

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: P946507

Luminaire Tested: **GALN-SB2A-850-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946507  
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-SB2A-850-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

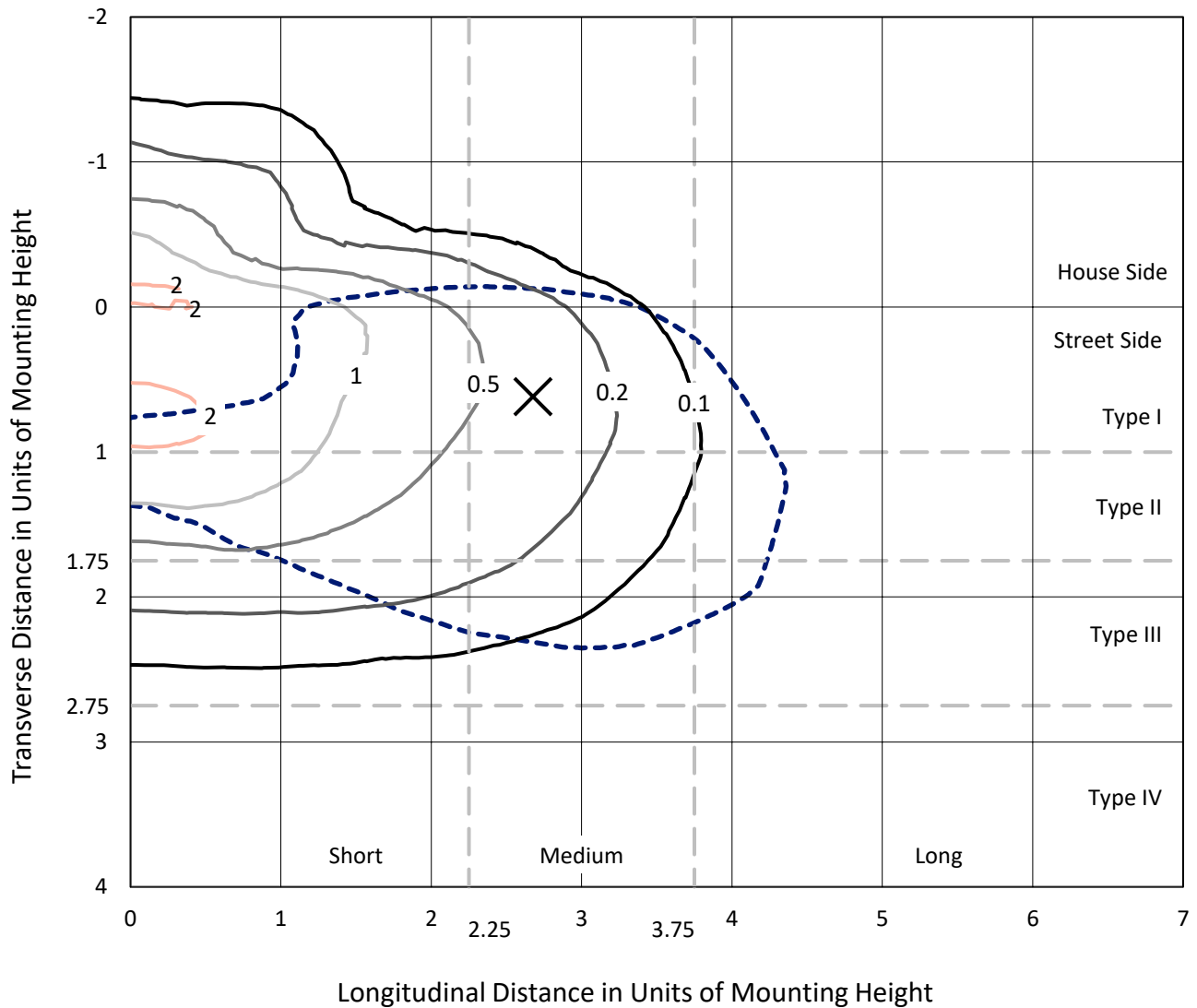
Lumens per Lamp: N/A  
Luminaire Lumens: 8809 lumens  
Efficiency: N/A  
Efficacy: 153.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

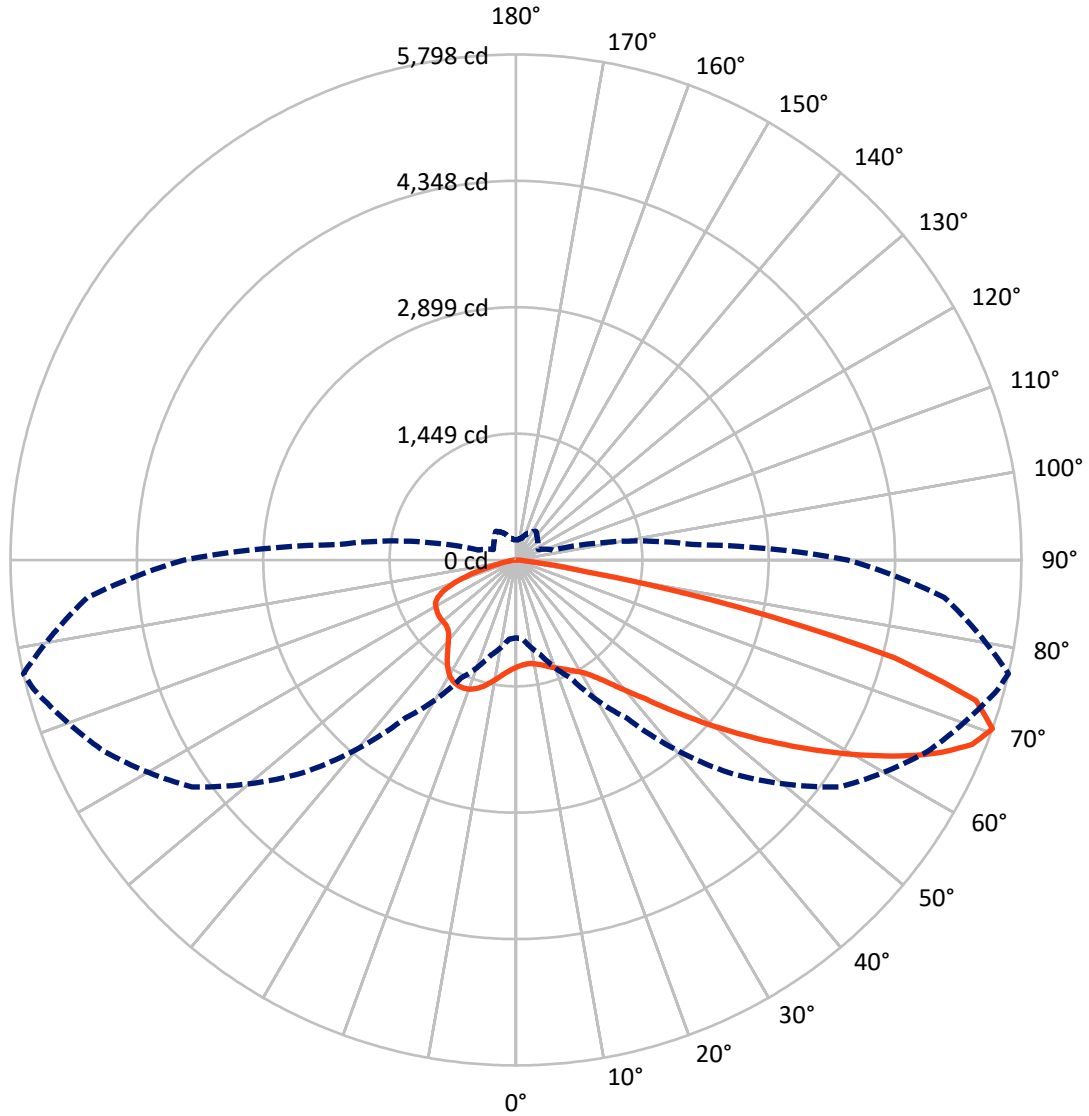
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Medium - N/A

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### 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
<b>House Side</b>	Lumens	1929.0	0.0	1929.0
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	6880.0	0.0	6880.0
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	8809.0	0.0	8809.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.2	1.3
10°-20°	338.3	3.8
20°-30°	578.5	6.6
30°-40°	930.3	10.6
40°-50°	1452.4	16.5
50°-60°	1940.1	22.0
60°-70°	2067.8	23.5
70°-80°	1272.9	14.5
80°-90°	111.5	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°	8809.0	100.0
0°-180°	8809.0	100.0

**Coefficient of Utilization**



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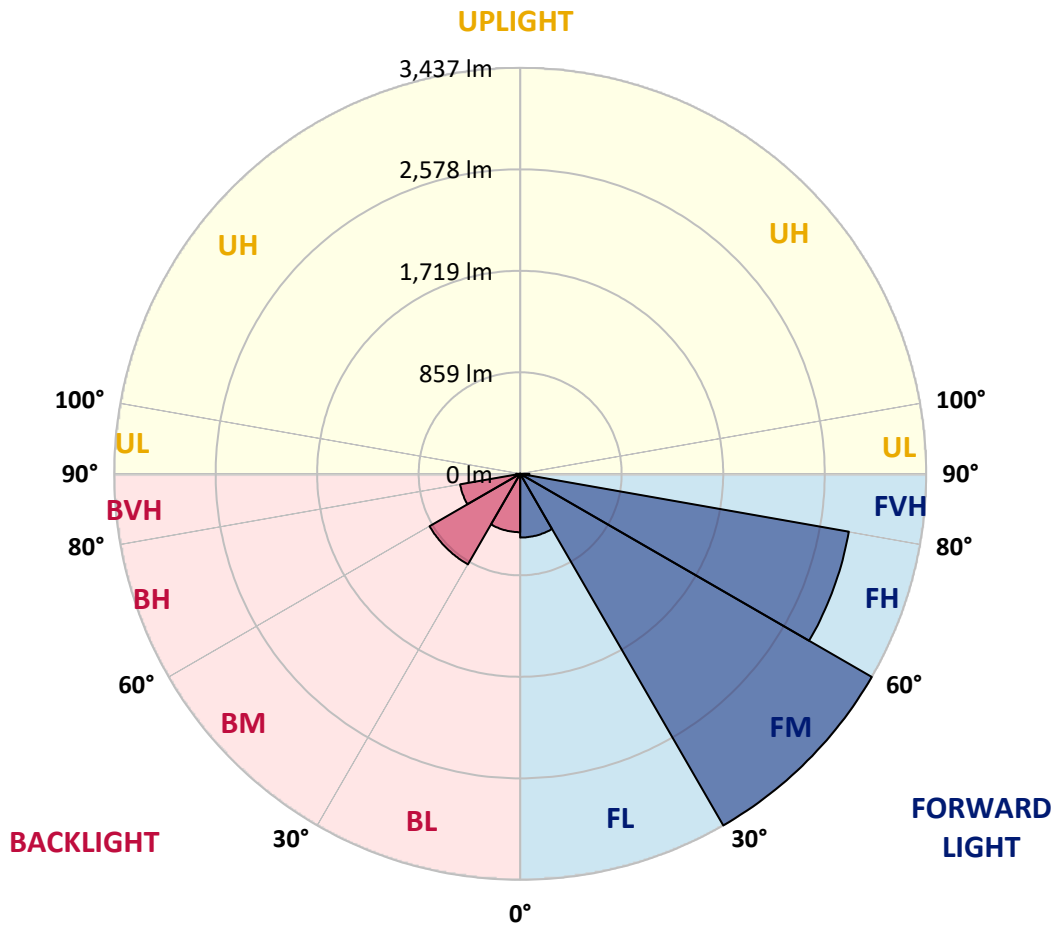
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	539.7	6.1			
FM (30°-60°)	3437.1	39.0			
FH (60°-80°)	2825.2	32.1			G2/5000
FVH (80°-90°)	78.0	0.9			G1/100
BL (0°-30°)	494.3	5.6	B1/500		
