

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: P949469

Luminaire Tested: **GALN-SB4A-950-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9634 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

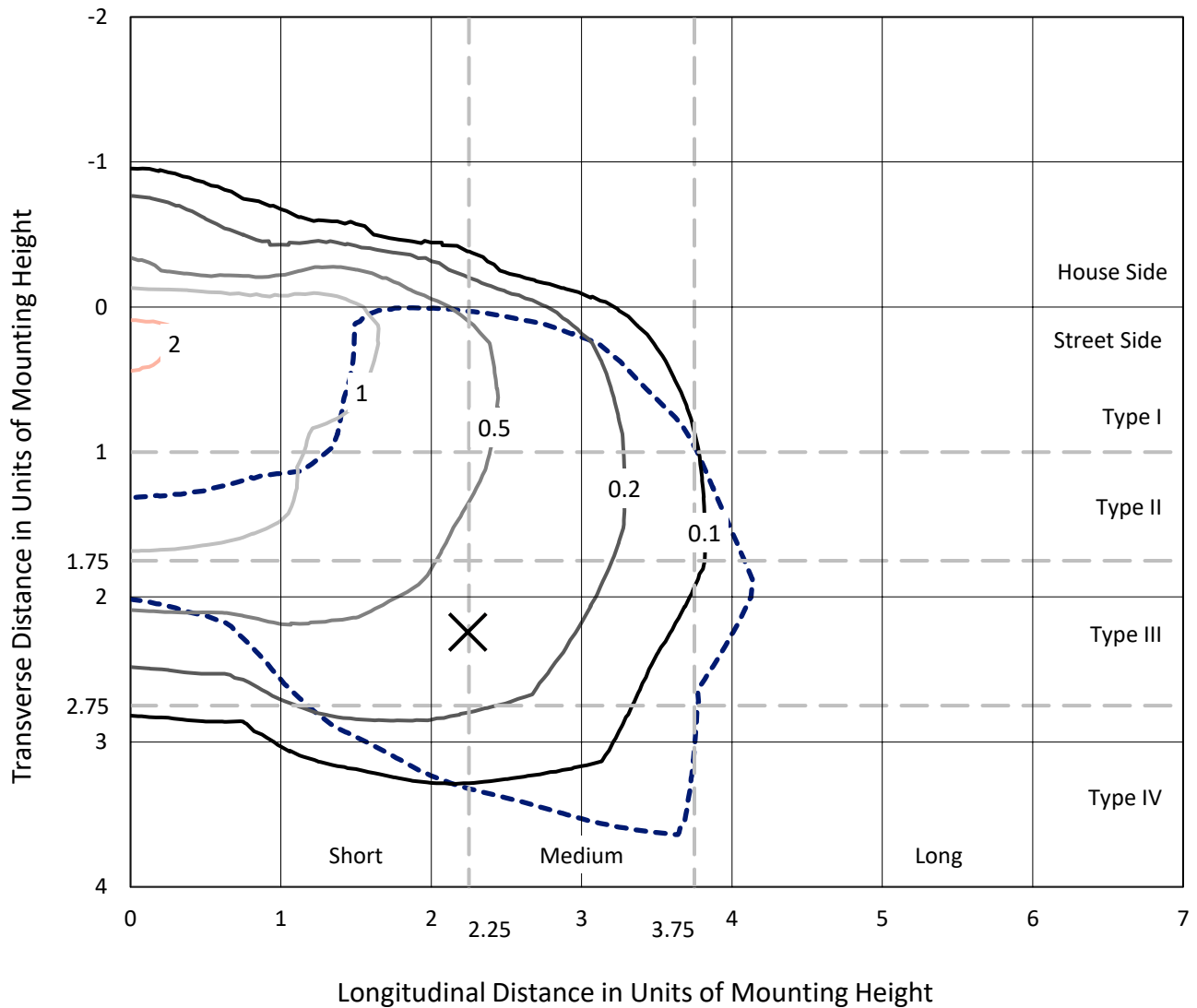
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

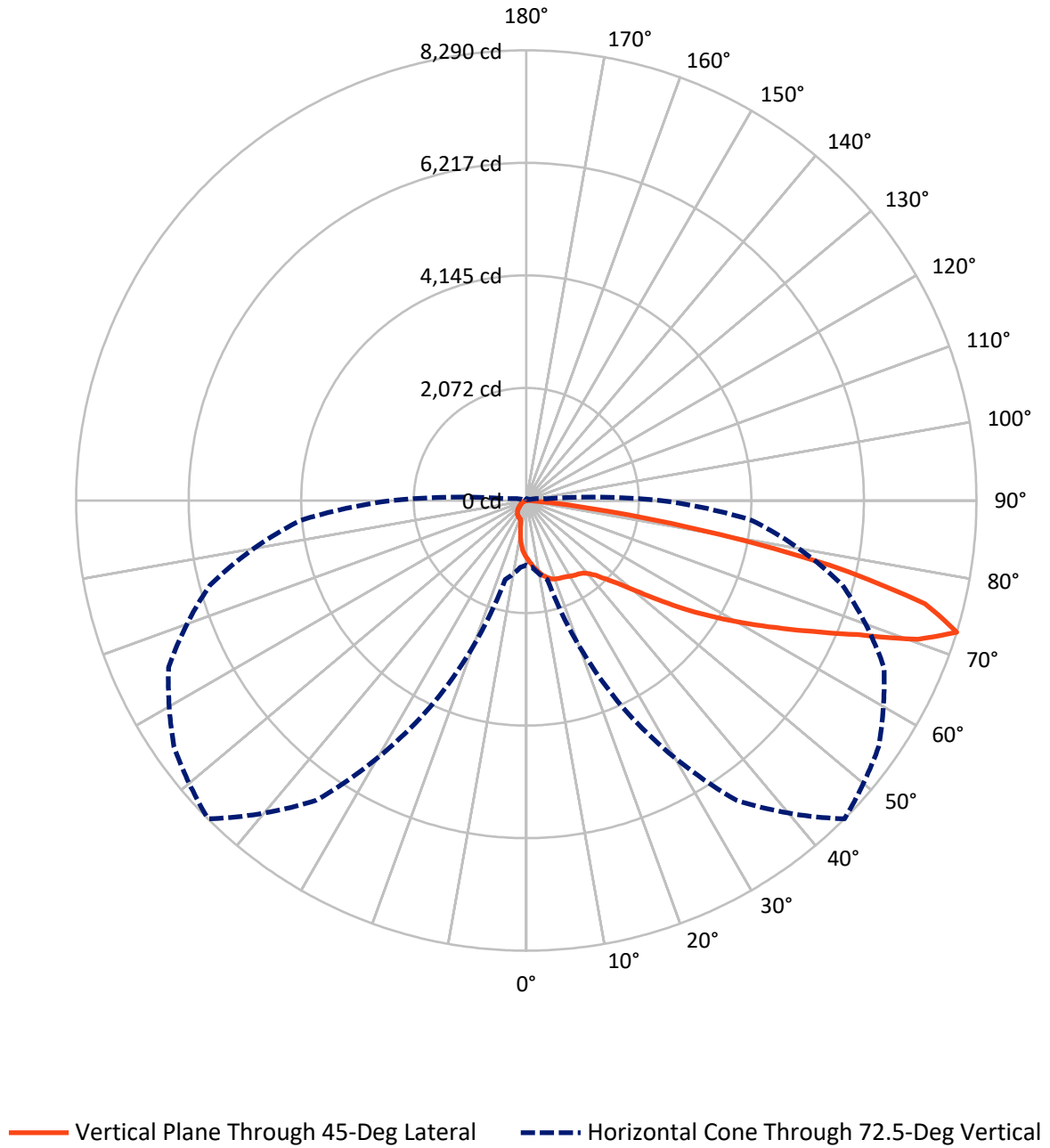
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	1012.3	0.0	1012.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	8621.7	0.0	8621.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	9634.0	0.0	9634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	1.0
10°-20°	290.6	3.0
20°-30°	477.3	5.0
30°-40°	676.9	7.0
40°-50°	1118.8	11.6
50°-60°	2009.8	20.9
60°-70°	2790.7	29.0
70°-80°	2024.3	21.0
80°-90°	146.4	1.5
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°	9634.0	100.0
0°-180°	9634.0	100.0

Coefficient of Utilization



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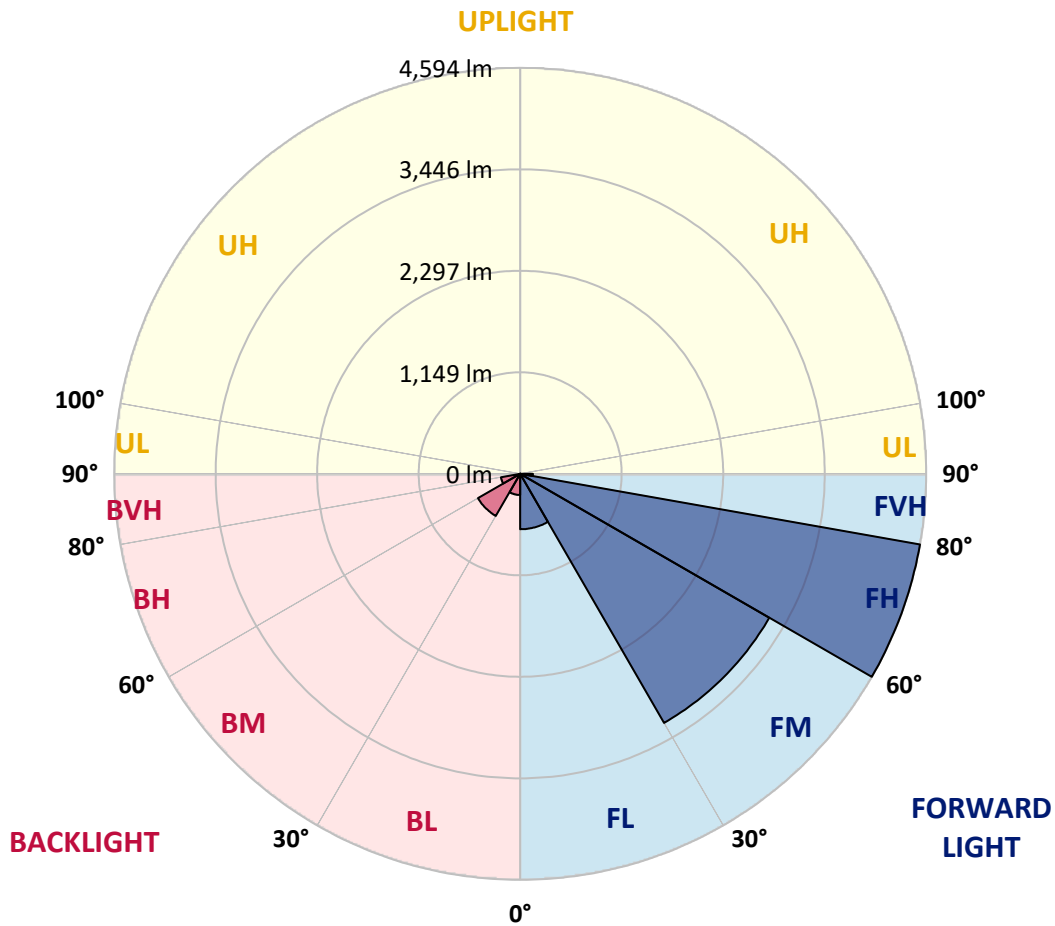
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.6	6.5			
FM (30°-60°)	3254.9	33.8			
FH (60°-80°)	4594.2	47.7			G2/5000
FVH (80°-90°)	145.1	1.5			G2/225
BL (0°-30°)	239.8	2.5	B1/500		
BM (30°-60°)	550.5	5.7	B1/1000		
BH (60°-80°)	220.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.2	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4
