

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: P949279

Luminaire Tested: **GALN-SB4A-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949279
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-SB4A-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16049 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

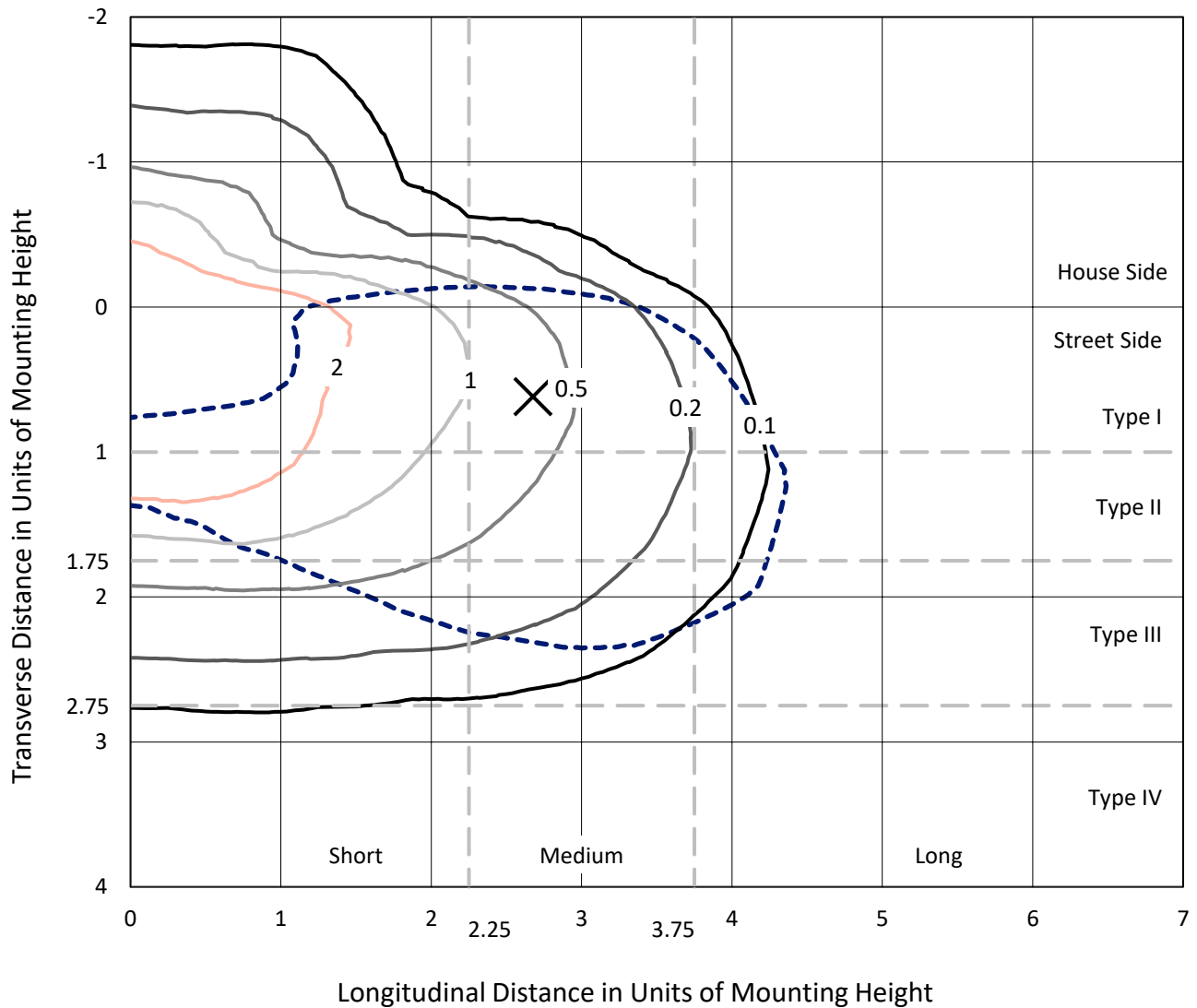
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

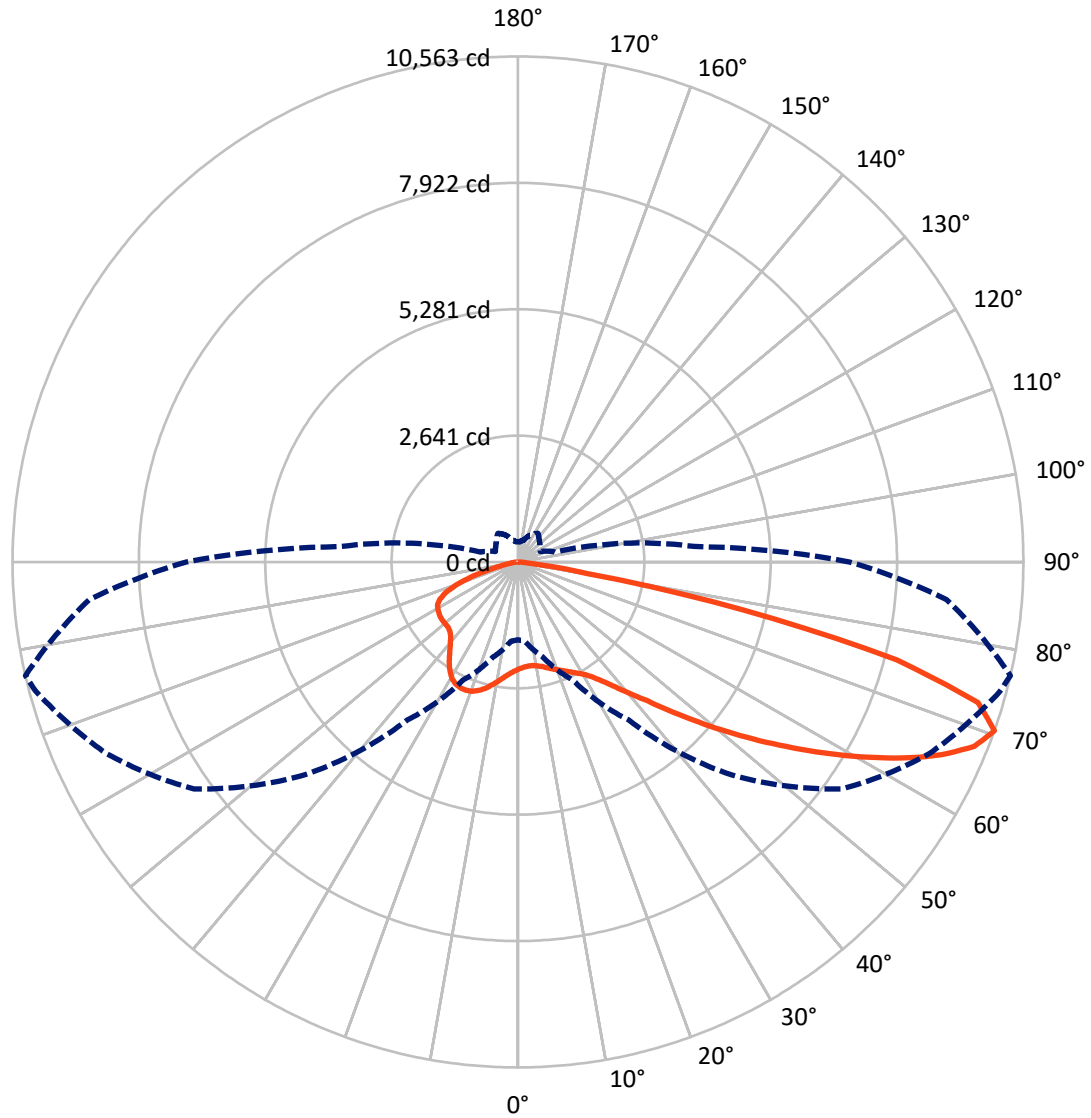
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GALN-SB4A-827-U-T3R

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	3514.5	0.0	3514.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12534.5	0.0	12534.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	16049.0	0.0	16049.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.5	1.3
10°-20°	616.3	3.8
20°-30°	1054.0	6.6
30°-40°	1694.9	10.6
40°-50°	2646.1	16.5
50°-60°	3534.6	22.0
60°-70°	3767.3	23.5
70°-80°	2319.1	14.5
80°-90°	203.2	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°	16049.0	100.0
0°-180°	16049.0	100.0



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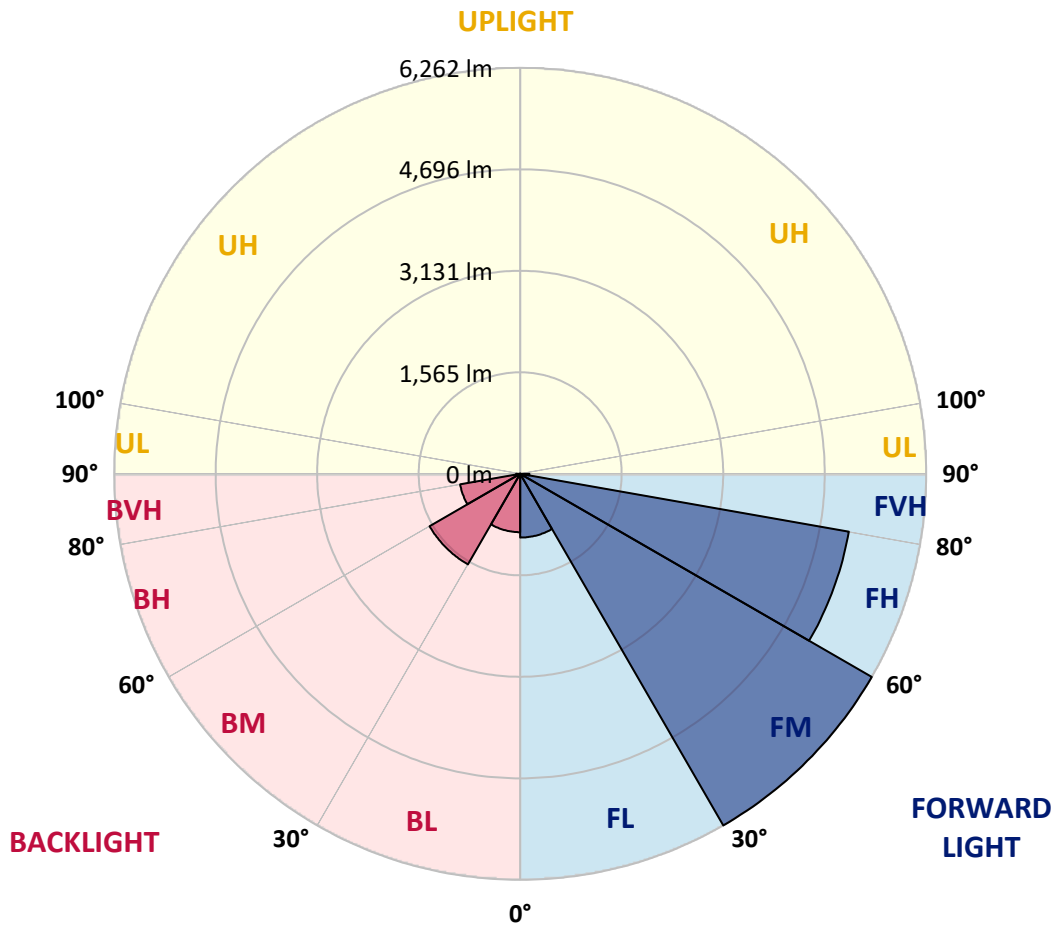
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	983.3	6.1			
FM (30°-60°)	6262.0	39.0			
FH (60°-80°)	5147.2	32.1			G3/7500
FVH (80°-90°)	142.1	0.9			G2/225
BL (0°-30°)	900.5	5.6	B2/1000		
BM (30°-60°)	1613.6	10.1	B2/2500		
BH (60°-80°)	939.3	5.9	B2/1000		G2/1000
