

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: P941598

Luminaire Tested: **GALN-SB5A-950-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-950-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11935 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

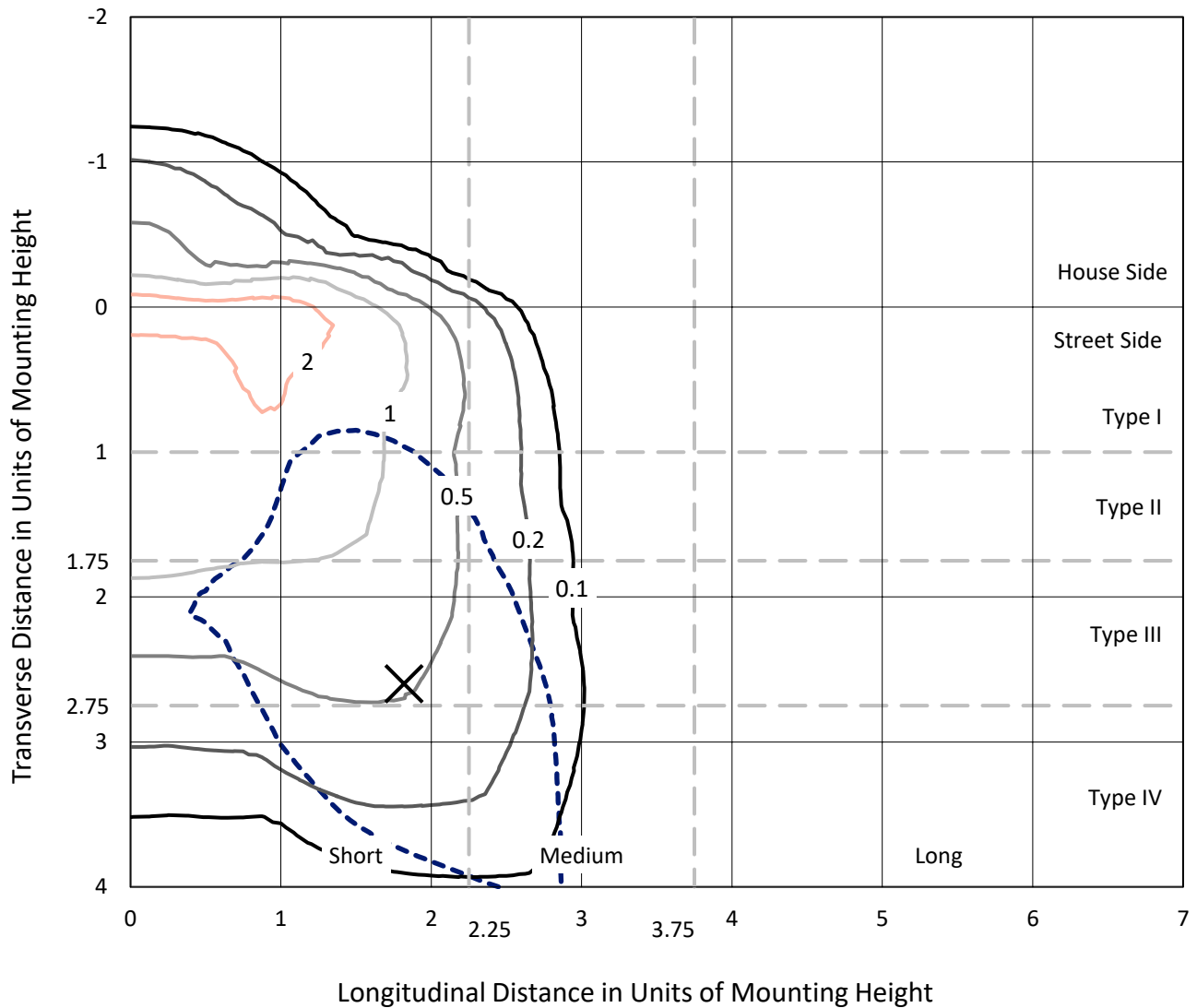
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

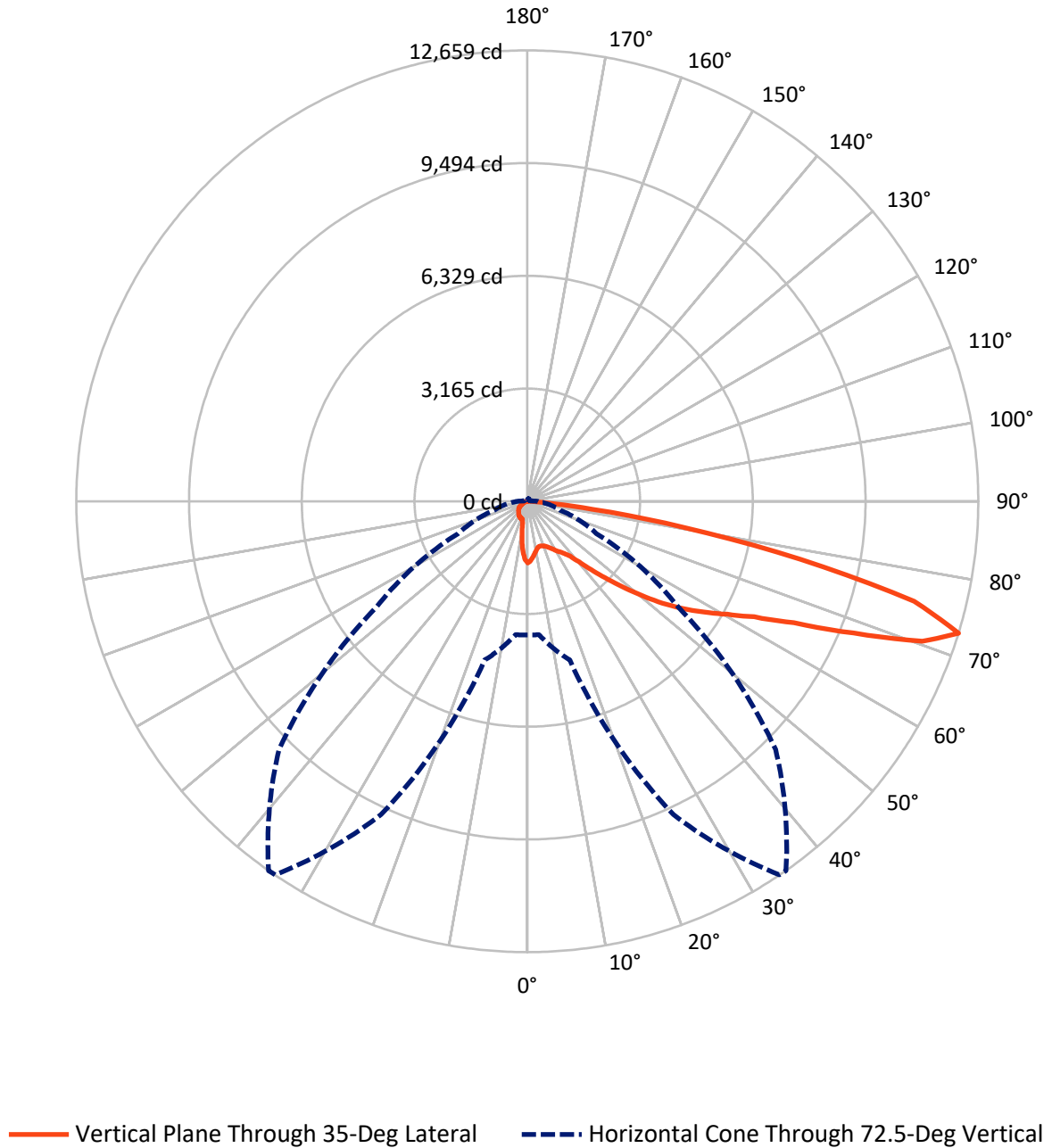
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1343.2	0.0	1343.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	10591.8	0.0	10591.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	11935.0	0.0	11935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	1.2
10°-20°	332.5	2.8
20°-30°	540.2	4.5
30°-40°	901.3	7.6
40°-50°	1705.2	14.3
50°-60°	2709.6	22.7
60°-70°	3352.0	28.1
70°-80°	2083.6	17.5
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°	11935.0	100.0
0°-180°	11935.0	100.0

Coefficient of Utilization



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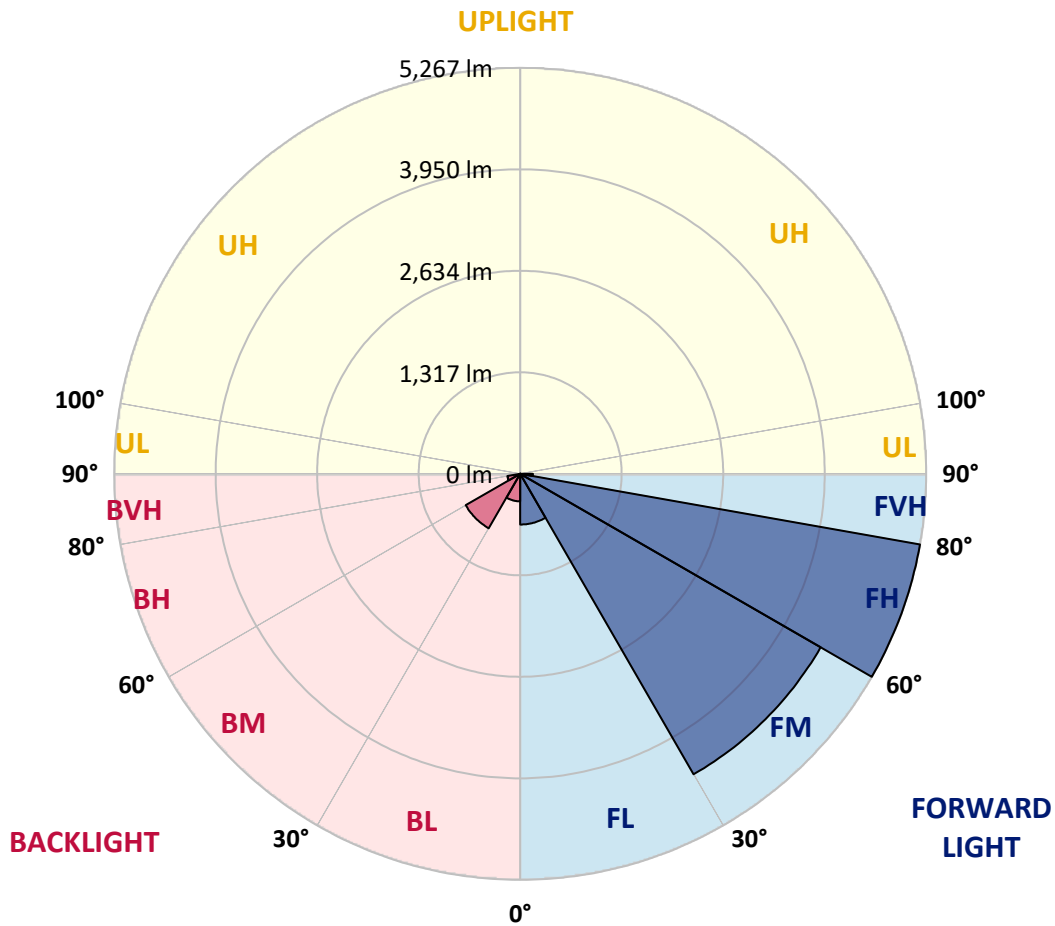
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.9	5.5			
FM (30°-60°)	4500.7	37.7			
FH (60°-80°)	5267.1	44.1			G3/7500
FVH (80°-90°)	166.1	1.4			G2/225
BL (0°-30°)	356.9	3.0	B1/500		
BM (30°-60°)	815.5	6.8	B1/1000		
BH (60°-80°)	168.6	1.4	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8
