

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: P939307

Luminaire Tested: **GALN-SB1D-830-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-830-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9153 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

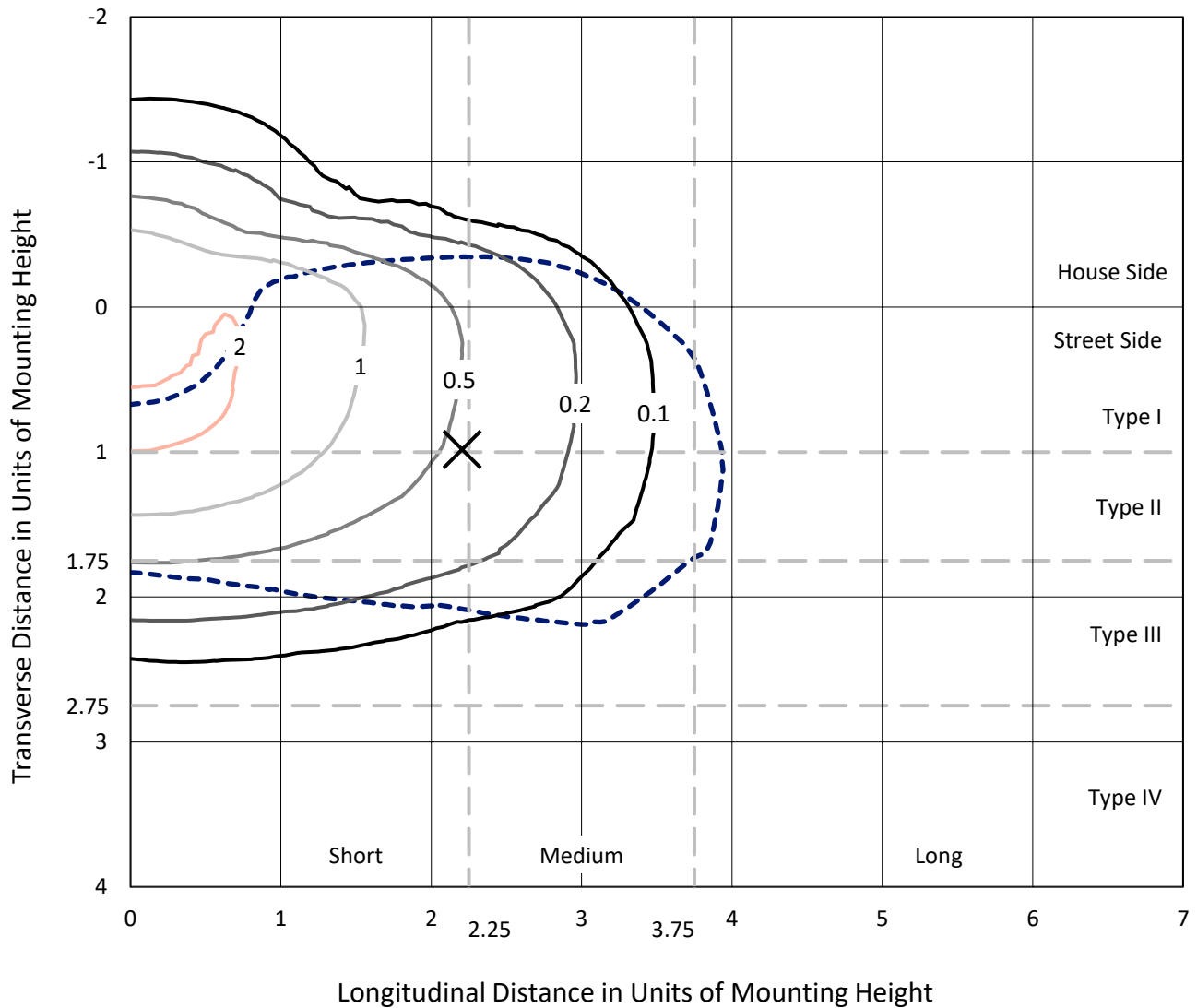
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

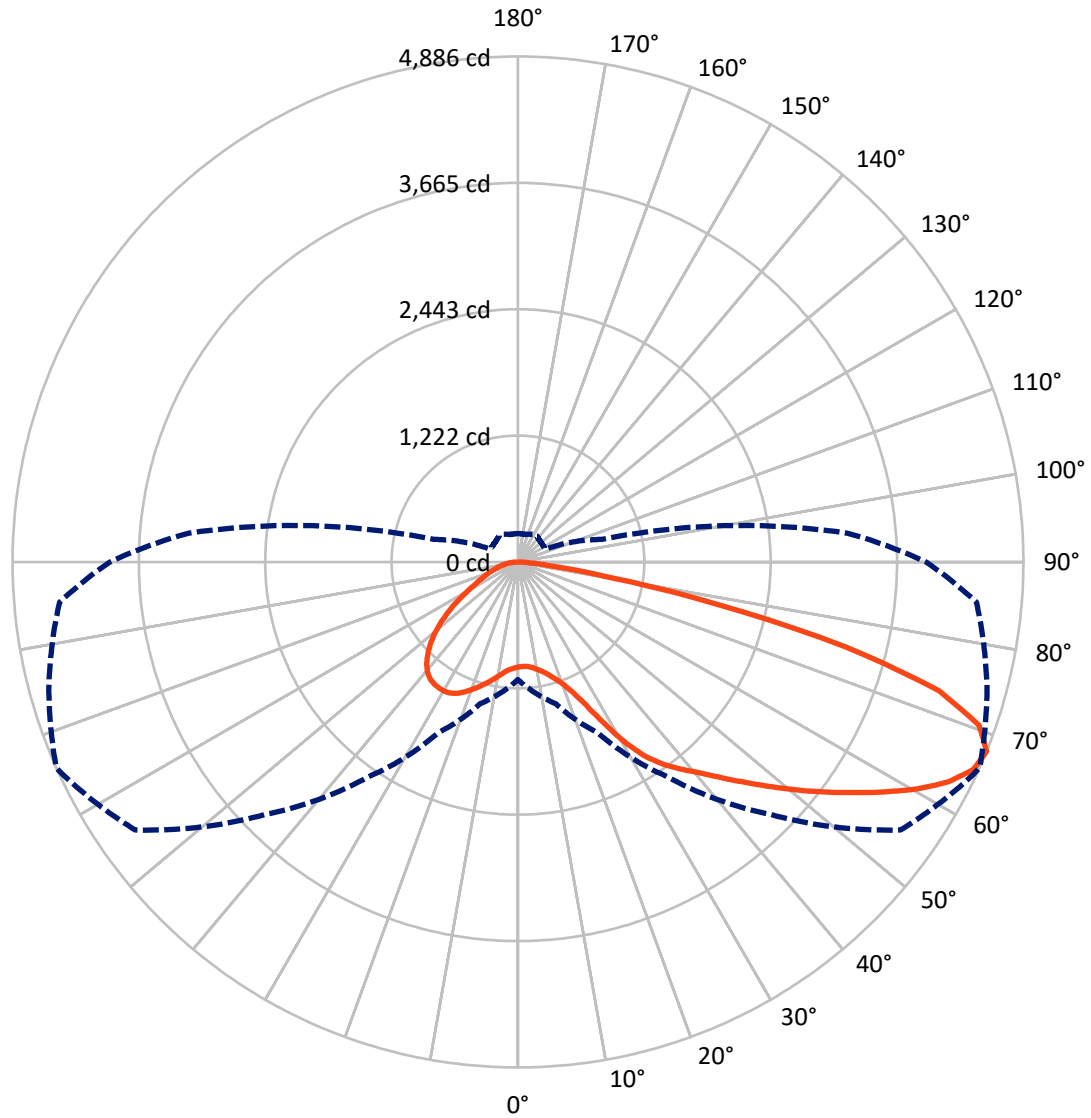
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2275.9	0.0	2275.9
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	6877.1	0.0	6877.1
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	9153.0	0.0	9153.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.7	1.1
10°-20°	332.5	3.6
20°-30°	641.0	7.0
30°-40°	1123.8	12.3
40°-50°	1670.8	18.3
50°-60°	2117.9	23.1
60°-70°	2072.3	22.6
70°-80°	988.5	10.8
80°-90°	105.6	1.2
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°	9153.0	100.0
0°-180°	9153.0	100.0

**Coefficient of Utilization**



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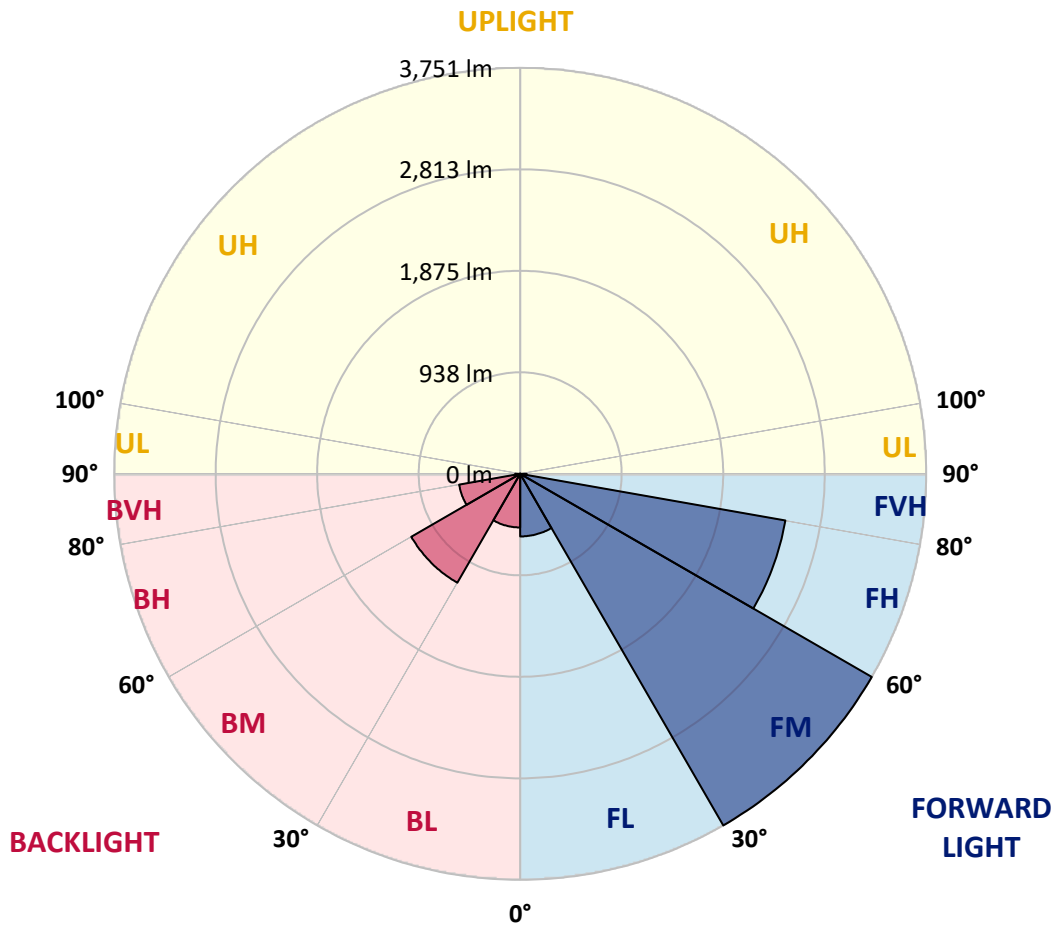
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.4	6.3			
FM (30°-60°)	3750.8	41.0			
FH (60°-80°)	2488.0	27.2			G2/5000
FVH (80°-90°)	59.9	0.7			G1/100
BL (0°-30°)	495.8	5.4	B1/500		
BM (30°-60°)	1161.6	12.7	B2/2500		
BH (60°-80°)	572.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	45.7	0.5			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2
