

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: P946379

Luminaire Tested: **GALN-SB2A-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-750-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9618 lumens
Efficiency: N/A
Efficacy: 167.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

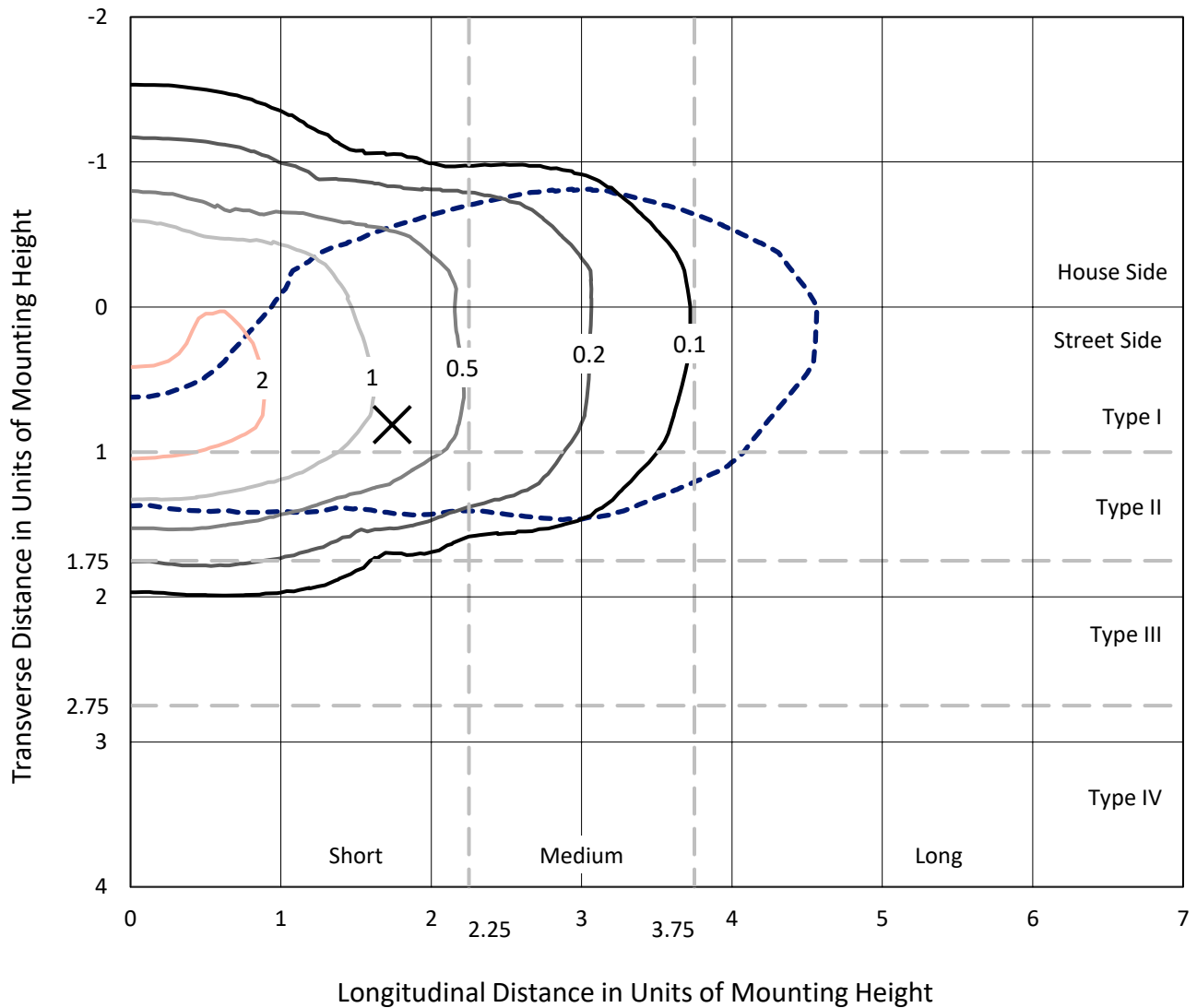
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

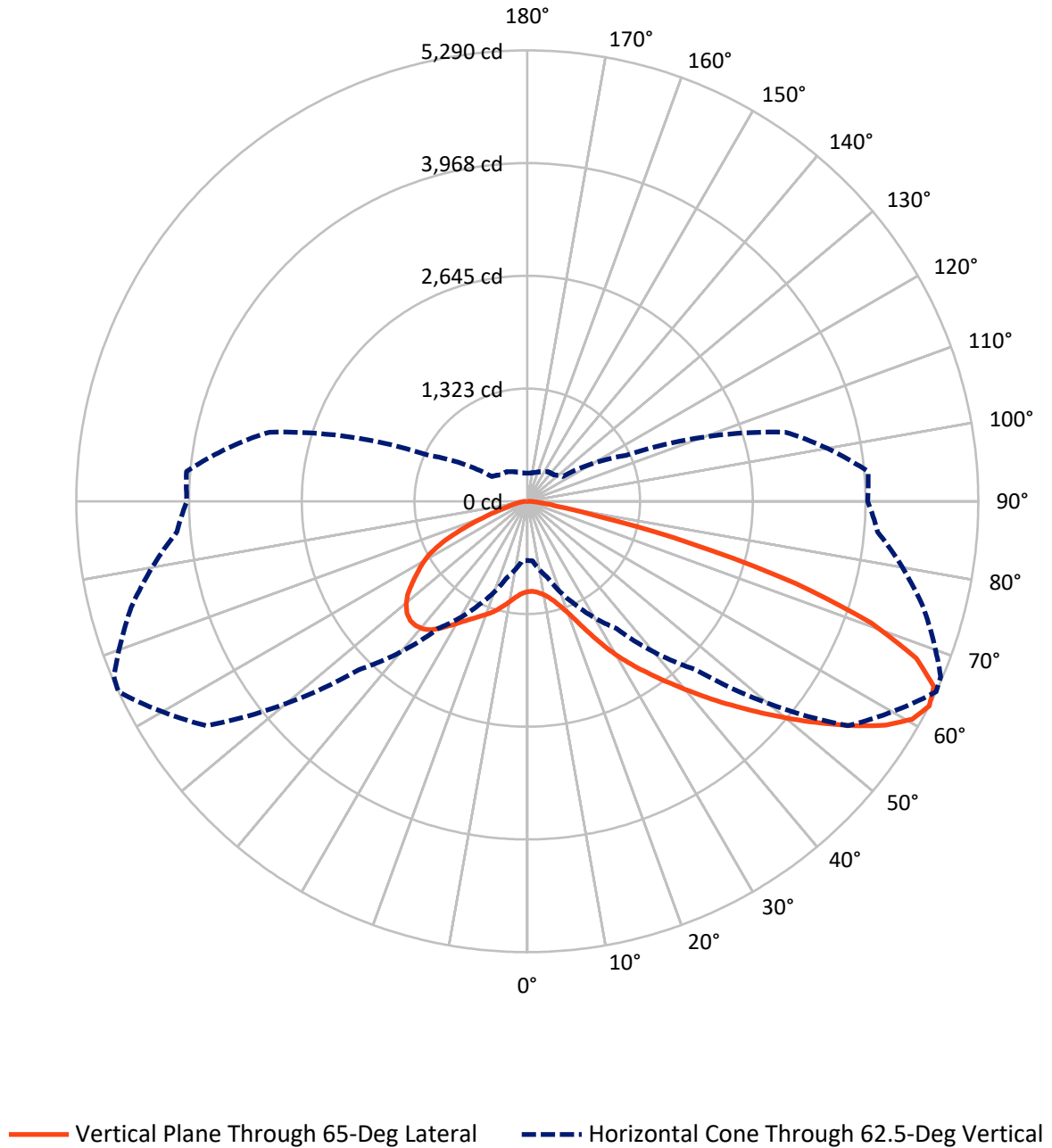
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3035.0	0.0	3035.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6583.0	0.0	6583.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	9618.0	0.0	9618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	1.1
10°-20°	358.3	3.7
20°-30°	726.5	7.6
30°-40°	1257.3	13.1
40°-50°	1902.6	19.8
50°-60°	2230.7	23.2
60°-70°	1870.2	19.4
70°-80°	1032.5	10.7
80°-90°	134.1	1.4
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°	9618.0	100.0
0°-180°	9618.0	100.0

Coefficient of Utilization



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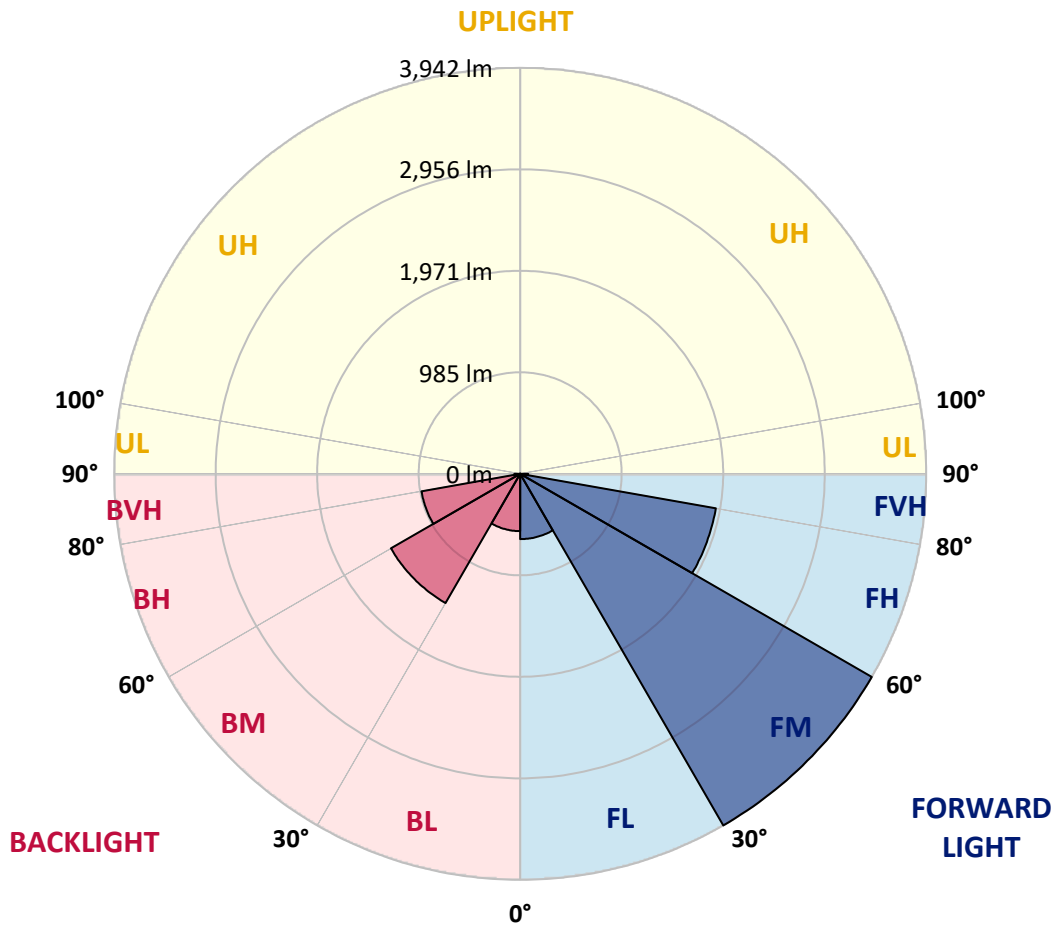
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	634.0	6.6			
FM (30°-60°)	3941.8	41.0			
FH (60°-80°)	1929.1	20.1			G2/5000
FVH (80°-90°)	78.2	0.8			G1/100
BL (0°-30°)	556.6	5.8	B2/1000		
BM (30°-60°)	1448.9	15.1	B2/2500		
BH (60°-80°)	973.6	10.1	B2/1000		G2/1000
BVH (80°-90°)	56.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9