2.5°	1152.7	1154.7	1153.4	1145.5	1132.4	1125.1	1121.2	1108.0	1099.5	1084.4
5°	1258.6	1266.5	1261.9	1246.1	1221.1	1203.4	1198.1	1171.2	1146.8	1118.6
7.5°	1371.1	1375.0	1366.5	1346.1	1312.5	1282.3	1277.7	1240.2	1201.4	1158.0
10°	1468.4	1473.0	1459.8	1430.2	1392.1	1354.6	1348.1	1306.6	1260.6	1207.3
12.5°	1549.9	1554.5	1537.4	1501.9	1459.8	1421.0	1414.5	1371.1	1320.4	1261.2
15°	1611.7	1620.3	1597.3	1559.1	1513.8	1475.0	1471.7	1428.9	1379.6	1313.9
17.5°	1647.9	1656.5	1634.8	1588.7	1549.9	1517.1	1513.1	1477.6	1431.6	1368.4
20°	1653.8	1661.7	1638.7	1598.6	1566.4	1540.1	1538.1	1512.4	1478.9	1418.4
22.5°	1636.1	1645.9	1624.9	1592.7	1570.3	1556.5	1553.9	1539.4	1520.3	1469.0
25°	1617.7	1625.6	1609.8	1581.5	1569.7	1568.3	1570.3	1567.7	1563.7	1520.3
27.5°	1616.3	1624.9	1607.1	1580.2	1573.6	1587.4	1589.4	1601.9	1605.2	1567.0
30°	1627.5	1633.4	1616.3	1588.1	1584.8	1616.3	1617.0	1639.4	1644.6	1606.5
32.5°	1651.9	1658.4	1641.3	1599.9	1595.3	1639.4	1641.3	1670.9	1679.5	1648.6
35°	1709.1	1717.0	1697.2	1632.8	1616.3	1661.1	1667.0	1701.8	1718.9	1693.3
37.5°	1851.8	1828.7	1801.8	1699.2	1664.3	1695.3	1705.1	1745.9	1776.1	1746.5
40°	2206.2	2133.9	2049.7	1812.3	1748.5	1768.2	1776.1	1816.9	1858.3	1829.4
42.5°	2738.2	2652.7	2517.2	2072.7	1875.4	1885.3	1891.2	1926.7	1985.3	1962.2
45°	3212.3	3181.4	3043.3	2517.2	2112.8	2064.2	2071.4	2089.8	2176.0	2167.4
