

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: P939619

Luminaire Tested: **GALN-SB2B-750-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11775 lumens
Efficiency: N/A
Efficacy: 159.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

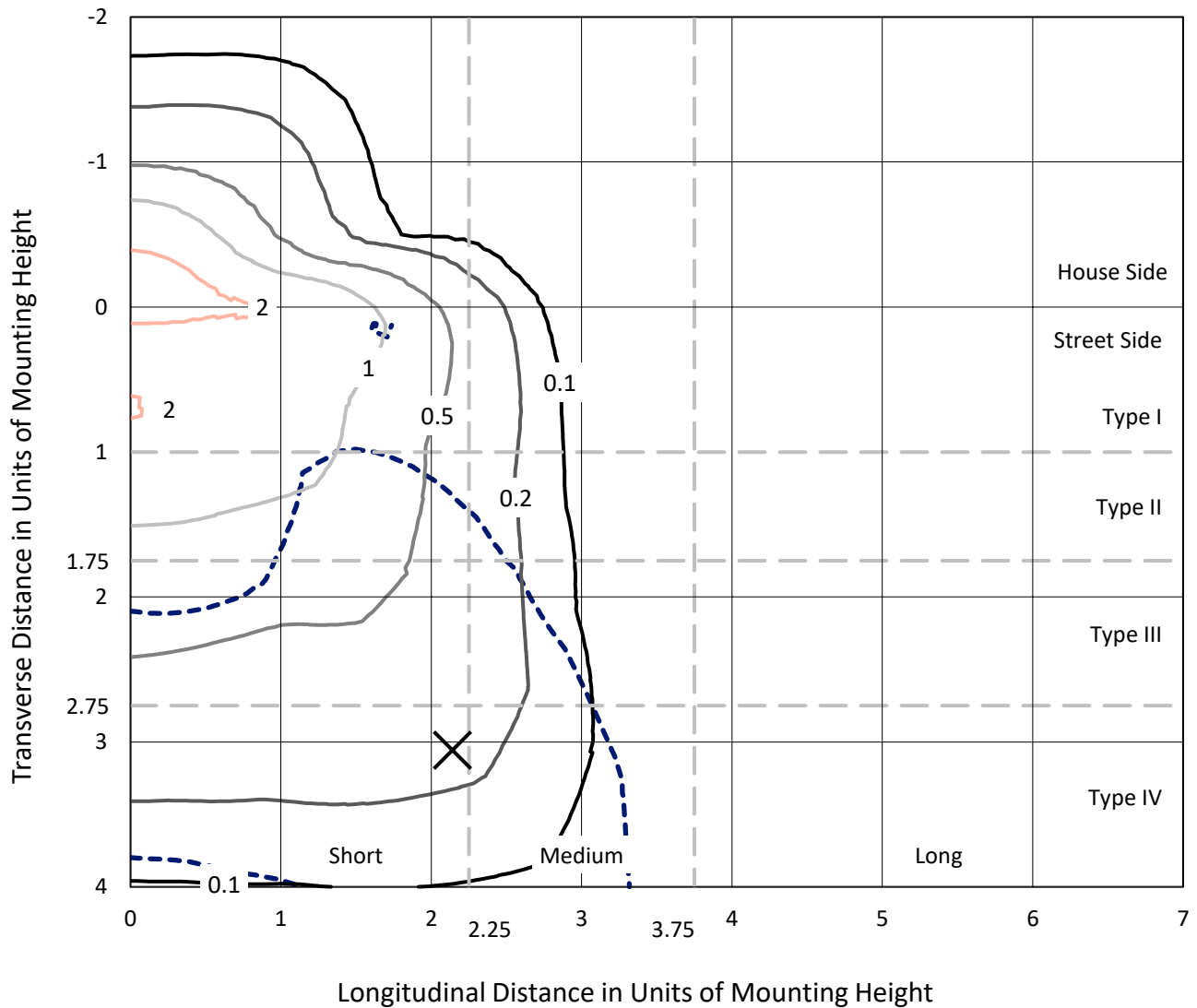
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

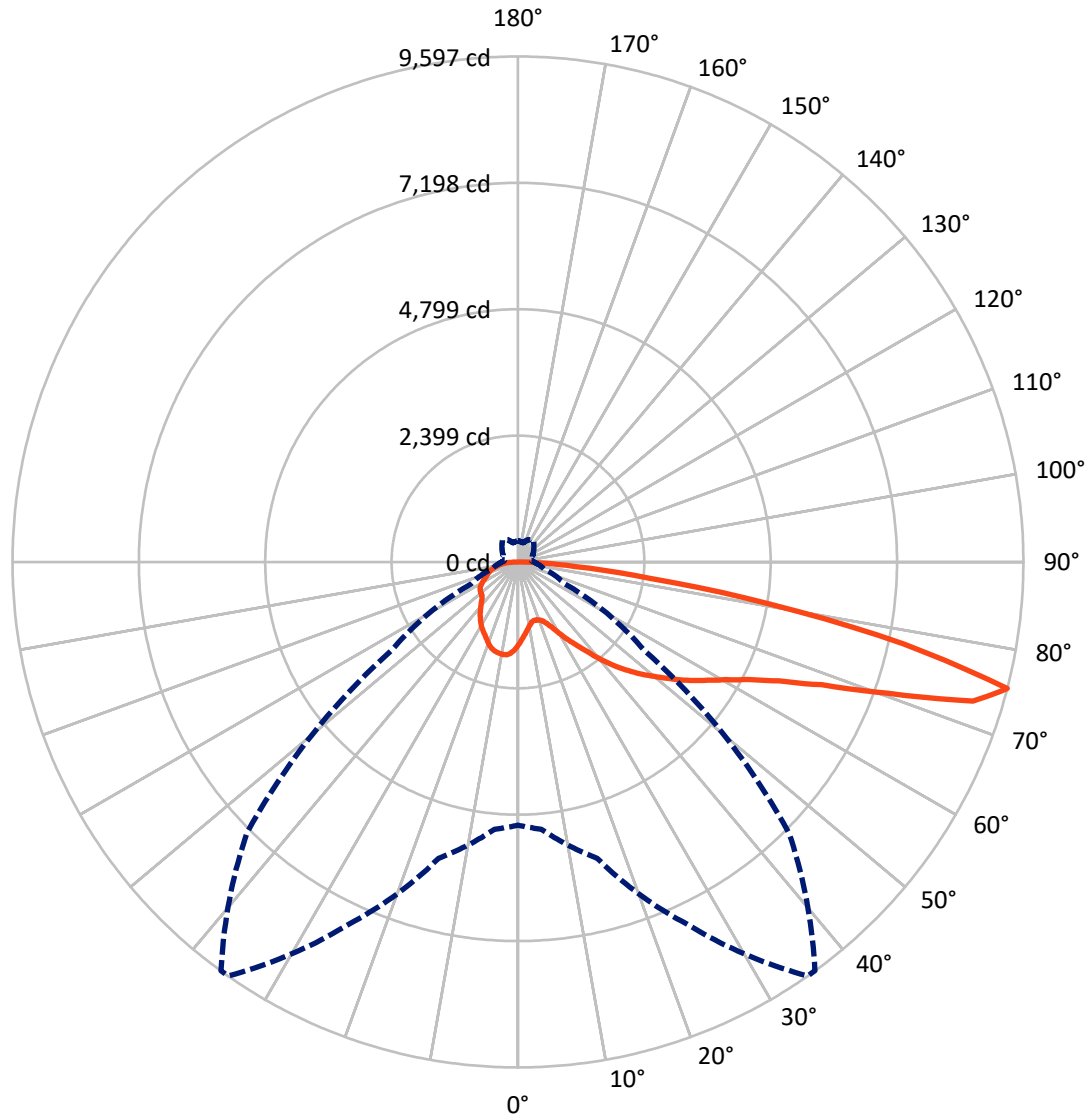
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2802.2	0.0	2802.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	8972.8	0.0	8972.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	11775.0	0.0	11775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	1.3
10°-20°	428.5	3.6
20°-30°	719.6	6.1
30°-40°	1118.3	9.5
40°-50°	1659.9	14.1
50°-60°	2291.6	19.5
60°-70°	2780.3	23.6
70°-80°	2297.7	19.5
80°-90°	330.5	2.8
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°	11775.0	100.0
0°-180°	11775.0	100.0

Coefficient of Utilization



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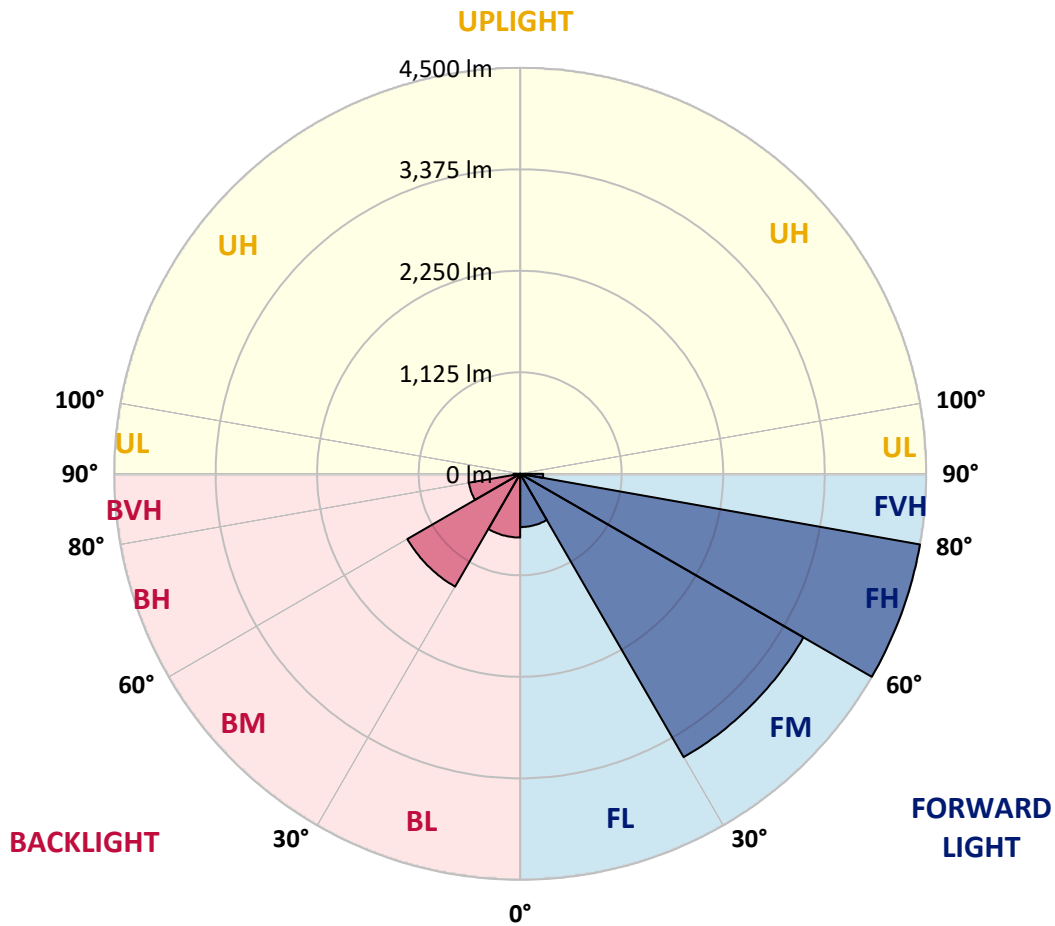
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	590.5	5.0			
FM (30°-60°)	3626.1	30.8			
FH (60°-80°)	4500.2	38.2			G2/5000
FVH (80°-90°)	256.1	2.2			G3/500
BL (0°-30°)	706.2	6.0	B2/1000		
BM (30°-60°)	1443.8	12.3	B2/2500		
BH (60°-80°)	577.7	4.9	B2/1000		G2/1000
BVH (80°-90°)	74.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1569.1	1569.1	1569.1	1569.1	1569.1	1569.1	1569.1	1569.1	1569.1	1569.1
