

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: P947303

Luminaire Tested: **GALN-SB2C-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947303
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-SB2C-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10998 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

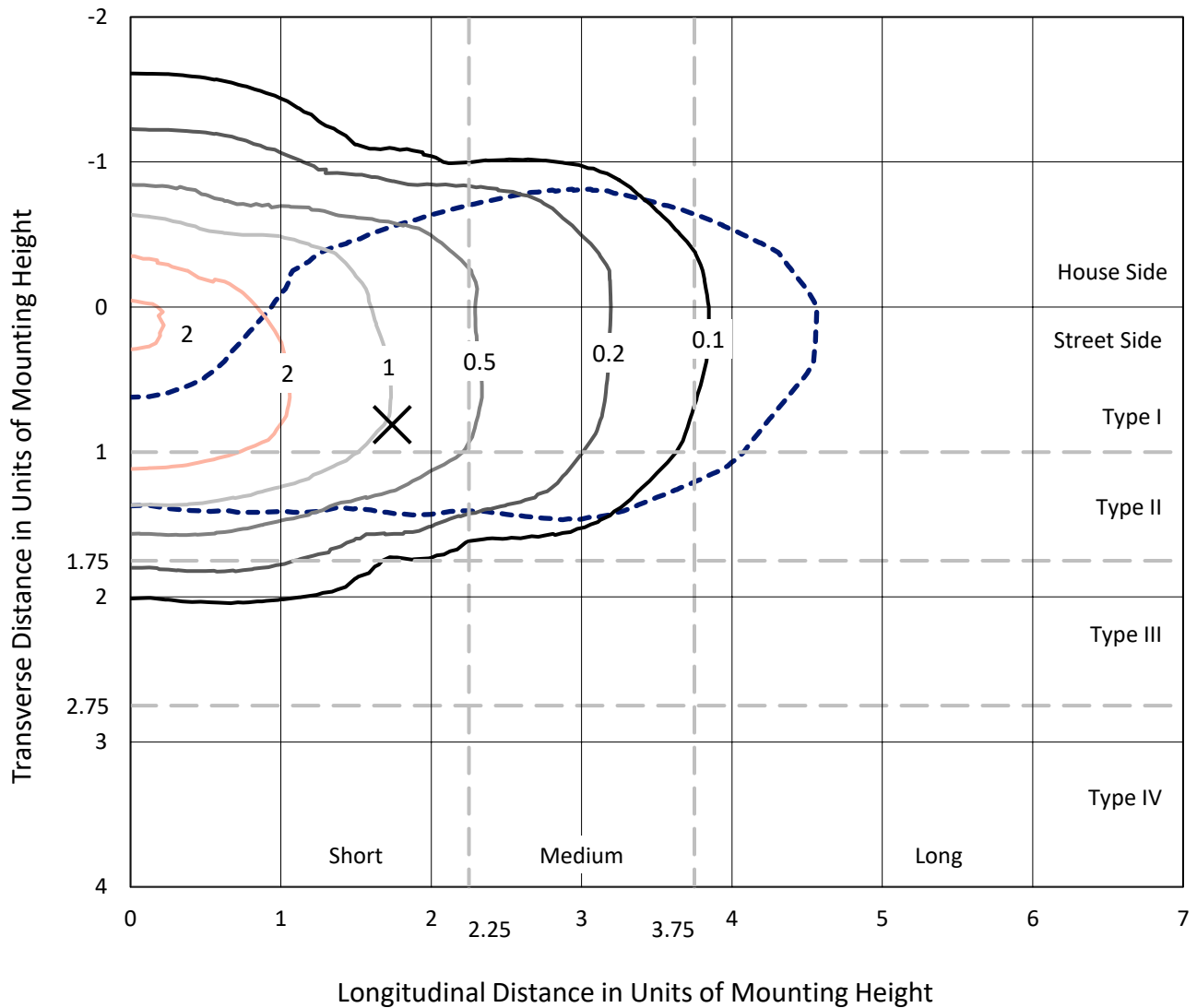
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

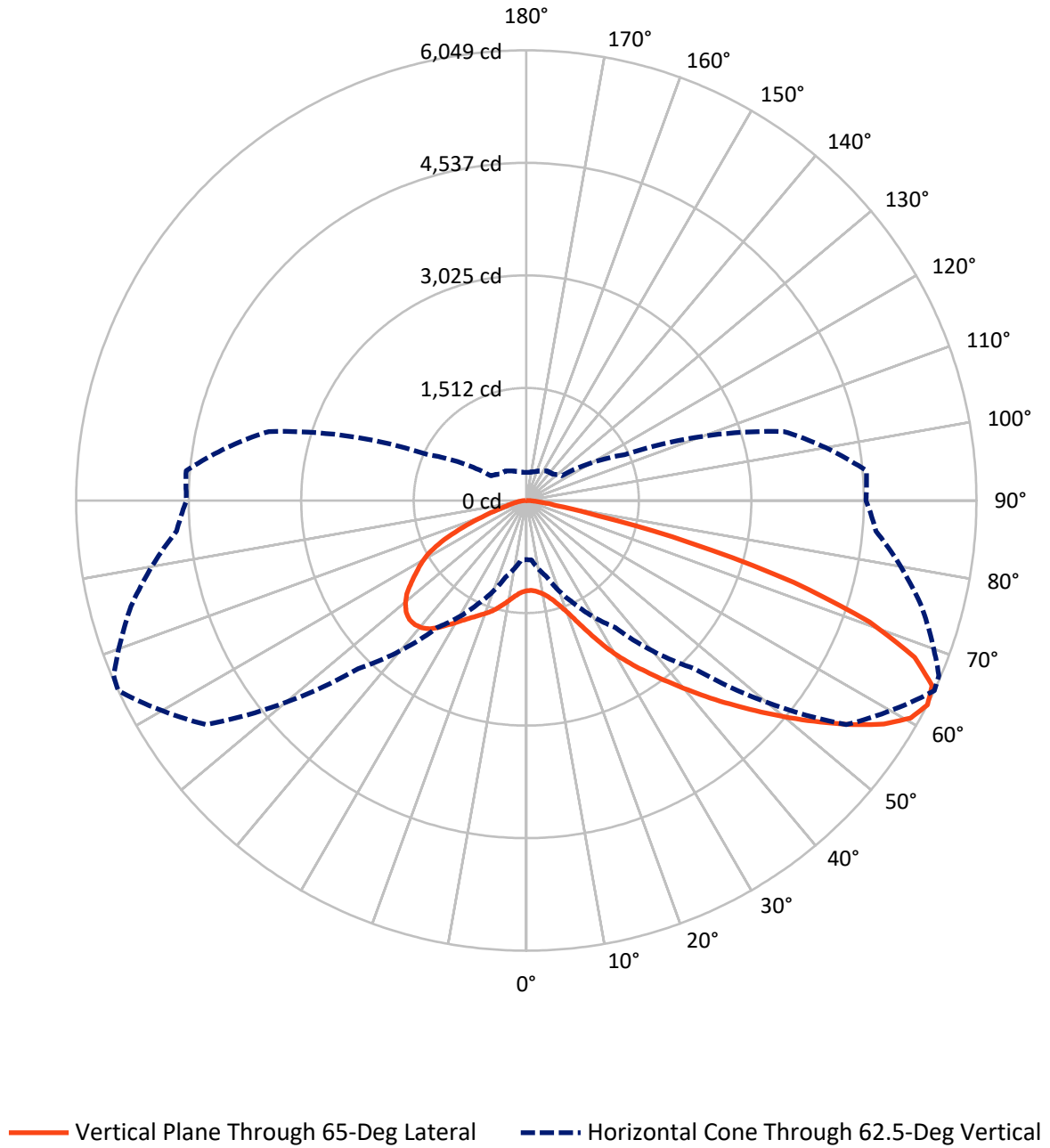
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	3470.5	0.0	3470.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	7527.5	0.0	7527.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	10998.0	0.0	10998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	1.1
10°-20°	409.7	3.7
20°-30°	830.8	7.6
30°-40°	1437.7	13.1
40°-50°	2175.6	19.8
50°-60°	2550.8	23.2
60°-70°	2138.5	19.4
70°-80°	1180.6	10.7
80°-90°	153.4	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°	10998.0	100.0
0°-180°	10998.0	100.0

Coefficient of Utilization



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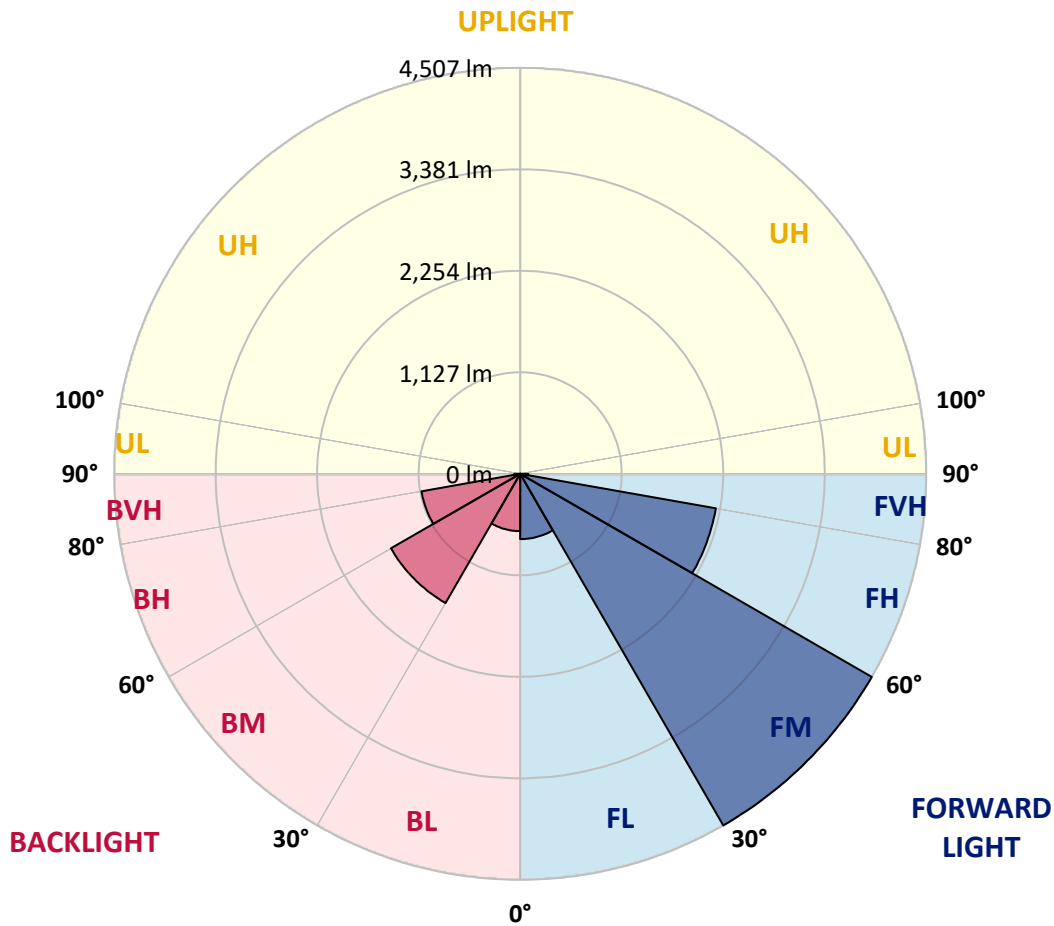
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	724.9	6.6			
FM (30°-60°)	4507.3	41.0			
FH (60°-80°)	2205.9	20.1			G2/5000
FVH (80°-90°)	89.4	0.8			G1/100
BL (0°-30°)	636.4	5.8	B2/1000		
BM (30°-60°)	1656.8	15.1	B2/2500		
BH (60°-80°)	1113.3	10.1	B3/2500		G3/2500
BVH (80°-90°)	64.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9
