

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: P940825

Luminaire Tested: **GALN-SB4A-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15490 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

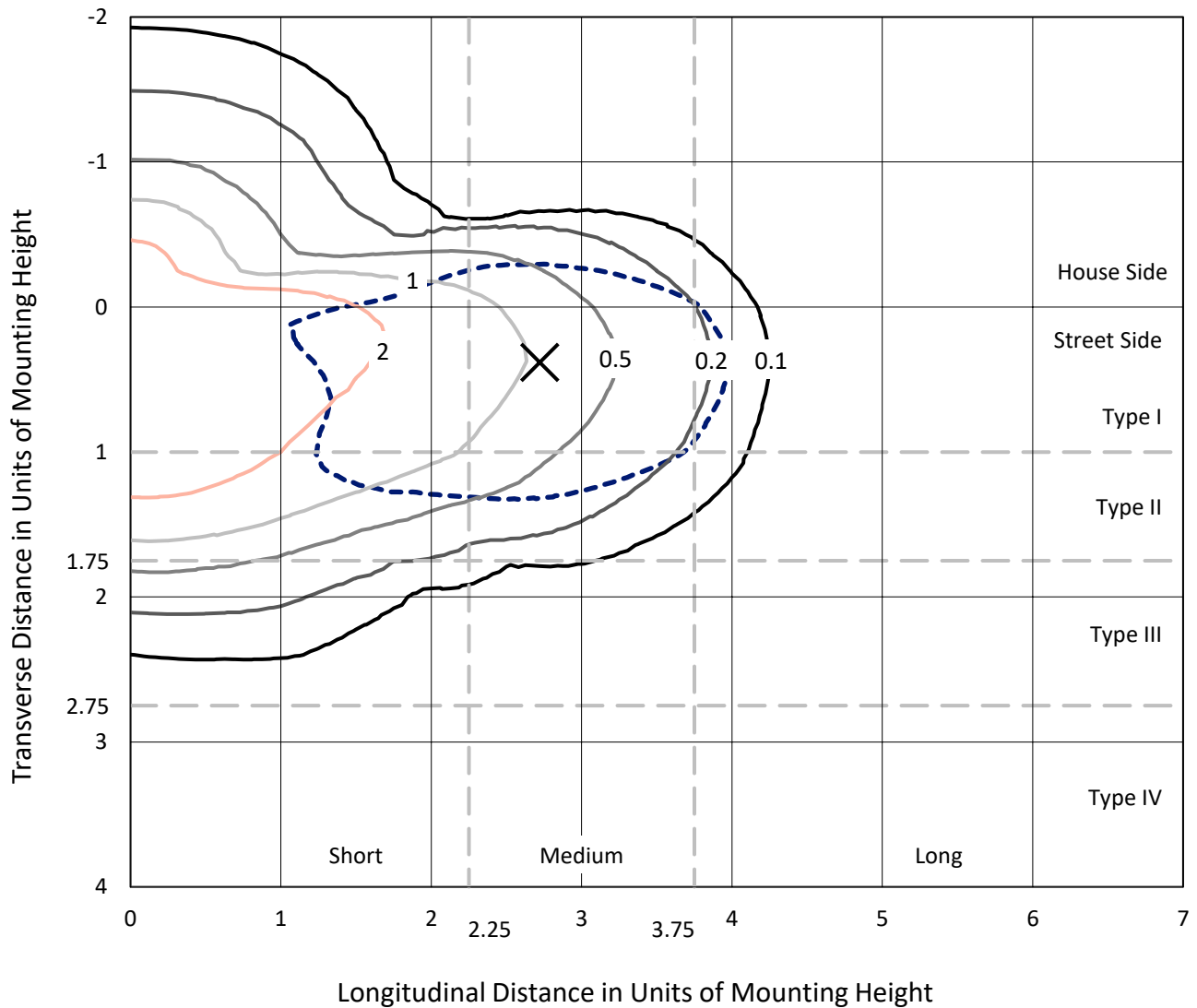
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

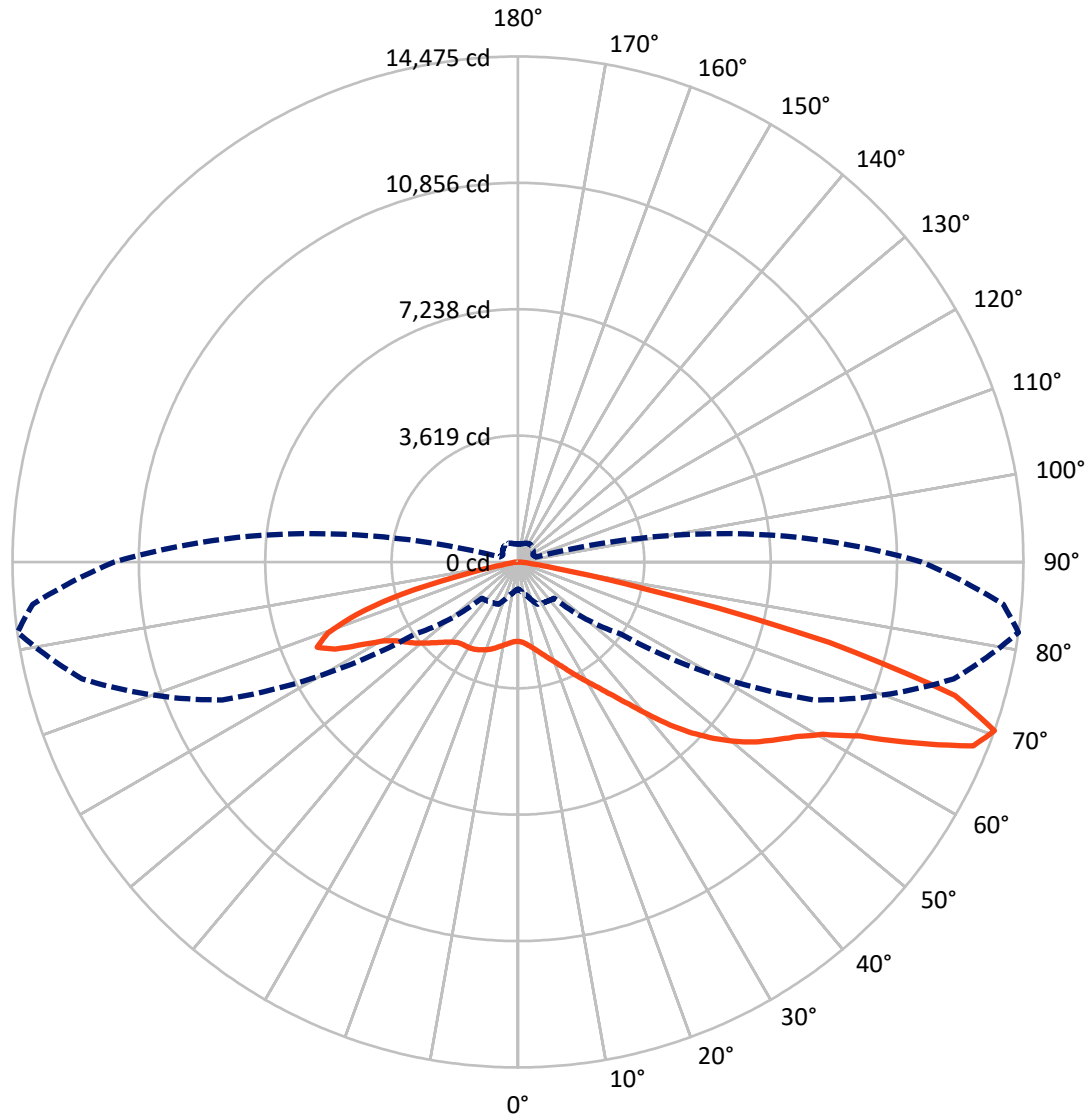
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3818.7	0.0	3818.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	11671.3	0.0	11671.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	15490.0	0.0	15490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	1.4
10°-20°	616.1	4.0
20°-30°	1030.6	6.7
30°-40°	1610.1	10.4
40°-50°	2564.2	16.6
50°-60°	3568.4	23.0
60°-70°	3732.7	24.1
70°-80°	1950.9	12.6
80°-90°	202.6	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°	15490.0	100.0
0°-180°	15490.0	100.0

Coefficient of Utilization



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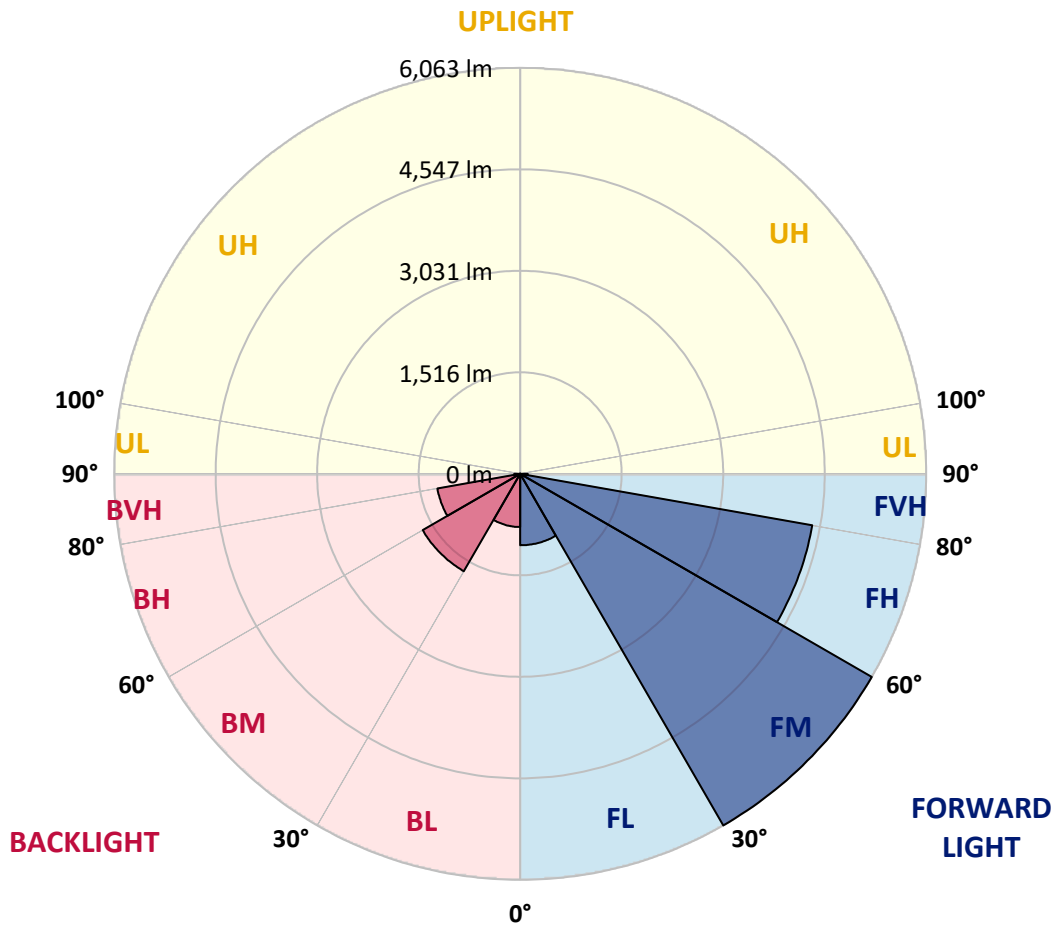
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1066.7	6.9			
FM (30°-60°)	6062.6	39.1			
FH (60°-80°)	4428.6	28.6			G2/5000
FVH (80°-90°)	113.4	0.7			G2/225
BL (0°-30°)	794.4	5.1	B2/1000		
BM (30°-60°)	1680.1	10.8	B2/2500		
BH (60°-80°)	1255.0	8.1	B3/2500		G3/2500
BVH (80°-90°)	89.2	0.6			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0
2.5°	2325.3	2338.4	2334.3	2330.2	2330.2	2324.5	2323.6	2315.4	2308.8	2298.2
