

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: P939295

Luminaire Tested: **GALN-SB1D-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939295
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-SB1D-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8771 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

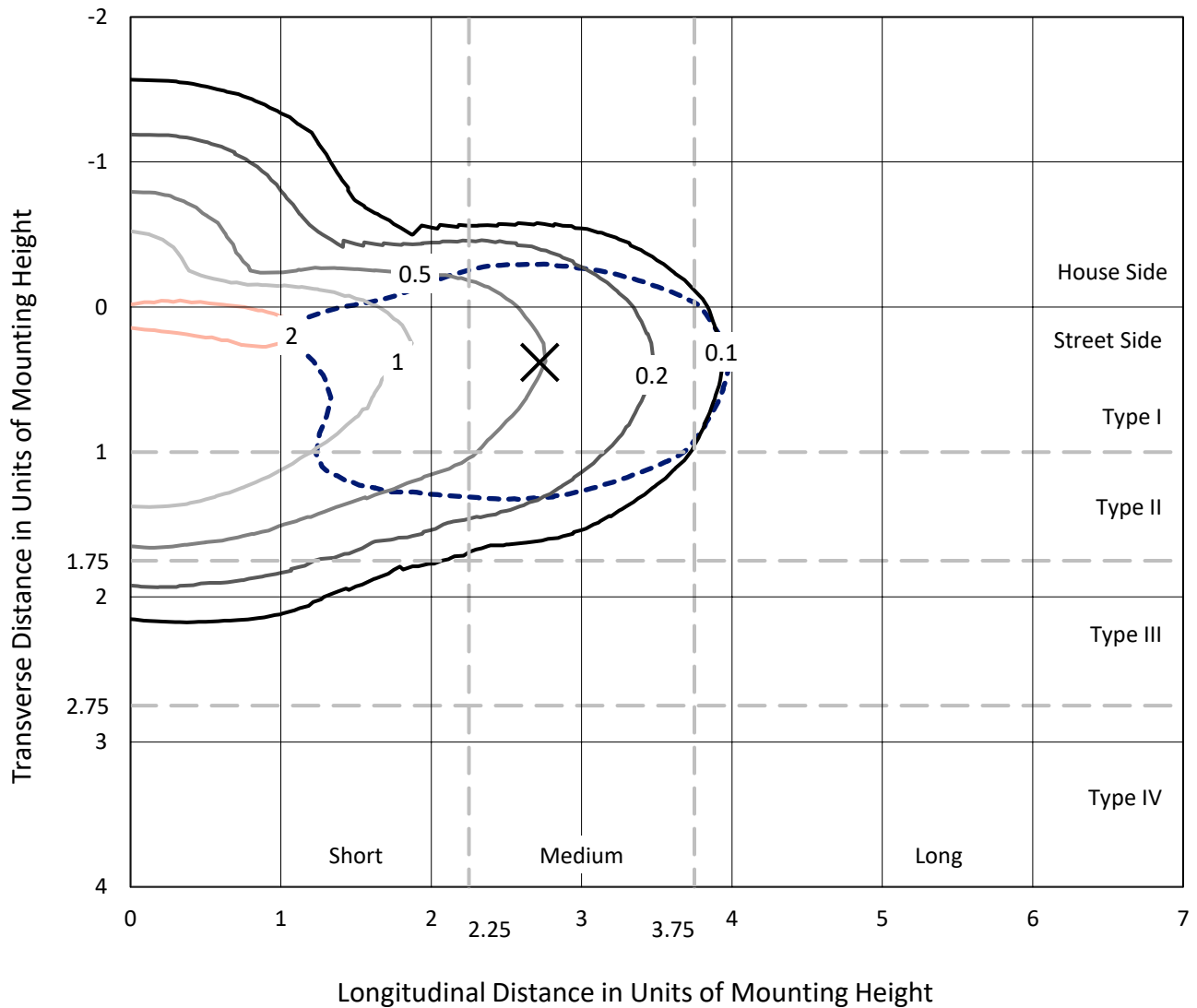
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

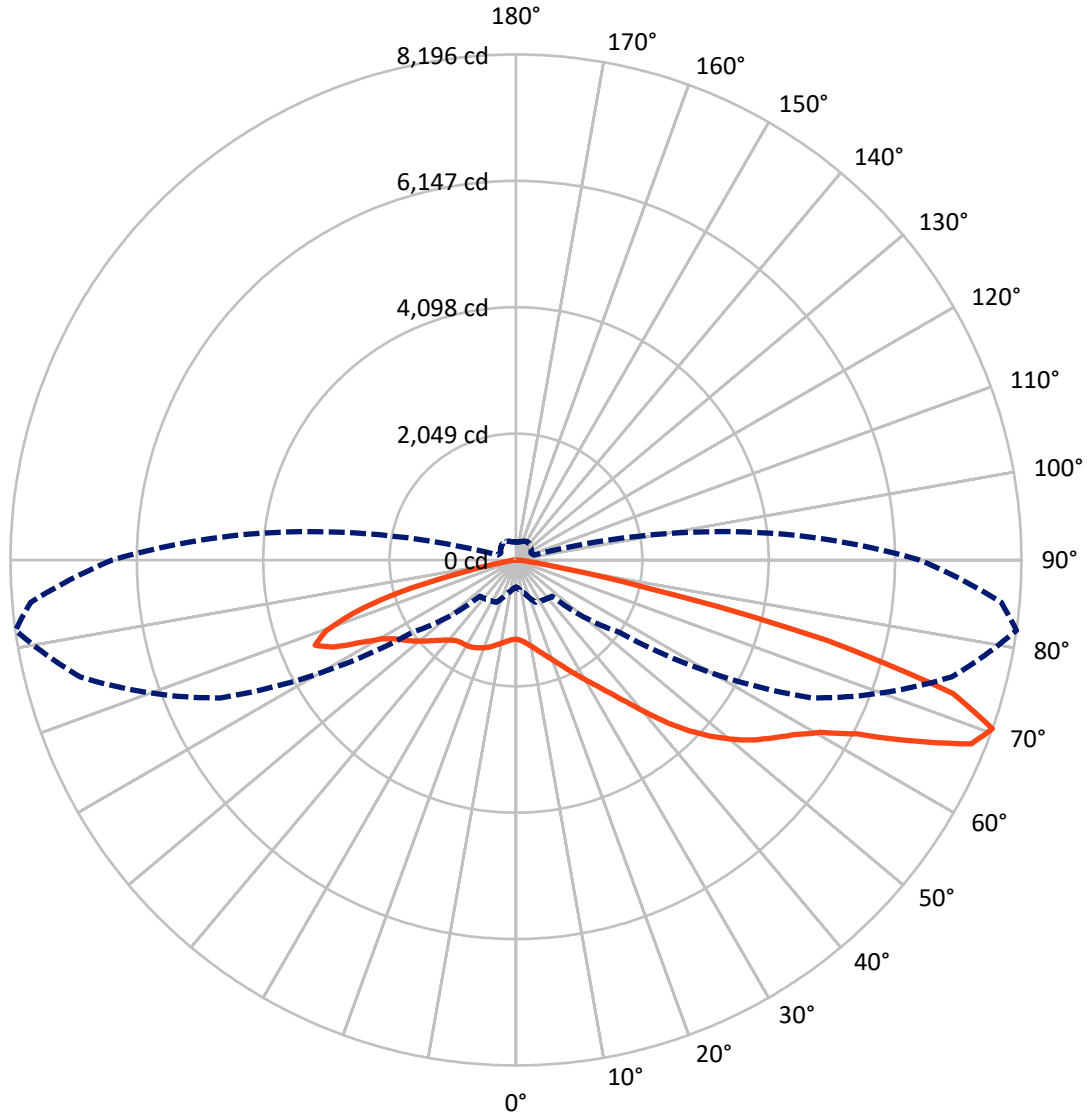
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	2162.3	0.0	2162.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	6608.7	0.0	6608.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	8771.0	0.0	8771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	1.4
10°-20°	348.8	4.0
20°-30°	583.6	6.7
30°-40°	911.7	10.4
40°-50°	1451.9	16.6
50°-60°	2020.6	23.0
60°-70°	2113.6	24.1
70°-80°	1104.7	12.6
80°-90°	114.7	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°	8771.0	100.0
0°-180°	8771.0	100.0

Coefficient of Utilization



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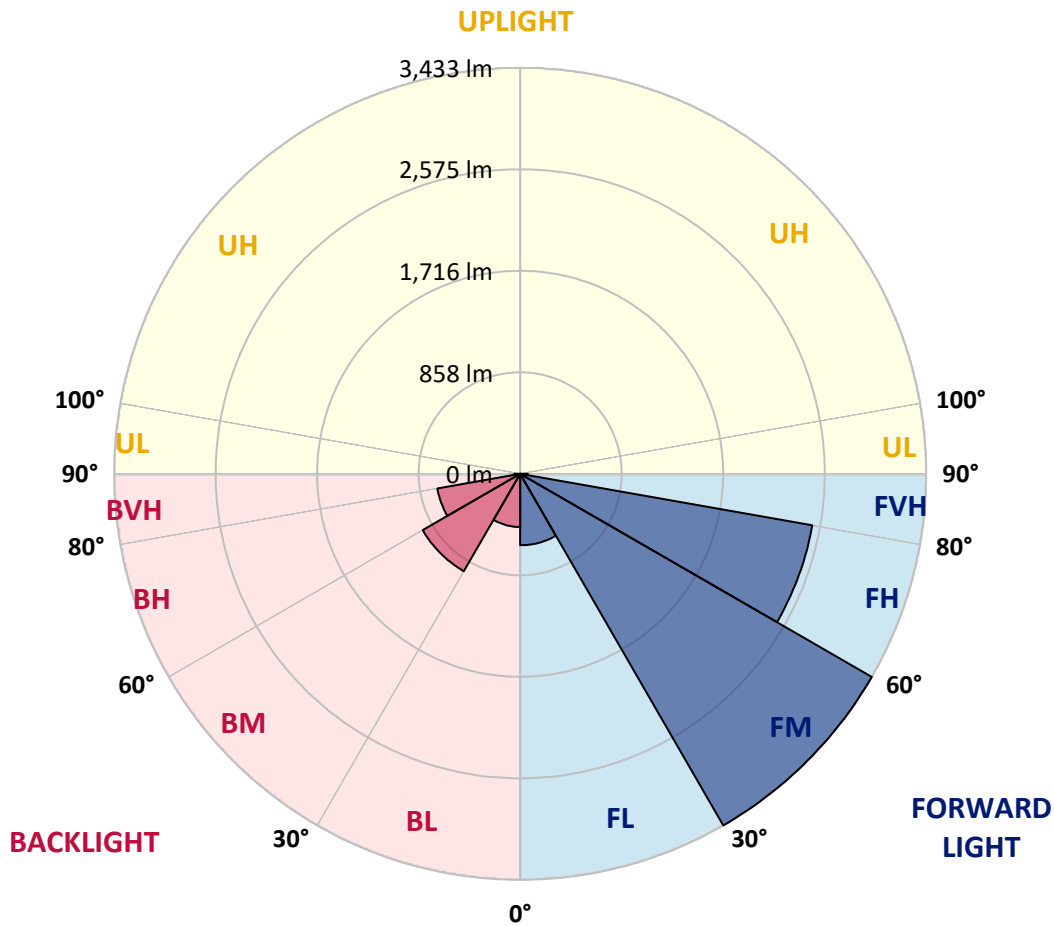
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.0	6.9			
FM (30°-60°)	3432.9	39.1			
FH (60°-80°)	2507.7	28.6			G2/5000
FVH (80°-90°)	64.2	0.7			G1/100
BL (0°-30°)	449.8	5.1	B1/500		
BM (30°-60°)	951.3	10.8	B1/1000		
BH (60°-80°)	710.6	8.1	B2/1000		G2/1000
BVH (80°-90°)	50.5	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9
