

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: P946803

Luminaire Tested: **GALN-SB2B-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946803
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-SB2B-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10099 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

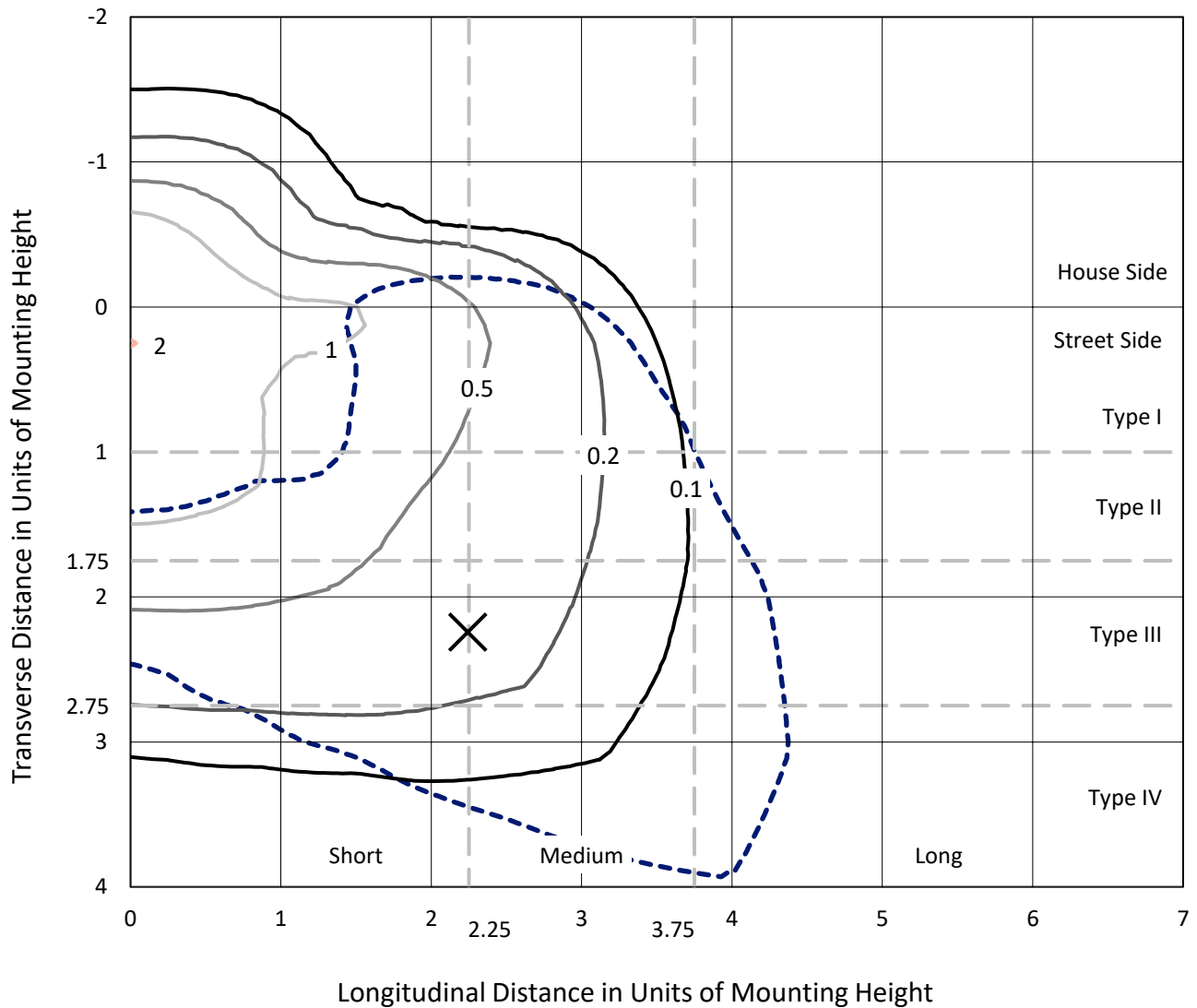
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

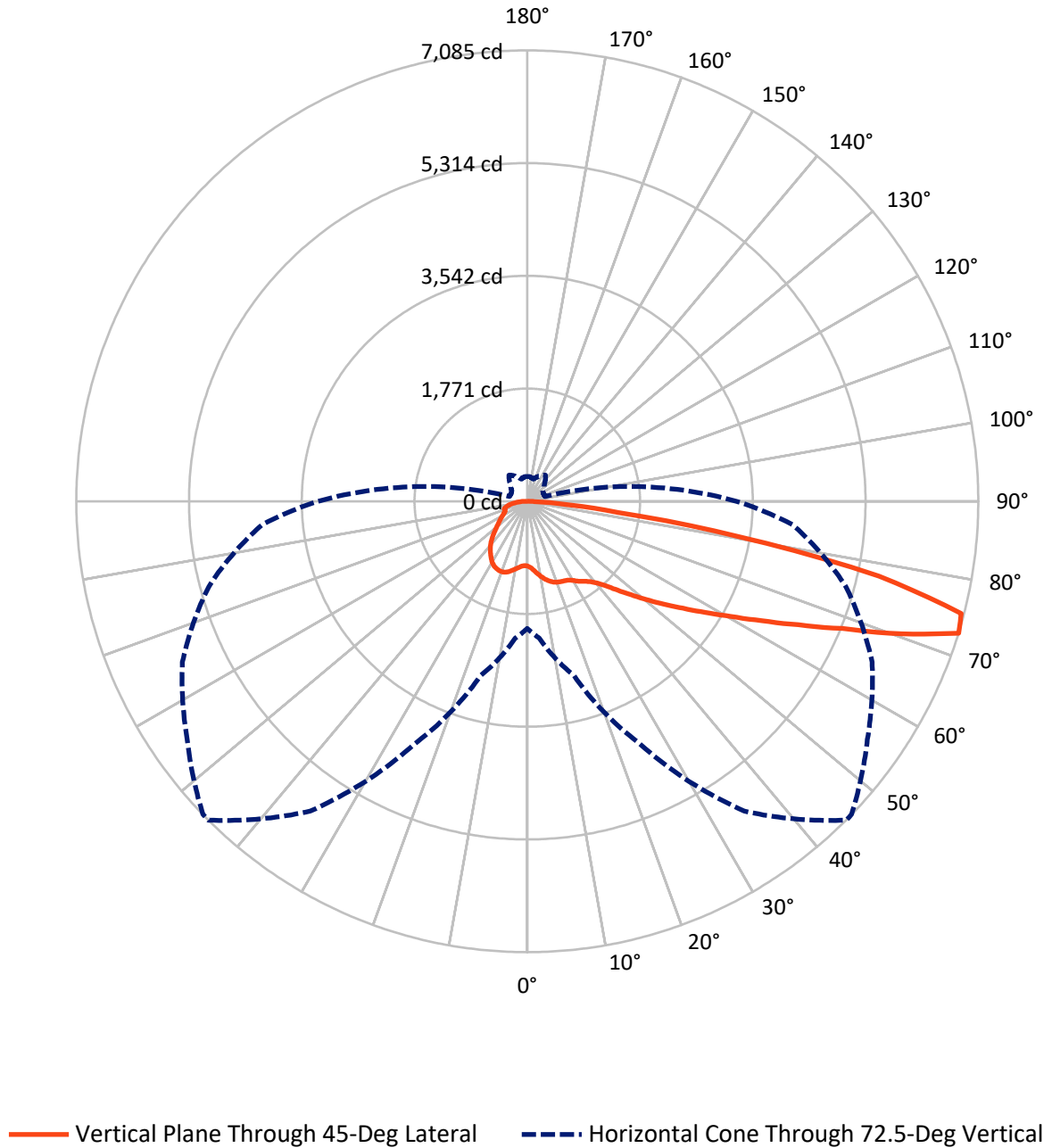
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2283.0	0.0	2283.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	7816.0	0.0	7816.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	10099.0	0.0	10099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	1.0
10°-20°	345.7	3.4
20°-30°	601.4	6.0
30°-40°	862.2	8.5
40°-50°	1214.0	12.0
50°-60°	1859.4	18.4
60°-70°	2693.7	26.7
70°-80°	2151.0	21.3
80°-90°	267.9	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°	10099.0	100.0
0°-180°	10099.0	100.0

Coefficient of Utilization



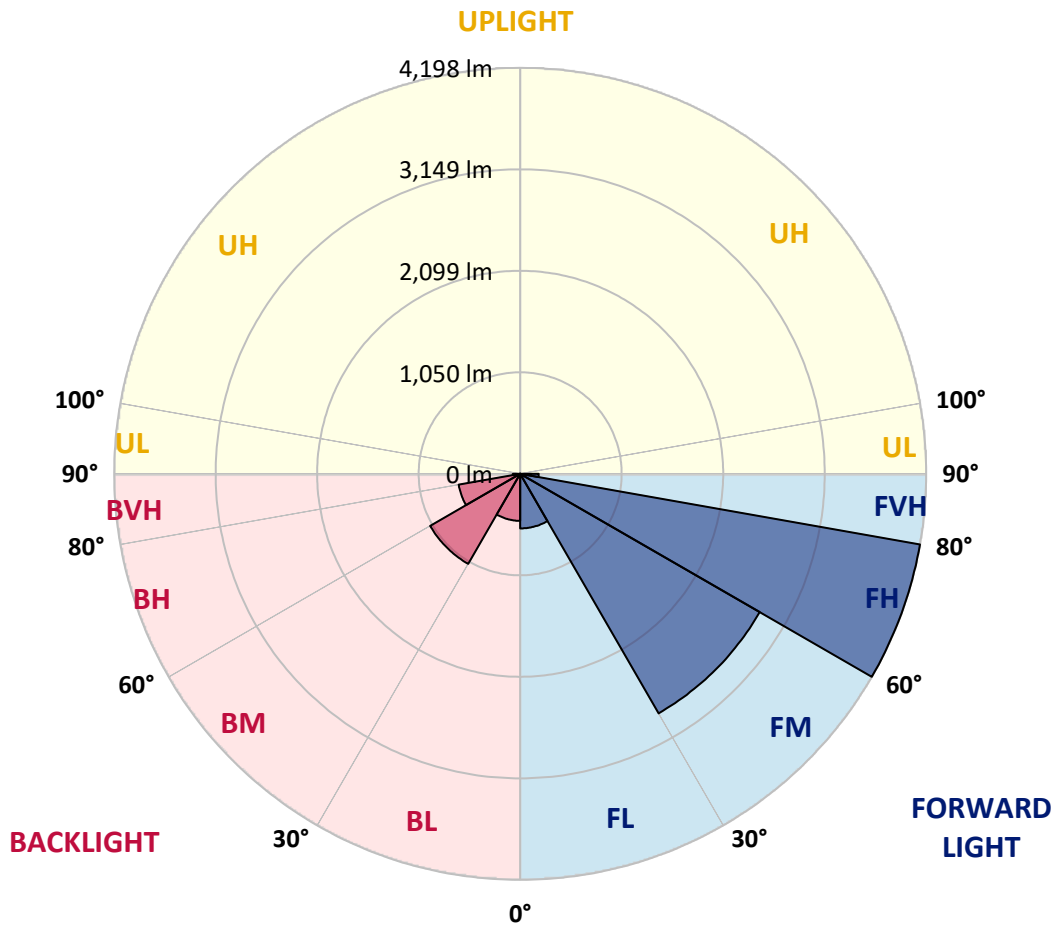
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.7	5.6			
FM (30°-60°)	2860.6	28.3			
FH (60°-80°)	4198.4	41.6			G2/5000
FVH (80°-90°)	192.2	1.9			G2/225
BL (0°-30°)	486.1	4.8	B1/500		
BM (30°-60°)	1075.0	10.6	B2/2500		
BH (60°-80°)	646.3	6.4	B2/1000		G2/1000
BVH (80°-90°)	75.7	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°	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8