2.5°	1446.9	1455.8	1459.6	1457.7	1467.3	1466.0	1479.3	1495.9	1518.8	1541.1
5°	1335.5	1345.0	1353.3	1360.9	1379.4	1385.1	1406.1	1438.0	1480.0	1522.6
7.5°	1231.7	1240.0	1252.7	1266.7	1297.9	1303.7	1338.7	1388.3	1446.9	1509.3
10°	1147.1	1155.3	1168.7	1184.6	1223.5	1230.5	1275.0	1341.2	1417.6	1496.5
12.5°	1110.8	1113.3	1121.0	1136.9	1170.6	1175.1	1224.1	1299.8	1389.0	1487.0
15°	1108.9	1114.0	1114.6	1122.9	1150.9	1152.8	1198.0	1273.1	1371.1	1485.1
17.5°	1128.0	1131.8	1126.1	1131.2	1154.7	1157.9	1193.5	1260.4	1365.4	1493.3
20°	1178.9	1182.1	1164.9	1157.9	1175.1	1177.6	1212.6	1268.6	1371.1	1510.5
22.5°	1287.1	1289.0	1247.0	1218.4	1219.6	1220.9	1251.5	1302.4	1393.4	1541.7
25°	1455.8	1454.5	1387.7	1332.3	1300.5	1293.5	1313.8	1357.1	1431.0	1583.1
27.5°	1653.1	1643.6	1576.7	1494.0	1424.6	1414.4	1410.0	1428.4	1484.4	1637.8
30°	1875.9	1867.0	1795.1	1686.9	1590.7	1574.2	1532.2	1522.6	1564.0	1712.3
32.5°	2120.4	2114.6	2028.7	1897.6	1769.0	1749.9	1679.2	1653.8	1686.2	1825.0
35°	2325.3	2320.2	2248.9	2114.0	1956.8	1933.2	1861.3	1832.6	1849.2	1969.5
37.5°	2510.6	2508.0	2446.9	2340.6	2178.3	2149.6	2068.8	2059.2	2056.1	2159.8
40°	2682.4	2676.1	2612.4	2556.4	2436.1	2410.0	2338.7	2330.4	2306.2	2394.1
42.5°	2872.8	2856.2	2763.9	2737.8	2705.3	2683.7	2641.1	2642.3	2588.9	2658.2
45°	3028.1	3018.5	2923.7	2908.4	2943.4	2934.5	2971.4	2981.0	2877.2	2935.1
47.5°	3194.8	3185.9	3105.7	3094.9	3189.8	3192.3	3322.8	3326.0	3158.6	3222.9
