

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: P948397

Luminaire Tested: **GALN-SB3B-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3B-950-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12066 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

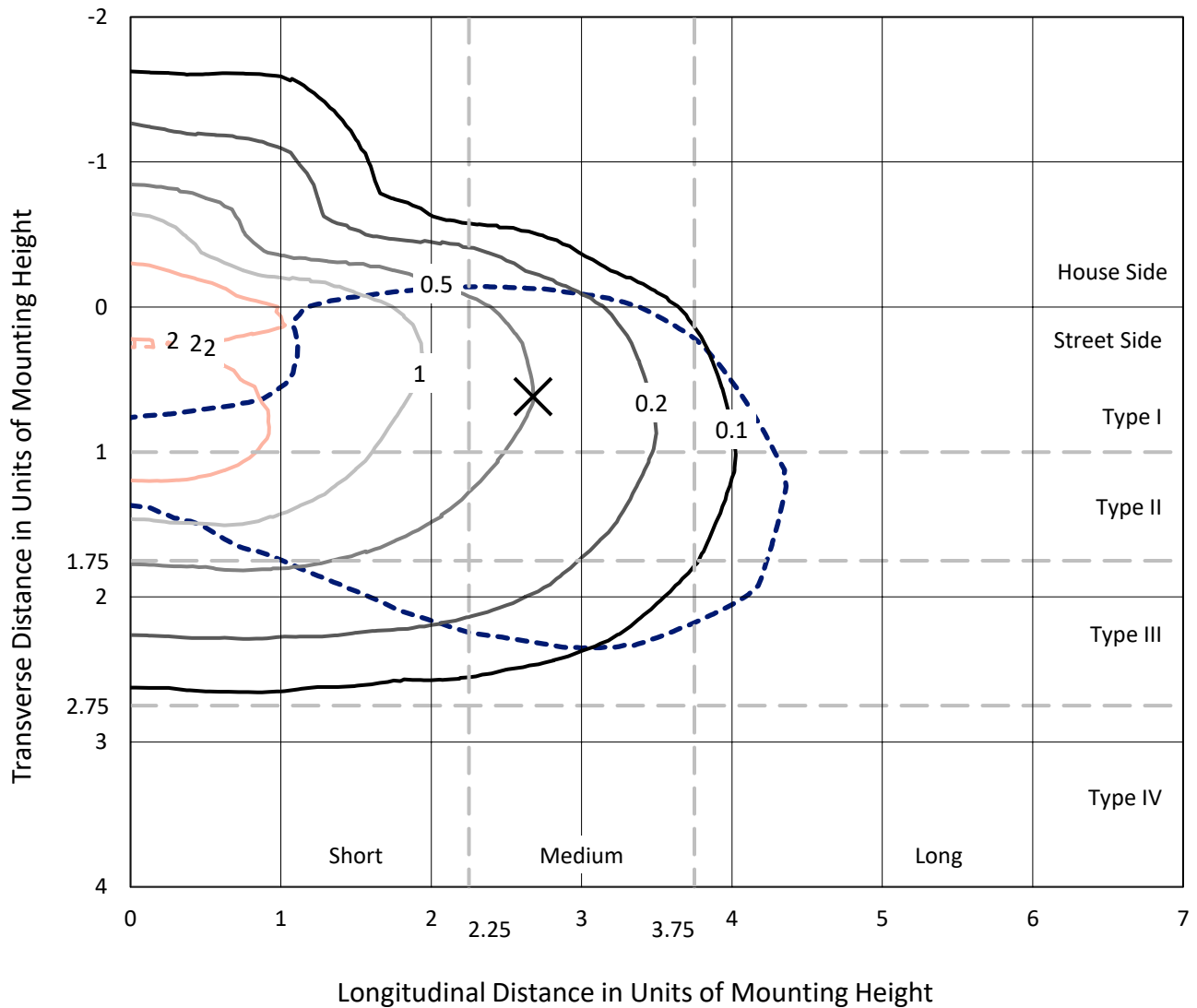
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P948397
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Iso-Footcandle Lines of Horizontal Illumination

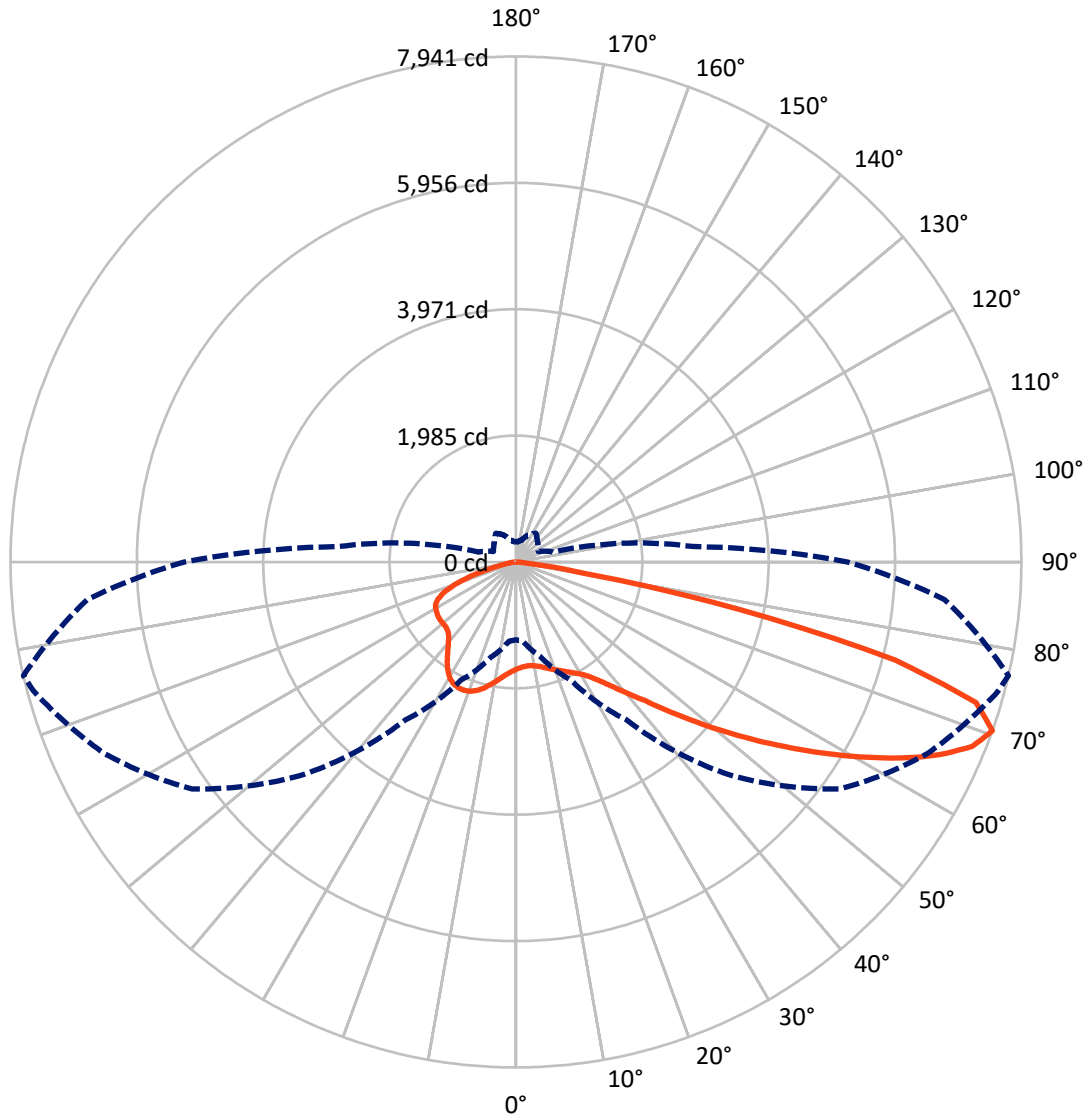
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P948397
CATALOG NUMBER: GALN-SB3B-950-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2642.3	0.0	2642.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9423.7	0.0	9423.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	12066.0	0.0	12066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	1.3
10°-20°	463.3	3.8
20°-30°	792.4	6.6
30°-40°	1274.2	10.6
40°-50°	1989.4	16.5
50°-60°	2657.4	22.0
60°-70°	2832.3	23.5
70°-80°	1743.6	14.5
80°-90°	152.8	1.3
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°	12066.0	100.0
0°-180°	12066.0	100.0

Coefficient of Utilization



REPORT NUMBER: P948397

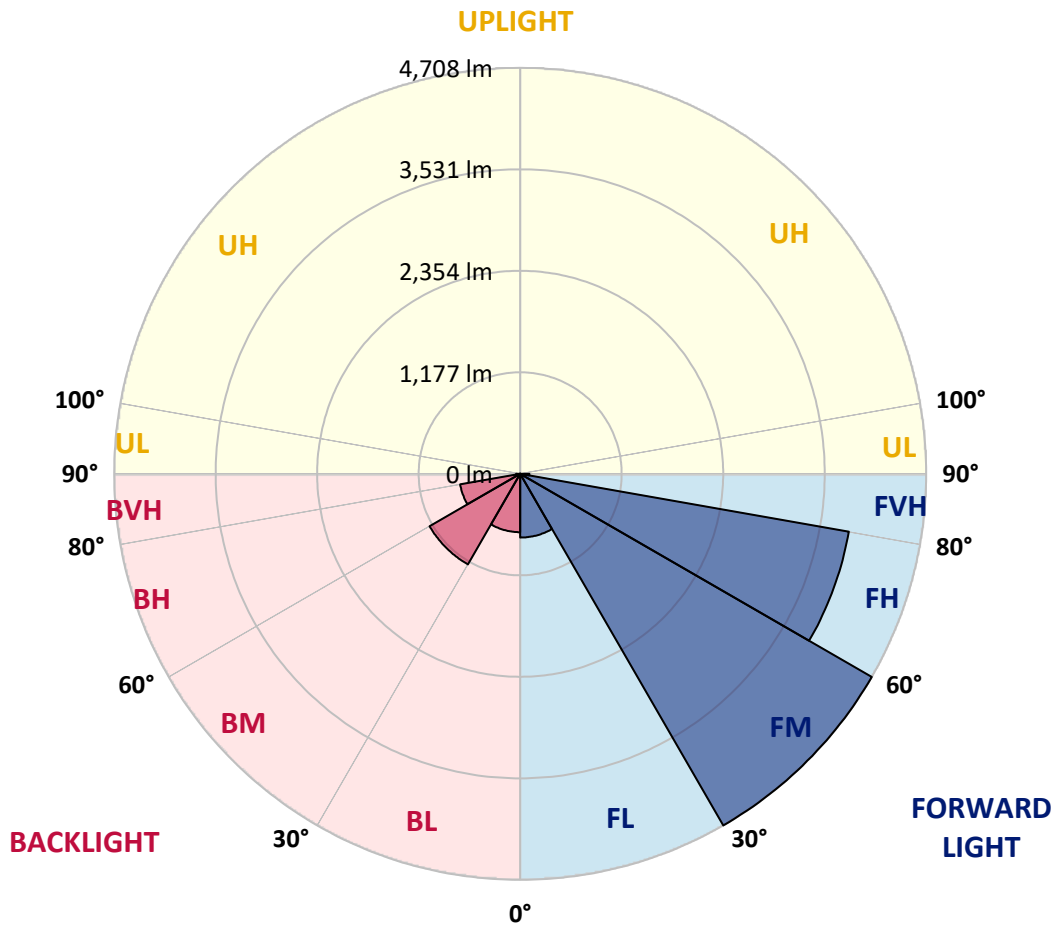
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	739.2	6.1			
FM (30°-60°)	4707.9	39.0			
FH (60°-80°)	3869.8	32.1			G2/5000
FVH (80°-90°)	106.8	0.9			G2/225
BL (0°-30°)	677.0	5.6	B2/1000		
BM (30°-60°)	1213.1	10.1	B2/2500		
