	1860.7	1881.5	1927.9	1936.4	1988.4	2062.1	2149.1	2241.8
10°	1703.8	1716.1	1735.9	1759.6	1817.3	1827.7	1893.8	1992.2	2105.6	2222.9
12.5°	1649.9	1653.7	1665.0	1688.7	1738.8	1745.4	1818.2	1930.7	2063.1	2208.7
15°	1647.1	1654.6	1655.6	1667.9	1709.5	1712.3	1779.4	1891.0	2036.6	2205.9
17.5°	1675.4	1681.1	1672.6	1680.2	1715.1	1719.9	1772.8	1872.1	2028.1	2218.1
20°	1751.1	1755.8	1730.3	1719.9	1745.4	1749.2	1801.2	1884.4	2036.6	2243.7
22.5°	1911.8	1914.6	1852.2	1809.7	1811.6	1813.5	1858.9	1934.5	2069.7	2290.0
25°	2162.4	2160.5	2061.2	1978.9	1931.7	1921.3	1951.5	2015.8	2125.5	2351.5
27.5°	2455.5	2441.3	2342.0	2219.1	2116.0	2100.9	2094.3	2121.7	2204.9	2432.8
30°	2786.4	2773.2	2666.3	2505.6	2362.8	2338.2	2275.8	2261.6	2323.1	2543.4
32.5°	3149.5	3141.0	3013.3	2818.5	2627.5	2599.2	2494.2	2456.4	2504.6	2710.8
35°	3453.9	3446.4	3340.5	3140.0	2906.5	2871.5	2764.6	2722.1	2746.7	2925.4
37.5°	3729.1	3725.3	3634.5	3476.6	3235.5	3193.0	3072.9	3058.7	3054.0	3208.1
40°	3984.3	3974.9	3880.3	3797.1	3618.4	3579.7	3473.8	3461.5	3425.6	3556.0
42.5°	4267.0	4242.5	4105.4	4066.6	4018.4	3986.2	3922.9	3924.8	3845.4	3948.4
45°	4497.7	4483.6	4342.7	4320.0	4372.0	4358.8	4413.6	4427.8	4273.7	4359.7
47.5°	4745.5	4732.2	4613.1	4597.0	4737.9	4741.7	4935.5	4940.2	4691.6	4787.1
50°	5050.9	5032.0	4913.8	4933.6	5091.5	5105.7	5460.3	5428.1	5076.4	5221.1
52.5°	5252.3	5263.6	5238.1	5270.2	5485.8	5499.0	5976.5	5894.3	5457.4	5649.4
55°	5400.7	5423.4	5502.8	5576.6	5901.8	5915.1	6463.4	6337.7	5773.2	6046.5
57.5°	5591.7	5559.5	5708.0	5851.7	6297.0	6332.0	6937.1	6765.1	6053.1	6388.8
60°	5865.9	5843.2	5958.5	6171.3	6739.5	6795.3	7438.3	7149.9	6258.3	6660.1
62.5°	6421.8	6365.1	6383.1	6571.2	7297.4	7371.1	8003.7	7485.5	6360.4	6766.0
65°	7252.9	7155.6	7064.8	7195.3	8083.1	8155.9	8641.9	7749.3	6322.6	6560.8
67.5°	8299.6	8203.2	8091.6	8214.5	9240.4	9298.1	9429.5	7897.8	6024.7	5770.4
70°	9162.9	9126.9	9260.2	9766.1	11088.8	11090.7	10439.3	7774.9	5208.8	4091.2
72.5°	9048.4	9026.7	9729.2	11293.1	13418.6	13368.4	11395.2	6844.5	3508.8	1845.6
75°	7423.1	7564.0	8652.3	11265.6	14255.3	14248.7	10809.9	4351.2	1451.3	764.9
77.5°	3980.6	4203.7	5617.2	8317.6	11128.6	11295.9	7599.9	1522.3	623.1	489.8
80°	1298.2	1492.9	2238.9	4234.9	7231.2	7200.0	3257.3	597.6	426.4	347.0
82.5°	551.2	573.9	1000.3	1999.7	3711.1	3653.4	1037.2	343.2	299.7	237.3
85°	215.6	241.1	441.5	924.7	1607.4	1572.4	374.4	170.2	191.9	155.1
87.5°	70.9	86.0	157.9	316.7	500.2	482.2	91.7	58.6	83.2	70.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939979
 CATALOG NUMBER: GALN-SB2D-827-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2330.7	0°	2330.7	2330.7	2330.7	2330.7	2330.7	2330.7	2330.7	2330.7	2330.7	2330.7
2337.3	2.5°	2350.5	2365.6	2383.6	2410.1	2432.8	2451.7	2471.5	2483.8	2488.6	2502.7
2341.1	5°	2367.5	2400.6	2445.1	2488.6	2531.1	2556.6	2579.3	2590.7	2601.1	2608.6
2351.5	7.5°	2395.9	2438.4	2508.4	2565.1	2601.1	2621.9	2637.0	2633.2	2637.0	2638.9
