

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: P939509

Luminaire Tested: **GALN-SB2A-850-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
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-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

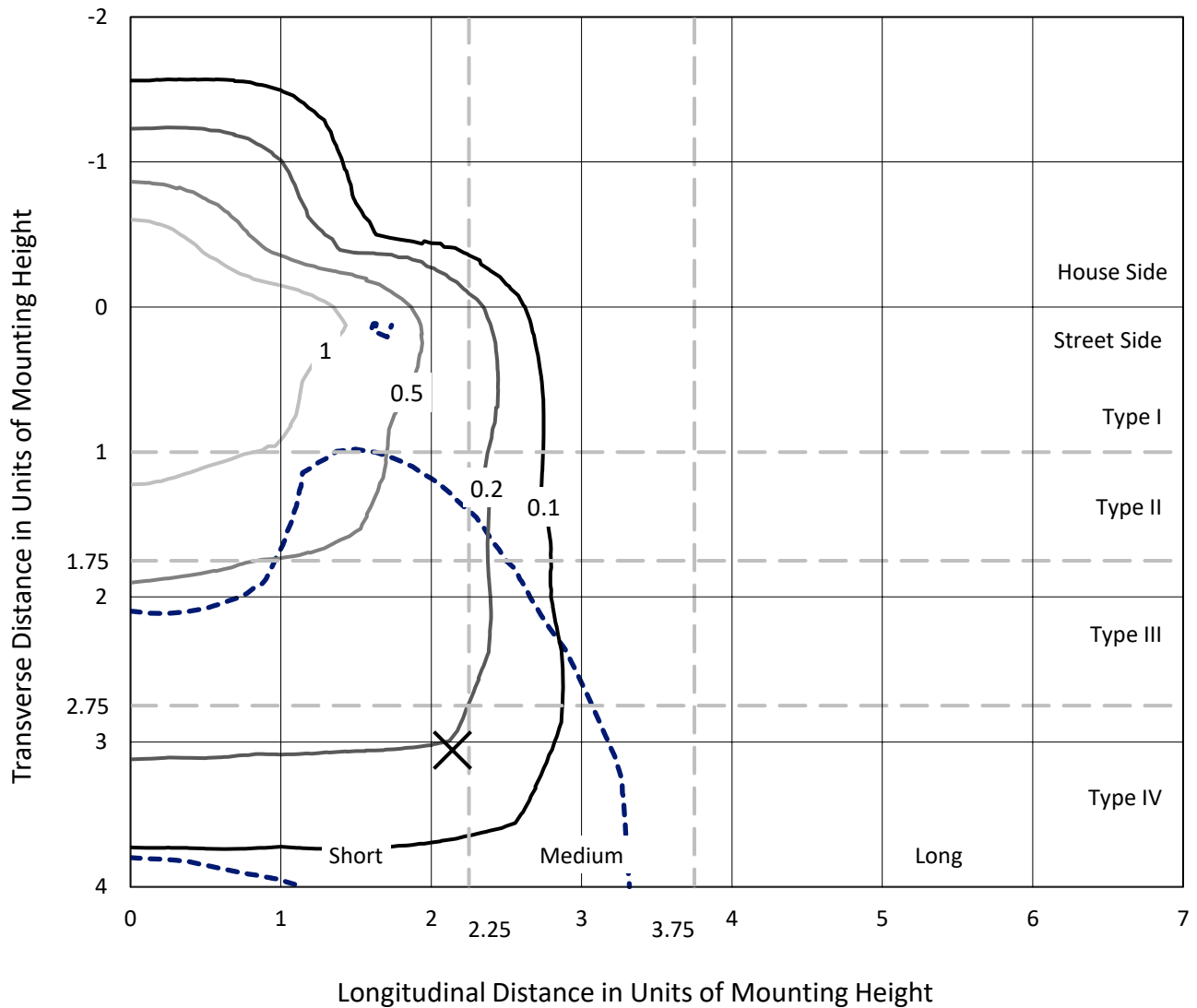
Lumens per Lamp: N/A  
Luminaire Lumens: 8481 lumens  
Efficiency: N/A  
Efficacy: 148.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

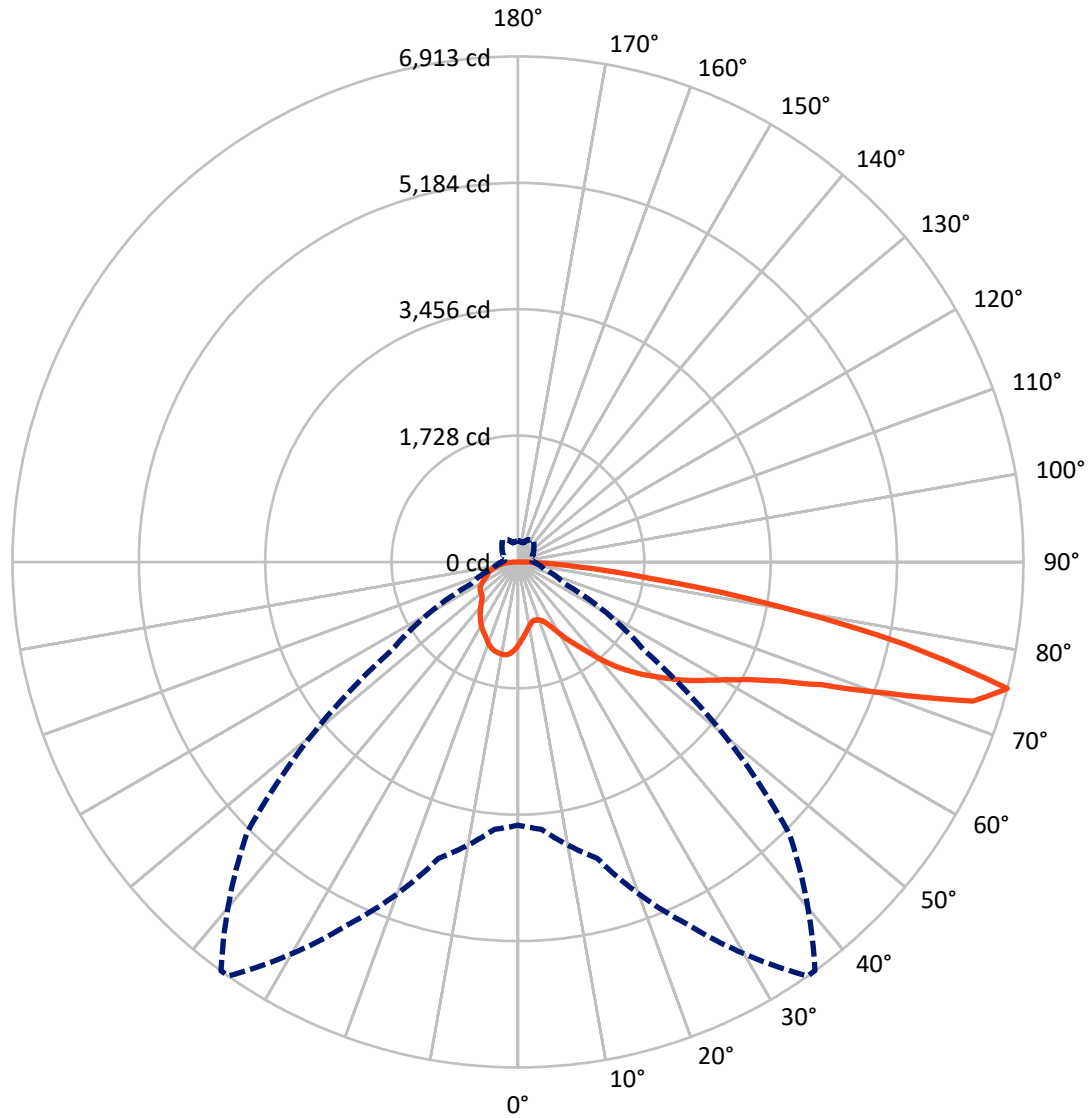
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2018.3	0.0	2018.3
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	6462.7	0.0	6462.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	8481.0	0.0	8481.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	1.3
10°-20°	308.6	3.6
20°-30°	518.3	6.1
30°-40°	805.5	9.5
40°-50°	1195.6	14.1
50°-60°	1650.6	19.5
60°-70°	2002.5	23.6
70°-80°	1654.9	19.5
80°-90°	238.0	2.8
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°	8481.0	100.0
0°-180°	8481.0	100.0

**Coefficient of Utilization**



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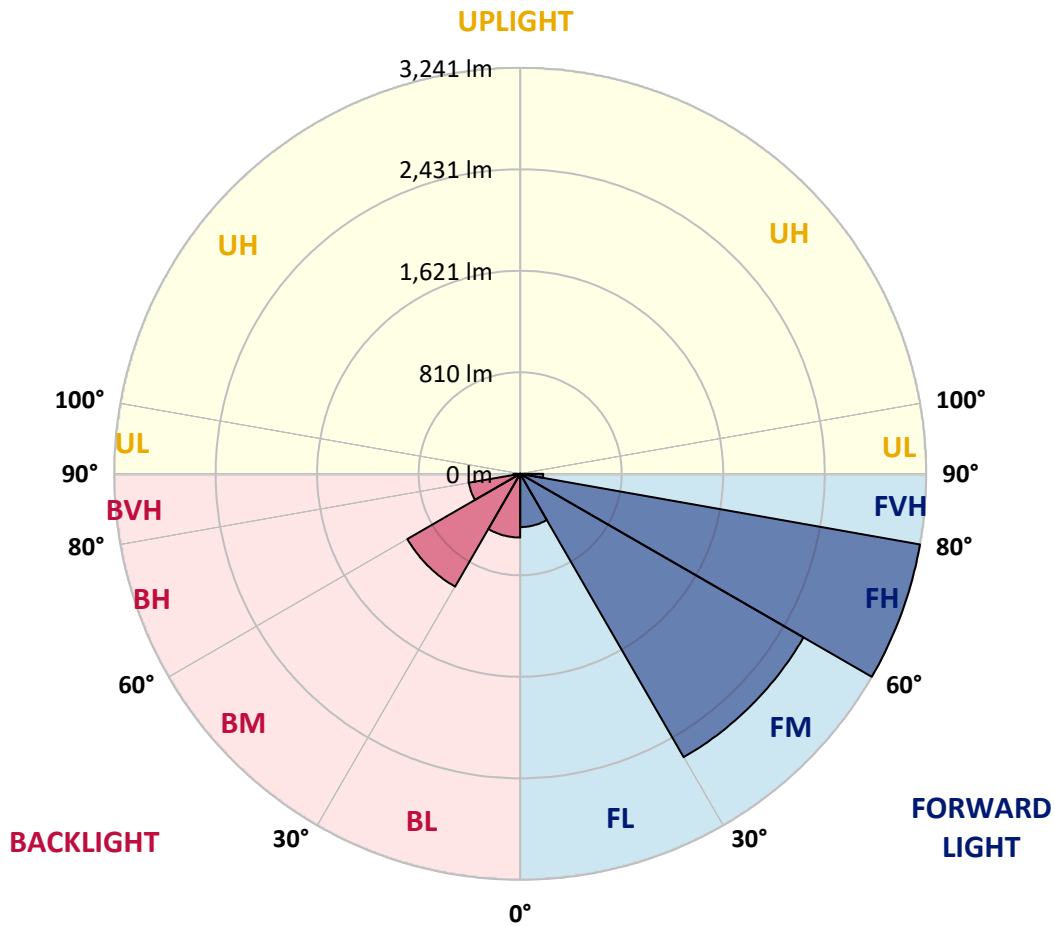
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	425.3	5.0			
FM (30°-60°)	2611.7	30.8			
FH (60°-80°)	3241.3	38.2			G2/5000
FVH (80°-90°)	184.4	2.2			G2/225
BL (0°-30°)	508.6	6.0	B2/1000		
BM (30°-60°)	1039.9	12.3	B2/2500		
BH (60°-80°)	416.1	4.9	B1/500		G1/500