50°	3400.5	3387.7	3308.2	3321.5	3427.8	3437.4	3676.1	3654.4	3417.6	3515.0
52.5°	3536.0	3543.7	3526.5	3548.1	3693.3	3702.2	4023.6	3968.3	3674.2	3803.4
55°	3636.0	3651.3	3704.7	3754.4	3973.4	3982.3	4351.5	4266.8	3886.8	4070.7
57.5°	3764.6	3742.9	3842.9	3939.6	4239.4	4263.0	4670.4	4554.5	4075.2	4301.2
60°	3949.2	3933.9	4011.5	4154.8	4537.3	4574.9	5007.7	4813.6	4213.3	4483.9
62.5°	4323.5	4285.3	4297.4	4424.0	4912.9	4962.6	5388.4	5039.6	4282.1	4555.2
65°	4883.0	4817.4	4756.3	4844.2	5441.9	5490.9	5818.1	5217.2	4256.6	4417.0
67.5°	5587.6	5522.7	5447.6	5530.4	6221.0	6259.8	6348.3	5317.1	4056.1	3884.9
70°	6168.8	6144.6	6234.4	6574.9	7465.5	7466.7	7028.2	5234.4	3506.8	2754.4
72.5°	6091.8	6077.2	6550.1	7603.0	9033.9	9000.2	7671.7	4608.0	2362.2	1242.5
75°	4997.6	5092.4	5825.1	7584.5	9597.3	9592.8	7277.7	2929.4	977.1	515.0
77.5°	2679.9	2830.1	3781.7	5599.7	7492.2	7604.9	5116.6	1024.8	419.5	329.7
80°	874.0	1005.1	1507.4	2851.1	4868.3	4847.3	2192.9	402.3	287.1	233.6
82.5°	371.1	386.4	673.5	1346.3	2498.5	2459.6	698.3	231.1	201.8	159.8
85°	145.1	162.3	297.3	622.5	1082.1	1058.6	252.1	114.6	129.2	104.4
87.5°	47.7	57.9	106.3	213.2	336.7	324.6	61.7	39.5	56.0	47.7
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°
1569.1	0°	1569.1	1569.1	1569.1	1569.1	1569.1	1569.1	1569.1	1569.1	1569.1	1569.1
1573.6	2.5°	1582.5	1592.7	1604.7	1622.6	1637.8	1650.6	1663.9	1672.2	1675.4	1685.0
1576.1	5°	1593.9	1616.2	1646.1	1675.4	1704.0	1721.2	1736.5	1744.1	1751.2	1756.2
