

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: P940917

Luminaire Tested: **GALN-SB4A-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12515 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

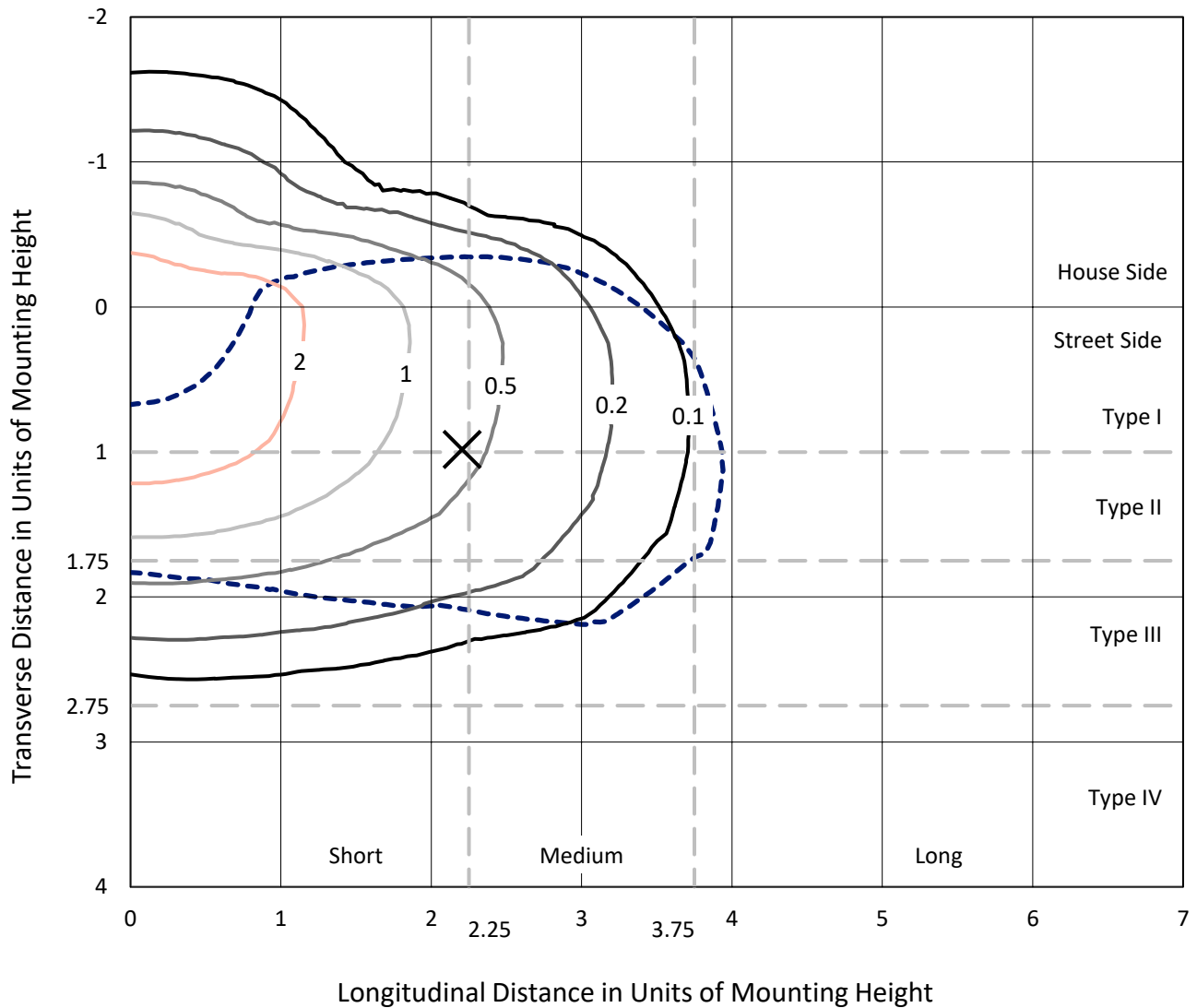
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

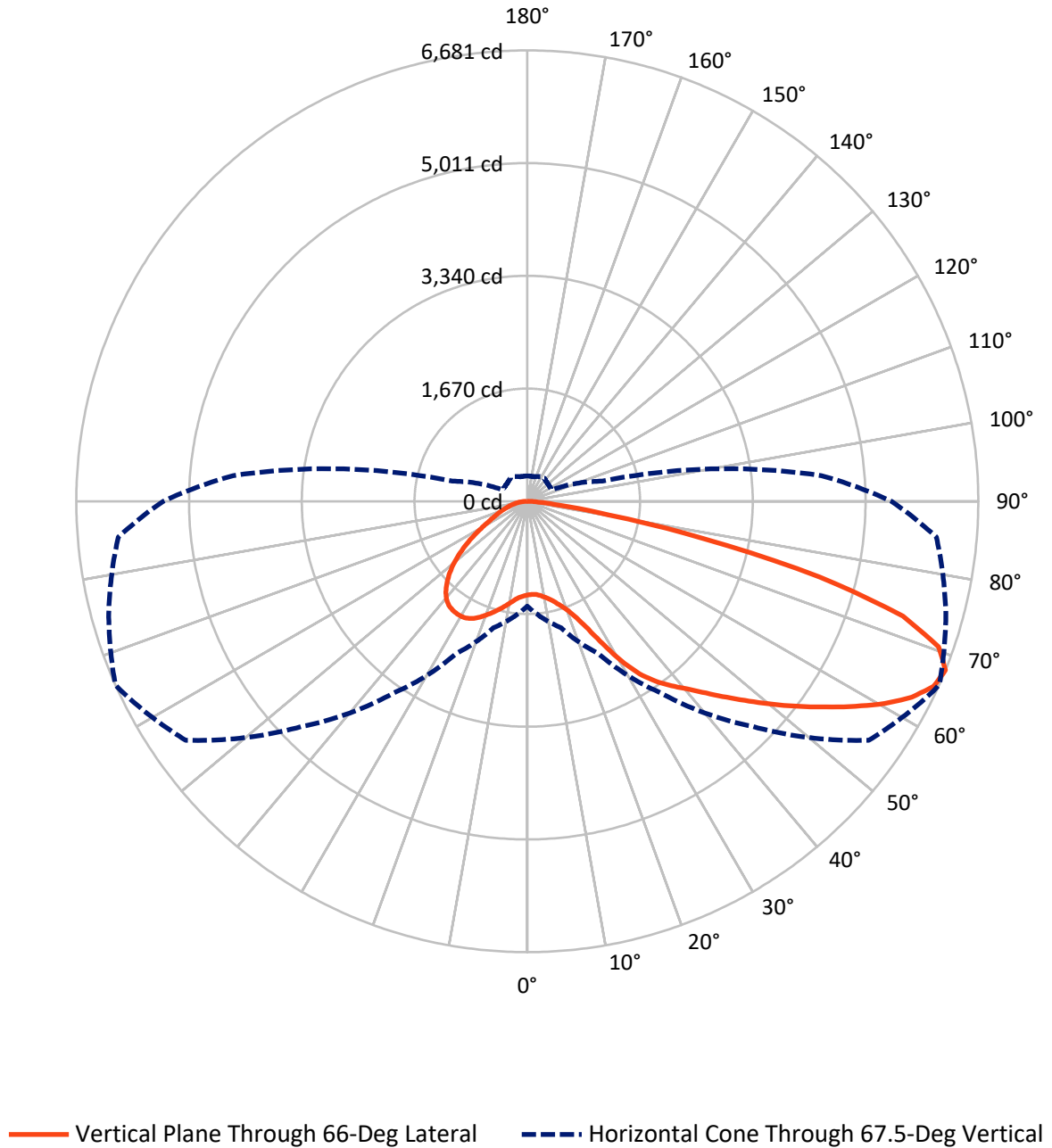
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3111.8	0.0	3111.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	9403.2	0.0	9403.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	12515.0	0.0	12515.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.1
10°-20°	454.7	3.6
20°-30°	876.4	7.0
30°-40°	1536.6	12.3
40°-50°	2284.5	18.3
50°-60°	2895.8	23.1
60°-70°	2833.4	22.6
70°-80°	1351.6	10.8
80°-90°	144.4	1.2
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°	12515.0	100.0
0°-180°	12515.0	100.0

Coefficient of Utilization



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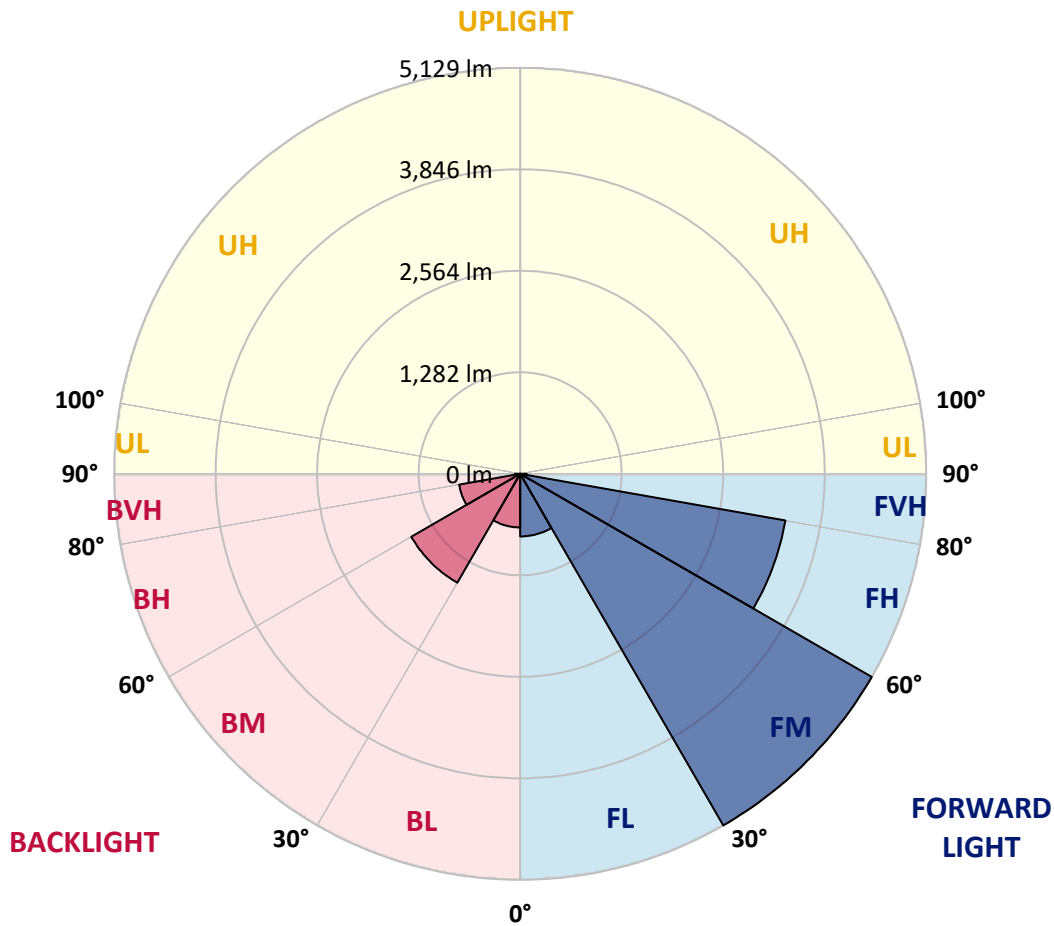
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	790.8	6.3			
FM (30°-60°)	5128.5	41.0			
FH (60°-80°)	3401.9	27.2			G2/5000
FVH (80°-90°)	81.9	0.7			G1/100
BL (0°-30°)	677.9	5.4	B2/1000		
BM (30°-60°)	1588.3	12.7	B2/2500		
BH (60°-80°)	783.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	62.6	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1
2.5°	1373.6	1381.5	1379.5	1376.2	1375.6	1376.9	1378.9	1380.8	1380.2	1383.5