BVH (80°-90°)	53.6	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2
2.5°	1042.1	1048.5	1051.3	1049.9	1056.8	1055.9	1065.5	1077.4	1093.9	1110.0
5°	961.9	968.8	974.7	980.2	993.5	997.7	1012.8	1035.7	1066.0	1096.7
7.5°	887.2	893.1	902.3	912.4	934.8	939.0	964.2	999.9	1042.1	1087.1
10°	826.2	832.1	841.8	853.2	881.2	886.2	918.3	966.0	1021.0	1077.9
12.5°	800.0	801.9	807.4	818.8	843.1	846.4	881.7	936.2	1000.4	1071.0
15°	798.7	802.3	802.8	808.8	828.9	830.3	862.9	917.0	987.6	1069.6
17.5°	812.4	815.2	811.0	814.7	831.7	834.0	859.6	907.8	983.4	1075.6
20°	849.1	851.4	839.0	834.0	846.4	848.2	873.4	913.7	987.6	1088.0
22.5°	927.0	928.4	898.2	877.5	878.4	879.4	901.4	938.0	1003.6	1110.4
25°	1048.5	1047.6	999.5	959.6	936.7	931.6	946.3	977.5	1030.7	1140.2
27.5°	1190.7	1183.8	1135.7	1076.1	1026.1	1018.7	1015.5	1028.8	1069.2	1179.7
30°	1351.1	1344.7	1292.9	1215.0	1145.7	1133.8	1103.6	1096.7	1126.5	1233.3
32.5°	1527.2	1523.1	1461.2	1366.7	1274.1	1260.4	1209.5	1191.1	1214.5	1314.5
35°	1674.8	1671.2	1619.8	1522.6	1409.4	1392.4	1340.6	1320.0	1331.9	1418.5
37.5°	1808.2	1806.4	1762.4	1685.8	1568.9	1548.3	1490.1	1483.2	1480.9	1555.6
40°	1932.0	1927.4	1881.6	1841.3	1754.6	1735.8	1684.5	1678.5	1661.1	1724.3
42.5°	2069.1	2057.2	1990.7	1971.9	1948.5	1932.9	1902.2	1903.1	1864.6	1914.6
45°	2181.0	2174.1	2105.8	2094.8	2120.0	2113.6	2140.2	2147.1	2072.3	2114.0
47.5°	2301.1	2294.7	2236.9	2229.1	2297.4	2299.3	2393.3	2395.6	2275.0	2321.3
