

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: P939719

Luminaire Tested: **GALN-SB2B-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939719
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-SB2B-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8065 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

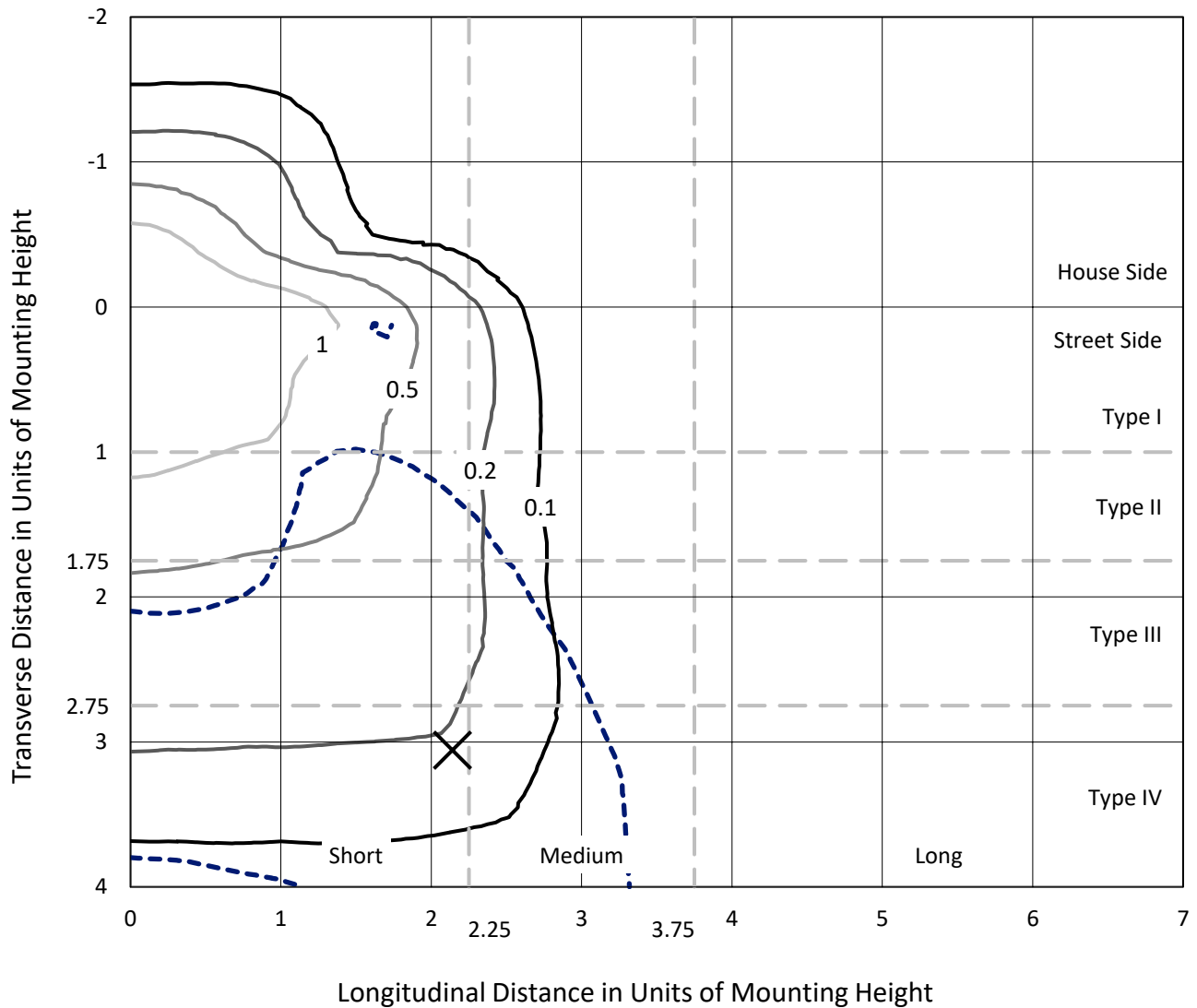
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939719
 CATALOG NUMBER: GALN-SB2B-940-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

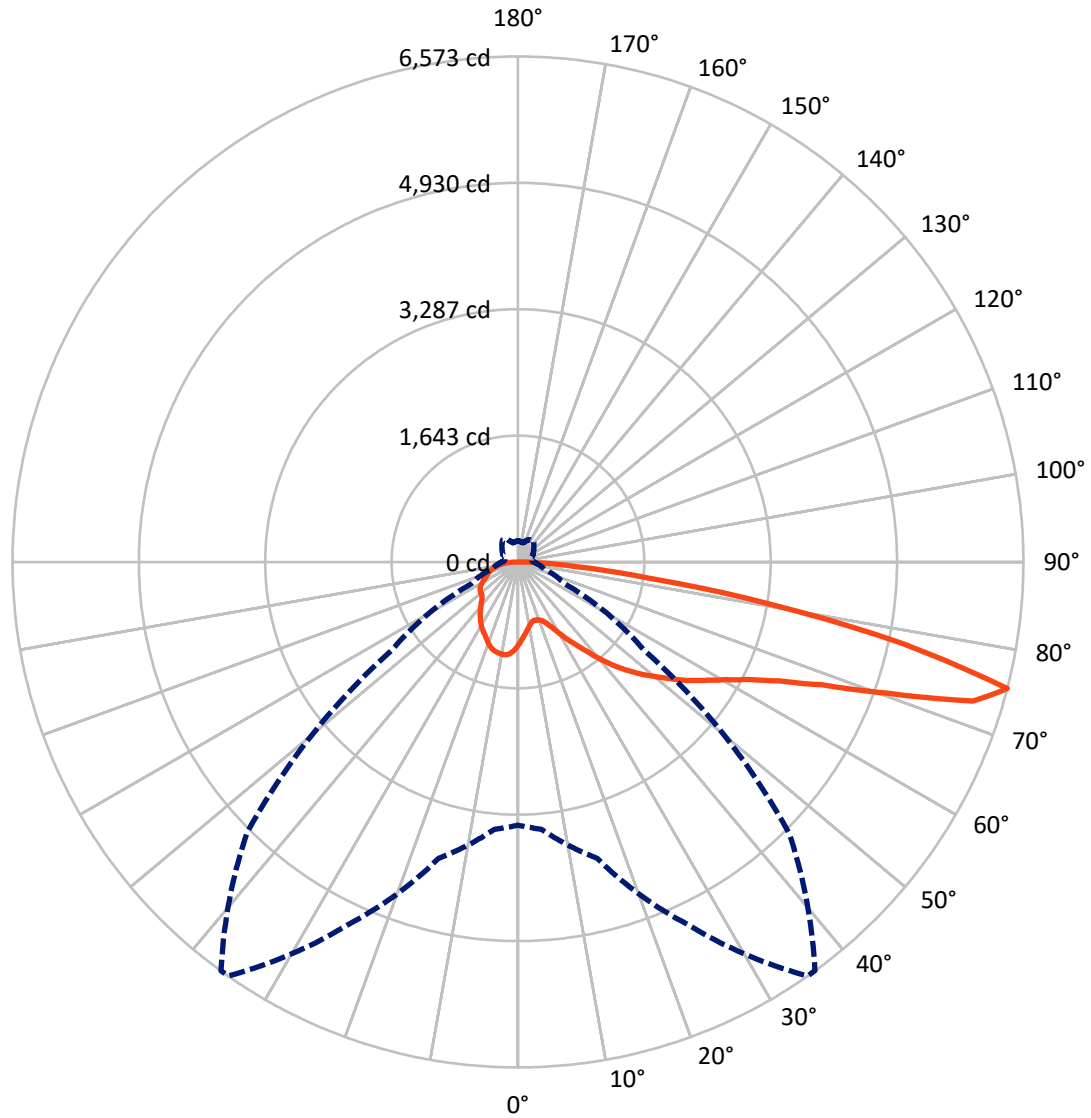
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P939719
CATALOG NUMBER: GALN-SB2B-940-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P939719
 CATALOG NUMBER: GALN-SB2B-940-U-T4FT

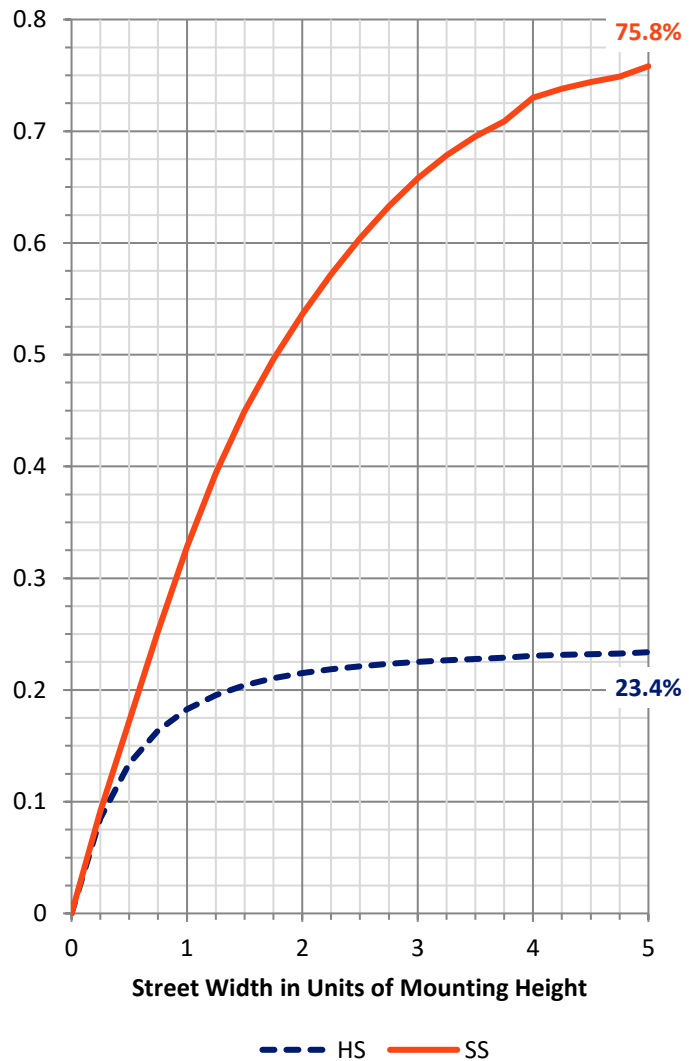
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1919.3	0.0	1919.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6145.7	0.0	6145.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	8065.0	0.0	8065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	1.3
10°-20°	293.5	3.6
20°-30°	492.9	6.1
30°-40°	766.0	9.5
40°-50°	1136.9	14.1
50°-60°	1569.6	19.5
60°-70°	1904.3	23.6
70°-80°	1573.7	19.5
80°-90°	226.4	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°	8065.0	100.0
