

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: P939882

Luminaire Tested: **GALN-SB2C-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
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-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10758 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

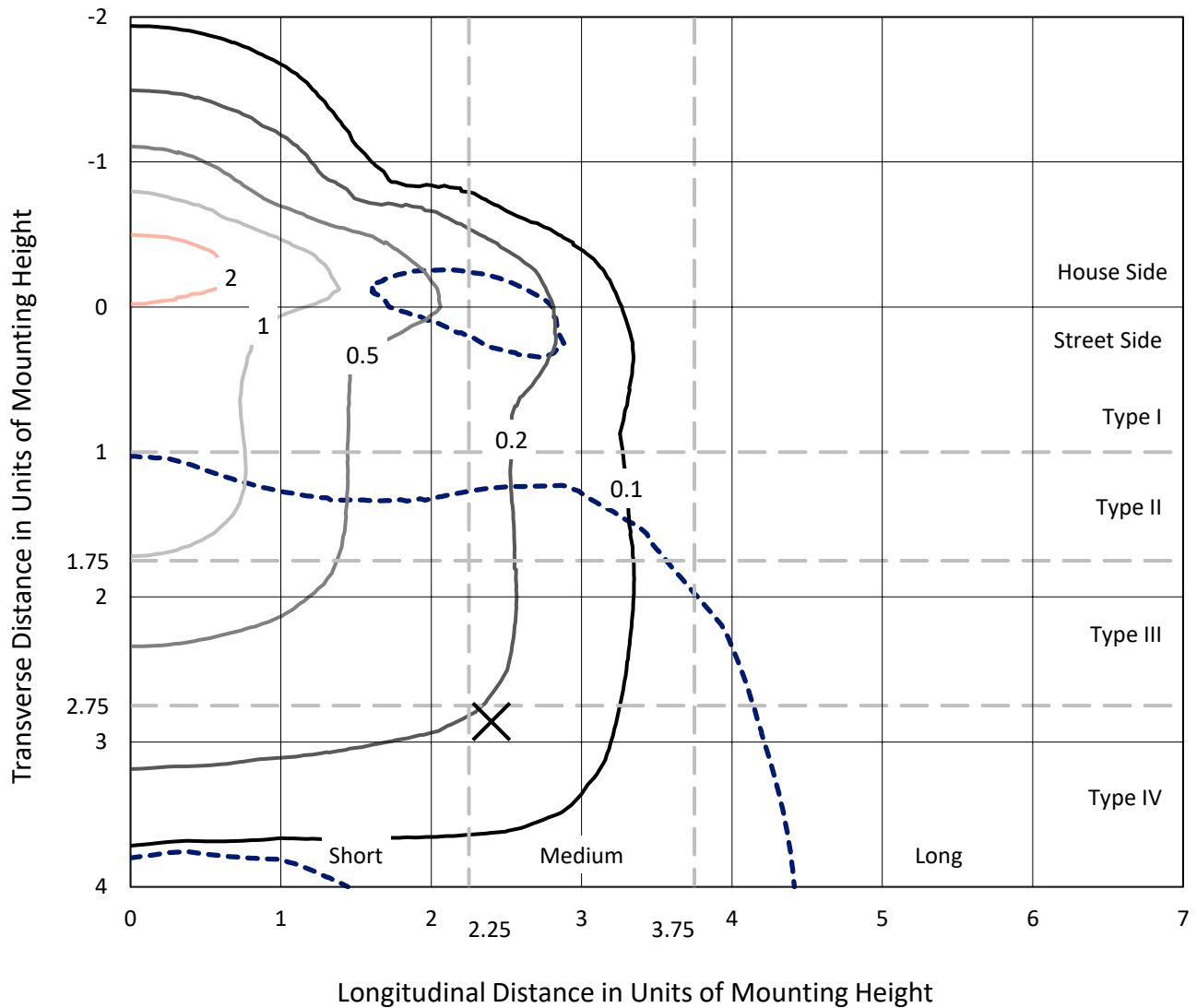
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

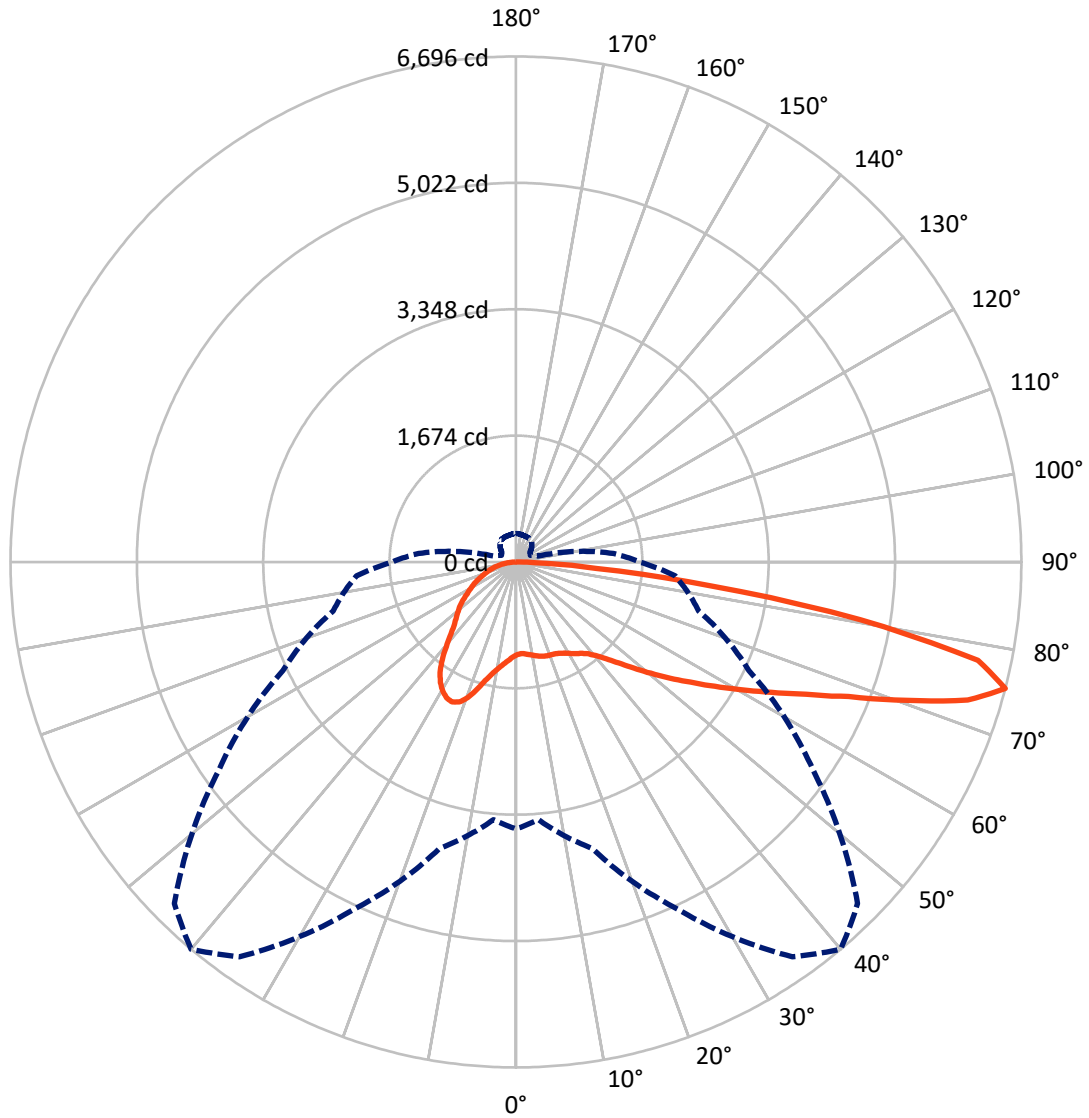
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3333.2	0.0	3333.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	7424.8	0.0	7424.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	10758.0	0.0	10758.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	1.1
10°-20°	412.3	3.8
20°-30°	752.8	7.0
30°-40°	1067.7	9.9
40°-50°	1441.7	13.4
50°-60°	1939.5	18.0
60°-70°	2461.6	22.9
70°-80°	2234.1	20.8
80°-90°	325.7	3.0
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°	10758.0	100.0
0°-180°	10758.0	100.0



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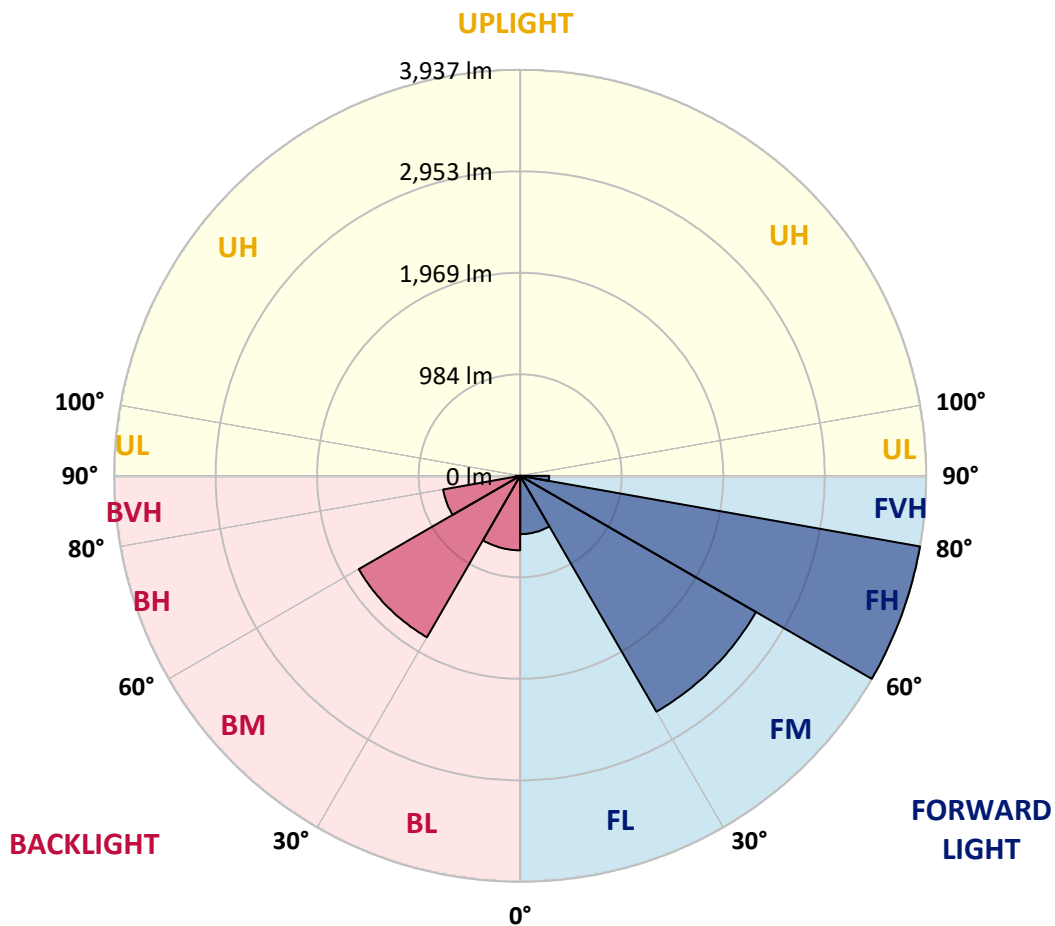
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	565.9	5.3			
FM (30°-60°)	2640.9	24.5			
FH (60°-80°)	3937.3	36.6			G2/5000
FVH (80°-90°)	280.8	2.6			G3/500
BL (0°-30°)	722.0	6.7	B2/1000		
BM (30°-60°)	1808.0	16.8	B2/2500		
BH (60°-80°)	758.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	44.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1230.2	1230.2	1230.2	1230.2	1230.2	1230.2	1230.2	1230.2	1230.2	1230.2