5°	1369.7	1377.6	1376.9	1376.9	1379.5	1384.8	1388.1	1391.4	1388.1	1392.0
7.5°	1372.3	1378.2	1380.8	1383.5	1390.1	1399.9	1407.8	1415.0	1411.1	1415.7
10°	1405.8	1410.4	1413.1	1413.1	1417.7	1428.8	1436.7	1449.9	1446.6	1453.8
12.5°	1467.0	1471.6	1471.6	1469.0	1472.2	1479.5	1482.1	1496.6	1490.7	1502.5
15°	1541.9	1551.2	1543.9	1539.3	1540.6	1547.9	1547.2	1558.4	1552.5	1562.3
17.5°	1624.8	1636.6	1624.8	1624.1	1621.5	1629.4	1630.1	1639.9	1629.4	1636.6
20°	1722.8	1739.2	1729.3	1732.6	1726.7	1730.0	1733.3	1747.8	1731.3	1736.6
22.5°	1860.9	1880.6	1870.1	1882.6	1878.6	1876.0	1875.3	1901.0	1875.3	1877.3
25°	2062.1	2085.7	2067.3	2084.4	2084.4	2093.0	2102.8	2135.7	2093.0	2080.5
27.5°	2359.3	2382.9	2346.8	2357.3	2354.0	2375.1	2364.5	2446.1	2400.0	2379.7
30°	2717.0	2759.1	2690.7	2688.0	2684.8	2718.3	2733.4	2787.3	2740.7	2720.3
32.5°	3103.6	3147.7	3066.1	3042.5	3030.0	3050.4	3037.9	3081.3	3049.0	3017.5
35°	3512.6	3556.0	3478.4	3432.4	3382.4	3339.7	3295.0	3306.1	3275.9	3227.9
37.5°	3899.2	3978.8	3896.6	3847.3	3755.2	3671.7	3546.8	3494.9	3466.6	3422.5
40°	4293.1	4338.5	4276.0	4233.9	4134.0	4003.1	3803.2	3693.4	3655.3	3612.6
42.5°	4583.1	4626.5	4593.0	4564.0	4485.8	4333.9	4075.5	3938.0	3882.8	3834.8
45°	4813.2	4845.5	4824.4	4834.9	4801.4	4654.1	4357.6	4200.4	4143.2	4084.7
47.5°	4905.9	4940.1	4973.7	5036.1	5093.3	4984.9	4660.7	4484.5	4424.0	4364.1
50°	4895.4	4930.3	5027.6	5160.4	5338.0	5301.8	4980.3	4786.9	4731.0	4662.7