50°	2449.2	2440.0	2382.7	2392.3	2468.9	2475.8	2647.7	2632.1	2461.6	2531.7
52.5°	2546.9	2552.4	2540.0	2555.6	2660.1	2666.5	2898.0	2858.2	2646.3	2739.4
55°	2618.8	2629.8	2668.3	2704.1	2861.8	2868.2	3134.2	3073.2	2799.5	2932.0
57.5°	2711.4	2695.9	2767.8	2837.5	3053.5	3070.4	3363.9	3280.4	2935.2	3097.9
60°	2844.4	2833.4	2889.3	2992.5	3268.0	3295.1	3606.9	3467.0	3034.7	3229.5
62.5°	3114.0	3086.5	3095.2	3186.4	3538.5	3574.3	3881.0	3629.8	3084.2	3280.9
65°	3517.0	3469.8	3425.8	3489.0	3919.5	3954.8	4190.5	3757.7	3065.8	3181.4
67.5°	4024.5	3977.8	3923.7	3983.3	4480.7	4508.7	4572.4	3829.7	2921.4	2798.1
70°	4443.1	4425.7	4490.3	4735.6	5377.0	5378.0	5062.1	3770.1	2525.8	1983.8
72.5°	4387.6	4377.1	4717.7	5476.1	6506.7	6482.4	5525.6	3318.9	1701.4	895.0
75°	3599.5	3667.8	4195.5	5462.8	6912.5	6909.3	5241.8	2109.9	703.8	370.9
77.5°	1930.2	2038.4	2723.8	4033.2	5396.3	5477.4	3685.3	738.2	302.1	237.5
80°	629.5	723.9	1085.7	2053.5	3506.4	3491.3	1579.5	289.8	206.8	168.3
82.5°	267.3	278.3	485.1	969.7	1799.5	1771.6	503.0	166.4	145.3	115.1
85°	104.5	116.9	214.1	448.4	779.4	762.5	181.6	82.5	93.1	75.2
87.5°	34.4	41.7	76.6	153.6	242.5	233.8	44.5	28.4	40.3	34.4
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°
1130.2	0°	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2
1133.4	2.5°	1139.8	1147.1	1155.8	1168.7	1179.7	1188.8	1198.5	1204.4	1206.7	1213.6
1135.2	5°	1148.0	1164.1	1185.6	1206.7	1227.3	1239.7	1250.7	1256.2	1261.3	1264.9