2.5°	1211.4	1218.2	1216.5	1214.2	1214.2	1214.8	1214.2	1218.2	1222.2	1226.2
5°	1223.9	1230.8	1227.3	1224.5	1222.2	1221.6	1219.9	1219.4	1221.6	1226.8
7.5°	1248.5	1255.3	1250.2	1245.0	1240.5	1238.2	1235.9	1232.5	1230.8	1233.6
10°	1275.8	1282.7	1276.4	1267.3	1259.9	1257.0	1254.7	1251.3	1249.0	1250.7
12.5°	1303.2	1310.1	1301.5	1289.0	1279.3	1277.6	1274.7	1273.6	1273.0	1272.4
15°	1328.9	1334.6	1323.8	1308.9	1298.7	1295.8	1293.0	1294.7	1297.5	1300.9
17.5°	1348.9	1354.6	1338.6	1319.2	1309.5	1308.4	1306.7	1312.4	1320.3	1328.9
20°	1367.1	1372.8	1352.3	1326.1	1314.6	1314.6	1315.2	1327.2	1338.6	1351.2
22.5°	1392.8	1397.4	1372.3	1336.3	1319.8	1320.9	1325.5	1337.5	1351.7	1368.8
25°	1431.0	1434.5	1403.7	1355.7	1336.9	1340.3	1344.3	1350.0	1363.7	1383.7
27.5°	1492.7	1495.5	1455.0	1390.0	1361.4	1367.1	1372.8	1368.8	1375.1	1392.2
30°	1579.4	1581.1	1529.8	1443.6	1403.1	1405.9	1407.1	1390.5	1378.5	1392.2
32.5°	1682.1	1681.5	1620.5	1508.6	1450.4	1447.6	1437.9	1405.4	1377.4	1389.4
35°	1841.3	1835.0	1756.3	1599.9	1504.1	1486.4	1463.6	1421.9	1383.1	1386.5
37.5°	2104.9	2085.5	1976.5	1749.4	1584.0	1538.9	1505.2	1448.7	1395.7	1385.4
40°	2402.2	2377.6	2257.8	1954.3	1703.8	1631.3	1577.1	1487.0	1416.2	1390.5
42.5°	2754.8	2720.0	2591.0	2195.6	1855.6	1750.6	1669.0	1535.5	1446.4	1407.1
45°	3187.9	3141.7	2959.1	2467.8	2046.7	1906.9	1797.9	1609.1	1492.7	1439.0
47.5°	3625.5	3636.9	3377.3	2779.3	2276.1	2099.8	1959.4	1719.8	1560.0	1490.4
