

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: P941088

Luminaire Tested: **GALN-SB4B-950-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941088
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-SB4B-950-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 450mA 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: 11887 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

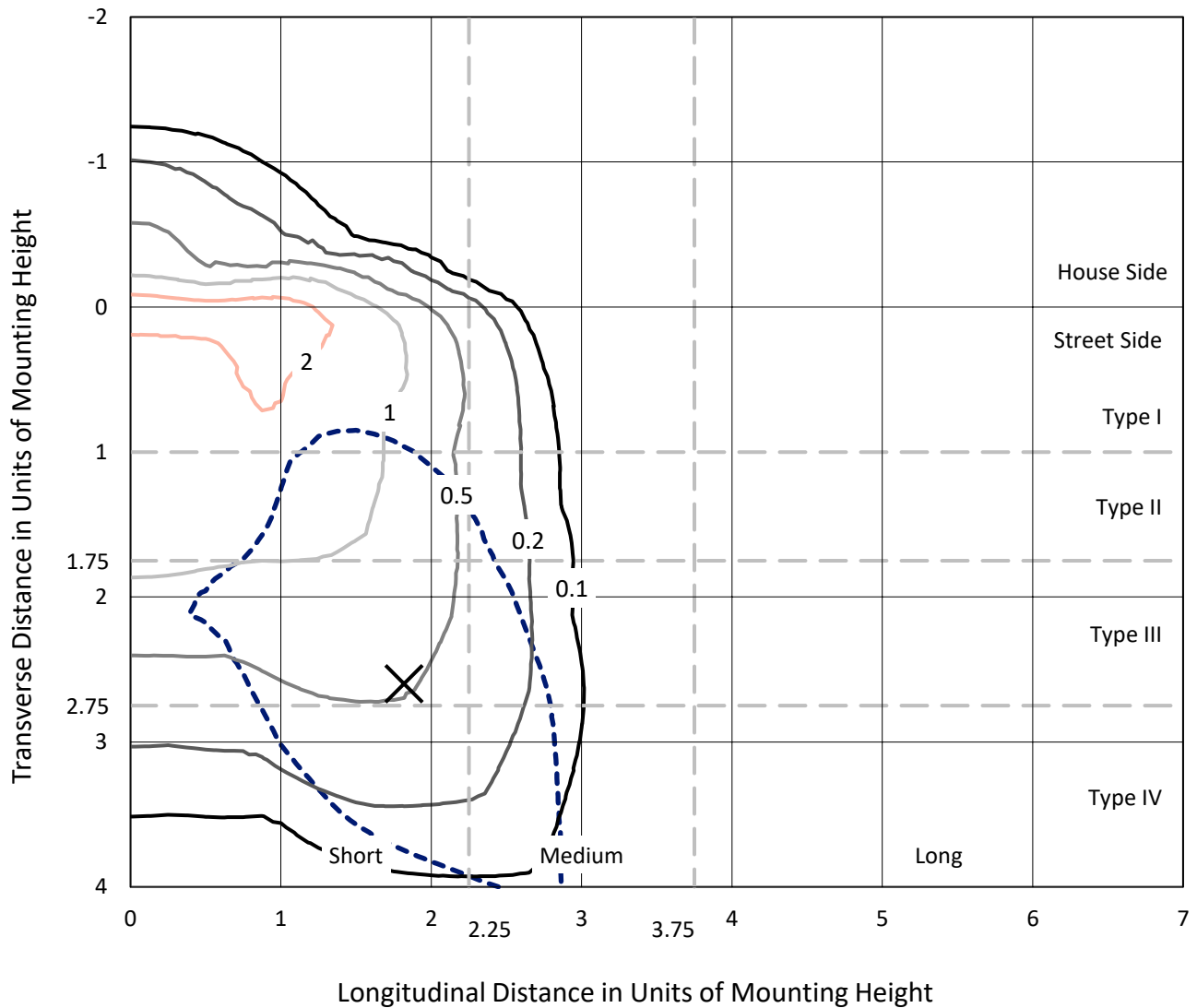
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

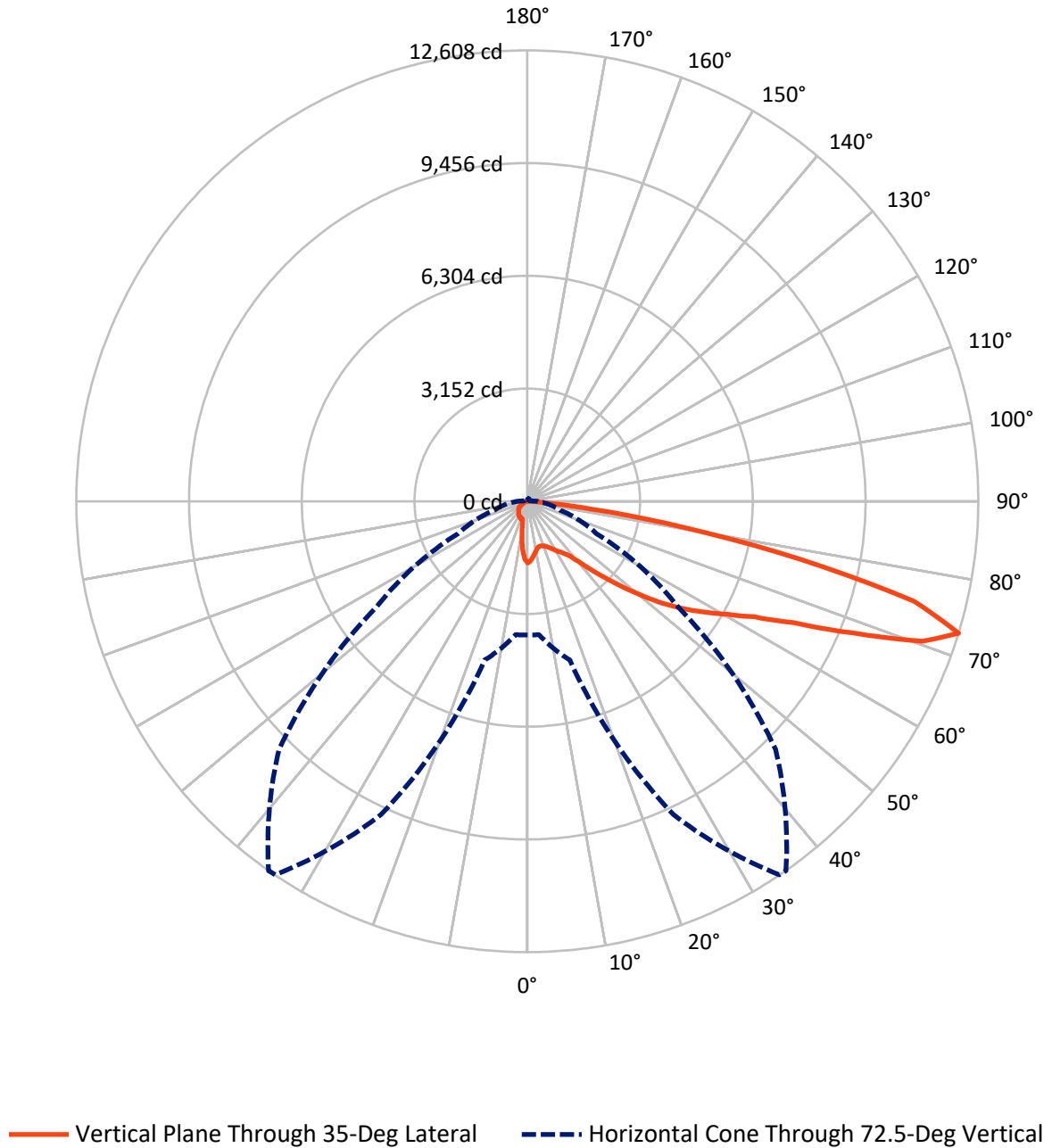
× Max cd
 - - - 1/2 Max cd



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	1337.8	0.0	1337.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	10549.2	0.0	10549.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	11887.0	0.0	11887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	1.2
10°-20°	331.2	2.8
20°-30°	538.0	4.5
30°-40°	897.7	7.6
40°-50°	1698.4	14.3
50°-60°	2698.7	22.7
60°-70°	3338.5	28.1
70°-80°	2075.2	17.5
80°-90°	167.7	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°	11887.0	100.0
0°-180°	11887.0	100.0

Coefficient of Utilization



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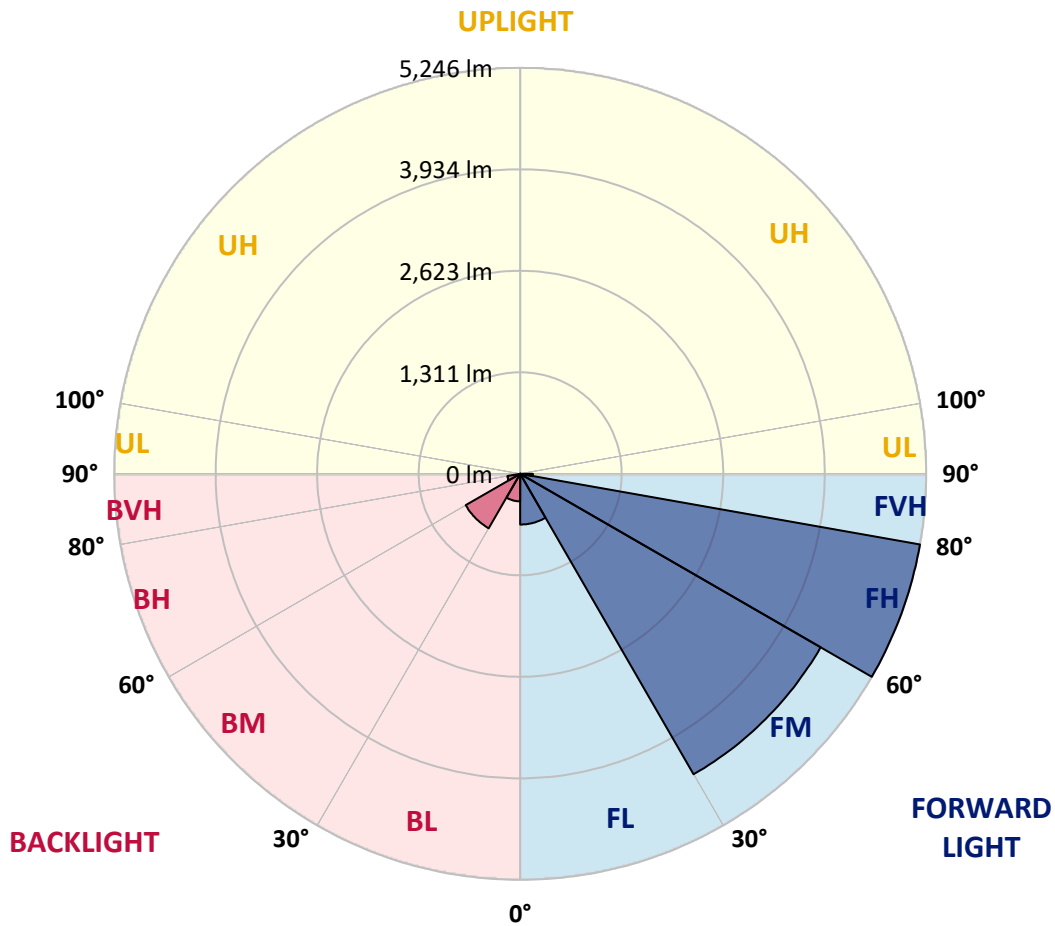
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.3	5.5			
FM (30°-60°)	4482.6	37.7			
FH (60°-80°)	5245.9	44.1			G3/7500
FVH (80°-90°)	165.4	1.4			G2/225
BL (0°-30°)	355.5	3.0	B1/500		