BVH (80°-90°)	61.1	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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 CATALOG NUMBER: GALN-SB4A-827-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0
2.5°	2063.9	2063.1	2073.8	2077.1	2096.8	2110.8	2137.1	2165.0	2201.2	2205.3
5°	1944.7	1944.7	1957.1	1970.2	1995.7	2023.6	2063.9	2112.4	2174.9	2184.7
7.5°	1843.6	1850.2	1860.9	1886.4	1916.0	1956.2	2017.9	2086.9	2169.1	2184.7
10°	1762.3	1769.7	1782.8	1803.4	1847.7	1903.6	1984.2	2072.9	2183.1	2207.7
12.5°	1736.8	1744.2	1751.6	1767.2	1808.3	1874.0	1970.2	2079.5	2216.8	2241.4
15°	1796.0	1805.0	1799.2	1795.1	1816.5	1876.5	1976.8	2103.4	2258.7	2294.1
17.5°	1932.4	1935.7	1922.5	1883.9	1880.6	1912.7	2008.0	2136.2	2311.3	2349.9
20°	2152.7	2146.9	2119.8	2043.4	1999.8	1993.2	2061.4	2185.6	2365.6	2406.7
22.5°	2451.9	2445.3	2391.0	2270.2	2173.2	2109.1	2138.7	2249.7	2426.4	2472.4
25°	2825.0	2816.0	2736.3	2571.9	2421.5	2262.8	2243.9	2334.3	2501.2	2543.9
27.5°	3260.7	3253.3	3167.0	2950.0	2733.0	2473.2	2374.6	2433.8	2579.3	2627.8
30°	3729.2	3750.5	3597.7	3364.2	3089.7	2747.8	2550.5	2556.3	2680.4	2723.9
32.5°	4279.9	4316.9	4132.7	3836.8	3462.0	3046.1	2772.4	2727.2	2827.5	2863.7
35°	4825.6	4867.6	4714.7	4387.5	3956.0	3397.9	3004.2	2923.7	3023.1	3062.6
37.5°	5297.4	5353.3	5274.4	4990.0	4484.5	3822.1	3306.7	3154.6	3263.9	3313.3
40°	5669.8	5755.3	5749.5	5572.0	5107.6	4336.6	3690.5	3439.8	3563.1	3616.6
42.5°	5972.3	6046.2	6110.3	6101.3	5757.7	4921.0	4141.8	3810.5	3904.2	3965.9
45°	6181.0	6259.9	6398.0	6546.8	6383.2	5546.5	4658.8	4250.3	4335.8	4428.6