47.5°	3576.6	3558.9	3452.3	3027.5	2514.0	2283.1	2303.5	2312.1	2436.4	2466.6
50°	3856.7	3850.2	3754.8	3481.3	3038.0	2606.0	2613.2	2594.8	2780.9	2855.9
52.5°	4121.1	4143.4	4073.1	3902.8	3597.7	3028.8	3027.5	2940.7	3191.9	3305.0
55°	4359.8	4367.7	4374.9	4332.8	4160.5	3510.2	3497.7	3355.7	3668.7	3785.7
57.5°	4584.0	4587.3	4651.8	4737.9	4746.5	4027.1	4004.0	3833.7	4189.5	4273.0
60°	4734.6	4749.7	4885.9	5125.2	5229.8	4560.4	4547.9	4374.3	4719.5	4758.3
62.5°	4517.6	4609.7	4952.9	5427.7	5686.1	5151.5	5145.6	4982.5	5277.1	5245.6
65°	3656.8	3812.7	4416.3	5632.2	6134.0	5811.7	5820.3	5646.7	5849.9	5747.3
67.5°	2558.0	2722.4	3436.5	5648.7	6634.4	6587.0	6636.4	6364.1	6458.2	6228.0
70°	1768.9	1853.7	2318.6	5294.9	7024.3	7655.0	7653.6	7245.3	7063.1	6447.0
72.5°	1189.6	1233.6	1505.9	4200.7	6737.6	8289.5	8251.4	7918.6	7267.0	6029.4
75°	501.7	534.0	697.0	2360.7	5330.4	7583.9	7480.7	6998.0	6456.8	4747.8
77.5°	159.1	172.9	274.9	845.0	2936.1	5700.6	5591.5	4370.3	4327.6	2381.8
80°	75.6	88.1	154.5	339.3	1155.4	3100.5	3085.4	1982.6	1861.6	643.1
82.5°	32.9	38.8	85.5	181.5	516.9	1106.1	1128.4	674.7	558.3	244.0
85°	10.5	13.8	39.5	83.5	218.3	274.9	271.6	160.5	224.9	132.8
87.5°	0.0	0.0	13.2	19.1	22.4	15.8	17.8	13.8	62.5	36.8
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°
1055.4	0°	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4