2.5°	1052.9	1049.9	1052.4	1052.4	1053.4	1052.9	1056.4	1057.4	1058.9	1061.9
5°	1042.4	1041.9	1046.4	1050.4	1054.4	1057.9	1062.4	1068.8	1069.8	1073.3
7.5°	1038.9	1035.9	1042.9	1047.9	1057.4	1065.8	1077.8	1088.8	1093.3	1094.8
10°	1065.8	1060.9	1067.3	1070.3	1078.3	1086.8	1100.8	1118.2	1123.2	1129.2
12.5°	1111.8	1106.3	1115.7	1120.2	1127.7	1135.2	1144.7	1161.7	1164.2	1175.1
15°	1174.6	1168.1	1174.1	1179.6	1192.1	1199.1	1208.6	1225.0	1225.0	1233.5
17.5°	1260.0	1251.5	1256.0	1258.0	1265.9	1276.4	1292.4	1306.9	1314.3	1311.4
20°	1387.2	1376.7	1376.7	1366.7	1363.7	1372.2	1393.2	1413.1	1421.1	1405.7
22.5°	1578.3	1563.3	1554.9	1520.9	1507.5	1508.5	1529.4	1553.9	1560.4	1532.9
25°	1821.3	1797.9	1786.4	1736.5	1706.1	1679.6	1696.1	1727.5	1736.5	1702.6
27.5°	2064.3	2065.8	2054.9	1995.0	1944.6	1896.2	1887.7	1920.6	1930.1	1891.7
30°	2405.1	2369.7	2348.8	2276.9	2205.1	2137.2	2102.3	2115.7	2118.2	2072.3
32.5°	2699.1	2690.1	2645.2	2582.3	2490.0	2383.7	2325.3	2303.9	2299.9	2234.5
35°	3033.9	3028.9	2981.5	2906.6	2806.8	2659.1	2553.8	2492.5	2487.5	2395.7
37.5°	3374.2	3374.2	3327.8	3246.0	3142.7	2958.0	2797.9	2700.6	2684.6	2564.8
40°	3645.6	3629.2	3637.7	3603.2	3485.0	3288.9	3068.8	2927.6	2906.1	2762.4
42.5°	3799.8	3794.3	3845.2	3883.7	3835.3	3678.6	3367.2	3173.6	3143.7	2980.0
45°	3834.3	3828.3	3919.1	4059.8	4127.7	4063.3	3691.6	3432.6	3396.1	3207.5
47.5°	3754.9	3742.9	3876.2	4098.2	4315.8	4429.1	4042.8	3713.5	3660.6	3429.1