2.5°	1652.8	1666.8	1669.4	1673.8	1673.8	1679.1	1687.8	1700.0	1720.2	1730.7
5°	1523.4	1533.9	1547.0	1557.5	1577.6	1580.2	1614.3	1647.6	1693.9	1728.9
7.5°	1393.1	1405.3	1422.8	1448.2	1474.4	1482.3	1533.9	1589.9	1663.3	1728.9
10°	1301.3	1302.1	1317.9	1343.2	1385.2	1394.8	1457.8	1537.4	1629.2	1718.4
12.5°	1249.7	1255.8	1262.8	1282.0	1322.3	1328.4	1395.7	1489.3	1595.1	1712.3
15°	1249.7	1254.0	1258.4	1268.0	1300.4	1305.6	1365.1	1458.7	1577.6	1714.9
17.5°	1262.8	1269.8	1266.3	1277.7	1311.8	1315.3	1367.7	1449.9	1576.7	1731.5
20°	1294.3	1299.5	1292.5	1299.5	1333.6	1340.6	1394.8	1466.6	1591.6	1760.4
22.5°	1344.1	1346.7	1330.1	1335.4	1370.4	1379.1	1442.1	1513.8	1627.5	1806.7
25°	1407.1	1412.3	1387.0	1393.1	1426.3	1436.8	1509.4	1584.6	1684.3	1870.6
27.5°	1479.7	1482.3	1460.4	1459.6	1502.4	1517.3	1590.7	1672.1	1760.4	1951.0
30°	1562.8	1570.6	1549.6	1546.1	1600.4	1612.6	1685.2	1779.6	1872.3	2071.7
32.5°	1628.3	1634.5	1622.2	1631.0	1686.1	1695.7	1799.7	1931.8	2048.1	2243.1
35°	1722.8	1726.3	1698.3	1714.0	1777.0	1801.5	1956.3	2145.2	2269.4	2458.2
37.5°	2064.7	2064.7	1945.8	1868.0	1928.3	1950.2	2170.5	2413.6	2542.2	2746.8
40°	2537.8	2530.0	2355.9	2196.8	2188.9	2231.8	2475.7	2752.1	2894.6	3093.1
42.5°	3042.4	3030.2	2793.2	2635.8	2609.5	2624.4	2828.2	3169.2	3314.4	3515.5
45°	3490.2	3486.7	3269.8	3058.2	3010.9	3058.2	3268.0	3657.2	3761.3	3972.9
