

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: P946736

Luminaire Tested: **GALN-SB2B-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946736
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-SB2B-750-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12074 lumens
Efficiency: N/A
Efficacy: 163.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

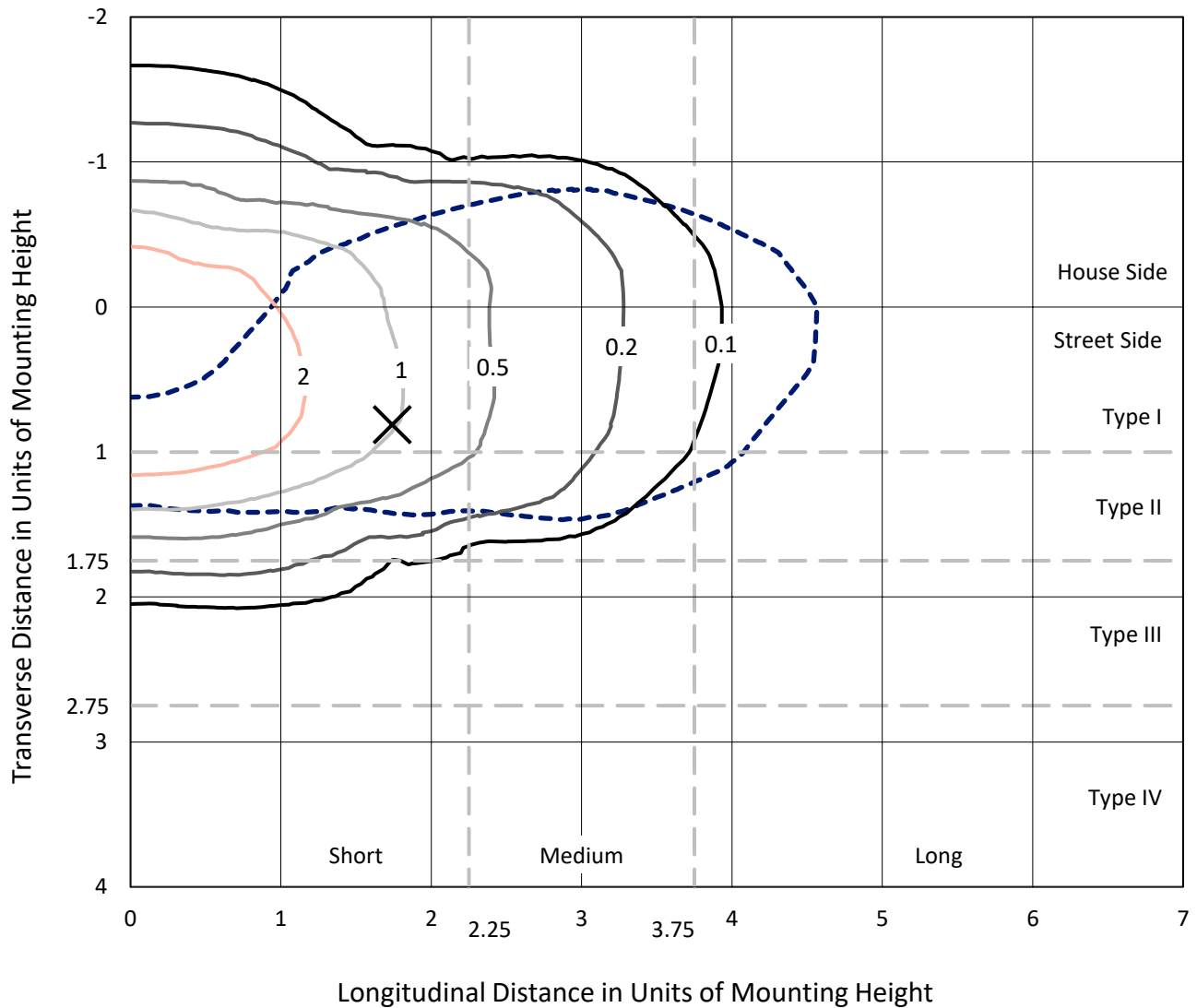
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

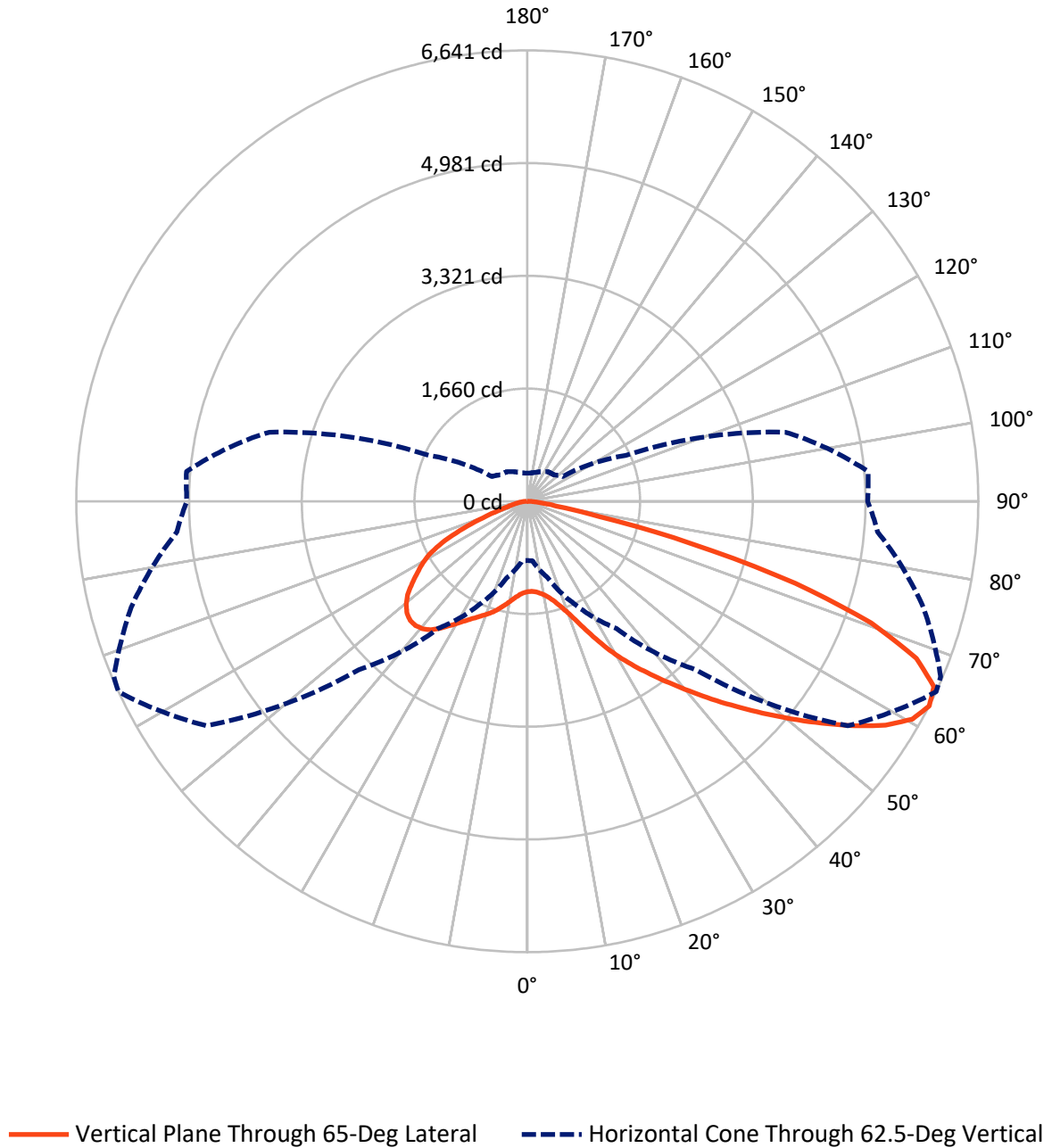
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	3810.0	0.0	3810.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8264.0	0.0	8264.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	12074.0	0.0	12074.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	1.1
10°-20°	449.8	3.7
20°-30°	912.1	7.6
30°-40°	1578.3	13.1
40°-50°	2388.5	19.8
50°-60°	2800.4	23.2
60°-70°	2347.8	19.4
70°-80°	1296.2	10.7
80°-90°	168.4	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°	12074.0	100.0
0°-180°	12074.0	100.0



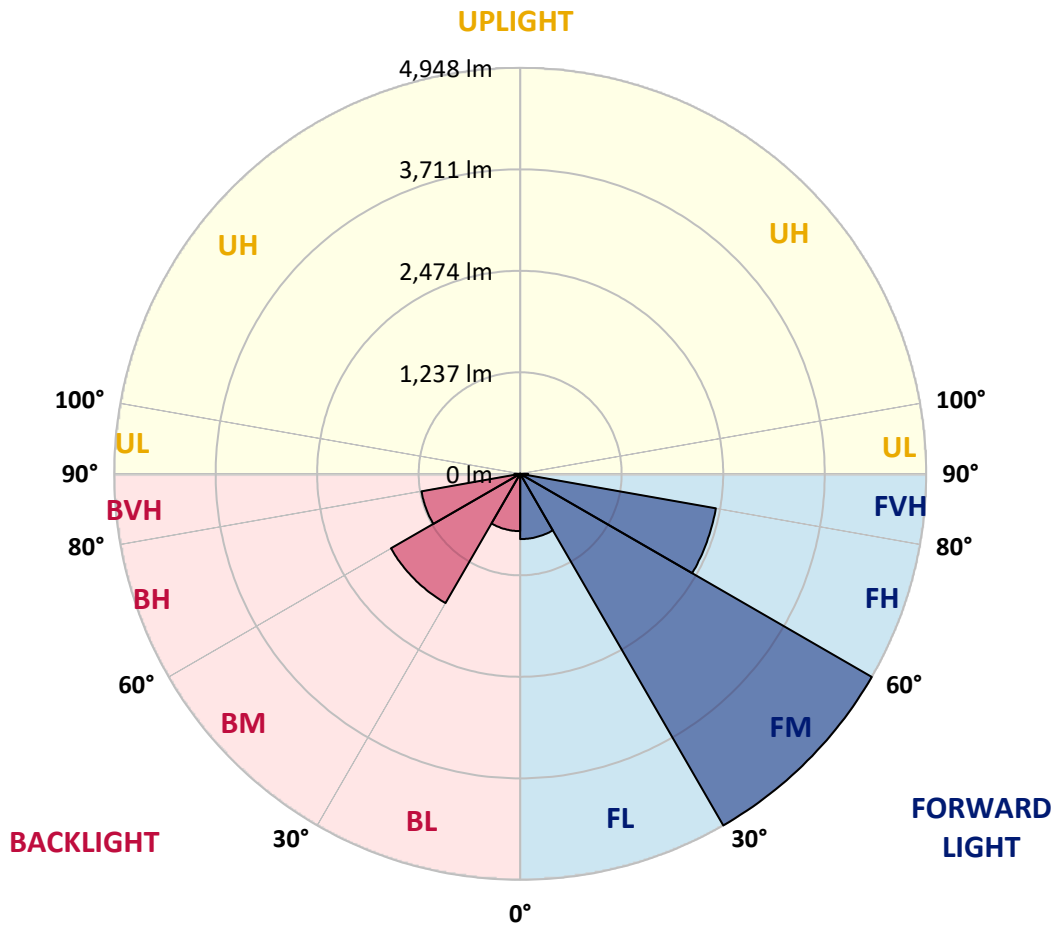
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.8	6.6			
FM (30°-60°)	4948.3	41.0			
FH (60°-80°)	2421.7	20.1			G2/5000
FVH (80°-90°)	98.1	0.8			G1/100
BL (0°-30°)	698.7	5.8	B2/1000		
BM (30°-60°)	1818.9	15.1	B2/2500		
BH (60°-80°)	1222.2	10.1	B3/2500		G3/2500
BVH (80°-90°)	70.2	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°	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5