2.5°	1058.7	1065.6	1059.2	1053.4	1050.7	1043.8	1043.3	1039.0	1036.3	1028.9
5°	1132.6	1141.7	1131.0	1119.3	1108.7	1091.7	1089.5	1077.3	1063.5	1047.5
7.5°	1216.2	1224.1	1211.9	1194.4	1175.7	1147.5	1147.0	1124.7	1102.8	1075.7
10°	1289.1	1299.7	1283.2	1259.3	1235.9	1203.9	1200.2	1174.7	1147.0	1111.9
12.5°	1353.4	1360.9	1344.9	1315.7	1288.5	1256.6	1251.8	1223.6	1192.8	1152.9
15°	1404.5	1414.1	1392.8	1361.4	1332.7	1301.3	1297.0	1271.5	1240.6	1198.6
17.5°	1438.0	1446.0	1424.2	1389.1	1361.4	1335.3	1332.1	1310.9	1283.7	1241.2
20°	1450.8	1459.3	1436.4	1400.8	1375.2	1355.0	1353.4	1338.0	1319.4	1280.5
22.5°	1463.6	1471.5	1441.7	1404.5	1382.2	1369.4	1368.9	1358.7	1351.3	1319.4
25°	1515.2	1517.3	1477.4	1423.6	1391.7	1380.6	1380.0	1379.5	1382.7	1357.7
27.5°	1559.8	1559.3	1525.3	1474.7	1425.2	1401.8	1401.3	1406.6	1416.7	1396.0
30°	1625.3	1619.4	1579.0	1526.3	1481.1	1444.9	1441.7	1436.9	1444.9	1428.4
32.5°	1764.1	1745.5	1680.1	1586.4	1527.4	1499.7	1495.5	1465.7	1468.9	1458.8
35°	1963.1	1938.6	1851.4	1700.3	1584.8	1545.5	1543.4	1505.6	1499.2	1490.2
37.5°	2199.8	2169.5	2067.9	1865.2	1683.8	1598.7	1595.5	1561.4	1535.4	1525.8
40°	2437.7	2399.3	2315.3	2066.3	1829.6	1687.5	1677.4	1625.8	1596.0	1580.1
42.5°	2668.5	2636.6	2564.8	2291.9	2009.4	1817.3	1795.0	1706.7	1684.3	1669.4
45°	2872.8	2844.1	2791.4	2532.9	2220.1	1994.0	1972.1	1828.0	1821.1	1821.1
47.5°	3038.8	3032.4	2976.6	2778.7	2468.5	2195.1	2157.3	1996.6	2015.2	2044.0
