

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: P949407

Luminaire Tested: **GALN-SB4A-930-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-930-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12482 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

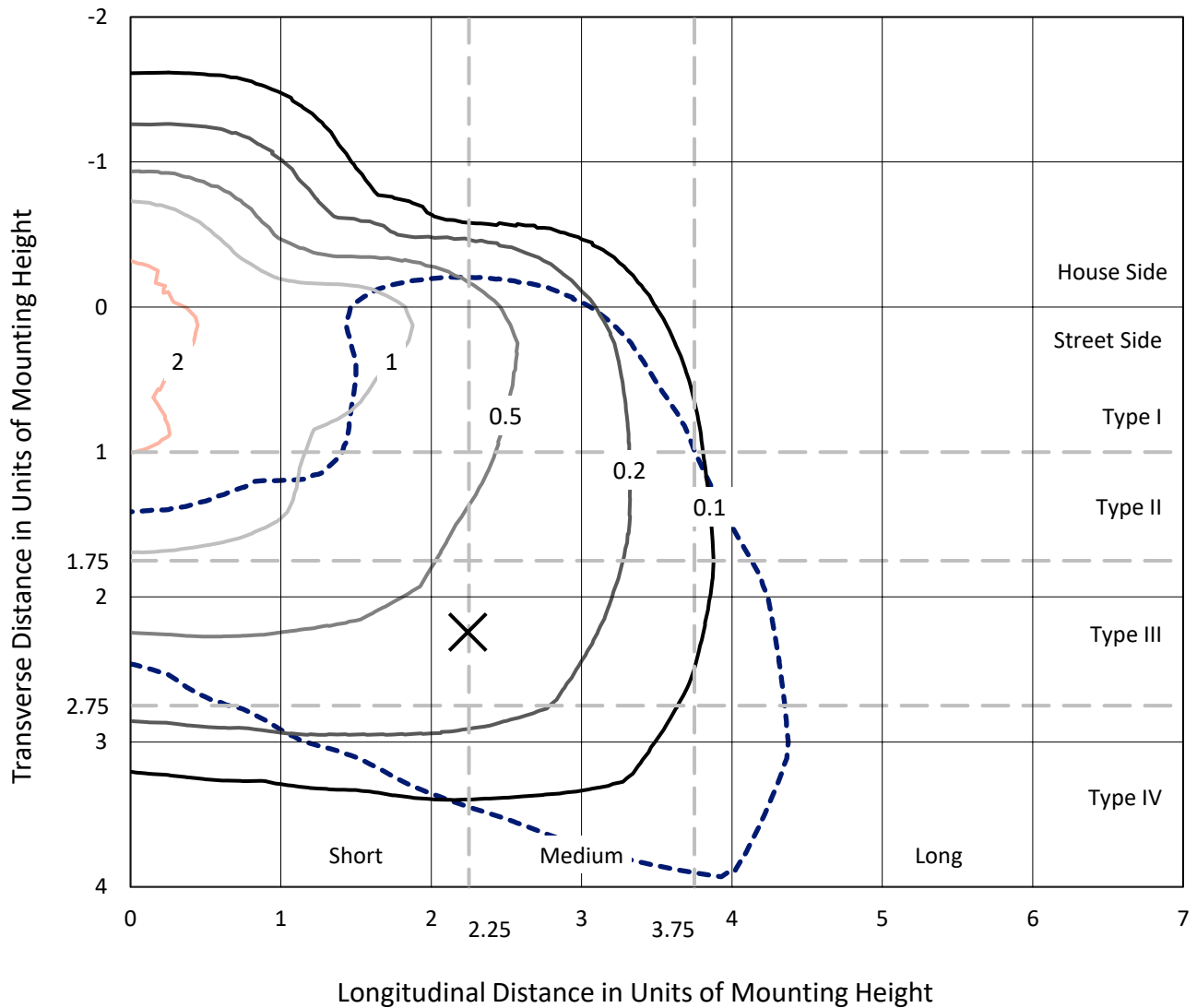
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

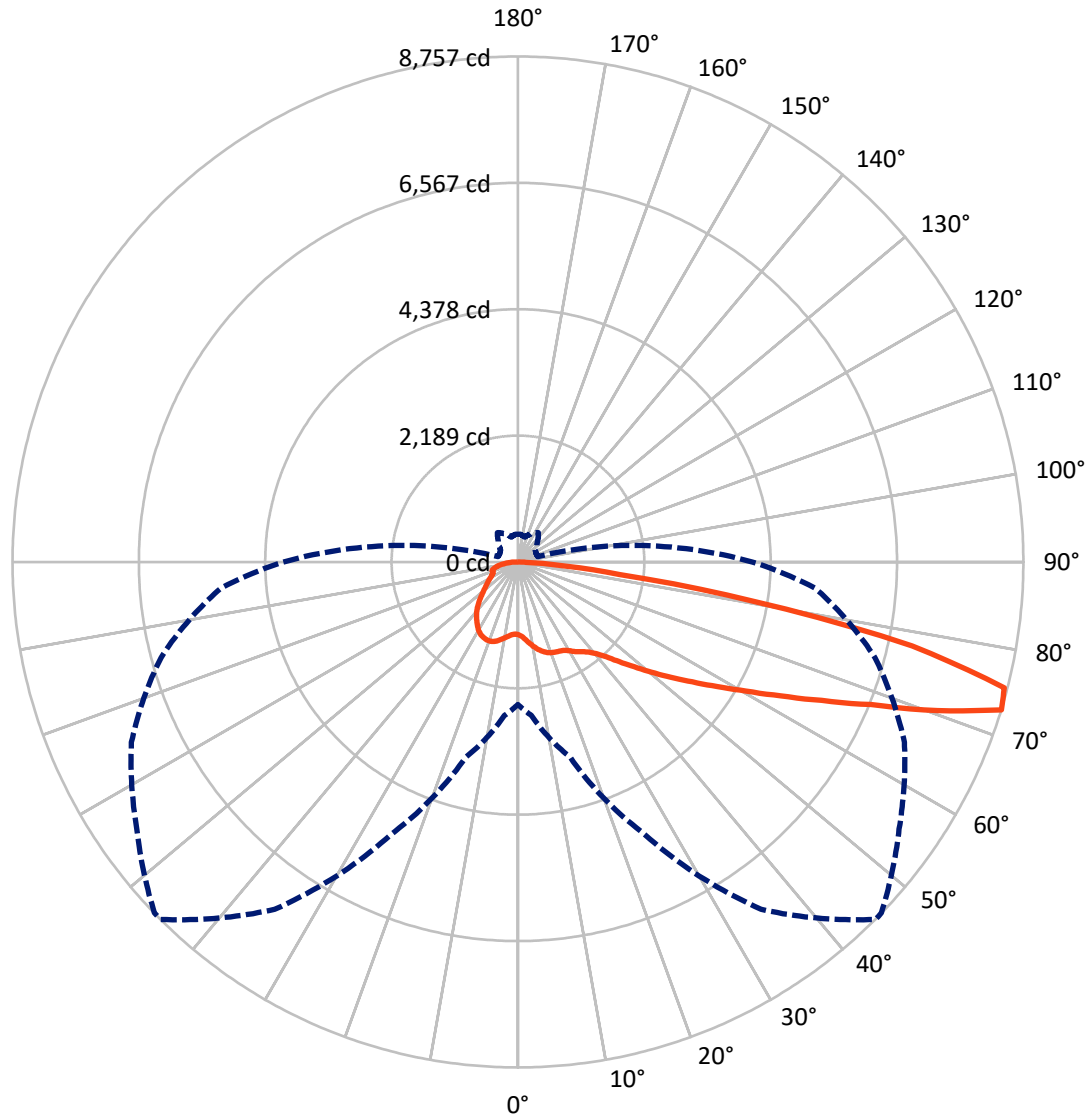
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2821.8	0.0	2821.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	9660.3	0.0	9660.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	12482.0	0.0	12482.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	1.0
10°-20°	427.3	3.4
20°-30°	743.3	6.0
30°-40°	1065.6	8.5
40°-50°	1500.4	12.0
50°-60°	2298.2	18.4
60°-70°	3329.3	26.7
70°-80°	2658.6	21.3
80°-90°	331.1	2.7
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°	12482.0	100.0
0°-180°	12482.0	100.0

Coefficient of Utilization



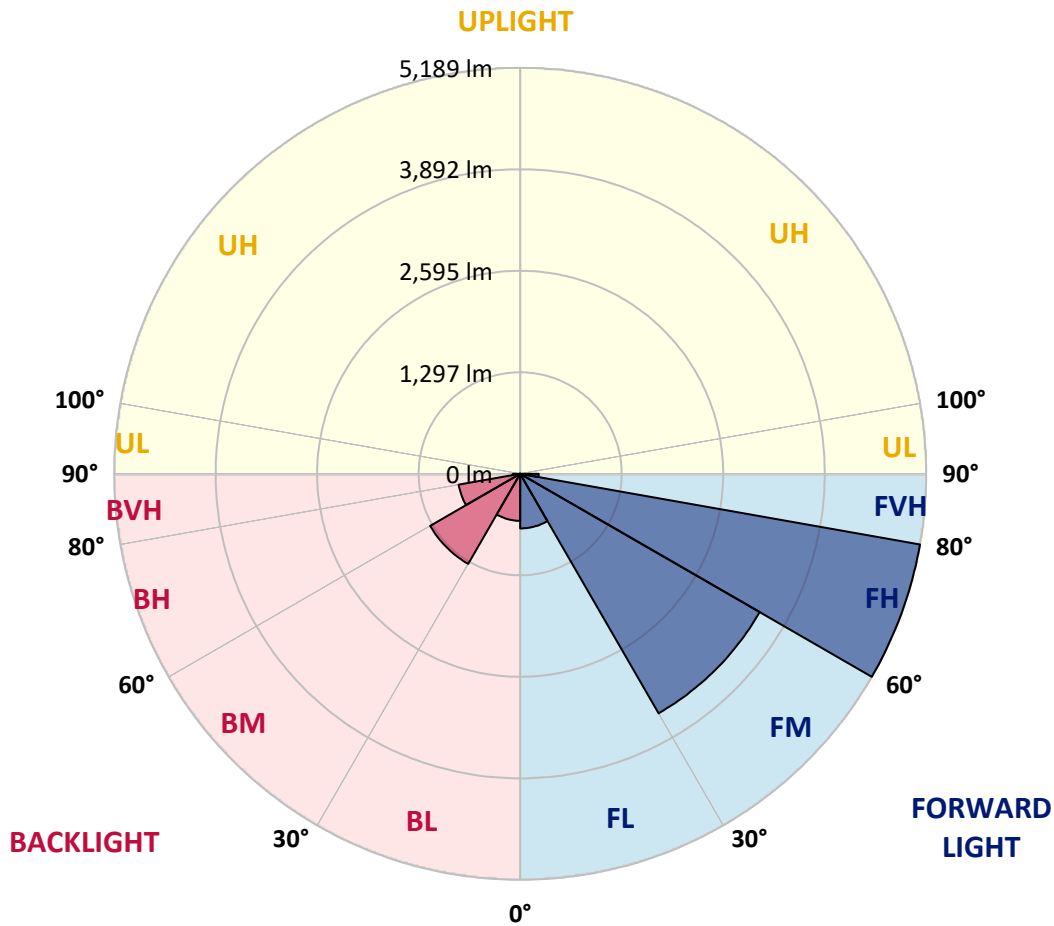
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	698.0	5.6			
FM (30°-60°)	3535.6	28.3			
FH (60°-80°)	5189.1	41.6			G3/7500
FVH (80°-90°)	237.6	1.9			G3/500
BL (0°-30°)	600.8	4.8	B2/1000		
BM (30°-60°)	1328.6	10.6	B2/2500		
BH (60°-80°)	798.8	6.4	B2/1000		G2/1000
BVH (80°-90°)	93.6	0.7			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°	45°	46°	55°	65°	75°
0°	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2