1140.2	7.5°	1161.8	1182.4	1216.3	1243.9	1261.3	1271.4	1278.7	1276.9	1278.7	1279.6
1145.7	10°	1173.7	1202.6	1242.9	1269.1	1282.4	1282.8	1281.0	1274.6	1271.4	1271.8
1154.0	12.5°	1187.9	1220.0	1263.6	1285.6	1289.2	1279.2	1271.4	1260.4	1256.2	1254.4
1166.4	15°	1207.2	1243.9	1286.0	1294.3	1285.1	1272.3	1259.0	1241.1	1231.9	1224.6
1187.5	17.5°	1230.6	1270.9	1303.5	1297.5	1277.8	1256.7	1235.1	1208.1	1189.3	1181.5
1216.3	20°	1263.1	1299.3	1316.8	1290.6	1260.8	1228.7	1192.0	1159.0	1141.6	1133.8
1253.0	22.5°	1302.5	1337.4	1329.6	1278.7	1236.5	1185.2	1139.3	1115.0	1106.3	1100.8
1300.2	25°	1349.8	1379.6	1338.8	1261.3	1196.6	1127.4	1092.1	1084.3	1080.2	1076.1
1358.0	27.5°	1411.2	1427.2	1345.6	1235.6	1134.3	1066.0	1053.1	1054.5	1053.1	1046.2
1438.2	30°	1492.3	1489.1	1352.1	1193.9	1062.8	1010.5	1011.4	1017.4	1018.3	1013.7
1550.1	32.5°	1599.2	1566.6	1355.3	1139.8	994.4	961.9	962.8	969.2	973.8	966.0
1696.4	35°	1728.5	1656.9	1350.2	1071.9	941.7	915.6	908.7	910.5	911.9	904.6
1873.8	37.5°	1879.3	1758.3	1327.8	996.7	898.2	870.2	855.5	843.1	835.8	828.9
2074.6	40°	2044.8	1868.8	1286.5	923.4	849.6	822.1	800.0	776.7	751.9	742.7
2287.4	42.5°	2218.1	1982.5	1236.5	853.2	793.6	771.2	747.8	713.9	676.7	657.9
2508.3	45°	2397.8	2098.9	1187.5	784.0	736.3	726.7	699.6	658.8	618.5	594.6
2729.8	47.5°	2573.9	2209.0	1115.5	714.3	682.7	693.2	672.1	634.5	589.6	552.0
2949.4	50°	2742.2	2312.1	997.7	643.7	639.1	683.1	663.0	608.9	557.5	509.4