50°	3222.9	3205.3	3145.8	3020.7	2760.6	2425.4	2394.6	2203.6	2273.3	2352.0
52.5°	3392.1	3401.6	3335.1	3272.9	3090.4	2682.4	2628.1	2447.8	2598.3	2728.7
55°	3566.0	3566.6	3548.0	3539.4	3436.2	2966.5	2906.9	2741.4	2980.8	3142.6
57.5°	3729.4	3730.4	3758.1	3833.1	3837.4	3294.2	3226.6	3102.1	3405.9	3570.8
60°	3875.1	3882.6	3958.1	4133.7	4190.1	3669.8	3605.9	3528.3	3845.3	4011.3
62.5°	3924.1	3951.2	4119.3	4368.8	4538.5	4130.5	4067.7	4021.4	4307.1	4461.4
65°	3841.1	3903.3	4228.4	4563.0	4897.1	4677.9	4615.7	4565.1	4787.0	4932.2
67.5°	3637.3	3717.7	4222.0	4766.8	5332.3	5336.6	5278.6	5159.9	5301.4	5357.3
70°	3100.5	3220.8	3850.1	4842.9	5831.9	6237.2	6181.4	5876.0	5814.8	5544.6
72.5°	1997.7	2159.4	2835.1	4216.7	5943.0	7084.7	7081.5	6522.4	5977.1	5180.7
75°	728.8	827.8	1317.2	2646.7	4988.6	7041.6	7062.4	6411.7	5456.3	4001.8
77.5°	265.5	290.5	429.9	1017.2	3068.1	5649.9	5693.0	5125.9	3883.6	2008.3
80°	139.4	153.2	220.3	394.7	1314.6	3355.4	3422.9	3046.3	1825.3	604.9
82.5°	77.1	83.5	123.4	214.4	592.1	1434.8	1475.3	1203.4	642.1	256.4
85°	41.5	44.2	58.0	117.0	289.4	497.4	508.6	359.6	255.9	150.6
87.5°	12.2	14.9	19.2	37.2	113.3	111.7	114.4	71.3	101.1	76.1
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°
1018.8	0°	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8
1026.8	2.5°	1023.6	1022.0	1016.1	1013.5	1010.3	1009.7	1012.4	1012.9	1013.5	1014.0
1038.5	5°	1033.2	1027.8	1022.5	1019.3	1020.4	1020.9	1026.2	1030.0	1032.6	1034.8