47.5°	6367.6	6457.2	6636.4	6872.3	6914.2	6174.5	5225.1	4762.4	4840.4	4936.6
50°	6384.1	6461.3	6739.1	7073.7	7291.5	6777.8	5833.4	5336.9	5410.1	5512.8
52.5°	5987.1	6108.7	6593.7	7067.9	7464.9	7282.4	6437.5	5934.5	6016.6	6139.9
55°	4647.3	4825.6	6167.1	6847.6	7403.3	7608.8	7012.0	6569.8	6675.0	6804.1
57.5°	4002.9	4081.0	4895.5	6446.5	7122.2	7693.4	7497.0	7211.8	7381.1	7522.5
60°	3597.7	3662.6	4144.3	5822.7	6752.3	7559.4	7871.8	7810.1	8102.7	8271.2
62.5°	3163.7	3225.3	3663.4	4861.8	6278.8	7336.7	8108.5	8362.5	8842.5	9026.6
65°	2733.0	2785.6	3205.6	4085.1	5677.2	7113.9	8231.0	8840.0	9527.2	9717.9
67.5°	2253.0	2296.5	2693.5	3446.4	4945.7	6809.0	8291.8	9215.7	10123.1	10286.7
70°	1625.8	1659.5	2069.7	2725.6	4027.5	6284.6	8267.1	9482.0	10432.1	10562.8
72.5°	768.5	798.9	1280.6	1769.7	2844.8	5263.7	7768.2	9270.7	10118.2	10053.2
75°	410.2	436.5	735.6	970.7	1502.5	3608.3	6356.9	7986.0	8496.5	8180.8
77.5°	277.8	298.4	455.4	582.8	686.3	1712.9	4085.9	5529.2	5319.6	4798.5
80°	220.3	241.7	373.2	394.5	332.1	618.9	1688.3	2559.5	1838.7	1470.5
82.5°	169.3	193.2	314.0	286.0	180.8	254.0	491.5	809.6	471.0	358.4
85°	103.6	129.0	246.6	182.5	101.9	115.9	166.9	225.2	143.8	120.0
87.5°	52.6	74.0	124.9	66.6	46.0	27.1	44.4	44.4	37.8	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949279
 CATALOG NUMBER: GALN-SB4A-827-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2239.0	0°	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0
2227.5	2.5°	2247.2	2263.6	2291.6	2317.9	2338.4	2358.2	2377.9	2388.6	2391.9	2405.0