47.5°	3865.3	3865.3	3707.0	3568.9	3544.4	3572.4	3863.6	4198.5	4188.9	4460.0
50°	4297.3	4293.8	4143.4	4084.0	4109.3	4148.7	4549.2	4768.7	4631.4	4938.4
52.5°	4599.9	4620.9	4569.3	4559.7	4689.1	4757.3	5245.3	5326.6	5027.6	5392.2
55°	4839.5	4864.0	4923.5	4990.8	5240.1	5329.3	5919.6	5855.7	5359.0	5785.8
57.5°	5178.9	5143.9	5235.7	5368.6	5771.8	5879.3	6572.8	6355.1	5625.7	6105.0
60°	5590.7	5596.0	5611.7	5779.6	6302.6	6440.8	7216.5	6827.3	5797.1	6300.8
62.5°	6085.7	6093.6	6125.9	6383.9	7015.3	7145.6	7902.1	7213.8	5875.8	6245.8
65°	6051.6	6084.8	6446.0	7328.4	8098.8	8227.4	8702.3	7484.9	5756.9	5742.0
67.5°	5512.9	5567.1	6171.4	8456.5	9732.4	9875.8	9669.5	7538.3	5243.6	4465.3
70°	4806.3	4825.5	5552.3	9470.9	11624.0	11769.2	10535.2	6951.5	3979.0	2490.6
72.5°	3753.4	3757.8	4610.4	9706.2	12650.7	12658.5	9855.7	5160.5	2139.9	956.7
75°	2681.2	2655.0	3087.9	7871.5	11129.9	11219.1	7388.7	2420.6	817.7	452.1
77.5°	1437.7	1466.6	1747.3	4668.1	7688.7	7840.9	4031.5	697.9	416.3	307.8
80°	444.3	468.7	716.2	2137.3	4355.1	4446.9	1494.5	310.5	290.3	219.5
82.5°	139.9	145.2	334.1	898.1	1807.6	1849.6	432.9	175.8	198.5	145.2
85°	40.2	41.1	148.7	334.9	446.9	455.6	121.6	68.2	113.7	90.1
87.5°	4.4	14.0	56.0	56.0	39.4	38.5	13.1	14.9	32.4	11.4
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°
1729.8	0°	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8