1060.3	7.5°	1051.8	1047.5	1038.5	1037.9	1039.5	1044.3	1051.2	1059.8	1064.5	1068.3
1088.5	10°	1079.4	1071.5	1060.8	1062.4	1065.6	1072.5	1086.9	1093.8	1101.8	1108.7
1123.1	12.5°	1107.6	1100.7	1088.5	1089.5	1094.9	1107.1	1120.9	1129.4	1134.8	1140.1
1160.3	15°	1144.3	1132.1	1118.8	1118.8	1128.4	1141.7	1148.1	1155.0	1158.2	1164.0
1200.2	17.5°	1182.1	1166.2	1148.6	1147.5	1159.2	1165.6	1169.4	1170.4	1171.5	1177.9
1239.0	20°	1219.9	1202.3	1177.3	1175.2	1177.9	1176.8	1176.3	1175.2	1176.8	1184.8
1278.9	22.5°	1257.1	1236.9	1202.3	1192.8	1185.3	1175.2	1174.7	1174.1	1175.2	1183.2
1322.0	25°	1300.8	1276.3	1230.0	1201.3	1176.3	1162.4	1164.0	1164.6	1165.6	1172.0
1366.7	27.5°	1348.1	1321.0	1255.5	1198.6	1153.4	1143.8	1141.2	1142.8	1146.5	1156.6
1411.4	30°	1395.5	1363.5	1278.9	1188.0	1124.7	1111.4	1102.8	1106.6	1118.3	1128.4
1450.2	32.5°	1438.5	1406.6	1297.6	1164.6	1088.0	1067.2	1056.0	1060.8	1072.5	1076.2
1493.3	35°	1489.1	1452.9	1305.5	1127.3	1048.1	1016.1	1001.2	994.3	1000.2	996.4
1543.9	37.5°	1545.5	1507.7	1304.5	1078.4	1001.2	964.5	943.8	917.7	905.5	892.7
1618.4	40°	1629.0	1574.7	1291.7	1019.3	943.2	909.7	872.5	828.3	800.7	775.7
1738.6	42.5°	1742.9	1667.8	1268.3	954.4	877.8	846.4	795.9	744.3	700.7	659.2
1921.1	45°	1912.6	1789.7	1239.0	885.3	807.1	776.2	721.4	663.4	613.9	560.7
2180.2	47.5°	2157.3	1953.5	1211.4	806.5	732.6	704.4	654.9	601.2	542.6	491.0
2554.7	50°	2493.5	2188.7	1185.8	729.9	659.2	637.9	598.5	543.7	484.7	443.2