2.5°	1308.5	1317.1	1309.2	1301.9	1298.6	1290.1	1289.4	1284.2	1280.9	1271.7
5°	1399.9	1411.1	1397.9	1383.5	1370.3	1349.3	1346.6	1331.5	1314.4	1294.7
7.5°	1503.1	1513.0	1497.9	1476.2	1453.2	1418.3	1417.7	1390.0	1363.1	1329.5
10°	1593.2	1606.4	1586.0	1556.4	1527.5	1488.0	1483.4	1451.9	1417.7	1374.3
12.5°	1672.8	1682.0	1662.3	1626.1	1592.6	1553.1	1547.2	1512.3	1474.2	1424.9
15°	1735.9	1747.7	1721.4	1682.6	1647.1	1608.3	1603.1	1571.5	1533.4	1481.4
17.5°	1777.3	1787.2	1760.2	1716.8	1682.6	1650.4	1646.5	1620.2	1586.6	1534.0
20°	1793.1	1803.6	1775.4	1731.3	1699.7	1674.8	1672.8	1653.7	1630.7	1582.7
22.5°	1808.9	1818.8	1781.9	1735.9	1708.3	1692.5	1691.9	1679.4	1670.2	1630.7
25°	1872.7	1875.3	1826.0	1759.6	1720.1	1706.3	1705.7	1705.0	1708.9	1678.0
27.5°	1927.9	1927.3	1885.2	1822.7	1761.6	1732.6	1732.0	1738.5	1751.0	1725.4
30°	2008.8	2001.6	1951.6	1886.5	1830.6	1785.9	1781.9	1776.0	1785.9	1765.5
32.5°	2180.4	2157.4	2076.5	1960.8	1887.8	1853.6	1848.3	1811.5	1815.5	1803.0
35°	2426.3	2396.1	2288.2	2101.5	1958.8	1910.2	1907.5	1860.8	1853.0	1841.8
37.5°	2718.9	2681.5	2555.9	2305.3	2081.1	1975.9	1972.0	1929.9	1897.7	1885.8
40°	3012.9	2965.5	2861.6	2553.9	2261.3	2085.7	2073.2	2009.4	1972.6	1952.9
42.5°	3298.2	3258.8	3170.0	2832.7	2483.5	2246.2	2218.5	2109.4	2081.8	2063.4
45°	3550.7	3515.2	3450.1	3130.6	2743.9	2464.5	2437.5	2259.3	2250.8	2250.8
47.5°	3755.9	3748.0	3678.9	3434.3	3051.0	2713.0	2666.3	2467.8	2490.8	2526.3