3164.9	52.5°	2909.0	2395.6	846.8	579.5	615.7	680.4	651.0	591.4	528.6	478.2
3367.5	55°	3050.7	2438.6	701.5	524.5	581.8	657.0	636.8	570.8	487.8	434.2
3506.4	57.5°	3131.4	2403.8	580.4	470.4	535.0	618.5	612.5	526.8	439.2	398.0
3533.5	60°	3096.6	2262.6	481.4	423.2	490.6	576.8	570.3	483.2	402.1	363.1
3388.6	62.5°	2904.5	1993.5	403.0	381.9	450.2	534.1	528.2	449.8	373.7	336.1
3004.0	65°	2517.5	1621.6	342.0	347.5	409.4	482.8	491.5	421.8	351.2	314.5
2324.0	67.5°	1920.1	1174.6	294.3	317.7	369.5	432.3	457.6	401.6	332.4	297.6
1344.7	70°	1094.4	667.1	254.0	288.8	334.2	385.6	431.4	385.6	312.2	283.3
503.9	72.5°	414.9	306.3	219.6	260.0	300.3	346.2	402.5	360.4	288.8	267.3
260.4	75°	221.4	186.6	184.8	226.0	261.3	307.6	366.3	335.6	271.4	282.4
180.2	77.5°	150.8	132.0	154.5	193.5	218.7	265.0	327.8	298.0	235.2	234.3
124.7	80°	104.5	93.5	125.6	155.9	169.2	222.8	286.1	255.8	191.6	178.8
77.0	82.5°	62.8	61.0	94.0	116.5	119.7	171.9	237.0	214.6	156.8	136.6
45.8	85°	34.4	36.2	60.1	68.3	69.7	120.1	185.7	166.0	120.6	101.3
16.5	87.5°	9.6	12.4	22.0	27.1	33.5	62.4	110.5	98.6	60.5	42.2
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>
1130.2
1213.1
1265.9
1281.0
1272.7
1253.5
1226.9
1182.0
1132.9
1101.7
1076.1
1047.6
1016.0
969.7
909.6
833.5
746.9
660.2
592.8
547.9
505.2
472.7
429.6
392.5
357.6
330.1
308.6
292.1
279.7
263.6
291.6
215.9
171.0
137.5
102.2
42.2
0.0

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