0°-180°	8065.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939719

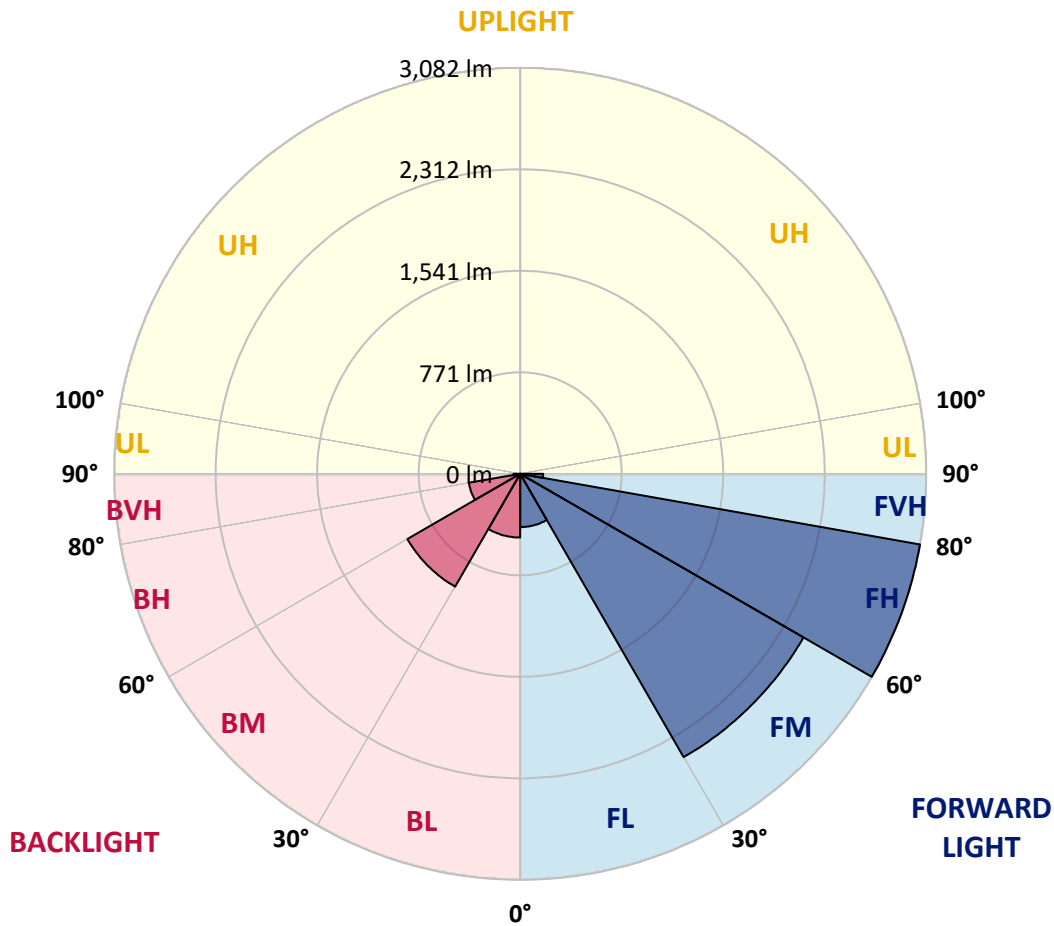
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.4	5.0			
FM (30°-60°)	2483.6	30.8			
FH (60°-80°)	3082.3	38.2			G2/5000
FVH (80°-90°)	175.4	2.2			G2/225
BL (0°-30°)	483.7	6.0	B1/500		
BM (30°-60°)	988.9	12.3	B1/1000		
BH (60°-80°)	395.7	4.9	B1/500		G1/500
BVH (80°-90°)	51.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



REPORT NUMBER: P939719
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7
2.5°	991.0	997.1	999.7	998.4	1005.0	1004.1	1013.2	1024.6	1040.3	1055.5
5°	914.7	921.2	926.9	932.1	944.8	948.7	963.1	984.9	1013.7	1042.9
7.5°	843.6	849.3	858.0	867.6	889.0	892.9	916.9	950.9	991.0	1033.7
10°	785.7	791.3	800.5	811.4	838.0	842.8	873.3	918.6	971.0	1025.0
12.5°	760.8	762.5	767.8	778.7	801.8	804.8	838.4	890.3	951.3	1018.5
15°	759.5	763.0	763.4	769.1	788.3	789.6	820.5	872.0	939.1	1017.2
17.5°	772.6	775.2	771.3	774.8	790.9	793.1	817.5	863.3	935.2	1022.8
20°	807.5	809.6	797.9	793.1	804.8	806.6	830.6	868.9	939.1	1034.6
22.5°	881.6	882.9	854.1	834.5	835.4	836.2	857.2	892.0	954.4	1056.0
25°	997.1	996.2	950.5	912.5	890.7	885.9	899.9	929.5	980.1	1084.3