50°	3983.4	3961.7	3888.0	3733.5	3412.0	2997.7	2959.6	2723.5	2809.7	2907.0
52.5°	4192.5	4204.3	4122.1	4045.2	3819.7	3315.3	3248.3	3025.3	3211.4	3372.5
55°	4407.5	4408.2	4385.1	4374.6	4247.1	3666.4	3592.8	3388.3	3684.2	3884.1
57.5°	4609.4	4610.7	4644.9	4737.6	4742.8	4071.5	3988.0	3834.1	4209.6	4413.4
60°	4789.5	4798.7	4892.1	5109.1	5178.8	4535.7	4456.8	4360.8	4752.7	4957.9
62.5°	4850.0	4883.6	5091.3	5399.7	5609.5	5105.1	5027.6	4970.4	5323.5	5514.1
65°	4747.4	4824.4	5226.1	5639.7	6052.7	5781.8	5704.8	5642.4	5916.6	6096.1
67.5°	4495.6	4594.9	5218.2	5891.6	6590.5	6595.8	6524.1	6377.5	6552.4	6621.4
70°	3832.1	3980.8	4758.6	5985.6	7208.0	7709.0	7640.0	7262.5	7186.9	6852.9
72.5°	2469.1	2669.0	3504.0	5211.7	7345.4	8756.5	8752.5	8061.5	7387.5	6403.1
75°	900.8	1023.1	1628.1	3271.3	6165.8	8703.2	8728.9	7924.7	6743.7	4946.0
77.5°	328.1	359.0	531.3	1257.2	3792.0	6983.1	7036.3	6335.4	4800.0	2482.2
80°	172.3	189.4	272.2	487.9	1624.8	4147.1	4230.6	3765.1	2256.0	747.6
82.5°	95.3	103.2	152.5	265.0	731.8	1773.4	1823.4	1487.4	793.7	316.9
85°	51.3	54.6	71.7	144.7	357.7	614.8	628.6	444.5	316.3	186.1
87.5°	15.1	18.4	23.7	46.0	140.1	138.1	141.4	88.1	124.9	94.0
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°
1259.2	0°	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2
1269.1	2.5°	1265.1	1263.1	1255.9	1252.6	1248.7	1248.0	1251.3	1252.0	1252.6	1253.3
1283.5	5°	1276.9	1270.4	1263.8	1259.8	1261.2	1261.8	1268.4	1273.0	1276.3	1278.9