50°	3516.4	3504.9	3706.5	4001.4	4379.2	4677.6	4424.1	4011.4	3930.6	3666.6
52.5°	2998.0	3003.4	3319.3	3724.5	4295.8	4832.3	4752.4	4325.3	4228.0	3909.6
55°	2335.3	2347.3	2735.5	3181.6	3962.5	4808.8	4976.5	4648.6	4551.8	4138.2
57.5°	1672.1	1725.0	2088.8	2530.4	3322.3	4437.0	5025.4	4956.0	4862.2	4387.6
60°	1083.8	1093.3	1467.5	1912.6	2529.9	3776.4	4926.1	5189.0	5115.7	4642.1
62.5°	694.6	701.1	929.1	1337.8	1820.8	2793.9	4591.7	5290.3	5267.9	4810.3
65°	510.5	505.5	624.2	884.2	1226.5	1723.0	3942.5	5241.4	5285.8	4915.6
67.5°	426.1	419.2	477.5	612.3	903.7	978.5	2917.1	4923.6	5086.2	4903.6
70°	388.2	382.2	417.7	454.6	705.1	655.2	1470.5	4280.4	4530.9	4767.4
72.5°	328.8	318.4	366.8	403.7	548.4	502.5	607.8	3287.9	3593.3	4330.8
75°	255.0	248.0	289.4	355.3	412.2	392.2	384.2	1996.5	2329.8	3349.2
77.5°	202.1	192.6	230.5	276.9	370.8	295.9	279.9	859.8	1190.1	2138.2
80°	152.2	143.7	175.1	219.1	284.9	223.1	181.1	350.8	448.6	1083.3
82.5°	108.3	100.8	122.3	160.7	191.6	200.1	111.3	196.6	221.1	417.7
85°	69.4	64.9	81.8	100.8	121.8	128.7	67.9	102.8	112.8	172.2
87.5°	37.9	30.9	43.9	46.9	56.4	51.4	32.4	37.4	40.4	62.4
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°
1059.9	0°	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9
1061.9	2.5°	1063.9	1065.4	1070.3	1071.8	1075.3	1079.8	1082.8	1085.8	1085.8	1088.8
1077.8	5°	1078.3	1081.8	1092.3	1097.8	1106.8	1115.7	1121.2	1127.7	1131.7	1133.7