2993.6	52.5°	2921.2	2508.4	1175.2	656.0	590.5	582.5	551.2	500.1	444.2	409.1
3505.4	55°	3412.3	2890.9	1175.2	585.2	530.4	533.1	511.3	463.9	415.5	384.1
4033.1	57.5°	3913.4	3278.2	1153.9	519.8	479.3	490.5	476.7	435.2	391.6	359.1
4588.0	60°	4375.2	3602.7	1067.7	460.2	434.1	451.7	442.6	407.0	353.8	326.7
5051.9	62.5°	4730.1	3785.8	901.8	412.8	396.9	417.1	412.3	369.7	346.9	335.7
5432.9	65°	4907.8	3756.0	689.5	370.8	365.5	396.9	386.8	385.2	367.1	354.3
5556.8	67.5°	4798.7	3499.5	500.1	340.0	347.4	378.3	417.1	423.5	390.0	365.0
5207.8	70°	4320.4	3035.6	372.4	310.7	324.5	378.8	475.6	443.2	382.5	353.3
4176.8	72.5°	3286.7	2263.7	288.9	279.8	294.7	381.4	501.7	434.1	361.2	390.5
2602.0	75°	1879.6	1242.8	232.0	242.1	257.5	356.4	488.4	410.7	344.7	358.6
1031.0	77.5°	716.6	477.7	191.5	204.8	207.0	311.2	467.1	409.1	328.2	320.3
309.1	80°	248.4	186.7	158.5	162.8	160.1	276.6	447.9	355.9	268.7	240.5
127.7	82.5°	101.6	93.1	125.6	120.2	113.8	214.9	361.8	291.0	219.7	194.2
61.7	85°	44.2	59.1	83.0	72.9	66.0	149.0	289.9	246.3	185.7	160.1
20.2	87.5°	9.0	22.3	35.1	33.0	34.0	99.5	205.9	175.0	131.4	98.4
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>
1018.8
1016.1
1035.8
1069.3
1107.1
1142.2
1166.2
1180.0
1188.0
1188.5
1180.5
1166.7
1139.6
1089.5
1008.2
900.7
777.3
655.4
554.4
485.2
440.5
406.5
380.9
353.8
322.4
332.0
350.1
360.7
348.5
387.3
358.6
292.1
232.5
192.1
159.6
77.1
0.0

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