5°	2354.9	2368.8	2367.2	2370.5	2381.2	2383.6	2386.1	2381.2	2368.0	2354.9
7.5°	2328.6	2344.2	2349.1	2368.8	2401.7	2431.3	2453.5	2462.5	2450.2	2431.3
10°	2239.8	2257.1	2274.3	2321.2	2379.5	2449.4	2508.6	2543.9	2541.4	2523.4
12.5°	2059.8	2077.9	2114.9	2206.1	2312.9	2436.2	2546.4	2620.4	2645.8	2632.7
15°	1915.9	1931.6	1959.5	2053.2	2192.1	2379.5	2560.4	2704.2	2769.1	2761.7
17.5°	1911.8	1918.4	1935.7	1980.1	2086.9	2290.8	2545.6	2786.4	2910.5	2909.7
20°	1984.2	1986.6	1996.5	2005.5	2066.4	2223.4	2507.7	2854.6	3069.1	3069.1
22.5°	2084.4	2082.8	2092.7	2084.4	2114.0	2217.6	2483.9	2914.6	3245.9	3259.0
25°	2234.9	2226.6	2224.2	2205.3	2211.0	2271.0	2510.2	2982.8	3455.4	3482.6
27.5°	2435.4	2422.3	2413.2	2369.7	2354.9	2381.2	2590.8	3065.0	3688.9	3735.7
30°	2696.8	2673.0	2659.8	2584.2	2530.8	2534.9	2712.4	3174.3	3933.0	4008.6
32.5°	3053.5	3016.5	2981.2	2857.1	2759.3	2727.2	2869.4	3325.6	4197.7	4318.5
35°	3453.0	3423.4	3385.6	3194.1	3043.7	2969.7	3081.5	3536.8	4507.5	4699.0
37.5°	3837.7	3812.2	3830.3	3572.2	3378.2	3270.5	3359.3	3820.4	4889.7	5172.5
40°	4235.5	4215.7	4218.2	3971.6	3745.6	3624.8	3696.3	4176.3	5327.8	5735.5
42.5°	4667.8	4653.0	4603.7	4385.1	4131.1	4018.5	4084.2	4587.3	5798.0	6376.6
45°	5151.9	5142.9	5096.9	4846.2	4555.2	4428.6	4517.4	5041.0	6270.6	6979.9
47.5°	5570.3	5577.7	5571.9	5360.7	5059.1	4873.3	4979.3	5514.4	6710.3	7547.1
50°	5771.7	5810.3	5867.0	5801.3	5613.9	5424.8	5445.4	5971.4	7129.5	8078.9