BM (30°-60°)	812.2	6.8	B1/1000		
BH (60°-80°)	167.9	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°	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8
2.5°	1646.2	1660.1	1662.7	1667.1	1667.1	1672.3	1681.0	1693.2	1713.2	1723.7
5°	1517.3	1527.7	1540.8	1551.2	1571.3	1573.9	1607.9	1641.0	1687.1	1722.0
7.5°	1387.5	1399.7	1417.1	1442.4	1468.5	1476.3	1527.7	1583.5	1656.6	1722.0
10°	1296.0	1296.9	1312.6	1337.8	1379.7	1389.2	1451.9	1531.2	1622.7	1711.5
12.5°	1244.6	1250.7	1257.7	1276.9	1316.9	1323.0	1390.1	1483.3	1588.7	1705.4
15°	1244.6	1249.0	1253.4	1262.9	1295.2	1300.4	1359.6	1452.8	1571.3	1708.0
17.5°	1257.7	1264.7	1261.2	1272.5	1306.5	1310.0	1362.2	1444.1	1570.4	1724.6
20°	1289.1	1294.3	1287.3	1294.3	1328.3	1335.2	1389.2	1460.7	1585.2	1753.3
22.5°	1338.7	1341.3	1324.8	1330.0	1364.8	1373.6	1436.3	1507.7	1620.9	1799.5
25°	1401.4	1406.7	1381.4	1387.5	1420.6	1431.0	1503.3	1578.2	1677.5	1863.1
27.5°	1473.7	1476.3	1454.6	1453.7	1496.4	1511.2	1584.3	1665.3	1753.3	1943.2
30°	1556.5	1564.3	1543.4	1539.9	1593.9	1606.1	1678.4	1772.5	1864.8	2063.4
32.5°	1621.8	1627.9	1615.7	1624.4	1679.3	1688.9	1792.5	1924.0	2039.9	2234.1
35°	1715.9	1719.3	1691.5	1707.1	1769.9	1794.2	1948.4	2136.5	2260.2	2448.4
37.5°	2056.4	2056.4	1938.0	1860.4	1920.5	1942.3	2161.8	2403.9	2532.0	2735.8
40°	2527.6	2519.8	2346.5	2187.9	2180.1	2222.8	2465.8	2741.0	2883.0	3080.7
42.5°	3030.2	3018.0	2782.0	2625.2	2599.0	2613.9	2816.8	3156.5	3301.1	3501.4