BM (30°-60°)	885.7	10.1	B1/1000		
BH (60°-80°)	515.5	5.9	B2/1000		G2/1000
BVH (80°-90°)	33.5	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-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1228.9	1228.9	1228.9	1228.9	1228.9	1228.9	1228.9	1228.9	1228.9	1228.9
2.5°	1132.8	1132.4	1138.3	1140.1	1150.9	1158.6	1173.0	1188.3	1208.2	1210.4
5°	1067.4	1067.4	1074.2	1081.4	1095.4	1110.7	1132.8	1159.5	1193.7	1199.2
7.5°	1011.9	1015.5	1021.4	1035.4	1051.6	1073.7	1107.6	1145.5	1190.6	1199.2
10°	967.3	971.3	978.5	989.8	1014.2	1044.9	1089.1	1137.8	1198.3	1211.8
12.5°	953.3	957.3	961.4	970.0	992.5	1028.6	1081.4	1141.4	1216.8	1230.3
15°	985.8	990.7	987.6	985.3	997.0	1030.0	1085.0	1154.5	1239.8	1259.2
17.5°	1060.7	1062.5	1055.2	1034.0	1032.2	1049.8	1102.2	1172.5	1268.6	1289.8
20°	1181.6	1178.4	1163.5	1121.6	1097.7	1094.0	1131.5	1199.6	1298.4	1321.0
22.5°	1345.8	1342.2	1312.4	1246.1	1192.8	1157.7	1173.9	1234.8	1331.8	1357.1
25°	1550.6	1545.6	1501.9	1411.7	1329.1	1242.0	1231.6	1281.3	1372.9	1396.3
27.5°	1789.7	1785.7	1738.3	1619.2	1500.1	1357.5	1303.4	1335.9	1415.7	1442.3
30°	2046.9	2058.6	1974.7	1846.6	1695.9	1508.2	1399.9	1403.1	1471.2	1495.1
32.5°	2349.1	2369.4	2268.4	2106.0	1900.2	1672.0	1521.7	1496.9	1552.0	1571.8
35°	2648.7	2671.7	2587.8	2408.2	2171.4	1865.1	1649.0	1604.7	1659.3	1681.0
37.5°	2907.7	2938.3	2895.0	2738.9	2461.5	2097.9	1815.0	1731.5	1791.5	1818.6
40°	3112.0	3159.0	3155.8	3058.4	2803.5	2380.3	2025.7	1888.1	1955.7	1985.1