27.5°	1132.3	1125.7	1079.9	1023.3	975.7	968.8	965.7	978.4	1016.7	1121.8
30°	1284.9	1278.8	1229.5	1155.4	1089.5	1078.2	1049.4	1042.9	1071.2	1172.8
32.5°	1452.3	1448.4	1389.5	1299.7	1211.6	1198.5	1150.1	1132.7	1154.9	1250.0
35°	1592.7	1589.2	1540.4	1447.9	1340.2	1324.1	1274.8	1255.2	1266.6	1349.0
37.5°	1719.5	1717.8	1675.9	1603.1	1492.0	1472.3	1417.0	1410.4	1408.2	1479.3
40°	1837.3	1832.9	1789.3	1750.9	1668.5	1650.7	1601.8	1596.2	1579.6	1639.8
42.5°	1967.6	1956.3	1893.1	1875.2	1853.0	1838.1	1808.9	1809.8	1773.2	1820.7
45°	2074.0	2067.5	2002.5	1992.0	2016.0	2009.9	2035.2	2041.7	1970.7	2010.4
47.5°	2188.2	2182.1	2127.2	2119.8	2184.7	2186.5	2275.9	2278.0	2163.4	2207.4
50°	2329.1	2320.3	2265.8	2275.0	2347.8	2354.3	2517.8	2503.0	2340.8	2407.5
52.5°	2421.9	2427.2	2415.4	2430.2	2529.6	2535.7	2755.9	2718.0	2516.5	2605.0
55°	2490.4	2500.8	2537.5	2571.5	2721.5	2727.6	2980.4	2922.4	2662.2	2788.2
57.5°	2578.4	2563.6	2632.1	2698.3	2903.7	2919.8	3198.9	3119.5	2791.2	2946.0
60°	2704.9	2694.4	2747.6	2845.7	3107.7	3133.5	3429.9	3297.0	2885.8	3071.1
62.5°	2961.2	2935.1	2943.4	3030.1	3365.0	3399.0	3690.7	3451.7	2932.9	3119.9
65°	3344.5	3299.6	3257.7	3317.9	3727.3	3760.9	3985.0	3573.4	2915.5	3025.3
67.5°	3827.1	3782.7	3731.2	3787.9	4260.9	4287.5	4348.1	3641.8	2778.1	2660.8