2239.8	5°	2273.5	2303.9	2358.2	2409.1	2441.2	2460.9	2474.9	2483.1	2484.7	2488.9
2273.5	7.5°	2322.0	2370.5	2446.1	2497.1	2520.9	2519.3	2513.5	2493.0	2484.7	2477.3
2322.8	10°	2390.2	2454.3	2547.2	2582.6	2567.8	2528.3	2477.3	2417.3	2389.4	2362.3
2390.2	12.5°	2474.9	2556.3	2647.5	2645.8	2572.7	2471.6	2353.2	2261.2	2202.8	2160.9
2473.2	15°	2577.6	2671.3	2741.2	2685.3	2525.0	2343.4	2169.9	2049.9	1997.3	1951.3
2557.1	17.5°	2683.7	2783.9	2816.0	2673.0	2405.0	2153.5	1957.1	1862.5	1810.7	1786.1
2647.5	20°	2787.2	2886.7	2860.4	2602.3	2222.5	1938.1	1763.1	1711.3	1700.6	1706.4
2735.4	22.5°	2896.5	2985.3	2869.4	2465.8	1989.9	1717.9	1621.7	1623.3	1647.2	1664.4
2827.5	25°	3008.3	3068.3	2845.6	2268.6	1740.1	1555.9	1532.1	1558.4	1605.3	1639.0
2931.1	27.5°	3116.0	3142.3	2793.8	2024.5	1525.5	1440.1	1444.2	1498.4	1569.1	1615.9
3056.8	30°	3237.6	3208.1	2694.3	1749.9	1376.8	1340.6	1375.1	1438.4	1509.1	1551.0
3215.5	32.5°	3374.9	3264.8	2536.5	1495.9	1271.6	1260.9	1317.6	1358.7	1389.9	1402.2
3425.9	35°	3545.9	3344.5	2334.3	1317.6	1177.0	1202.5	1256.8	1236.2	1223.9	1217.3
3708.6	37.5°	3767.8	3452.2	2097.6	1201.7	1100.6	1160.6	1182.8	1118.7	1070.2	1046.3
4051.4	40°	4034.9	3610.0	1869.9	1112.1	1052.1	1124.4	1085.8	1008.5	946.9	913.2
4436.9	42.5°	4331.7	3775.2	1678.4	1044.7	1025.0	1094.8	1014.3	922.2	822.8	812.1
4896.3	45°	4643.2	3945.3	1547.7	992.9	1011.8	1069.4	973.2	824.4	753.7	797.3
5357.4	47.5°	4954.7	4101.5	1468.8	954.3	1005.2	1040.6	937.0	770.2	720.0	783.3