50°	4090.6	4098.5	3793.3	3124.5	2536.3	2317.7	2140.9	1843.6	1653.6	1563.4
52.5°	4453.5	4454.6	4171.0	3485.7	2807.3	2557.4	2336.6	1985.1	1762.0	1660.4
55°	4680.5	4677.7	4435.8	3827.5	3118.8	2809.0	2553.4	2146.0	1894.4	1774.5
57.5°	4845.4	4836.9	4618.4	4121.4	3450.9	3106.3	2798.7	2328.6	2050.7	1910.3
60°	4908.2	4903.1	4742.2	4375.3	3800.1	3435.0	3081.8	2532.8	2228.2	2070.7
62.5°	4932.2	4941.9	4863.7	4621.2	4173.9	3799.0	3392.7	2777.1	2427.9	2252.1
65°	5016.6	5034.3	5018.3	4943.0	4596.1	4225.2	3805.3	3067.5	2645.8	2446.7
67.5°	5183.8	5201.5	5208.3	5328.2	5111.9	4756.4	4319.9	3429.2	2900.9	2648.7
70°	5179.8	5174.7	5295.6	5634.6	5757.8	5491.9	5013.8	3874.3	3205.0	2816.4
72.5°	4714.8	4673.7	4959.6	5631.2	6295.3	6259.9	5861.1	4448.3	3467.5	2837.0
75°	3537.1	3427.5	3932.5	5074.8	6384.9	6695.9	6399.7	4804.4	3405.3	2506.6
77.5°	1512.6	1402.5	1997.6	3756.8	5714.5	6259.4	5905.6	4191.6	2718.3	1657.6
80°	396.0	395.4	603.7	1703.2	3886.3	4622.3	4055.2	2706.9	1553.1	592.3
82.5°	163.8	159.8	222.0	662.5	1898.9	2593.9	2116.9	1207.4	560.9	160.3
85°	61.1	60.5	107.8	228.8	669.9	1069.9	774.3	308.7	139.8	78.2
87.5°	17.1	16.5	23.4	79.3	163.2	247.6	132.4	50.8	39.4	30.8
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°
1230.2	0°	1230.2	1230.2	1230.2	1230.2	1230.2	1230.2	1230.2	1230.2	1230.2	1230.2
1232.5	2.5°	1234.2	1237.0	1242.2	1246.2	1251.3	1257.0	1265.0	1270.1	1275.3	1278.7
1235.3	5°	1239.3	1245.6	1258.7	1271.8	1287.3	1301.5	1318.1	1330.0	1339.7	1342.6