2.5°	1321.7	1318.0	1321.1	1321.1	1322.4	1321.7	1326.1	1327.4	1329.2	1333.0
5°	1308.6	1308.0	1313.6	1318.6	1323.6	1328.0	1333.6	1341.8	1343.0	1347.4
7.5°	1304.2	1300.4	1309.2	1315.5	1327.4	1338.0	1353.1	1366.8	1372.5	1374.4
10°	1338.0	1331.8	1339.9	1343.7	1353.7	1364.3	1381.9	1403.8	1410.1	1417.6
12.5°	1395.6	1388.8	1400.7	1406.3	1415.7	1425.1	1437.0	1458.3	1461.4	1475.2
15°	1474.6	1466.4	1474.0	1480.8	1496.5	1505.3	1517.2	1537.8	1537.8	1548.5
17.5°	1581.7	1571.0	1576.7	1579.2	1589.2	1602.4	1622.4	1640.6	1650.0	1646.2
20°	1741.4	1728.3	1728.3	1715.7	1712.0	1722.6	1748.9	1774.0	1784.0	1764.6
22.5°	1981.3	1962.6	1951.9	1909.3	1892.4	1893.6	1920.0	1950.7	1958.8	1924.3
25°	2286.4	2257.0	2242.6	2179.9	2141.7	2108.5	2129.2	2168.6	2179.9	2137.3
27.5°	2591.5	2593.4	2579.6	2504.4	2441.1	2380.4	2369.7	2411.1	2423.0	2374.7
30°	3019.3	2974.8	2948.5	2858.3	2768.1	2682.9	2639.1	2656.0	2659.1	2601.5
32.5°	3388.3	3377.0	3320.6	3241.7	3125.8	2992.4	2919.1	2892.2	2887.1	2805.1
35°	3808.6	3802.3	3742.8	3648.9	3523.6	3338.2	3206.0	3128.9	3122.7	3007.4
37.5°	4235.8	4235.8	4177.6	4074.8	3945.2	3713.4	3512.3	3390.2	3370.1	3219.8
40°	4576.6	4555.9	4566.6	4523.3	4374.9	4128.7	3852.4	3675.2	3648.2	3467.8
42.5°	4770.1	4763.2	4827.1	4875.4	4814.6	4617.9	4227.0	3984.0	3946.4	3740.9
45°	4813.4	4805.8	4919.9	5096.5	5181.7	5100.9	4634.2	4309.1	4263.4	4026.6
47.5°	4713.8	4698.7	4866.0	5144.7	5417.9	5560.0	5075.2	4661.8	4595.4	4304.7