42.5°	3278.1	3318.7	3353.9	3348.9	3160.3	2701.0	2273.4	2091.5	2143.0	2176.8
45°	3392.7	3436.0	3511.8	3593.4	3503.6	3044.4	2557.1	2332.9	2379.8	2430.8
47.5°	3495.1	3544.2	3642.6	3772.1	3795.1	3389.0	2868.0	2614.0	2656.8	2709.6
50°	3504.1	3546.5	3699.0	3882.6	4002.2	3720.2	3201.8	2929.3	2969.5	3025.9
52.5°	3286.2	3353.0	3619.1	3879.4	4097.4	3997.2	3533.4	3257.3	3302.4	3370.1
55°	2550.8	2648.7	3385.0	3758.5	4063.5	4176.3	3848.8	3606.1	3663.8	3734.6
57.5°	2197.1	2240.0	2687.1	3538.4	3909.2	4222.8	4115.0	3958.4	4051.3	4128.9
60°	1974.7	2010.3	2274.7	3196.0	3706.2	4149.2	4320.7	4286.8	4447.4	4539.9
62.5°	1736.5	1770.3	2010.8	2668.6	3446.3	4027.0	4450.6	4590.0	4853.5	4954.5
65°	1500.1	1529.0	1759.5	2242.2	3116.1	3904.7	4517.8	4852.1	5229.3	5334.0
67.5°	1236.6	1260.5	1478.4	1891.7	2714.6	3737.3	4551.2	5058.3	5556.4	5646.2
70°	892.4	910.9	1136.0	1496.0	2210.6	3449.5	4537.7	5204.5	5726.0	5797.7
72.5°	421.8	438.5	702.9	971.3	1561.4	2889.2	4263.8	5088.5	5553.7	5518.0
75°	225.1	239.6	403.8	532.8	824.7	1980.6	3489.2	4383.4	4663.5	4490.3
77.5°	152.5	163.8	249.9	319.9	376.7	940.2	2242.7	3034.9	2919.9	2633.8
80°	120.9	132.6	204.8	216.6	182.3	339.7	926.7	1404.9	1009.2	807.1
82.5°	92.9	106.0	172.3	157.0	99.3	139.4	269.8	444.4	258.5	196.7
85°	56.8	70.8	135.3	100.2	55.9	63.6	91.6	123.6	79.0	65.9
87.5°	28.9	40.6	68.6	36.5	25.3	14.9	24.4	24.4	20.8	18.0
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°
1228.9	0°	1228.9	1228.9	1228.9	1228.9	1228.9	1228.9	1228.9	1228.9	1228.9	1228.9