2.5°	1316.7	1324.1	1321.8	1319.4	1319.4	1316.2	1315.7	1311.1	1307.3	1301.3
5°	1333.4	1341.3	1340.4	1342.3	1348.3	1349.7	1351.1	1348.3	1340.9	1333.4
7.5°	1318.5	1327.4	1330.2	1341.3	1359.9	1376.7	1389.3	1394.4	1387.4	1376.7
10°	1268.3	1278.0	1287.8	1314.3	1347.4	1386.9	1420.4	1440.5	1439.1	1428.8
12.5°	1166.3	1176.6	1197.5	1249.2	1309.7	1379.5	1441.9	1483.7	1498.2	1490.7
15°	1084.9	1093.7	1109.5	1162.6	1241.3	1347.4	1449.8	1531.2	1568.0	1563.8
17.5°	1082.6	1086.3	1096.0	1121.2	1181.7	1297.1	1441.4	1577.8	1648.0	1647.6
20°	1123.5	1124.9	1130.5	1135.6	1170.1	1258.9	1420.0	1616.4	1737.9	1737.9
22.5°	1180.3	1179.4	1184.9	1180.3	1197.0	1255.7	1406.5	1650.4	1837.9	1845.4
25°	1265.5	1260.8	1259.4	1248.7	1252.0	1285.9	1421.4	1689.0	1956.6	1972.0
27.5°	1379.0	1371.6	1366.5	1341.8	1333.4	1348.3	1467.0	1735.5	2088.8	2115.3
30°	1527.0	1513.5	1506.1	1463.3	1433.0	1435.3	1535.9	1797.4	2227.0	2269.8
32.5°	1729.0	1708.1	1688.1	1617.8	1562.4	1544.2	1624.8	1883.1	2376.9	2445.3
35°	1955.2	1938.4	1917.0	1808.6	1723.4	1681.5	1744.8	2002.7	2552.3	2660.8
37.5°	2173.0	2158.6	2168.8	2022.7	1912.9	1851.9	1902.1	2163.2	2768.7	2928.8
40°	2398.3	2387.1	2388.5	2248.9	2120.9	2052.5	2093.0	2364.8	3016.8	3247.7
42.5°	2643.1	2634.7	2606.8	2483.0	2339.2	2275.4	2312.6	2597.5	3283.0	3610.7
45°	2917.2	2912.1	2886.0	2744.1	2579.3	2507.6	2557.9	2854.4	3550.6	3952.3