45°	3476.1	3472.7	3256.6	3045.9	2998.8	3045.9	3254.9	3642.5	3746.1	3956.9
47.5°	3849.8	3849.8	3692.1	3554.5	3530.1	3558.0	3848.0	4181.6	4172.1	4442.1
50°	4280.1	4276.6	4126.8	4067.5	4092.8	4132.0	4530.9	4749.5	4612.8	4918.5
52.5°	4581.4	4602.3	4550.9	4541.4	4670.3	4738.2	5224.2	5305.2	5007.3	5370.5
55°	4820.1	4844.5	4903.7	4970.8	5219.0	5307.8	5895.8	5832.2	5337.4	5762.5
57.5°	5158.0	5123.2	5214.6	5347.0	5748.6	5855.7	6546.4	6329.5	5603.1	6080.4
60°	5568.3	5573.5	5589.2	5756.4	6277.2	6414.9	7187.4	6799.8	5773.8	6275.5
62.5°	6061.2	6069.1	6101.3	6358.3	6987.1	7116.9	7870.3	7184.8	5852.2	6220.6
65°	6027.3	6060.4	6420.1	7298.9	8066.3	8194.3	8667.3	7454.8	5733.7	5718.9
67.5°	5490.7	5544.7	6146.6	8422.5	9693.3	9836.1	9630.6	7508.0	5222.5	4447.3
70°	4787.0	4806.1	5529.9	9432.9	11577.2	11721.8	10492.9	6923.5	3963.0	2480.6
72.5°	3738.3	3742.7	4591.9	9667.2	12599.8	12607.6	9816.1	5139.7	2131.3	952.9
75°	2670.5	2644.3	3075.5	7839.8	11085.1	11174.0	7359.0	2410.9	814.4	450.3
77.5°	1431.9	1460.7	1740.2	4649.4	7657.8	7809.3	4015.3	695.1	414.6	306.6
80°	442.5	466.9	713.3	2128.7	4337.5	4429.0	1488.5	309.2	289.2	218.6
82.5°	139.4	144.6	332.7	894.5	1800.3	1842.2	431.1	175.1	197.7	144.6
85°	40.1	40.9	148.1	333.6	445.1	453.8	121.1	67.9	113.2	89.7
87.5°	4.4	13.9	55.7	55.7	39.2	38.3	13.1	14.8	32.2	11.3
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°