1222.6	2.5°	1233.4	1242.5	1257.8	1272.2	1283.5	1294.4	1305.2	1311.0	1312.8	1320.1
1229.4	5°	1247.9	1264.6	1294.4	1322.3	1339.9	1350.7	1358.4	1362.9	1363.8	1366.1
1247.9	7.5°	1274.5	1301.1	1342.6	1370.6	1383.7	1382.8	1379.6	1368.3	1363.8	1359.8
1275.0	10°	1311.9	1347.1	1398.1	1417.5	1409.4	1387.7	1359.8	1326.8	1311.5	1296.6
1311.9	12.5°	1358.4	1403.1	1453.2	1452.3	1412.1	1356.6	1291.6	1241.1	1209.1	1186.1
1357.5	15°	1414.8	1466.2	1504.6	1473.9	1385.9	1286.2	1191.0	1125.2	1096.3	1071.0
1403.5	17.5°	1473.0	1528.0	1545.6	1467.1	1320.1	1182.0	1074.2	1022.3	993.9	980.4
1453.2	20°	1529.9	1584.4	1570.0	1428.3	1219.9	1063.8	967.7	939.3	933.4	936.6
1501.4	22.5°	1589.9	1638.6	1575.0	1353.5	1092.2	942.9	890.1	891.0	904.1	913.6
1552.0	25°	1651.2	1684.1	1561.9	1245.2	955.1	854.0	840.9	855.4	881.1	899.6
1608.8	27.5°	1710.3	1724.8	1533.5	1111.2	837.3	790.4	792.7	822.4	861.2	887.0
1677.8	30°	1777.1	1760.8	1478.9	960.5	755.7	735.8	754.8	789.5	828.3	851.3
1764.9	32.5°	1852.4	1792.0	1392.3	821.1	697.9	692.1	723.2	745.8	762.9	769.7
1880.4	35°	1946.3	1835.7	1281.3	723.2	646.0	660.0	689.8	678.5	671.8	668.2
2035.6	37.5°	2068.1	1894.8	1151.3	659.6	604.1	637.0	649.2	614.0	587.4	574.3
2223.7	40°	2214.7	1981.5	1026.4	610.4	577.5	617.2	596.0	553.6	519.7	501.2
2435.3	42.5°	2377.6	2072.1	921.3	573.4	562.6	600.9	556.7	506.2	451.6	445.7
2687.5	45°	2548.6	2165.5	849.5	545.0	555.4	586.9	534.2	452.5	413.7	437.6
2940.6	47.5°	2719.5	2251.2	806.2	523.8	551.8	571.2	514.3	422.7	395.2	429.9