1245.6	7.5°	1250.7	1261.0	1283.3	1305.5	1330.0	1353.4	1377.4	1397.9	1414.5	1420.8
1263.9	10°	1270.7	1284.4	1315.8	1347.2	1379.7	1415.6	1446.4	1476.1	1499.5	1509.2
1285.5	12.5°	1295.8	1312.9	1354.0	1397.4	1442.5	1492.1	1532.0	1568.6	1597.7	1610.8
1315.8	15°	1328.3	1350.6	1403.1	1461.3	1527.5	1596.5	1647.3	1687.8	1720.3	1736.3
1347.2	17.5°	1363.7	1393.4	1459.6	1547.4	1642.2	1732.9	1792.2	1821.9	1855.6	1871.0
1376.3	20°	1397.9	1434.5	1529.2	1657.0	1783.1	1879.5	1927.5	1935.4	1937.7	1939.4
1403.7	22.5°	1433.3	1482.4	1616.5	1795.1	1930.3	1997.1	2003.9	1969.7	1921.7	1899.5
1430.5	25°	1472.1	1537.2	1730.6	1947.4	2057.0	2065.0	2012.5	1929.2	1838.4	1796.8
1452.2	27.5°	1509.8	1600.5	1867.5	2092.9	2148.3	2078.1	1965.1	1847.0	1737.4	1693.5
1467.6	30°	1547.4	1673.0	2018.7	2220.2	2189.9	2045.6	1890.4	1758.6	1648.4	1602.2
1481.3	32.5°	1585.7	1757.4	2192.8	2312.0	2182.5	1976.5	1797.4	1659.3	1562.3	1513.8
1493.2	35°	1629.0	1861.3	2357.7	2362.2	2132.9	1875.0	1674.7	1540.6	1456.1	1417.3
1507.5	37.5°	1685.5	1993.1	2503.2	2374.8	2046.1	1726.0	1522.3	1400.2	1330.6	1312.9
1528.6	40°	1755.7	2151.7	2614.4	2354.8	1917.8	1545.2	1355.7	1258.2	1218.8	1222.8
1557.1	42.5°	1847.0	2329.1	2692.6	2303.5	1739.2	1358.6	1209.7	1166.3	1185.1	1201.1
1599.9	45°	1965.7	2513.4	2741.1	2216.2	1537.2	1200.5	1123.5	1133.8	1148.0	1149.7
1669.0	47.5°	2117.5	2700.0	2773.1	2084.4	1331.2	1089.3	1068.7	1071.0	1068.1	1056.2
1772.3	50°	2306.9	2881.5	2801.6	1909.8	1156.0	1019.6	992.3	984.3	944.9	906.1