50°	4414.3	4399.9	4653.0	5023.2	5497.4	5872.0	5553.8	5035.7	4934.3	4602.9
52.5°	3763.5	3770.4	4166.9	4675.6	5392.8	6066.2	5966.0	5429.8	5307.6	4908.0
55°	2931.6	2946.6	3434.0	3994.0	4974.4	6036.7	6247.2	5835.7	5714.1	5194.8
57.5°	2099.1	2165.5	2622.2	3176.5	4170.7	5570.1	6308.6	6221.5	6103.8	5508.1
60°	1360.6	1372.5	1842.3	2401.0	3175.9	4740.7	6184.0	6514.1	6422.0	5827.5
62.5°	872.0	880.1	1166.4	1679.4	2285.8	3507.3	5764.3	6641.2	6613.0	6038.6
65°	640.8	634.6	783.6	1110.0	1539.7	2163.0	4949.3	6579.8	6635.6	6170.8
67.5°	535.0	526.2	599.5	768.6	1134.4	1228.4	3662.0	6180.8	6385.0	6155.8
70°	487.3	479.8	524.3	570.7	885.1	822.5	1846.0	5373.4	5687.8	5984.8
72.5°	412.8	399.7	460.4	506.8	688.4	630.8	763.0	4127.4	4510.8	5436.6
75°	320.1	311.3	363.3	446.0	517.4	492.4	482.3	2506.3	2924.7	4204.5
77.5°	253.7	241.8	289.4	347.7	465.4	371.5	351.4	1079.3	1494.0	2684.2
80°	191.1	180.4	219.9	275.0	357.7	280.0	227.4	440.4	563.1	1359.9
82.5°	135.9	126.5	153.5	201.7	240.5	251.2	139.7	246.8	277.5	524.3
85°	87.1	81.4	102.7	126.5	152.8	161.6	85.2	129.0	141.6	216.1
87.5°	47.6	38.8	55.1	58.9	70.8	64.5	40.7	47.0	50.7	78.3
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°
1330.5	0°	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5
1333.0	2.5°	1335.5	1337.4	1343.7	1345.5	1349.9	1355.6	1359.3	1363.1	1363.1	1366.8
1353.1	5°	1353.7	1358.1	1371.2	1378.1	1389.4	1400.7	1407.6	1415.7	1420.7	1423.2