BH (60°-80°)	706.2	5.9	B2/1000		G2/1000
BVH (80°-90°)	45.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3
2.5°	1551.7	1551.1	1559.1	1561.6	1576.4	1586.9	1606.7	1627.7	1654.9	1658.0
5°	1462.1	1462.1	1471.4	1481.2	1500.4	1521.4	1551.7	1588.2	1635.1	1642.5
7.5°	1386.1	1391.0	1399.1	1418.2	1440.5	1470.7	1517.1	1569.0	1630.8	1642.5
10°	1324.9	1330.5	1340.4	1355.8	1389.2	1431.2	1491.8	1558.5	1641.3	1659.8
12.5°	1305.7	1311.3	1316.9	1328.6	1359.5	1408.9	1481.2	1563.4	1666.6	1685.2
15°	1350.2	1357.0	1352.7	1349.6	1365.7	1410.8	1486.2	1581.4	1698.1	1724.7
17.5°	1452.8	1455.3	1445.4	1416.4	1413.9	1438.0	1509.7	1606.1	1737.7	1766.7
20°	1618.4	1614.1	1593.7	1536.2	1503.5	1498.5	1549.8	1643.1	1778.5	1809.4
22.5°	1843.4	1838.4	1797.6	1706.8	1633.9	1585.7	1607.9	1691.4	1824.2	1858.8
25°	2123.9	2117.1	2057.2	1933.6	1820.5	1701.2	1687.0	1755.0	1880.4	1912.6
27.5°	2451.4	2445.9	2381.0	2217.9	2054.7	1859.4	1785.3	1829.8	1939.2	1975.6
30°	2803.7	2819.7	2704.8	2529.3	2322.9	2065.8	1917.5	1921.8	2015.2	2047.9
32.5°	3217.7	3245.5	3107.1	2884.6	2602.8	2290.2	2084.4	2050.4	2125.8	2153.0
35°	3628.0	3659.5	3544.6	3298.7	2974.2	2554.6	2258.6	2198.1	2272.8	2302.5
37.5°	3982.7	4024.8	3965.4	3751.6	3371.6	2873.5	2486.0	2371.7	2453.9	2491.0
40°	4262.7	4326.9	4322.6	4189.1	3840.0	3260.3	2774.6	2586.2	2678.8	2719.0
42.5°	4490.1	4545.7	4593.9	4587.1	4328.8	3699.7	3113.9	2864.9	2935.3	2981.6
45°	4647.0	4706.4	4810.2	4922.0	4799.1	4170.0	3502.6	3195.5	3259.7	3329.6