1909.8	52.5°	2522.6	3048.1	2813.6	1692.9	1019.6	961.4	916.9	866.7	793.1	781.1
2082.7	55°	2762.2	3202.2	2782.8	1426.5	905.0	886.7	819.4	758.9	750.9	740.6
2310.3	57.5°	3048.7	3368.2	2720.0	1129.2	787.4	799.4	733.8	740.6	726.4	710.4
2603.0	60°	3361.9	3539.9	2609.9	858.2	665.9	690.4	711.5	711.0	707.0	693.8
2911.7	62.5°	3643.8	3652.9	2393.1	657.3	559.2	606.0	663.6	663.0	659.6	652.2
3234.1	65°	3811.5	3635.8	2031.3	517.5	471.3	536.4	598.5	603.1	603.7	603.1
3476.6	67.5°	3781.9	3435.5	1534.9	412.0	398.8	465.6	534.1	540.3	544.9	546.1
3507.4	70°	3446.4	2995.6	1000.8	328.7	334.4	403.4	473.0	479.3	483.3	487.9
3043.5	72.5°	2686.3	2202.5	572.9	265.9	277.9	349.8	412.5	420.0	422.2	430.8
2118.0	75°	1637.0	1295.2	309.3	209.4	228.2	299.0	352.6	361.2	365.2	375.4
1040.2	77.5°	778.3	560.9	176.3	163.2	183.7	244.2	297.8	307.5	296.7	302.4
287.0	80°	263.0	208.3	111.3	124.4	140.4	190.6	238.5	248.2	225.4	224.2
95.3	82.5°	91.9	84.4	70.8	82.7	90.7	136.4	180.3	192.9	167.8	167.2
42.8	85°	35.9	34.2	39.4	45.1	54.2	83.9	118.7	125.0	103.3	83.3
12.6	87.5°	7.4	8.0	9.7	10.3	16.5	29.1	42.8	52.5	41.7	35.4
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>
1230.2
1276.4
1343.7
1421.3
1509.8
1610.8
1735.2
1870.4
1944.0
1905.8
1803.1
1698.6
1607.4
1520.1
1425.9
1325.5
1236.5
1215.9
1161.2
1065.3
911.2
785.1
742.3
707.5
689.3
649.3
603.1
547.2
490.1
434.2
376.6
297.8
222.0
159.2
82.2
32.5
0.0

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