70°	4225.2	4208.6	4270.1	4503.3	5113.3	5114.2	4813.8	3585.1	2401.9	1886.5
72.5°	4172.4	4162.4	4486.3	5207.5	6187.6	6164.5	5254.6	3156.1	1618.0	851.1
75°	3423.0	3487.9	3989.7	5194.8	6573.4	6570.4	4984.7	2006.4	669.2	352.7
77.5°	1835.5	1938.4	2590.2	3835.4	5131.6	5208.8	3504.5	701.9	287.3	225.8
80°	598.6	688.4	1032.4	1952.8	3334.5	3320.1	1502.0	275.5	196.6	160.0
82.5°	254.2	264.6	461.3	922.1	1711.3	1684.7	478.3	158.3	138.2	109.4
85°	99.4	111.2	203.6	426.4	741.2	725.1	172.7	78.5	88.5	71.5
87.5°	32.7	39.7	72.8	146.1	230.6	222.4	42.3	27.0	38.4	32.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939719
 CATALOG NUMBER: GALN-SB2B-940-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1074.7	0°	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7
1077.8	2.5°	1083.9	1090.8	1099.1	1111.3	1121.8	1130.5	1139.7	1145.3	1147.5	1154.1
1079.5	5°	1091.7	1107.0	1127.5	1147.5	1167.1	1178.9	1189.4	1194.6	1199.4	1202.9
1084.3	7.5°	1104.8	1124.4	1156.7	1182.8	1199.4	1209.0	1216.0	1214.2	1216.0	1216.8
1089.5	10°	1116.1	1143.6	1182.0	1206.8	1219.5	1219.9	1218.2	1212.1	1209.0	1209.4
1097.4	12.5°	1129.7	1160.2	1201.6	1222.5	1226.0	1216.4	1209.0	1198.5	1194.6	1192.9
1109.2	15°	1148.0	1182.8	1223.0	1230.8	1222.1	1209.9	1197.2	1180.2	1171.5	1164.5