47.5°	3154.1	3158.3	3155.0	3035.4	2864.6	2759.4	2819.5	3122.5	3799.6	4273.4
50°	3268.1	3290.0	3322.1	3284.9	3178.8	3071.7	3083.4	3381.2	4037.0	4574.6
52.5°	3208.6	3250.0	3337.5	3397.1	3438.0	3415.7	3384.5	3638.1	4260.4	4846.4
55°	2986.6	3044.7	3189.9	3333.8	3542.7	3705.2	3746.1	3923.0	4478.2	5085.6
57.5°	2582.1	2676.6	2806.9	3097.8	3449.6	3845.2	4167.8	4318.1	4709.1	5341.1
60°	1888.6	2015.2	2177.2	2610.0	3123.9	3770.3	4526.6	4925.0	5037.2	5672.0
62.5°	1208.7	1286.9	1435.8	1843.5	2434.1	3386.4	4636.5	5683.6	5593.3	6214.7
65°	827.5	877.8	1014.1	1243.1	1573.6	2520.7	4342.3	6252.4	6476.7	7074.8
67.5°	601.3	639.5	755.8	956.4	1025.3	1491.7	3369.6	6226.3	7335.4	7960.9
70°	438.4	465.4	563.2	755.8	788.9	829.8	2041.3	5292.7	7316.8	8196.4
72.5°	324.9	343.5	409.1	586.4	638.5	560.4	1010.4	3846.6	6287.3	7413.6
75°	235.0	249.0	297.4	448.7	511.0	426.8	504.0	2247.9	4385.6	5215.0
77.5°	179.6	190.4	222.0	328.6	409.1	320.2	312.8	1034.1	2079.5	2089.7
80°	144.3	151.3	168.5	231.3	313.7	239.7	203.9	417.5	657.2	556.2
82.5°	106.1	117.7	142.4	162.4	224.3	165.2	124.3	210.8	249.9	215.0
85°	60.5	68.4	86.1	116.4	143.3	101.0	71.2	93.5	116.4	95.4
87.5°	21.4	27.9	30.3	45.6	62.4	41.9	27.5	27.0	38.2	28.4
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°
1285.9	0°	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9
1299.9	2.5°	1295.2	1292.9	1283.6	1271.0	1258.0	1245.4	1241.3	1232.4	1226.4	1223.1
1330.2	5°	1321.3	1313.9	1292.0	1264.1	1234.7	1203.1	1180.8	1160.3	1145.4	1131.4