1103.3	7.5°	1106.3	1111.8	1126.7	1136.2	1151.7	1164.2	1172.6	1181.6	1183.6	1189.1
1138.7	10°	1144.2	1150.7	1167.6	1185.6	1204.1	1219.5	1227.5	1234.0	1236.5	1237.5
1184.1	12.5°	1187.6	1197.1	1219.0	1241.0	1260.5	1273.9	1275.9	1274.4	1267.4	1261.5
1240.0	15°	1241.0	1249.5	1273.9	1297.9	1316.8	1319.3	1306.9	1298.9	1290.4	1288.9
1302.4	17.5°	1304.9	1309.4	1331.8	1355.3	1356.8	1348.3	1329.8	1322.3	1314.3	1308.9
1383.7	20°	1379.2	1377.7	1393.7	1403.7	1393.2	1367.2	1339.3	1326.8	1318.8	1312.4
1483.5	22.5°	1468.0	1456.6	1454.6	1452.1	1424.1	1369.7	1331.8	1315.8	1303.4	1294.4
1622.7	25°	1597.3	1553.4	1522.9	1506.0	1443.1	1356.3	1307.9	1272.4	1249.0	1233.5
1792.9	27.5°	1759.0	1685.1	1608.3	1566.8	1443.1	1328.8	1250.0	1192.6	1154.2	1138.2
1957.6	30°	1913.1	1835.8	1722.5	1640.2	1439.6	1283.9	1156.7	1076.8	1031.9	1016.0
2098.3	32.5°	2044.9	1960.5	1843.8	1720.5	1431.1	1211.1	1040.9	952.6	909.2	890.2
2237.5	35°	2167.1	2077.3	1965.5	1808.9	1408.7	1104.3	913.7	846.3	797.9	767.5
2379.2	37.5°	2292.4	2185.6	2080.8	1888.7	1368.2	979.5	815.9	758.5	701.6	660.7
2529.9	40°	2428.6	2300.9	2204.1	1936.1	1301.9	860.8	740.0	687.6	627.2	583.8
2703.5	42.5°	2587.8	2439.1	2341.3	1960.5	1211.1	776.4	690.6	639.2	582.3	546.9
2889.7	45°	2753.9	2591.3	2466.5	1960.0	1109.8	737.0	674.6	623.7	560.9	523.9
3080.8	47.5°	2928.1	2750.5	2574.8	1928.1	1021.9	742.5	665.7	590.3	520.9	485.0
3273.9	50°	3102.7	2924.6	2679.6	1868.2	984.5	730.5	632.2	543.4	461.6	429.1