1068.6	2.5°	1060.7	1050.2	1031.8	1014.7	999.5	984.4	975.2	962.0	960.7	960.7
1085.7	5°	1067.9	1050.8	1017.9	983.1	943.0	904.8	866.7	829.9	818.0	809.5
1113.3	7.5°	1089.0	1062.0	1010.1	943.6	867.4	783.8	725.3	662.2	637.9	624.7
1150.1	10°	1119.2	1082.4	1003.5	887.1	763.5	649.7	566.2	497.8	471.5	460.3
1190.2	12.5°	1152.7	1107.4	991.6	816.7	649.7	513.6	432.0	400.5	396.5	396.5
1238.2	15°	1192.9	1137.6	971.3	733.9	530.7	406.4	377.5	378.8	382.7	385.3
1284.9	17.5°	1234.3	1169.8	939.0	641.1	425.5	365.6	366.3	368.2	371.5	374.2
1335.6	20°	1279.0	1202.1	896.3	542.5	365.0	353.8	355.8	357.7	360.4	361.7
1382.9	22.5°	1327.0	1232.3	845.7	445.8	344.6	343.9	344.6	346.5	349.8	349.8
1438.1	25°	1378.3	1265.9	787.8	375.5	334.1	334.1	335.4	336.7	339.3	339.3
1491.4	27.5°	1430.9	1296.8	726.6	338.7	324.8	324.2	324.2	326.2	327.5	328.1
1544.0	30°	1488.8	1332.9	665.5	330.8	317.6	314.3	312.4	313.7	315.0	315.6
1599.2	32.5°	1548.0	1367.8	610.9	334.1	310.4	304.5	297.9	296.6	296.6	299.2
1656.5	35°	1613.7	1405.9	568.8	345.2	306.4	290.0	279.5	273.6	274.2	278.2
1724.8	37.5°	1692.6	1451.9	537.9	355.1	303.8	273.6	256.5	249.2	244.6	249.2
1818.9	40°	1795.9	1519.7	515.5	363.0	300.5	254.5	231.5	219.6	211.1	213.7
1964.9	42.5°	1947.8	1626.2	507.0	363.6	293.3	232.1	205.8	190.0	177.5	178.2
2184.5	45°	2160.8	1794.6	551.1	355.1	277.5	207.8	178.9	157.8	149.9	148.0
2512.6	47.5°	2452.8	2039.8	653.0	337.3	254.5	184.1	152.6	134.8	128.9	125.6