52.5°	4811.3	4850.7	4975.6	5196.6	5479.3	5539.2	5305.7	5099.3	5046.7	4965.1
55°	4590.3	4614.0	4801.4	5114.4	5512.9	5704.9	5624.6	5432.0	5379.4	5265.6
57.5°	4180.7	4214.9	4487.7	4892.8	5428.7	5817.3	5904.8	5781.8	5731.2	5567.4
60°	3646.1	3700.7	4013.0	4520.6	5214.3	5816.6	6159.2	6125.7	6083.6	5864.6
62.5°	3041.1	3104.3	3404.8	3994.6	4839.5	5651.6	6318.4	6413.7	6392.0	6138.8
65°	2335.6	2379.0	2678.2	3314.0	4256.3	5297.2	6336.8	6610.3	6614.3	6347.3
67.5°	1555.1	1680.0	1939.8	2486.8	3475.1	4717.9	6175.0	6642.5	6680.7	6419.0
70°	758.8	923.2	1177.7	1616.2	2486.8	3829.5	5752.2	6378.2	6463.0	6209.9
72.5°	315.0	368.2	507.0	797.6	1427.5	2584.2	4902.7	5661.5	5818.6	5502.3
75°	212.4	230.1	290.0	409.0	650.3	1274.3	3535.6	4221.4	4474.6	4155.7
77.5°	163.7	174.9	211.1	286.0	386.6	482.0	1892.4	2544.0	2674.9	2476.3
80°	128.9	137.4	157.8	208.4	274.2	257.8	645.1	1152.7	1228.3	1030.4
82.5°	111.8	115.1	113.1	141.4	182.1	150.6	211.7	425.4	469.5	340.6
85°	80.9	90.1	94.0	87.5	96.7	76.3	86.8	150.6	165.7	147.9
87.5°	32.9	48.7	59.8	56.5	35.5	21.7	27.0	44.1	50.6	55.2
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°
1388.1	0°	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1
1388.7	2.5°	1389.4	1394.0	1397.3	1401.2	1403.9	1407.8	1415.7	1420.3	1421.0	1424.2
1399.3	5°	1401.9	1408.5	1415.7	1426.2	1438.1	1447.9	1463.0	1473.6	1477.5	1480.8
1424.9	7.5°	1428.8	1438.1	1451.2	1469.6	1486.7	1499.9	1518.3	1530.8	1543.3	1547.9
