

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: P946068

Luminaire Tested: **GALN-SB1D-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8834 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

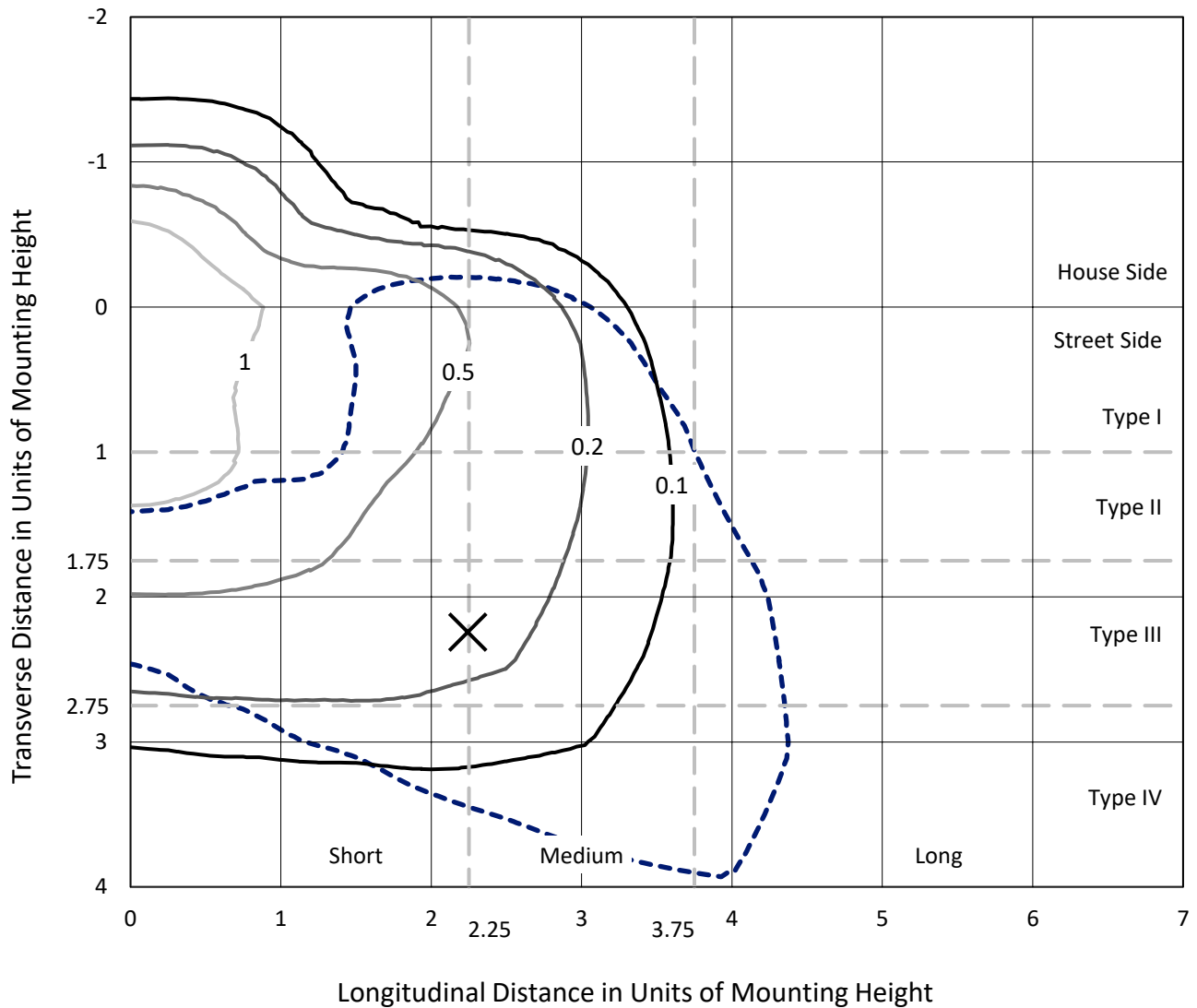
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

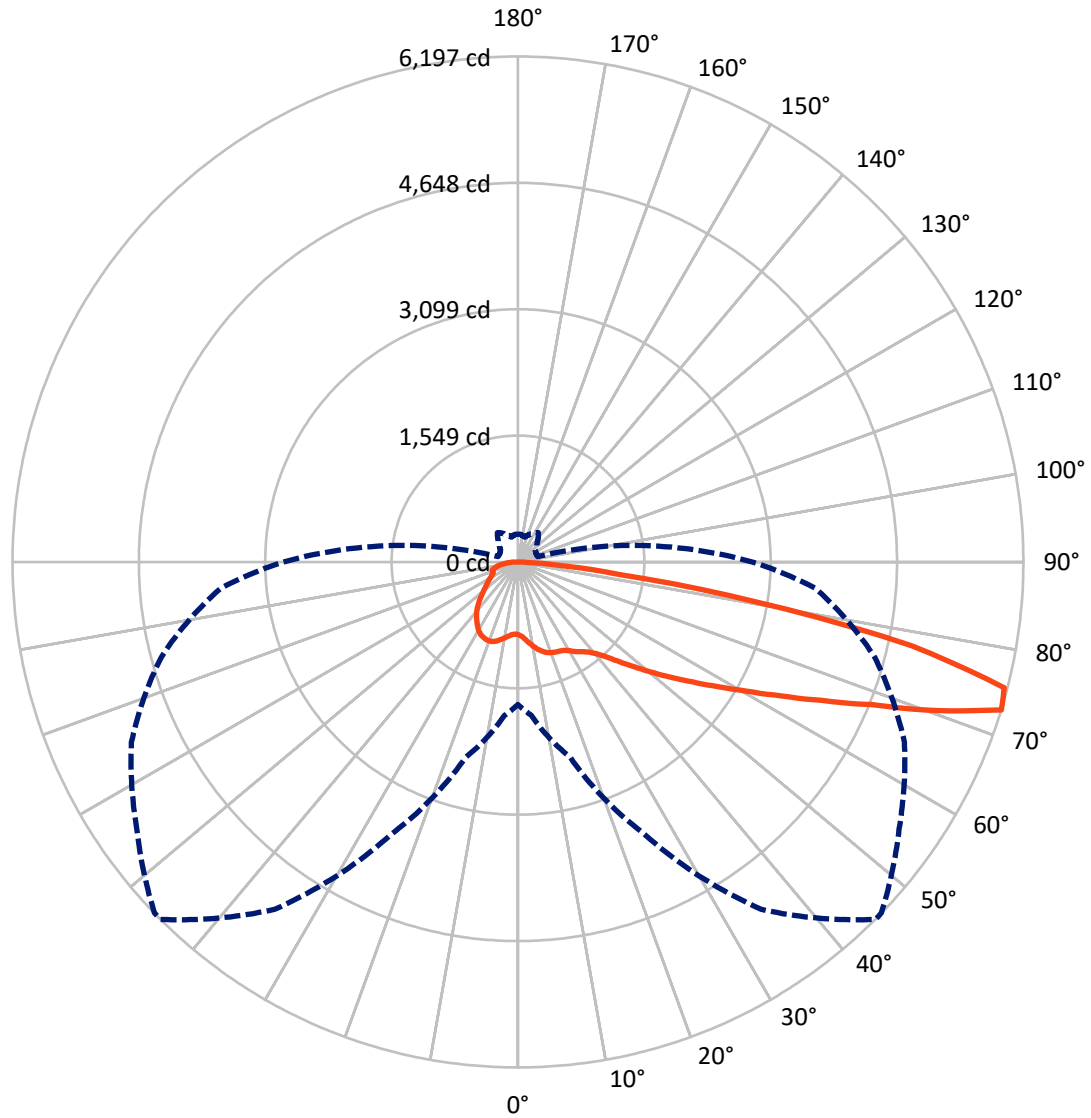
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1997.1	0.0	1997.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6836.9	0.0	6836.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	8834.0	0.0	8834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.0
10°-20°	302.4	3.4
20°-30°	526.1	6.0
30°-40°	754.2	8.5
40°-50°	1061.9	12.0
50°-60°	1626.5	18.4
60°-70°	2356.3	26.7
70°-80°	1881.6	21.3
80°-90°	234.3	2.7
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°	8834.0	100.0
0°-180°	8834.0	100.0

Coefficient of Utilization



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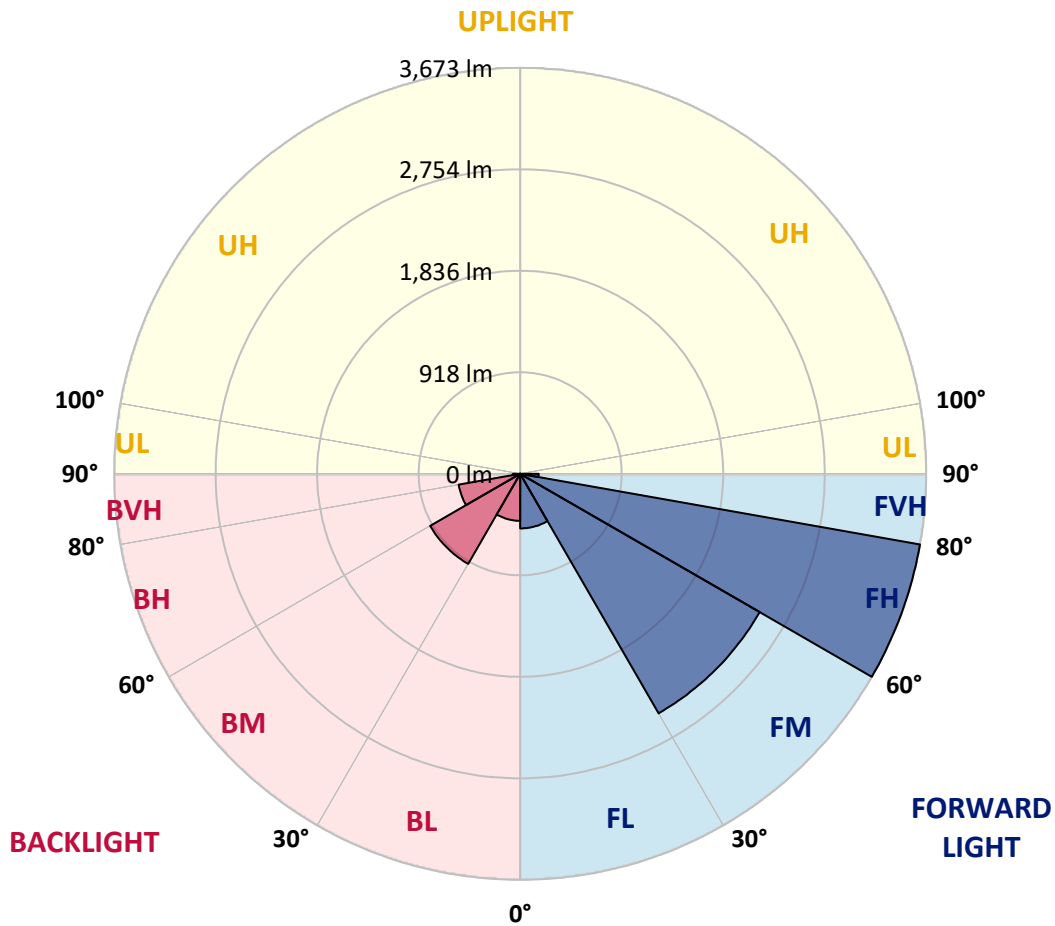
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.0	5.6			
FM (30°-60°)	2502.3	28.3			
FH (60°-80°)	3672.6	41.6			G2/5000
FVH (80°-90°)	168.1	1.9			G2/225
BL (0°-30°)	425.2	4.8	B1/500		
BM (30°-60°)	940.3	10.6	B1/1000		
BH (60°-80°)	565.3	6.4	B2/1000		G2/1000
BVH (80°-90°)	66.2	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2
2.5°	926.1	932.1	926.5	921.4	919.1	913.1	912.6	908.9	906.5	900.0