2.5°	1203.9	1200.5	1203.4	1203.4	1204.5	1203.9	1207.9	1209.1	1210.8	1214.2
5°	1192.0	1191.4	1196.5	1201.1	1205.7	1209.6	1214.8	1222.2	1223.3	1227.3
7.5°	1188.0	1184.5	1192.5	1198.2	1209.1	1218.8	1232.5	1245.0	1250.2	1251.9
10°	1218.8	1213.1	1220.5	1223.9	1233.0	1242.7	1258.7	1278.7	1284.4	1291.2
12.5°	1271.3	1265.0	1275.8	1281.0	1289.5	1298.1	1308.9	1328.3	1331.2	1343.7
15°	1343.2	1335.7	1342.6	1348.9	1363.1	1371.1	1382.0	1400.8	1400.8	1410.5
17.5°	1440.7	1431.0	1436.2	1438.5	1447.6	1459.6	1477.8	1494.4	1502.9	1499.5
20°	1586.2	1574.3	1574.3	1562.8	1559.4	1569.1	1593.1	1615.9	1625.0	1607.4
22.5°	1804.8	1787.7	1778.0	1739.2	1723.8	1724.9	1748.9	1776.8	1784.2	1752.9
25°	2082.7	2055.8	2042.7	1985.7	1950.8	1920.6	1939.4	1975.4	1985.7	1946.9
27.5°	2360.5	2362.2	2349.7	2281.2	2223.6	2168.2	2158.5	2196.2	2207.0	2163.1
30°	2750.2	2709.7	2685.8	2603.6	2521.4	2443.8	2403.9	2419.3	2422.2	2369.7
32.5°	3086.3	3076.0	3024.7	2952.8	2847.2	2725.7	2658.9	2634.4	2629.8	2555.1
35°	3469.2	3463.5	3409.3	3323.7	3209.6	3040.7	2920.3	2850.1	2844.4	2739.4
37.5°	3858.3	3858.3	3805.3	3711.7	3593.6	3382.5	3199.3	3088.0	3069.8	2932.8
40°	4168.7	4149.9	4159.6	4120.2	3985.0	3760.8	3509.1	3347.6	3323.1	3158.8
42.5°	4345.0	4338.8	4397.0	4440.9	4385.6	4206.4	3850.3	3628.9	3594.7	3407.6
45°	4384.4	4377.6	4481.4	4642.3	4719.9	4646.3	4221.2	3925.1	3883.4	3667.7
47.5°	4293.7	4280.0	4432.3	4686.3	4935.0	5064.6	4622.9	4246.3	4185.8	3921.1