1583.1	7.5°	1613.0	1641.7	1688.8	1727.0	1751.2	1765.2	1775.3	1772.8	1775.3	1776.6
1590.7	10°	1629.6	1669.7	1725.7	1762.0	1780.4	1781.1	1778.5	1769.6	1765.2	1765.8
1602.2	12.5°	1649.3	1693.9	1754.3	1784.9	1790.0	1776.0	1765.2	1749.9	1744.1	1741.6
1619.4	15°	1676.0	1727.0	1785.5	1797.0	1784.3	1766.4	1748.0	1723.1	1710.4	1700.2
1648.7	17.5°	1708.5	1764.5	1809.7	1801.4	1774.1	1744.8	1714.9	1677.3	1651.2	1640.4
1688.8	20°	1753.7	1804.0	1828.2	1791.9	1750.5	1706.0	1655.0	1609.2	1585.0	1574.2
1739.7	22.5°	1808.4	1856.8	1846.0	1775.3	1716.8	1645.5	1581.8	1548.1	1536.0	1528.4
1805.3	25°	1874.0	1915.4	1858.7	1751.2	1661.4	1565.3	1516.3	1505.4	1499.7	1494.0
1885.5	27.5°	1959.3	1981.6	1868.3	1715.5	1574.8	1480.0	1462.2	1464.1	1462.2	1452.6
1996.9	30°	2072.0	2067.5	1877.2	1657.6	1475.5	1403.0	1404.2	1412.5	1413.8	1407.4
2152.2	32.5°	2220.3	2175.1	1881.6	1582.5	1380.7	1335.5	1336.8	1345.7	1352.0	1341.2
2355.2	35°	2399.8	2300.5	1874.6	1488.3	1307.5	1271.2	1261.6	1264.2	1266.1	1255.9
2601.6	37.5°	2609.2	2441.2	1843.5	1383.9	1247.0	1208.2	1187.8	1170.6	1160.4	1150.9
2880.4	40°	2839.0	2594.6	1786.2	1282.0	1179.5	1141.3	1110.8	1078.3	1043.9	1031.2
3175.8	42.5°	3079.6	2752.4	1716.8	1184.6	1101.9	1070.7	1038.2	991.1	939.5	913.5
3482.6	45°	3329.2	2914.1	1648.7	1088.5	1022.3	1008.9	971.4	914.7	858.7	825.6
3790.0	47.5°	3573.6	3066.9	1548.7	991.7	947.8	962.5	933.2	881.0	818.6	766.4
4094.9	50°	3807.2	3210.1	1385.1	893.7	887.4	948.5	920.5	845.3	774.0	707.2