2.5°	1004.6	1010.4	1008.9	1006.5	1006.1	1007.0	1008.5	1009.9	1009.4	1011.8
5°	1001.7	1007.5	1007.0	1007.0	1008.9	1012.8	1015.2	1017.6	1015.2	1018.1
7.5°	1003.6	1008.0	1009.9	1011.8	1016.6	1023.8	1029.6	1034.9	1032.0	1035.4
10°	1028.2	1031.5	1033.5	1033.5	1036.8	1045.0	1050.8	1060.4	1058.0	1063.3
12.5°	1072.9	1076.3	1076.3	1074.3	1076.7	1082.0	1084.0	1094.5	1090.2	1098.9
15°	1127.7	1134.5	1129.2	1125.8	1126.8	1132.0	1131.6	1139.7	1135.4	1142.6
17.5°	1188.3	1197.0	1188.3	1187.8	1185.9	1191.7	1192.2	1199.4	1191.7	1197.0
20°	1260.0	1272.0	1264.8	1267.2	1262.9	1265.3	1267.7	1278.2	1266.2	1270.1
22.5°	1361.0	1375.4	1367.7	1376.8	1373.9	1372.0	1371.5	1390.3	1371.5	1373.0
25°	1508.1	1525.4	1512.0	1524.5	1524.5	1530.7	1537.9	1562.0	1530.7	1521.6
27.5°	1725.5	1742.8	1716.3	1724.0	1721.6	1737.0	1729.3	1789.0	1755.3	1740.4
30°	1987.1	2017.9	1967.9	1965.9	1963.5	1988.1	1999.1	2038.6	2004.4	1989.5
32.5°	2269.9	2302.1	2242.5	2225.1	2216.0	2230.9	2221.8	2253.5	2230.0	2206.9
35°	2569.0	2600.7	2544.0	2510.3	2473.8	2442.5	2409.8	2418.0	2395.9	2360.8
37.5°	2851.8	2910.0	2849.8	2813.8	2746.4	2685.4	2594.0	2556.0	2535.3	2503.1
40°	3139.8	3173.0	3127.3	3096.5	3023.4	2927.7	2781.5	2701.2	2673.3	2642.1
42.5°	3351.9	3383.6	3359.1	3338.0	3280.7	3169.6	2980.6	2880.1	2839.7	2804.6
45°	3520.2	3543.8	3528.4	3536.1	3511.6	3403.8	3187.0	3072.0	3030.2	2987.4
47.5°	3588.0	3613.0	3637.6	3683.2	3725.1	3645.7	3408.6	3279.8	3235.5	3191.8