52.5°	5666.5	5739.6	5894.2	5999.4	6071.7	6032.2	5977.2	6425.1	7524.1	8558.9
55°	5274.4	5377.1	5633.6	5887.6	6256.6	6543.5	6615.8	6928.2	7908.7	8981.4
57.5°	4560.1	4727.0	4957.1	5470.9	6092.2	6790.9	7360.5	7626.0	8316.4	9432.6
60°	3335.4	3559.0	3845.0	4609.5	5516.9	6658.6	7994.2	8697.8	8895.9	10017.0
62.5°	2134.6	2272.7	2535.7	3255.7	4298.8	5980.5	8188.2	10037.6	9878.1	10975.4
65°	1461.4	1550.2	1791.0	2195.4	2779.0	4451.6	7668.7	11042.0	11438.2	12494.4
67.5°	1061.9	1129.3	1334.8	1689.1	1810.7	2634.3	5950.9	10995.9	12954.6	14059.3
70°	774.3	821.9	994.6	1334.8	1393.2	1465.5	3605.0	9347.1	12921.8	14475.2
72.5°	573.7	606.6	722.5	1035.6	1127.7	989.6	1784.4	6793.4	11103.6	13092.7
75°	415.1	439.7	525.2	792.4	902.5	753.7	890.2	3970.0	7745.2	9209.9
77.5°	317.3	336.2	392.1	580.3	722.5	565.5	552.3	1826.4	3672.4	3690.5
80°	254.8	267.1	297.5	408.5	554.0	423.3	360.0	737.3	1160.6	982.2
82.5°	187.4	208.0	251.5	286.9	396.2	291.8	219.5	372.3	441.4	379.7
85°	106.9	120.8	152.1	205.5	253.2	178.4	125.8	165.2	205.5	168.5
87.5°	37.8	49.3	53.4	80.6	110.1	74.0	48.5	47.7	67.4	50.1
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°
2271.0	0°	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0	2271.0
2295.7	2.5°	2287.5	2283.4	2266.9	2244.7	2221.7	2199.5	2192.1	2176.5	2165.8	2160.1
2349.1	5°	2333.5	2320.3	2281.7	2232.4	2180.6	2124.7	2085.3	2049.1	2022.8	1998.1
2422.3	7.5°	2399.3	2376.2	2309.7	2223.4	2131.3	2038.4	1969.4	1916.8	1881.4	1858.4