1385.0	7.5°	1388.8	1395.6	1414.4	1426.3	1445.8	1461.4	1472.1	1483.3	1485.9	1492.7
1429.5	10°	1436.4	1444.5	1465.8	1488.4	1511.5	1531.0	1541.0	1549.1	1552.3	1553.5
1486.5	12.5°	1490.9	1502.8	1530.3	1557.9	1582.3	1599.2	1601.7	1599.9	1591.1	1583.6
1556.6	15°	1557.9	1568.5	1599.2	1629.3	1653.1	1656.2	1640.6	1630.6	1619.9	1618.0
1634.9	17.5°	1638.1	1643.7	1671.9	1701.3	1703.2	1692.6	1669.4	1660.0	1650.0	1643.1
1737.0	20°	1731.4	1729.5	1749.6	1762.1	1748.9	1716.4	1681.3	1665.6	1655.6	1647.5
1862.3	22.5°	1842.9	1828.5	1826.0	1822.9	1787.8	1719.5	1671.9	1651.9	1636.2	1624.9
2037.1	25°	2005.1	1950.0	1911.8	1890.5	1811.6	1702.6	1641.8	1597.4	1567.9	1548.5
2250.7	27.5°	2208.1	2115.4	2018.9	1966.9	1811.6	1668.1	1569.2	1497.1	1448.9	1428.8
2457.4	30°	2401.7	2304.6	2162.4	2059.0	1807.2	1611.8	1452.0	1351.8	1295.4	1275.4
2634.1	32.5°	2567.0	2461.2	2314.6	2159.9	1796.6	1520.3	1306.7	1195.8	1141.3	1117.5
2808.8	35°	2720.5	2607.8	2467.4	2270.7	1768.4	1386.3	1147.0	1062.4	1001.6	963.4
2986.7	37.5°	2877.7	2743.7	2612.1	2371.0	1717.6	1229.6	1024.2	952.1	880.7	829.4
3175.9	40°	3048.8	2888.4	2766.9	2430.5	1634.3	1080.6	929.0	863.2	787.4	732.9
3393.9	42.5°	3248.6	3061.9	2939.1	2461.2	1520.3	974.7	867.0	802.4	731.0	686.5
3627.6	45°	3457.2	3253.0	3096.4	2460.6	1393.1	925.2	846.9	783.0	704.1	657.7
3867.5	47.5°	3675.8	3452.8	3232.3	2420.5	1282.9	932.1	835.6	741.0	654.0	608.9
4109.9	50°	3895.0	3671.4	3363.8	2345.3	1235.9	917.1	793.7	682.2	579.4	538.7