47.5°	4787.3	4854.7	4989.4	5166.7	5198.3	4642.1	3928.4	3580.4	3639.2	3711.5
50°	4799.7	4857.8	5066.6	5318.1	5481.9	5095.7	4385.6	4012.4	4067.4	4144.6
52.5°	4501.2	4592.7	4957.3	5313.8	5612.3	5475.1	4839.8	4461.7	4523.5	4616.1
55°	3493.9	3628.0	4636.5	5148.2	5565.9	5720.4	5271.8	4939.3	5018.4	5115.5
57.5°	3009.5	3068.2	3680.6	4846.6	5354.6	5784.1	5636.4	5422.0	5549.3	5655.5
60°	2704.8	2753.6	3115.7	4377.6	5076.5	5683.4	5918.2	5871.8	6091.8	6218.5
62.5°	2378.5	2424.9	2754.2	3655.2	4720.6	5515.9	6096.2	6287.1	6648.0	6786.4
65°	2054.7	2094.3	2410.0	3071.3	4268.2	5348.4	6188.2	6646.1	7162.7	7306.1
67.5°	1693.8	1726.6	2025.0	2591.1	3718.3	5119.2	6234.0	6928.5	7610.8	7733.7
70°	1222.3	1247.7	1556.0	2049.1	3028.0	4724.9	6215.4	7128.8	7843.1	7941.4
72.5°	577.8	600.7	962.8	1330.5	2138.8	3957.4	5840.3	6969.9	7607.1	7558.2
75°	308.4	328.1	553.1	729.8	1129.6	2712.8	4779.3	6004.1	6387.8	6150.5
77.5°	208.9	224.3	342.3	438.1	516.0	1287.8	3071.9	4157.0	3999.4	3607.6
80°	165.6	181.7	280.6	296.6	249.7	465.3	1269.3	1924.3	1382.4	1105.5
82.5°	127.3	145.2	236.1	215.0	136.0	190.9	369.5	608.7	354.1	269.4
85°	77.9	97.0	185.4	137.2	76.6	87.1	125.4	169.3	108.1	90.2
87.5°	39.5	55.6	93.9	50.1	34.6	20.4	33.4	33.4	28.4	24.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948397
 CATALOG NUMBER: GALN-SB3B-950-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1683.3	0°	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3	1683.3