1722.8	0°	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8	1722.8
1730.7	2.5°	1726.3	1727.2	1715.9	1696.7	1675.8	1658.4	1636.6	1619.2	1607.0	1603.5
1746.3	5°	1738.5	1732.4	1700.2	1641.8	1572.1	1512.0	1445.0	1391.8	1357.0	1342.2
1762.9	7.5°	1756.8	1739.4	1668.8	1553.9	1420.6	1302.1	1181.9	1088.7	1029.5	999.9
1778.6	10°	1772.5	1737.6	1616.6	1426.7	1222.9	1043.5	881.4	769.1	706.4	676.8
1796.9	12.5°	1787.3	1736.8	1548.6	1276.0	999.9	780.4	629.7	574.0	556.6	550.5
1826.5	15°	1815.2	1739.4	1463.3	1103.5	777.8	589.7	534.8	533.9	537.4	535.7
1871.8	17.5°	1853.5	1742.0	1366.6	920.6	600.1	520.0	517.4	525.2	530.4	527.8
1928.4	20°	1903.1	1752.4	1263.8	739.5	515.6	502.6	508.7	515.6	520.0	515.6
2004.2	22.5°	1972.8	1770.7	1151.5	594.0	488.6	492.1	497.3	505.2	509.5	503.4
2100.8	25°	2058.2	1799.5	1040.8	516.5	475.6	479.9	487.8	496.5	501.7	495.6
2222.8	27.5°	2168.8	1845.6	938.9	499.1	462.5	465.1	476.4	489.5	496.5	488.6
2396.1	30°	2329.0	1921.4	851.0	506.9	454.7	448.6	464.2	482.5	490.4	483.4
2632.1	32.5°	2541.6	2028.5	797.0	519.1	451.2	429.4	444.2	467.7	480.8	476.4
2940.5	35°	2820.3	2191.4	776.1	533.0	448.6	409.4	419.8	445.1	467.7	472.1
3328.9	37.5°	3158.2	2417.9	782.2	539.1	440.7	392.8	398.0	419.8	449.4	463.4
3766.2	40°	3542.3	2681.8	817.0	533.0	432.0	378.9	379.8	396.3	422.4	443.3
4236.5	42.5°	3938.6	2990.1	881.4	510.4	424.2	366.7	364.1	375.4	392.8	407.6
4706.0	45°	4315.8	3307.2	945.0	479.0	414.6	354.5	348.4	352.8	356.2	362.3