1465.7	10°	1469.0	1482.1	1501.2	1526.2	1544.6	1561.7	1580.7	1591.3	1603.8	1609.0
1514.3	12.5°	1518.9	1532.7	1557.7	1592.6	1609.7	1621.5	1628.1	1625.5	1628.1	1632.7
1572.8	15°	1576.1	1591.3	1619.5	1657.0	1668.9	1658.3	1643.9	1630.7	1628.7	1630.1
1643.9	17.5°	1643.9	1655.0	1687.9	1719.5	1710.9	1667.5	1636.0	1614.9	1604.4	1601.1
1734.6	20°	1738.6	1738.6	1765.5	1785.2	1728.0	1654.4	1605.1	1570.9	1549.2	1540.0
1858.2	22.5°	1853.6	1843.1	1860.2	1846.4	1724.7	1617.6	1549.2	1490.0	1457.1	1444.0
2031.2	25°	1999.6	1987.1	1982.5	1897.0	1701.1	1559.0	1447.9	1376.2	1347.3	1340.1
2280.4	27.5°	2219.9	2188.3	2128.5	1924.6	1657.7	1467.0	1329.6	1263.1	1246.7	1247.4
2600.6	30°	2513.1	2450.0	2303.4	1929.2	1586.7	1336.8	1208.6	1161.2	1153.3	1156.6
2869.5	32.5°	2784.7	2724.9	2482.2	1908.2	1477.5	1209.2	1100.1	1068.5	1056.7	1060.6
3074.7	35°	2997.8	2981.3	2647.9	1878.6	1343.4	1089.6	1002.8	975.8	952.8	947.5
3268.0	37.5°	3199.0	3192.4	2772.2	1837.2	1210.5	1004.7	924.5	889.0	855.5	837.1
3481.7	40°	3419.9	3413.3	2853.7	1773.4	1092.8	931.1	854.2	807.5	766.0	732.5
3723.7	42.5°	3668.4	3629.7	2892.5	1682.0	992.9	868.6	796.9	733.8	679.2	648.3
3997.2	45°	3940.0	3852.6	2891.9	1565.6	908.7	811.4	735.8	646.4	595.7	566.8
4278.0	47.5°	4228.0	4065.6	2856.4	1436.7	827.2	748.3	641.1	572.7	539.2	521.4
4583.1	50°	4525.2	4264.8	2795.9	1288.8	743.7	676.6	581.9	535.2	509.6	493.2