1674.7	2.5°	1689.5	1701.9	1722.9	1742.6	1758.1	1772.9	1787.8	1795.8	1798.3	1808.1
1683.9	5°	1709.3	1732.1	1772.9	1811.2	1835.3	1850.2	1860.7	1866.9	1868.1	1871.2
1709.3	7.5°	1745.7	1782.2	1839.0	1877.4	1895.3	1894.0	1889.7	1874.3	1868.1	1862.5
1746.3	10°	1797.0	1845.2	1915.1	1941.6	1930.5	1900.8	1862.5	1817.4	1796.4	1776.0
1797.0	12.5°	1860.7	1921.8	1990.4	1989.2	1934.2	1858.2	1769.2	1700.0	1656.1	1624.6
1859.4	15°	1937.9	2008.4	2060.9	2018.9	1898.4	1761.8	1631.4	1541.2	1501.6	1467.0
1922.5	17.5°	2017.6	2093.0	2117.1	2009.6	1808.1	1619.0	1471.4	1400.3	1361.4	1342.8
1990.4	20°	2095.5	2170.3	2150.5	1956.5	1671.0	1457.1	1325.5	1286.6	1278.6	1282.9
2056.6	22.5°	2177.7	2244.4	2157.3	1853.9	1496.1	1291.5	1219.2	1220.5	1238.4	1251.4
2125.8	25°	2261.7	2306.8	2139.4	1705.6	1308.2	1169.8	1151.9	1171.6	1206.9	1232.2
2203.6	27.5°	2342.7	2362.5	2100.4	1522.0	1146.9	1082.7	1085.8	1126.5	1179.7	1214.9
2298.2	30°	2434.1	2411.9	2025.7	1315.6	1035.1	1007.9	1033.8	1081.4	1134.6	1166.1
2417.5	32.5°	2537.3	2454.5	1907.0	1124.7	956.0	947.9	990.6	1021.5	1045.0	1054.2
2575.6	35°	2665.9	2514.5	1755.0	990.6	884.9	904.1	944.9	929.4	920.1	915.2
2788.2	37.5°	2832.7	2595.4	1577.0	903.5	827.4	872.6	889.2	841.0	804.6	786.7
3045.9	40°	3033.6	2714.1	1405.9	836.1	791.0	845.4	816.3	758.2	711.9	686.6
3335.7	42.5°	3256.6	2838.3	1261.9	785.4	770.6	823.1	762.6	693.3	618.6	610.5
3681.2	45°	3490.8	2966.2	1163.6	746.5	760.7	804.0	731.7	619.8	566.7	599.4