5163.2	47.5°	4645.0	3530.1	926.7	450.3	401.5	340.6	330.1	328.4	317.9	317.0
5571.7	50°	4872.3	3578.9	823.1	421.6	382.4	324.9	308.3	297.9	279.6	270.9
5877.5	52.5°	4944.6	3386.4	672.4	392.8	351.0	304.0	280.5	263.9	241.3	233.4
6053.4	55°	4848.8	3009.3	537.4	358.0	307.5	276.1	250.0	228.2	209.9	200.3
6072.6	57.5°	4614.5	2529.4	425.0	317.0	261.3	244.7	218.6	196.8	181.2	171.6
5860.0	60°	4226.1	2008.5	336.2	268.3	223.0	210.8	183.8	169.8	155.9	144.6
5311.3	62.5°	3636.4	1433.7	263.9	212.5	186.4	172.5	156.8	146.3	129.8	114.1
4324.5	65°	2837.7	877.1	203.8	155.9	149.8	142.8	133.3	123.7	103.6	88.0
2821.1	67.5°	1789.9	415.5	145.5	117.6	118.5	115.0	110.6	102.8	88.0	74.0
1263.8	70°	788.2	201.2	95.8	89.7	88.0	88.0	91.5	88.8	74.9	61.8
439.0	72.5°	268.3	108.0	71.4	67.9	63.6	62.7	76.6	74.0	60.1	47.9
218.6	75°	140.2	72.3	52.3	48.8	38.3	46.2	61.0	57.5	42.7	31.4
144.6	77.5°	91.5	51.4	35.7	31.4	21.8	30.5	45.3	40.1	25.3	15.7
94.9	80°	57.5	34.0	20.9	14.8	10.5	16.5	24.4	17.4	9.6	3.5
55.7	82.5°	30.5	17.4	7.8	5.2	4.4	5.2	6.1	4.4	1.7	0.0
28.7	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>
1722.8
1609.6
1347.4
1004.3
677.6
548.7
534.8
527.0
514.8
502.6
494.7
488.6
482.5
476.4
472.1
466.9
450.3
413.7
365.8
316.2
271.7
232.6
200.3
169.8
142.0
111.5
85.4
72.3
59.2
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28.7
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