4394.1	52.5°	4038.9	3326.0	1175.7	804.6	854.9	944.6	903.9	821.2	733.9	663.9
4675.5	55°	4235.6	3385.8	973.9	728.2	807.8	912.2	884.2	792.5	677.3	602.8
4868.3	57.5°	4347.6	3337.4	805.9	653.1	742.9	858.7	850.4	731.4	609.8	552.5
4905.9	60°	4299.3	3141.4	668.4	587.5	681.1	800.8	791.9	670.9	558.3	504.1
4704.7	62.5°	4032.6	2767.7	559.5	530.2	625.1	741.6	733.3	624.5	518.8	466.6
4170.7	65°	3495.3	2251.5	474.9	482.5	568.4	670.3	682.4	585.6	487.6	436.7
3226.7	67.5°	2665.9	1630.8	408.7	441.1	513.1	600.3	635.3	557.6	461.5	413.1
1867.0	70°	1519.4	926.2	352.6	401.0	464.0	535.3	599.0	535.3	433.5	393.4
699.6	72.5°	576.1	425.2	304.9	360.9	416.9	480.6	558.9	500.3	401.0	371.1
361.6	75°	307.5	259.1	256.5	313.8	362.8	427.1	508.6	466.0	376.8	392.1
250.2	77.5°	209.4	183.3	214.5	268.6	303.6	367.9	455.1	413.8	326.6	325.3
173.1	80°	145.1	129.9	174.4	216.4	234.9	309.4	397.2	355.2	266.1	248.3
106.9	82.5°	87.2	84.7	130.5	161.7	166.1	238.7	329.1	297.9	217.7	189.7
63.7	85°	47.7	50.3	83.4	94.8	96.8	166.8	257.8	230.4	167.4	140.7
22.9	87.5°	13.4	17.2	30.6	37.6	46.5	86.6	153.4	136.9	84.0	58.6
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>
1569.1
1684.3
1757.5
1778.5
1767.1
1740.3
1703.4
1641.0
1572.9
1529.6
1494.0
1454.5
1410.6
1346.3
1262.9
1157.2
1036.9
916.6
823.1
760.7
701.5
656.3
596.4
544.9
496.5
458.3
428.4
405.5
388.3
366.0
404.8
299.8
237.4
191.0
142.0
58.6
0.0

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