1310.5	7.5°	1300.0	1294.7	1283.5	1282.9	1284.8	1290.8	1299.3	1309.8	1315.7	1320.3
1345.3	10°	1334.2	1324.3	1311.1	1313.1	1317.1	1325.6	1343.4	1351.9	1361.8	1370.3
1388.1	12.5°	1369.0	1360.5	1345.3	1346.6	1353.2	1368.3	1385.4	1396.0	1402.5	1409.1
1434.1	15°	1414.4	1399.2	1382.8	1382.8	1394.6	1411.1	1419.0	1427.5	1431.5	1438.7
1483.4	17.5°	1461.1	1441.3	1419.6	1418.3	1432.8	1440.7	1445.3	1446.6	1447.9	1455.8
1531.4	20°	1507.7	1486.0	1455.1	1452.5	1455.8	1454.5	1453.8	1452.5	1454.5	1464.3
1580.7	22.5°	1553.8	1528.8	1486.0	1474.2	1465.0	1452.5	1451.9	1451.2	1452.5	1462.4
1634.0	25°	1607.7	1577.4	1520.2	1484.7	1453.8	1436.7	1438.7	1439.4	1440.7	1448.6
1689.2	27.5°	1666.2	1632.7	1551.8	1481.4	1425.5	1413.7	1410.4	1412.4	1417.0	1429.5
1744.5	30°	1724.7	1685.3	1580.7	1468.3	1390.0	1373.6	1363.1	1367.7	1382.2	1394.6
1792.5	32.5°	1778.0	1738.5	1603.7	1439.4	1344.7	1319.0	1305.2	1311.1	1325.6	1330.2
1845.7	35°	1840.5	1795.7	1613.6	1393.3	1295.4	1255.9	1237.5	1228.9	1236.2	1231.6
1908.2	37.5°	1910.2	1863.5	1612.3	1332.8	1237.5	1192.1	1166.5	1134.3	1119.1	1103.4
2000.2	40°	2013.4	1946.3	1596.5	1259.8	1165.8	1124.4	1078.4	1023.8	989.6	958.7
2148.8	42.5°	2154.1	2061.4	1567.6	1179.6	1084.9	1046.1	983.7	919.9	866.0	814.7
2374.4	45°	2363.9	2212.0	1531.4	1094.1	997.5	959.4	891.6	820.0	758.8	693.0
2694.6	47.5°	2666.3	2414.5	1497.2	996.8	905.4	870.6	809.4	743.0	670.7	606.9
3157.5	50°	3081.9	2705.1	1465.7	902.1	814.7	788.4	739.7	672.0	599.0	547.7