5851.4	50°	5301.6	4241.2	1433.5	926.3	997.8	1029.1	882.8	756.2	684.7	726.6
6362.7	52.5°	5645.9	4349.7	1407.2	898.4	987.2	1020.0	856.5	739.8	641.9	644.4
6877.2	55°	5989.5	4420.4	1378.4	861.4	963.3	1000.3	854.0	721.7	609.9	598.4
7421.4	57.5°	6356.1	4460.7	1343.1	820.3	922.2	950.2	851.5	707.7	600.0	581.1
7977.8	60°	6729.3	4519.9	1297.0	770.2	867.2	890.2	845.8	702.8	594.3	562.2
8502.2	62.5°	7063.8	4540.4	1242.0	722.5	796.5	831.0	833.5	698.7	578.7	523.6
8937.8	65°	7283.3	4451.7	1145.8	668.2	720.0	770.2	809.6	684.7	550.7	495.6
9153.2	67.5°	7274.2	4198.5	995.4	598.4	646.0	702.8	775.1	660.8	517.0	461.1
8990.4	70°	6935.6	3698.8	804.7	517.0	564.7	630.4	730.7	625.5	476.7	423.3
7994.3	72.5°	5948.4	2894.9	584.4	421.7	470.2	555.6	673.2	582.8	435.6	389.6
5908.2	75°	4249.5	1832.1	396.2	323.8	365.8	471.0	601.7	532.6	397.8	391.2
2959.0	77.5°	2170.8	875.4	262.2	236.7	254.8	371.5	505.5	475.9	403.6	323.0
841.7	80°	706.1	323.0	165.2	161.1	169.3	247.4	391.2	390.4	305.8	219.5
203.8	82.5°	225.2	138.9	107.7	103.6	99.5	155.3	272.9	309.1	206.3	138.9
73.2	85°	89.6	83.0	63.3	58.4	41.9	73.2	143.0	205.5	153.7	100.3
18.9	87.5°	32.9	32.9	17.3	12.3	9.0	24.7	38.6	61.6	87.9	51.8
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>
2239.0
2412.4
2495.4
2479.0
2354.1
2151.0
1946.4
1793.5
1703.9
1668.6
1648.0
1627.5
1560.9
1408.8
1223.9
1052.1
915.6
822.8
820.3
812.9
757.8
661.7
606.6
583.6
564.7
523.6
495.6
463.6
428.2
387.1
369.1
287.7
194.0
138.1
102.7
51.0
0.0

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