2507.7	10°	2475.7	2440.3	2338.4	2209.4	2067.2	1934.0	1852.7	1807.5	1785.3	1772.9
2605.6	12.5°	2563.6	2513.5	2368.0	2177.3	1969.4	1817.3	1761.4	1748.3	1749.1	1749.9
2728.8	15°	2672.1	2602.3	2391.9	2107.5	1842.0	1727.7	1717.9	1739.2	1761.4	1772.1
2868.6	17.5°	2794.6	2696.0	2396.0	1992.4	1717.0	1670.2	1701.4	1747.5	1781.1	1795.9
3024.7	20°	2926.1	2791.3	2366.4	1829.6	1614.3	1623.3	1679.2	1738.4	1775.4	1794.3
3203.1	22.5°	3076.5	2893.2	2295.7	1658.7	1530.5	1572.4	1638.1	1695.7	1734.3	1753.2
3412.7	25°	3248.3	3007.5	2184.7	1514.8	1458.1	1514.8	1580.6	1628.3	1659.5	1676.8
3647.0	27.5°	3439.0	3126.7	2036.8	1400.6	1394.8	1455.7	1509.9	1546.9	1563.3	1576.5
3896.0	30°	3630.5	3235.2	1857.6	1314.3	1339.8	1397.3	1435.9	1452.4	1457.3	1459.8
4173.8	32.5°	3837.7	3328.9	1669.4	1242.8	1287.2	1340.6	1363.6	1371.0	1348.0	1332.4
4510.8	35°	4088.3	3429.1	1485.3	1186.1	1235.4	1281.4	1288.8	1282.2	1255.1	1223.1
4933.3	37.5°	4398.2	3554.1	1338.1	1145.8	1186.9	1217.3	1208.3	1206.6	1209.1	1171.3
5441.3	40°	4778.0	3716.8	1230.4	1114.6	1147.4	1154.0	1128.5	1142.5	1154.8	1097.3
5998.5	42.5°	5199.6	3913.3	1162.2	1093.2	1114.6	1098.9	1059.5	1075.1	1073.5	997.8
6558.3	45°	5629.5	4127.0	1138.4	1077.6	1084.1	1052.9	1009.3	1013.5	978.9	910.7
7095.0	47.5°	6056.9	4356.3	1153.2	1064.4	1046.3	1011.0	977.3	959.2	908.2	857.3
7609.5	50°	6476.1	4597.1	1207.4	1038.1	994.6	974.0	949.3	917.3	863.0	819.5