1737.7	2.5°	1733.3	1734.2	1722.8	1703.5	1682.6	1665.1	1643.2	1625.7	1613.5	1610.0
1753.4	5°	1745.5	1739.4	1707.0	1648.5	1578.5	1518.2	1450.8	1397.5	1362.5	1347.6
1770.0	7.5°	1763.9	1746.4	1675.6	1560.1	1426.3	1307.4	1186.7	1093.1	1033.7	1003.9
1785.8	10°	1779.6	1744.6	1623.1	1432.4	1227.8	1047.7	885.0	772.2	709.2	679.5
1804.1	12.5°	1794.5	1743.8	1554.9	1281.2	1003.9	783.6	632.3	576.3	558.8	552.7
1833.8	15°	1822.5	1746.4	1469.2	1108.0	780.9	592.0	536.9	536.1	539.6	537.8
1879.3	17.5°	1861.0	1749.0	1372.1	924.4	602.5	522.1	519.5	527.3	532.6	530.0
1936.2	20°	1910.8	1759.5	1268.9	742.5	517.7	504.6	510.7	517.7	522.1	517.7
2012.2	22.5°	1980.8	1777.9	1156.1	596.4	490.6	494.1	499.3	507.2	511.6	505.5
2109.3	25°	2066.5	1806.7	1045.0	518.6	477.5	481.9	489.7	498.5	503.7	497.6
2231.8	27.5°	2177.5	1853.1	942.7	501.1	464.4	467.0	478.4	491.5	498.5	490.6
2405.8	30°	2338.4	1929.2	854.4	509.0	456.5	450.4	466.1	484.5	492.3	485.4
2642.8	32.5°	2551.8	2036.7	800.2	521.2	453.0	431.1	446.0	469.6	482.7	478.4
2952.3	35°	2831.7	2200.3	779.2	535.2	450.4	411.0	421.5	446.9	469.6	474.0
3342.4	37.5°	3171.0	2427.6	785.3	541.3	442.5	394.4	399.7	421.5	451.2	465.2
3781.4	40°	3556.6	2692.6	820.3	535.2	433.8	380.4	381.3	397.9	424.1	445.1
4253.6	42.5°	3954.5	3002.2	885.0	512.5	425.9	368.2	365.5	376.9	394.4	409.3
4725.0	45°	4333.2	3320.5	948.8	481.0	416.3	355.9	349.8	354.2	357.7	363.8