5°	990.8	998.7	989.4	979.1	969.8	954.9	953.1	942.4	930.3	916.3
7.5°	1063.8	1070.8	1060.1	1044.7	1028.5	1003.8	1003.3	983.8	964.7	941.0
10°	1127.6	1136.9	1122.5	1101.5	1081.0	1053.1	1049.9	1027.5	1003.3	972.6
12.5°	1183.9	1190.4	1176.4	1150.9	1127.1	1099.2	1095.0	1070.3	1043.4	1008.5
15°	1228.6	1236.9	1218.3	1190.9	1165.7	1138.3	1134.6	1112.2	1085.2	1048.5
17.5°	1257.9	1264.9	1245.8	1215.1	1190.9	1168.1	1165.3	1146.7	1122.9	1085.7
20°	1269.1	1276.5	1256.5	1225.3	1203.0	1185.3	1183.9	1170.4	1154.1	1120.1
22.5°	1280.2	1287.2	1261.1	1228.6	1209.0	1197.9	1197.4	1188.5	1182.0	1154.1
25°	1325.4	1327.2	1292.3	1245.3	1217.4	1207.6	1207.2	1206.7	1209.5	1187.6
27.5°	1364.5	1364.0	1334.2	1290.0	1246.7	1226.2	1225.8	1230.4	1239.3	1221.1
30°	1421.7	1416.6	1381.2	1335.1	1295.6	1263.9	1261.1	1257.0	1263.9	1249.5
32.5°	1543.2	1526.9	1469.6	1387.7	1336.1	1311.9	1308.1	1282.1	1284.9	1276.0
35°	1717.2	1695.8	1619.5	1487.3	1386.3	1351.9	1350.0	1317.0	1311.4	1303.5
37.5°	1924.3	1897.8	1808.9	1631.6	1472.9	1398.4	1395.6	1365.9	1343.1	1334.7
40°	2132.3	2098.8	2025.3	1807.5	1600.4	1476.1	1467.3	1422.2	1396.1	1382.1
42.5°	2334.3	2306.4	2243.5	2004.8	1757.7	1589.7	1570.1	1492.9	1473.4	1460.3
45°	2513.0	2487.9	2441.8	2215.6	1942.0	1744.2	1725.1	1599.0	1593.0	1593.0
47.5°	2658.2	2652.6	2603.7	2430.6	2159.3	1920.1	1887.1	1746.5	1762.8	1787.9
50°	2819.2	2803.8	2751.7	2642.4	2414.8	2121.6	2094.6	1927.6	1988.5	2057.4