8096.1	52.5°	6864.9	4839.6	1268.3	994.6	929.6	941.9	926.3	889.3	835.9	791.5
8556.4	55°	7233.1	5082.1	1292.1	934.5	868.8	914.0	905.0	836.7	772.6	736.5
9038.1	57.5°	7634.2	5373.9	1265.8	858.1	819.5	881.9	847.4	771.8	734.8	707.7
9665.2	60°	8189.8	5831.7	1209.1	763.6	772.6	834.3	775.1	743.9	703.6	673.2
10605.5	62.5°	9112.9	6685.7	1117.8	669.9	717.6	763.6	740.6	709.3	668.2	638.6
12213.2	65°	10477.3	7872.6	946.1	596.7	655.9	694.5	703.6	672.3	629.6	598.4
13622.1	67.5°	11628.0	8617.2	715.9	535.9	592.6	638.6	664.1	633.7	588.5	558.1
13951.7	70°	11564.7	8076.4	546.6	475.9	536.7	583.6	616.5	592.6	544.1	515.4
12672.7	72.5°	10271.8	6756.4	442.2	415.1	480.0	526.0	565.5	547.4	498.1	470.2
9283.8	75°	7546.3	4796.0	353.4	353.4	409.3	466.0	509.6	498.1	452.9	433.2
3897.7	77.5°	3180.9	2012.1	277.0	293.4	340.3	400.3	454.5	458.6	419.2	443.8
1030.7	80°	845.8	554.8	211.2	231.0	267.1	330.4	395.4	393.7	351.0	328.0
383.0	82.5°	322.2	218.6	150.4	162.7	193.2	253.2	313.2	323.0	280.3	242.5
150.4	85°	124.1	93.7	92.9	97.8	112.6	167.7	236.7	244.9	211.2	179.2
41.9	87.5°	32.1	27.9	34.5	32.9	51.8	89.6	135.6	140.6	129.0	74.8
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>
2271.0
2166.6
2008.0
1863.3
1776.2
1751.6
1771.3
1799.2
1799.2
1758.1
1681.7
1581.4
1465.5
1337.3
1224.7
1173.7
1098.9
997.0
913.2
857.3
816.2
792.4
733.2
705.2
671.5
638.6
600.0
558.9
517.8
470.2
427.4
402.8
304.9
242.5
184.9
106.9
0.0

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