3700.0	52.5°	3610.6	3100.3	1452.5	810.7	729.9	720.0	681.2	618.1	549.0	505.6
4332.5	55°	4217.5	3573.1	1452.5	723.3	655.6	658.9	631.9	573.4	513.5	474.7
4984.8	57.5°	4836.9	4051.8	1426.2	642.4	592.4	606.3	589.2	537.9	484.0	443.8
5670.6	60°	5407.6	4452.9	1319.7	568.8	536.6	558.3	547.1	503.0	437.3	403.7
6244.0	62.5°	5846.2	4679.1	1114.5	510.3	490.5	515.5	509.6	457.0	428.7	414.9
6714.8	65°	6065.8	4642.2	852.2	458.3	451.7	490.5	478.0	476.1	453.7	437.9
6868.0	67.5°	5931.0	4325.3	618.1	420.2	429.4	467.5	515.5	523.4	482.0	451.1
6436.7	70°	5339.9	3751.9	460.3	384.0	401.1	468.2	587.8	547.7	472.8	436.6
5162.4	72.5°	4062.3	2797.8	357.0	345.9	364.3	471.5	620.1	536.6	446.5	482.6
3216.0	75°	2323.1	1536.0	286.7	299.2	318.2	440.6	603.6	507.6	426.1	443.2
1274.3	77.5°	885.7	590.5	236.7	253.2	255.8	384.7	577.3	505.6	405.7	395.8
382.0	80°	307.1	230.8	195.9	201.2	197.9	341.9	553.6	439.9	332.1	297.2
157.8	82.5°	125.6	115.1	155.2	148.6	140.7	265.6	447.1	359.7	271.6	240.0
76.3	85°	54.6	73.0	102.6	90.1	81.5	184.1	358.4	304.4	229.5	197.9
25.0	87.5°	11.2	27.6	43.4	40.8	42.1	123.0	254.5	216.3	162.4	121.6
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>
1259.2
1255.9
1280.2
1321.7
1368.3
1411.7
1441.3
1458.4
1468.3
1468.9
1459.1
1442.0
1408.5
1346.6
1246.0
1113.2
960.7
810.1
685.2
599.7
544.4
502.4
470.8
437.3
398.5
410.3
432.7
445.8
430.7
478.7
443.2
361.0
287.3
237.4
197.3
95.3
0.0

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