50°	3580.3	3605.8	3677.0	3774.1	3904.0	3877.5	3642.4	3501.0	3460.1	3410.1
52.5°	3518.8	3547.6	3639.0	3800.6	4007.4	4051.1	3880.4	3729.4	3690.9	3631.3
55°	3357.2	3374.5	3511.6	3740.5	4031.9	4172.3	4113.7	3972.7	3934.3	3851.1
57.5°	3057.6	3082.6	3282.2	3578.4	3970.3	4254.6	4318.5	4228.6	4191.6	4071.8
60°	2666.6	2706.5	2935.0	3306.2	3813.6	4254.1	4504.6	4480.1	4449.3	4289.2
62.5°	2224.2	2270.3	2490.1	2921.5	3539.5	4133.4	4621.0	4690.7	4674.9	4489.7
65°	1708.2	1739.9	1958.7	2423.8	3112.9	3874.2	4634.5	4834.5	4837.4	4642.2
67.5°	1137.3	1228.7	1418.7	1818.8	2541.6	3450.5	4516.2	4858.1	4886.0	4694.6
70°	555.0	675.2	861.3	1182.1	1818.8	2800.8	4206.9	4664.8	4726.8	4541.7
72.5°	230.4	269.3	370.8	583.3	1044.0	1890.0	3585.6	4140.6	4255.5	4024.2
75°	155.3	168.3	212.1	299.1	475.6	932.0	2585.8	3087.4	3272.6	3039.3
77.5°	119.7	127.9	154.4	209.2	282.8	352.5	1384.0	1860.6	1956.3	1811.1
80°	94.3	100.5	115.4	152.4	200.5	188.5	471.8	843.0	898.3	753.6
82.5°	81.8	84.2	82.7	103.4	133.2	110.1	154.9	311.1	343.4	249.1
85°	59.2	65.9	68.8	64.0	70.7	55.8	63.5	110.1	121.2	108.2
87.5°	24.0	35.6	43.8	41.4	26.0	15.9	19.7	32.2	37.0	40.4
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°
1015.2	0°	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2	1015.2
1015.7	2.5°	1016.2	1019.5	1021.9	1024.8	1026.7	1029.6	1035.4	1038.8	1039.2	1041.6
1023.4	5°	1025.3	1030.1	1035.4	1043.1	1051.7	1059.0	1070.0	1077.7	1080.6	1083.0