4885.6	52.5°	4804.7	4445.7	2722.9	1121.1	658.9	606.9	555.6	519.5	492.5	474.1
5178.8	55°	5064.4	4601.5	2619.7	949.5	589.8	560.2	543.1	512.9	482.0	460.3
5476.7	57.5°	5295.2	4702.8	2441.5	788.4	540.5	528.0	530.0	501.7	466.2	447.8
5770.0	60°	5487.2	4777.1	2177.8	639.1	500.4	496.4	509.6	480.7	439.2	418.2
6017.9	62.5°	5602.3	4775.8	1854.3	523.4	466.2	467.5	482.6	454.4	412.3	392.6
6147.4	65°	5592.4	4658.7	1499.2	447.8	433.3	434.6	454.4	425.4	389.9	378.1
6082.3	67.5°	5394.5	4373.3	1150.0	398.5	397.2	403.1	426.1	405.7	376.1	374.8
5694.3	70°	4858.6	3780.9	828.5	359.0	359.7	368.2	398.5	393.2	368.9	371.5
4787.6	72.5°	3896.0	2882.7	556.3	317.6	318.3	332.1	372.2	383.3	361.7	396.5
3396.9	75°	2594.7	1797.7	357.7	273.5	274.2	292.0	349.2	364.3	341.9	395.2
1767.5	77.5°	1246.7	808.1	259.1	230.1	230.1	246.6	301.8	326.1	291.3	307.1
568.1	80°	430.7	303.8	203.8	185.4	181.5	192.7	254.5	282.7	251.2	231.5
185.4	82.5°	169.6	157.8	163.7	144.0	130.9	138.1	197.9	233.4	184.8	167.0
104.5	85°	97.3	102.6	115.7	95.3	75.6	84.8	145.3	167.7	139.4	123.0
34.2	87.5°	26.3	36.2	53.3	49.3	34.2	36.2	69.0	92.7	80.2	61.8
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>
1388.1
1423.6
1480.1
1548.5
1611.6
1634.0
1634.7
1605.7
1538.0
1442.0
1341.4
1249.3
1167.8
1065.9
951.5
837.7
735.8
650.3
565.5
517.5
487.2
466.2
451.7
436.0
409.0
386.6
377.4
376.8
370.9
401.8
398.5
281.4
217.0
166.4
125.6
63.8
0.0

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