3455.0	52.5°	3275.9	3109.7	2769.9	1782.9	946.6	686.1	589.3	482.5	437.1	414.7
3642.2	55°	3450.0	3292.9	2868.2	1658.7	851.8	634.2	517.5	459.6	417.7	397.2
3825.3	57.5°	3624.7	3504.4	2961.5	1534.4	732.5	570.3	478.0	431.6	398.2	380.7
3978.5	60°	3806.3	3746.4	3057.8	1420.1	614.8	488.5	449.1	409.2	375.2	355.8
4125.7	62.5°	3993.4	4012.9	3133.2	1272.9	506.5	438.6	423.1	382.2	349.3	330.8
4247.4	65°	4182.1	4269.9	3182.6	1068.8	410.7	391.2	395.2	352.8	319.4	303.4
4336.8	67.5°	4324.3	4455.0	3168.6	808.9	336.8	346.3	360.3	321.9	290.4	277.9
4322.3	70°	4340.2	4433.1	3030.9	553.9	281.9	302.4	321.4	291.4	259.0	250.0
4118.7	72.5°	4127.7	4133.7	2647.2	361.8	238.5	265.5	280.4	260.5	229.0	220.1
3603.2	75°	3570.3	3418.6	1943.6	238.5	199.6	228.0	242.0	228.0	197.6	199.6
2696.1	77.5°	2705.0	2421.1	1180.1	169.7	166.7	191.6	210.6	200.6	174.6	196.1
1355.8	80°	1393.7	1309.9	526.4	126.7	131.7	153.2	173.2	160.2	138.2	131.7
302.9	82.5°	319.4	371.3	207.6	90.8	95.3	110.3	132.2	120.3	99.3	83.8
126.2	85°	111.8	122.3	91.8	56.9	55.9	68.9	89.8	80.3	67.4	53.9
53.4	87.5°	35.4	46.4	34.4	23.0	24.0	30.9	41.4	37.9	31.4	20.5
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>
1059.9
1088.8
1134.7
1187.1
1235.0
1261.5
1288.9
1309.4
1312.9
1297.4
1239.5
1146.2
1025.4
899.7
777.4
671.6
592.3
553.9
529.9
490.0
431.1
414.7
395.2
377.7
354.3
330.3
302.9
278.4
250.5
219.6
192.6
172.7
120.3
82.8
56.9
21.5
0.0

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