50°	4020.9	4007.8	4238.3	4575.6	5007.5	5348.7	5058.8	4587.0	4494.5	4192.7
52.5°	3428.1	3434.4	3795.6	4258.9	4912.2	5525.6	5434.3	4945.9	4834.6	4470.6
55°	2670.4	2684.1	3128.0	3638.1	4531.1	5498.8	5690.5	5315.6	5204.9	4731.9
57.5°	1912.0	1972.5	2388.5	2893.5	3799.0	5073.7	5746.4	5667.1	5559.8	5017.2
60°	1239.3	1250.2	1678.1	2187.1	2892.9	4318.2	5632.9	5933.6	5849.7	5308.2
62.5°	794.3	801.7	1062.4	1529.8	2082.1	3194.7	5250.6	6049.4	6023.7	5500.5
65°	583.7	578.0	713.8	1011.1	1402.5	1970.2	4508.2	5993.5	6044.3	5620.9
67.5°	487.3	479.3	546.1	700.1	1033.3	1118.9	3335.7	5630.0	5816.0	5607.2
70°	443.9	437.1	477.6	519.8	806.2	749.2	1681.5	4894.5	5181.0	5451.4
72.5°	376.0	364.0	419.4	461.6	627.1	574.6	695.0	3759.6	4108.8	4952.1
75°	291.6	283.6	330.9	406.3	471.3	448.5	439.4	2282.9	2664.1	3829.8
77.5°	231.1	220.2	263.6	316.7	423.9	338.4	320.1	983.1	1360.9	2445.0
80°	174.0	164.3	200.3	250.5	325.8	255.1	207.1	401.1	513.0	1238.7
82.5°	123.8	115.3	139.8	183.7	219.1	228.8	127.2	224.8	252.8	477.6
85°	79.3	74.2	93.6	115.3	139.2	147.2	77.6	117.5	129.0	196.9
87.5°	43.4	35.4	50.2	53.6	64.5	58.8	37.1	42.8	46.2	71.3
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°
1211.9	0°	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9
1214.2	2.5°	1216.5	1218.2	1223.9	1225.6	1229.6	1234.8	1238.2	1241.6	1241.6	1245.0
1232.5	5°	1233.0	1237.0	1249.0	1255.3	1265.6	1275.8	1282.1	1289.5	1294.1	1296.4