1129.2	17.5°	1170.2	1208.6	1239.5	1233.9	1215.1	1195.0	1174.6	1148.8	1131.0	1123.5
1156.7	20°	1201.2	1235.6	1252.2	1227.3	1199.0	1168.5	1133.6	1102.2	1085.6	1078.2
1191.6	22.5°	1238.6	1271.8	1264.4	1216.0	1175.9	1127.0	1083.4	1060.3	1052.0	1046.8
1236.5	25°	1283.6	1311.9	1273.1	1199.4	1137.9	1072.1	1038.5	1031.1	1027.2	1023.3
1291.4	27.5°	1342.0	1357.2	1279.6	1175.0	1078.6	1013.7	1001.5	1002.8	1001.5	994.9
1367.7	30°	1419.1	1416.1	1285.7	1135.3	1010.6	960.9	961.8	967.5	968.3	964.0
1474.1	32.5°	1520.7	1489.8	1288.8	1083.9	945.7	914.7	915.6	921.7	926.0	918.6
1613.2	35°	1643.7	1575.7	1284.0	1019.3	895.5	870.7	864.1	865.9	867.2	860.2
1781.9	37.5°	1787.1	1672.0	1262.6	947.8	854.1	827.5	813.6	801.8	794.8	788.3
1972.9	40°	1944.5	1777.1	1223.4	878.1	807.9	781.7	760.8	738.6	715.0	706.3
2175.2	42.5°	2109.3	1885.2	1175.9	811.4	754.7	733.3	711.1	678.8	643.5	625.6
2385.3	45°	2280.2	1996.0	1129.2	745.5	700.2	691.0	665.3	626.5	588.2	565.5
2595.9	47.5°	2447.6	2100.6	1060.8	679.3	649.2	659.2	639.2	603.4	560.7	524.9
2804.7	50°	2607.7	2198.7	948.7	612.1	607.8	649.6	630.4	579.0	530.2	484.4
3009.6	52.5°	2766.4	2278.0	805.3	551.1	585.5	647.0	619.1	562.4	502.7	454.7
3202.3	55°	2901.1	2319.0	667.1	498.8	553.3	624.8	605.6	542.8	463.9	412.9