2943.4	50°	2844.1	2354.8	766.1	317.6	231.5	161.8	130.9	119.7	115.7	112.4
3454.3	52.5°	3297.8	2674.4	858.8	297.9	208.5	142.0	117.1	110.5	107.2	104.6
3947.5	55°	3714.0	2894.7	853.5	276.8	186.1	126.3	107.2	103.2	99.3	96.7
4372.3	57.5°	3973.1	2925.6	703.6	253.8	160.5	113.8	98.0	95.3	90.7	87.5
4739.9	60°	4092.2	2749.4	493.2	223.6	134.8	101.9	88.1	86.8	80.9	76.3
5087.7	62.5°	4113.9	2421.9	328.8	186.1	112.4	90.7	78.3	76.3	68.4	60.5
5370.5	65°	4025.7	1953.7	227.5	145.3	96.0	78.9	67.1	63.1	54.6	46.7
5437.6	67.5°	3746.9	1371.7	158.5	104.6	81.5	62.5	53.3	51.9	45.4	38.8
5095.6	70°	3236.0	781.9	105.9	78.3	64.4	42.7	42.1	43.4	36.8	31.6
4163.2	72.5°	2481.1	357.7	65.8	57.2	44.1	28.9	33.5	34.2	28.3	23.7
2597.5	75°	1460.5	153.2	41.4	36.8	22.4	19.1	24.3	25.0	19.1	15.1
949.6	77.5°	497.1	57.9	26.3	21.7	11.2	10.5	15.8	15.8	10.5	5.9
190.7	80°	113.1	21.7	13.2	8.5	5.3	4.6	5.3	4.6	2.6	0.7
58.5	82.5°	32.2	8.5	5.3	3.3	2.0	2.0	0.7	0.0	0.0	0.0
20.4	85°	9.2	3.9	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
7.2	87.5°	3.9	0.7	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>
1055.4
964.0
813.4
626.7
460.3
396.5
385.3
374.2
362.3
351.2
340.0
328.8
317.0
301.2
280.1
247.9
212.4
175.6
145.3
123.6
111.8
103.9
95.3
86.8
75.0
56.6
44.1
36.8
28.9
<i>21.0</i>
13.2
4.6
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