4337.3	52.5°	4112.4	3903.8	3477.2	2238.2	1188.3	861.3	739.8	605.7	548.7	520.5
4572.2	55°	4331.0	4133.7	3600.6	2082.2	1069.3	796.2	649.6	576.9	524.3	498.6
4802.1	57.5°	4550.3	4399.3	3717.8	1926.2	919.6	716.0	600.1	541.8	499.9	478.0
4994.4	60°	4778.3	4703.1	3838.7	1782.8	771.7	613.3	563.8	513.7	471.1	446.6
5179.2	62.5°	5013.2	5037.6	3933.3	1598.0	635.8	550.6	531.2	479.8	438.5	415.3
5332.0	65°	5250.0	5360.2	3995.3	1341.8	515.5	491.1	496.1	442.9	400.9	380.9
5444.2	67.5°	5428.5	5592.6	3977.7	1015.4	422.8	434.7	452.3	404.0	364.6	348.9
5426.0	70°	5448.5	5565.1	3804.8	695.3	353.9	379.6	403.4	365.8	325.1	313.8
5170.4	72.5°	5181.7	5189.2	3323.1	454.1	299.4	333.3	352.0	327.0	287.5	276.2
4523.3	75°	4482.0	4291.6	2439.9	299.4	250.6	286.3	303.8	286.3	248.1	250.6
3384.5	77.5°	3395.8	3039.4	1481.5	213.0	209.2	240.5	264.3	251.8	219.2	246.2
1702.0	80°	1749.6	1644.3	660.9	159.1	165.4	192.3	217.4	201.1	173.5	165.4
380.2	82.5°	400.9	466.1	260.6	114.0	119.6	138.4	166.0	151.0	124.7	105.2
158.5	85°	140.3	153.5	115.3	71.4	70.2	86.4	112.8	100.9	84.6	67.7
67.0	87.5°	44.5	58.3	43.2	28.8	30.1	38.8	52.0	47.6	39.5	25.7
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>
1330.5
1366.8
1424.5
1490.2
1550.4
1583.6
1618.0
1643.7
1648.1
1628.7
1556.0
1438.9
1287.3
1129.4
976.0
843.2
743.6
695.3
665.3
615.1
541.2
520.5
496.1
474.2
444.8
414.7
380.2
349.5
314.5
275.6
241.8
216.7
151.0
104.0
71.4
26.9
0.0

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