1371.6	7.5°	1358.5	1345.5	1307.8	1258.9	1206.8	1154.2	1115.1	1085.3	1065.3	1052.3
1420.0	10°	1401.8	1381.8	1324.1	1251.0	1170.5	1095.1	1049.0	1023.4	1010.9	1003.9
1475.4	12.5°	1451.6	1423.2	1340.9	1232.9	1115.1	1029.0	997.4	989.9	990.4	990.9
1545.2	15°	1513.1	1473.5	1354.4	1193.3	1043.0	978.3	972.7	984.8	997.4	1003.4
1624.3	17.5°	1582.4	1526.6	1356.7	1128.2	972.2	945.7	963.4	989.5	1008.6	1016.9
1712.7	20°	1656.9	1580.5	1339.9	1036.0	914.1	919.2	950.8	984.4	1005.3	1016.0
1813.7	22.5°	1742.0	1638.3	1299.9	939.2	866.6	890.3	927.6	960.1	982.0	992.7
1932.4	25°	1839.3	1702.9	1237.1	857.8	825.6	857.8	895.0	922.0	939.7	949.4
2065.0	27.5°	1947.3	1770.4	1153.3	793.1	789.8	824.2	855.0	875.9	885.2	892.7
2206.1	30°	2055.7	1831.9	1051.8	744.2	758.6	791.2	813.1	822.4	825.2	826.6
2363.4	32.5°	2173.0	1884.9	945.3	703.7	728.8	759.1	772.1	776.3	763.3	754.4
2554.2	35°	2315.0	1941.7	841.0	671.6	699.5	725.6	729.8	726.0	710.7	692.5
2793.4	37.5°	2490.4	2012.4	757.7	648.8	672.1	689.3	684.2	683.2	684.6	663.2
3081.0	40°	2705.5	2104.6	696.7	631.1	649.7	653.4	639.0	646.9	653.9	621.3
3396.6	42.5°	2944.2	2215.8	658.1	619.0	631.1	622.3	599.9	608.8	607.8	565.0
3713.5	45°	3187.6	2336.8	644.6	610.2	613.9	596.2	571.5	573.9	554.3	515.7
4017.5	47.5°	3429.6	2466.7	653.0	602.7	592.5	572.5	553.4	543.1	514.3	485.4
4308.8	50°	3667.0	2603.1	683.7	587.8	563.2	551.5	537.6	519.4	488.7	464.0