5184.1	47.5°	4663.8	3544.4	930.5	452.1	403.1	341.9	331.4	329.7	319.2	318.3
5594.2	50°	4892.0	3593.4	826.4	423.3	383.9	326.2	309.6	299.1	280.7	272.0
5901.2	52.5°	4964.6	3400.1	675.1	394.4	352.4	305.2	281.6	265.0	242.2	234.4
6077.8	55°	4868.4	3021.4	539.6	359.4	308.7	277.2	251.0	229.1	210.8	201.1
6097.1	57.5°	4633.2	2539.6	426.8	318.3	262.4	245.7	219.5	197.6	181.9	172.3
5883.7	60°	4243.1	2016.6	337.6	269.3	223.9	211.6	184.5	170.5	156.5	145.2
5332.8	62.5°	3651.1	1439.4	265.0	213.4	187.1	173.2	157.4	146.9	130.3	114.6
4341.9	65°	2849.2	880.6	204.6	156.5	150.4	143.4	133.8	124.2	104.1	88.3
2832.5	67.5°	1797.1	417.1	146.0	118.1	118.9	115.4	111.1	103.2	88.3	74.3
1268.9	70°	791.4	202.0	96.2	90.1	88.3	88.3	91.8	89.2	75.2	62.1
440.8	72.5°	269.3	108.4	71.7	68.2	63.8	63.0	77.0	74.3	60.3	48.1
219.5	75°	140.8	72.6	52.5	49.0	38.5	46.3	61.2	57.7	42.9	31.5
145.2	77.5°	91.8	51.6	35.9	31.5	21.9	30.6	45.5	40.2	25.4	15.7
95.3	80°	57.7	34.1	21.0	14.9	10.5	16.6	24.5	17.5	9.6	3.5
56.0	82.5°	30.6	17.5	7.9	5.2	4.4	5.2	6.1	4.4	1.7	0.0
28.9	85°	12.2	6.1	2.6	1.7	0.9	0.0	1.7	0.9	0.0	0.0
5.2	87.5°	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1729.8
1616.1
1352.9
1008.3
680.4
550.9
536.9
529.1
516.8
504.6
496.7
490.6
484.5
478.4
474.0
468.7
452.1
415.4
367.3
317.4
272.8
233.5
201.1
170.5
142.5
111.9
85.7
72.6
59.5
45.5
28.9
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