52.5°	2967.2	2975.6	2917.4	2862.9	2703.3	2346.4	2298.9	2141.2	2272.9	2386.9
55°	3119.4	3119.8	3103.5	3096.1	3005.8	2594.9	2542.8	2398.0	2607.5	2748.9
57.5°	3262.2	3263.2	3287.4	3353.0	3356.7	2881.6	2822.5	2713.6	2979.3	3123.5
60°	3389.7	3396.3	3462.3	3615.9	3665.2	3210.1	3154.3	3086.3	3363.7	3508.9
62.5°	3432.6	3456.3	3603.3	3821.6	3970.0	3613.1	3558.2	3517.7	3767.6	3902.6
65°	3360.0	3414.4	3698.7	3991.5	4283.7	4092.0	4037.5	3993.3	4187.4	4314.4
67.5°	3181.7	3252.0	3693.2	4169.7	4664.4	4668.1	4617.4	4513.6	4637.4	4686.3
70°	2712.2	2817.3	3367.9	4236.2	5101.4	5456.0	5407.1	5140.0	5086.5	4850.1
72.5°	1747.5	1888.9	2479.9	3688.5	5198.6	6197.3	6194.5	5705.4	5228.4	4531.7
75°	637.6	724.1	1152.2	2315.2	4363.8	6159.6	6177.8	5608.6	4772.8	3500.5
77.5°	232.2	254.1	376.0	889.8	2683.8	4942.2	4979.9	4483.8	3397.2	1756.8
80°	121.9	134.0	192.7	345.3	1149.9	2935.1	2994.2	2664.7	1596.7	529.1
82.5°	67.5	73.1	108.0	187.5	518.0	1255.1	1290.5	1052.7	561.7	224.3
85°	36.3	38.6	50.7	102.4	253.2	435.1	444.9	314.6	223.8	131.7
87.5°	10.7	13.0	16.8	32.6	99.1	97.7	100.1	62.4	88.4	66.5
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°
891.2	0°	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2
898.2	2.5°	895.4	894.0	888.9	886.5	883.7	883.3	885.6	886.1	886.5	887.0
908.4	5°	903.7	899.1	894.4	891.6	892.6	893.0	897.7	901.0	903.3	905.1