3334.5	57.5°	2977.8	2285.9	552.0	447.3	508.8	588.2	582.5	501.0	417.7	378.4
3360.2	60°	2944.7	2151.6	457.8	402.4	466.5	548.5	542.4	459.5	382.4	345.3
3222.4	62.5°	2762.0	1895.7	383.2	363.2	428.1	507.9	502.3	427.7	355.3	319.6
2856.6	65°	2394.0	1542.1	325.2	330.5	389.3	459.1	467.4	401.1	334.0	299.1
2210.0	67.5°	1825.9	1117.0	279.9	302.1	351.4	411.1	435.1	381.9	316.1	283.0
1278.8	70°	1040.7	634.4	241.5	274.7	317.8	366.7	410.3	366.7	296.9	269.4
479.2	72.5°	394.6	291.2	208.8	247.2	285.6	329.2	382.8	342.7	274.7	254.2
247.6	75°	210.6	177.4	175.7	214.9	248.5	292.5	348.4	319.1	258.1	268.6
171.3	77.5°	143.4	125.6	146.9	184.0	208.0	252.0	311.7	283.4	223.7	222.8
118.6	80°	99.4	88.9	119.5	148.2	160.9	211.9	272.1	243.3	182.2	170.0
73.2	82.5°	59.7	58.0	89.4	110.7	113.8	163.5	225.4	204.0	149.1	129.9
43.6	85°	32.7	34.4	57.1	65.0	66.3	114.2	176.6	157.8	114.7	96.4
15.7	87.5°	9.2	11.8	20.9	25.7	31.8	59.3	105.1	93.7	57.6	40.1
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>
1074.7
1153.6
1203.8
1218.2
1210.3
1192.0
1166.7
1124.0
1077.3
1047.7
1023.3
996.2
966.2
922.1
865.0
792.6
710.2
627.8
563.7
521.0
480.5
449.5
408.5
373.2
340.1
313.9
293.4
277.7
266.0
250.7
277.3
205.4
162.6
130.8
97.2
40.1
0.0

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