1261.6	7.5°	1265.0	1271.3	1288.4	1299.2	1316.9	1331.2	1340.9	1351.2	1353.4	1359.7
1302.1	10°	1308.4	1315.8	1335.2	1355.7	1376.8	1394.5	1403.6	1411.1	1413.9	1415.1
1354.0	12.5°	1358.0	1368.8	1393.9	1419.1	1441.3	1456.7	1459.0	1457.3	1449.3	1442.5
1417.9	15°	1419.1	1428.8	1456.7	1484.1	1505.8	1508.6	1494.4	1485.2	1475.5	1473.8
1489.2	17.5°	1492.1	1497.2	1522.9	1549.7	1551.4	1541.7	1520.6	1512.1	1502.9	1496.7
1582.2	20°	1577.1	1575.4	1593.7	1605.1	1593.1	1563.4	1531.5	1517.2	1508.1	1500.7
1696.4	22.5°	1678.7	1665.6	1663.3	1660.4	1628.5	1566.3	1522.9	1504.6	1490.4	1480.1
1855.6	25°	1826.5	1776.2	1741.4	1722.0	1650.1	1550.9	1495.5	1455.0	1428.2	1410.5
2050.1	27.5°	2011.3	1926.9	1839.0	1791.7	1650.1	1519.5	1429.3	1363.7	1319.8	1301.5
2238.4	30°	2187.6	2099.2	1969.7	1875.5	1646.2	1468.1	1322.6	1231.3	1180.0	1161.7
2399.3	32.5°	2338.3	2241.8	2108.3	1967.4	1636.5	1384.8	1190.2	1089.3	1039.6	1017.9
2558.5	35°	2478.1	2375.4	2247.6	2068.4	1610.8	1262.7	1044.7	967.7	912.4	877.6
2720.6	37.5°	2621.3	2499.2	2379.4	2159.7	1564.6	1120.1	932.9	867.3	802.2	755.5
2892.9	40°	2777.1	2631.0	2520.3	2213.9	1488.7	984.3	846.2	786.3	717.2	667.6
3091.5	42.5°	2959.1	2789.0	2677.2	2241.8	1384.8	887.8	789.7	730.9	665.9	625.4
3304.3	45°	3149.1	2963.1	2820.4	2241.3	1269.0	842.8	771.4	713.2	641.3	599.1
3522.8	47.5°	3348.2	3145.1	2944.2	2204.8	1168.6	849.0	761.2	675.0	595.7	554.6
3743.6	50°	3547.9	3344.2	3064.1	2136.3	1125.8	835.3	722.9	621.4	527.8	490.7