927.5	7.5°	920.0	916.3	908.4	907.9	909.3	913.5	919.6	927.0	931.2	934.5
952.1	10°	944.2	937.3	927.9	929.3	932.1	938.2	950.7	956.8	963.8	969.8
982.4	12.5°	968.9	962.8	952.1	953.1	957.7	968.4	980.5	988.0	992.6	997.3
1015.0	15°	1001.0	990.3	978.7	978.7	987.0	998.7	1004.3	1010.3	1013.1	1018.2
1049.9	17.5°	1034.0	1020.1	1004.7	1003.8	1014.0	1019.6	1022.9	1023.8	1024.7	1030.3
1083.8	20°	1067.1	1051.7	1029.9	1028.0	1030.3	1029.4	1028.9	1028.0	1029.4	1036.4
1118.7	22.5°	1099.7	1082.0	1051.7	1043.4	1036.8	1028.0	1027.5	1027.1	1028.0	1035.0
1156.4	25°	1137.8	1116.4	1075.9	1050.8	1028.9	1016.8	1018.2	1018.7	1019.6	1025.2
1195.5	27.5°	1179.2	1155.5	1098.3	1048.5	1008.9	1000.5	998.2	999.6	1002.9	1011.7
1234.6	30°	1220.7	1192.7	1118.7	1039.2	983.8	972.2	964.7	968.0	978.2	987.0
1268.6	32.5°	1258.4	1230.4	1135.0	1018.7	951.7	933.5	923.8	927.9	938.2	941.4
1306.3	35°	1302.6	1270.9	1142.0	986.1	916.8	888.9	875.8	869.8	874.9	871.6
1350.5	37.5°	1351.9	1318.9	1141.1	943.3	875.8	843.7	825.6	802.8	792.1	780.9
1415.6	40°	1425.0	1377.5	1129.9	891.6	825.1	795.8	763.2	724.6	700.4	678.5
1520.8	42.5°	1524.5	1458.9	1109.4	834.9	767.9	740.4	696.2	651.0	612.9	576.6
1680.4	45°	1673.0	1565.5	1083.8	774.4	706.0	679.0	631.0	580.3	537.0	490.5
1907.1	47.5°	1887.1	1708.8	1059.6	705.5	640.8	616.1	572.9	525.9	474.7	429.5
2234.7	50°	2181.2	1914.5	1037.3	638.5	576.6	558.0	523.5	475.6	423.9	387.7