1042.1	7.5°	1045.0	1051.7	1061.4	1074.8	1087.3	1096.9	1110.4	1119.5	1128.7	1132.0
1071.9	10°	1074.3	1084.0	1097.9	1116.2	1129.6	1142.1	1156.1	1163.8	1172.9	1176.8
1107.5	12.5°	1110.9	1121.0	1139.3	1164.7	1177.3	1185.9	1190.7	1188.8	1190.7	1194.1
1150.3	15°	1152.7	1163.8	1184.5	1211.9	1220.5	1212.8	1202.3	1192.6	1191.2	1192.2
1202.3	17.5°	1202.3	1210.4	1234.5	1257.6	1251.3	1219.6	1196.5	1181.1	1173.4	1171.0
1268.6	20°	1271.5	1271.5	1291.2	1305.7	1263.8	1210.0	1173.9	1148.9	1133.0	1126.3
1359.0	22.5°	1355.7	1348.0	1360.5	1350.4	1261.4	1183.0	1133.0	1089.7	1065.7	1056.1
1485.5	25°	1462.4	1453.3	1449.9	1387.4	1244.1	1140.2	1059.0	1006.5	985.4	980.1
1667.8	27.5°	1623.5	1600.4	1556.7	1407.6	1212.4	1072.9	972.4	923.8	911.8	912.3
1902.0	30°	1838.0	1791.8	1684.6	1411.0	1160.4	977.7	883.9	849.3	843.5	845.9
2098.7	32.5°	2036.6	1992.9	1815.4	1395.6	1080.6	884.4	804.6	781.5	772.8	775.7
2248.7	35°	2192.4	2180.4	1936.6	1373.9	982.5	796.9	733.4	713.7	696.8	693.0
2390.1	37.5°	2339.6	2334.8	2027.5	1343.6	885.3	734.8	676.2	650.2	625.7	612.2
2546.4	40°	2501.2	2496.4	2087.1	1297.0	799.3	681.0	624.7	590.6	560.3	535.7
2723.4	42.5°	2683.0	2654.6	2115.5	1230.2	726.2	635.3	582.9	536.7	496.8	474.2
2923.4	45°	2881.6	2817.6	2115.0	1145.0	664.6	593.4	538.1	472.7	435.7	414.5
3128.8	47.5°	3092.2	2973.4	2089.0	1050.8	605.0	547.3	468.9	418.9	394.3	381.4
3351.9	50°	3309.6	3119.1	2044.8	942.6	543.9	494.9	425.6	391.5	372.7	360.7