4584.3	52.5°	3887.1	2740.4	718.1	563.2	526.4	533.4	524.5	503.6	473.3	448.2
4845.0	55°	4095.6	2877.7	731.6	529.2	491.9	517.5	512.4	473.8	437.5	417.0
5117.7	57.5°	4322.8	3042.9	716.7	485.9	464.0	499.4	479.8	437.0	416.1	400.7
5472.8	60°	4637.4	3302.1	684.6	432.4	437.5	472.4	438.9	421.2	398.4	381.2
6005.2	62.5°	5160.0	3785.7	633.0	379.3	406.3	432.4	419.3	401.7	378.4	361.6
6915.6	65°	5932.6	4457.7	535.7	337.9	371.4	393.3	398.4	380.7	356.5	338.8
7713.3	67.5°	6584.2	4879.4	405.4	303.4	335.6	361.6	376.1	358.8	333.2	316.0
7899.9	70°	6548.4	4573.2	309.5	269.5	303.9	330.4	349.1	335.6	308.1	291.8
7175.7	72.5°	5816.3	3825.7	250.4	235.0	271.8	297.9	320.2	310.0	282.0	266.2
5256.8	75°	4273.0	2715.7	200.1	200.1	231.8	263.9	288.6	282.0	256.4	245.3
2207.0	77.5°	1801.2	1139.3	156.8	166.2	192.7	226.7	257.4	259.7	237.4	251.3
583.6	80°	478.9	314.2	119.6	130.8	151.3	187.1	223.9	222.9	198.7	185.7
216.9	82.5°	182.4	123.8	85.2	92.2	109.4	143.3	177.3	182.9	158.7	137.3
85.2	85°	70.3	53.1	52.6	55.4	63.8	94.9	134.0	138.7	119.6	101.5
23.7	87.5°	18.2	15.8	19.5	18.6	29.3	50.7	76.8	79.6	73.1	42.4
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>
1285.9
1226.8
1137.0
1055.1
1005.8
991.8
1003.0
1018.8
1018.8
995.5
952.2
895.5
829.8
757.2
693.5
664.6
622.3
564.5
517.1
485.4
462.2
448.7
415.1
399.3
380.2
361.6
339.8
316.5
293.2
266.2
242.0
228.1
172.7
137.3
104.7
60.5
0.0

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