2618.6	52.5°	2555.3	2194.2	1028.0	573.8	516.6	509.6	482.1	437.4	388.6	357.9
3066.3	55°	2984.9	2528.8	1028.0	511.9	464.0	466.3	447.2	405.8	363.5	336.0
3528.0	57.5°	3423.2	2867.6	1009.4	454.7	419.3	429.1	417.0	380.7	342.5	314.1
4013.3	60°	3827.2	3151.5	934.0	402.5	379.7	395.1	387.2	356.0	309.5	285.7
4419.1	62.5°	4137.6	3311.6	788.8	361.1	347.2	364.8	360.7	323.4	303.4	293.6
4752.3	65°	4293.0	3285.5	603.1	324.4	319.7	347.2	338.3	336.9	321.1	309.9
4860.8	67.5°	4197.6	3061.2	437.4	297.4	303.9	330.9	364.8	370.4	341.1	319.2
4555.5	70°	3779.2	2655.4	325.8	271.8	283.9	331.3	416.0	387.7	334.6	309.0
3653.6	72.5°	2875.0	1980.1	252.7	244.8	257.8	333.7	438.8	379.7	316.0	341.6
2276.1	75°	1644.1	1087.1	202.9	211.7	225.2	311.8	427.2	359.3	301.6	313.7
901.9	77.5°	626.8	417.9	167.5	179.2	181.0	272.2	408.6	357.9	287.1	280.2
270.4	80°	217.3	163.3	138.7	142.4	140.1	242.0	391.8	311.3	235.0	210.3
111.7	82.5°	88.9	81.4	109.8	105.2	99.6	188.0	316.4	254.6	192.2	169.9
54.0	85°	38.6	51.7	72.6	63.8	57.7	130.3	253.6	215.5	162.4	140.1
17.7	87.5°	7.9	19.5	30.7	28.9	29.8	87.0	180.1	153.1	114.9	86.1
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>
891.2
888.9
906.1
935.4
968.4
999.1
1020.1
1032.2
1039.2
1039.6
1032.7
1020.6
996.8
953.1
881.9
787.9
679.9
573.3
484.9
424.4
385.3
355.5
333.2
309.5
282.0
290.4
306.2
315.5
304.8
338.8
313.7
255.5
203.4
168.0
139.6
67.5
0.0

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