3573.1	52.5°	3514.0	3251.4	1991.4	819.9	481.9	443.9	406.4	379.9	360.2	346.7
3787.6	55°	3703.9	3365.4	1915.9	694.4	431.4	409.7	397.2	375.1	352.5	336.6
4005.5	57.5°	3872.7	3439.4	1785.6	576.6	395.3	386.2	387.6	366.9	341.0	327.5
4219.9	60°	4013.1	3493.8	1592.8	467.4	366.0	363.1	372.7	351.5	321.2	305.9
4401.2	62.5°	4097.3	3492.8	1356.1	382.8	341.0	341.9	353.0	332.3	301.5	287.1
4496.0	65°	4090.1	3407.2	1096.5	327.5	316.9	317.9	332.3	311.1	285.2	276.5
4448.4	67.5°	3945.3	3198.5	841.1	291.4	290.5	294.8	311.6	296.7	275.1	274.1
4164.6	70°	3553.4	2765.2	605.9	262.6	263.1	269.3	291.4	287.6	269.8	271.7
3501.5	72.5°	2849.4	2108.3	406.8	232.3	232.8	242.9	272.2	280.4	264.5	290.0
2484.4	75°	1897.6	1314.8	261.6	200.1	200.5	213.5	255.4	266.4	250.1	289.0
1292.7	77.5°	911.8	591.0	189.5	168.3	168.3	180.3	220.7	238.5	213.0	224.6
415.5	80°	315.0	222.2	149.1	135.6	132.7	140.9	186.1	206.8	183.7	169.3
135.6	82.5°	124.1	115.4	119.7	105.3	95.7	101.0	144.8	170.7	135.1	122.1
76.5	85°	71.2	75.0	84.6	69.7	55.3	62.0	106.3	122.6	102.0	89.9
25.0	87.5°	19.2	26.4	39.0	36.1	25.0	26.4	50.5	67.8	58.7	45.2
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>
1015.2
1041.2
1082.5
1132.5
1178.7
1195.0
1195.5
1174.4
1124.8
1054.6
981.0
913.7
854.1
779.5
695.9
612.7
538.1
475.6
413.6
378.5
356.3
341.0
330.4
318.8
299.1
282.8
276.0
275.6
271.2
293.8
291.4
205.8
158.7
121.7
91.9
46.6
0.0

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