2362.8	10°	2420.5	2480.1	2563.3	2617.1	2644.6	2645.5	2641.7	2628.5	2621.9	2622.8
2379.8	12.5°	2449.8	2516.0	2605.8	2651.2	2658.7	2637.9	2621.9	2599.2	2590.7	2586.9
2405.4	15°	2489.5	2565.1	2652.1	2669.2	2650.2	2623.8	2596.3	2559.5	2540.6	2525.4
2448.8	17.5°	2537.7	2620.9	2688.1	2675.8	2635.1	2591.6	2547.2	2491.4	2452.6	2436.6
2508.4	20°	2604.9	2679.6	2715.5	2661.6	2600.1	2533.9	2458.3	2390.2	2354.3	2338.2
2584.1	22.5°	2686.2	2758.0	2742.0	2637.0	2550.0	2444.1	2349.6	2299.5	2281.5	2270.1
2681.4	25°	2783.6	2845.0	2760.9	2601.1	2467.8	2325.0	2252.2	2236.1	2227.6	2219.1
2800.6	27.5°	2910.3	2943.3	2775.0	2548.1	2339.2	2198.3	2171.8	2174.7	2171.8	2157.6
2966.0	30°	3077.6	3071.0	2788.3	2462.1	2191.7	2083.9	2085.8	2098.1	2100.0	2090.5
3196.7	32.5°	3297.9	3230.8	2794.9	2350.5	2050.8	1983.7	1985.6	1998.8	2008.2	1992.2
3498.4	35°	3564.5	3417.0	2784.5	2210.6	1942.1	1888.2	1874.0	1877.8	1880.6	1865.5
3864.3	37.5°	3875.6	3626.0	2738.2	2055.5	1852.2	1794.6	1764.3	1738.8	1723.6	1709.5
4278.4	40°	4216.9	3853.9	2653.1	1904.2	1752.0	1695.3	1649.9	1601.7	1550.6	1531.7
4717.1	42.5°	4574.3	4088.3	2550.0	1759.6	1636.7	1590.3	1542.1	1472.1	1395.6	1356.8
5172.8	45°	4945.0	4328.5	2448.8	1616.8	1518.5	1498.6	1442.8	1358.7	1275.5	1226.3
5629.5	47.5°	5308.0	4555.4	2300.4	1473.1	1407.9	1429.6	1386.1	1308.6	1215.9	1138.4
6082.4	50°	5655.0	4768.2	2057.4	1327.5	1318.0	1408.8	1367.2	1255.6	1149.7	1050.5
6526.8	52.5°	5999.2	4940.2	1746.3	1195.1	1269.8	1403.1	1342.6	1219.7	1090.2	986.2
6944.7	55°	6291.4	5029.1	1446.6	1081.7	1199.8	1354.9	1313.3	1177.1	1006.0	895.4
7231.2	57.5°	6457.8	4957.3	1197.0	970.1	1103.4	1275.5	1263.2	1086.4	905.8	820.7
7287.0	60°	6385.9	4666.0	992.8	872.7	1011.7	1189.4	1176.2	996.6	829.2	748.8
6988.2	62.5°	5989.8	4111.0	831.1	787.6	928.5	1101.5	1089.2	927.5	770.6	693.1
6194.9	65°	5191.7	3344.2	705.3	716.7	844.3	995.6	1013.6	869.9	724.3	648.6
4792.7	67.5°	3959.8	2422.4	607.0	655.2	762.1	891.6	943.6	828.3	685.5	613.6
2773.2	70°	2256.9	1375.7	523.8	595.7	689.3	795.2	889.7	795.2	643.9	584.3
1039.1	72.5°	855.7	631.6	452.9	536.1	619.3	713.9	830.2	743.2	595.7	551.2
537.0	75°	456.7	384.8	381.0	466.1	538.9	634.4	755.5	692.1	559.7	582.4
371.6	77.5°	311.1	272.3	318.6	399.0	451.0	546.5	676.0	614.6	485.0	483.2
257.2	80°	215.6	192.9	259.1	321.5	348.9	459.5	590.0	527.6	395.2	368.7
158.8	82.5°	129.5	125.8	193.8	240.2	246.8	354.6	488.8	442.5	323.4	281.8
94.6	85°	70.9	74.7	123.9	140.9	143.7	247.7	382.9	342.3	248.7	209.0
34.0	87.5°	19.9	25.5	45.4	55.8	69.0	128.6	227.9	203.3	124.8	87.0
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>
2330.7
2501.8
2610.5
2641.7
2624.7
2585.0
2530.2
2437.5
2336.3
2272.0
2219.1
2160.5
2095.2
1999.7
1875.9
1718.9
1540.2
1361.5
1222.5
1129.9
1041.9
974.8
885.9
809.3
737.5
680.8
636.3
602.3
576.8
543.7
601.3
445.3
352.7
283.7
210.8
87.0
0.0

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