3211.7	50°	2909.9	2327.9	786.8	508.4	547.7	564.8	484.5	415.1	375.8	398.8
3492.4	52.5°	3099.0	2387.5	772.4	493.1	541.8	559.9	470.1	406.0	352.3	353.7
3774.8	55°	3287.5	2426.3	756.6	472.8	528.7	549.1	468.7	396.1	334.8	328.4
4073.4	57.5°	3488.8	2448.4	737.2	450.2	506.2	521.5	467.4	388.4	329.3	319.0
4378.9	60°	3693.6	2480.9	711.9	422.7	476.0	488.6	464.2	385.7	326.2	308.6
4666.7	62.5°	3877.2	2492.2	681.7	396.6	437.2	456.1	457.5	383.5	317.6	287.4
4905.8	65°	3997.7	2443.4	628.9	366.8	395.2	422.7	444.4	375.8	302.3	272.0
5024.0	67.5°	3992.7	2304.5	546.3	328.4	354.6	385.7	425.4	362.7	283.8	253.1
4934.7	70°	3806.8	2030.2	441.7	283.8	309.9	346.0	401.1	343.3	261.7	232.3
4387.9	72.5°	3265.0	1589.0	320.8	231.4	258.1	305.0	369.5	319.9	239.1	213.8
3242.9	75°	2332.5	1005.6	217.5	177.8	200.8	258.5	330.2	292.3	218.4	214.7
1624.1	77.5°	1191.5	480.5	143.9	129.9	139.9	203.9	277.5	261.2	221.5	177.3
462.0	80°	387.5	177.3	90.7	88.4	92.9	135.8	214.7	214.3	167.8	120.5
111.9	82.5°	123.6	76.2	59.1	56.8	54.6	85.3	149.8	169.6	113.2	76.2
40.2	85°	49.2	45.6	34.7	32.0	23.0	40.2	78.5	112.8	84.4	55.0
10.4	87.5°	18.0	18.0	9.5	6.8	5.0	13.5	21.2	33.8	48.3	28.4
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>
1228.9
1324.1
1369.7
1360.7
1292.1
1180.7
1068.3
984.4
935.2
915.8
904.6
893.3
856.7
773.3
671.8
577.5
502.6
451.6
450.2
446.2
416.0
363.2
332.9
320.3
309.9
287.4
272.0
254.4
235.0
212.5
202.6
157.9
106.5
75.8
56.4
28.0
0.0

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