3950.8	52.5°	3745.9	3555.9	3167.3	2038.7	1082.4	784.6	673.9	551.8	499.8	474.2
4164.7	55°	3945.1	3765.3	3279.7	1896.6	974.0	725.2	591.7	525.5	477.6	454.2
4374.1	57.5°	4144.8	4007.2	3386.4	1754.6	837.6	652.2	546.6	493.6	455.3	435.4
4549.3	60°	4352.5	4284.0	3496.6	1623.9	703.0	558.6	513.5	467.9	429.1	406.8
4717.6	62.5°	4566.4	4588.7	3582.7	1455.6	579.1	501.5	483.9	437.1	399.4	378.3
4856.9	65°	4782.1	4882.5	3639.2	1222.2	469.6	447.3	451.9	403.4	365.2	346.9
4959.0	67.5°	4944.7	5094.2	3623.2	924.9	385.1	396.0	412.0	368.0	332.1	317.8
4942.4	70°	4963.0	5069.1	3465.8	633.4	322.4	345.8	367.5	333.2	296.1	285.9
4709.6	72.5°	4719.9	4726.8	3027.0	413.7	272.7	303.6	320.7	297.8	261.9	251.6
4120.2	75°	4082.6	3909.1	2222.4	272.7	228.2	260.8	276.7	260.8	226.0	228.2
3082.9	77.5°	3093.2	2768.5	1349.4	194.0	190.6	219.1	240.8	229.4	199.7	224.2
1550.3	80°	1593.7	1497.8	602.0	144.9	150.6	175.2	198.0	183.2	158.1	150.6
346.3	82.5°	365.2	424.5	237.4	103.8	109.0	126.1	151.2	137.5	113.5	95.9
144.4	85°	127.8	139.8	105.0	65.0	63.9	78.7	102.7	91.9	77.0	61.6
61.1	87.5°	40.5	53.1	39.4	26.2	27.4	35.4	47.4	43.4	35.9	23.4
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>
1211.9
1245.0
1297.5
1357.4
1412.2
1442.5
1473.8
1497.2
1501.2
1483.5
1417.3
1310.6
1172.6
1028.8
889.0
768.0
677.3
633.4
606.0
560.3
493.0
474.2
451.9
431.9
405.1
377.7
346.3
318.4
286.4
251.1
220.2
197.4
137.5
94.7
65.0
24.5
0.0

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