4027.8	47.5°	3725.0	3083.6	1104.3	717.4	755.8	782.3	704.5	579.0	541.3	588.9
4399.2	50°	3985.8	3188.7	1077.7	696.4	750.2	773.7	663.7	568.5	514.8	546.3
4783.6	52.5°	4244.8	3270.2	1057.9	675.4	742.2	766.9	643.9	556.2	482.6	484.5
5170.5	55°	4503.1	3323.4	1036.3	647.6	724.2	752.1	642.1	542.6	458.5	449.9
5579.5	57.5°	4778.7	3353.7	1009.7	616.7	693.3	714.4	640.2	532.1	451.1	436.9
5997.9	60°	5059.2	3398.1	975.1	579.0	651.9	669.2	635.9	528.4	446.8	422.7
6392.2	62.5°	5310.7	3413.6	933.7	543.2	598.8	624.8	626.6	525.3	435.0	393.6
6719.7	65°	5475.7	3346.9	861.4	502.4	541.3	579.0	608.7	514.8	414.0	372.6
6881.6	67.5°	5468.9	3156.5	748.3	449.9	485.7	528.4	582.7	496.8	388.7	346.7
6759.2	70°	5214.3	2780.8	605.0	388.7	424.5	474.0	549.4	470.3	358.4	318.2
6010.3	72.5°	4472.2	2176.4	439.4	317.0	353.5	417.7	506.1	438.1	327.5	292.9
4441.9	75°	3194.8	1377.4	297.9	243.5	275.0	354.1	452.3	400.4	299.1	294.1
2224.6	77.5°	1632.0	658.1	197.1	178.0	191.6	279.3	380.0	357.8	303.4	242.9
632.8	80°	530.8	242.9	124.2	121.1	127.3	186.0	294.1	293.5	229.9	165.0
153.3	82.5°	169.3	104.4	81.0	77.9	74.8	116.8	205.2	232.4	155.1	104.4
55.0	85°	67.4	62.4	47.6	43.9	31.5	55.0	107.5	154.5	115.6	75.4
14.2	87.5°	24.7	24.7	13.0	9.3	6.8	18.5	29.0	46.3	66.1	38.9
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>
1683.3
1813.7
1876.1
1863.8
1769.8
1617.2
1463.3
1348.4
1281.0
1254.5
1239.0
1223.6
1173.5
1059.2
920.1
791.0
688.4
618.6
616.7
611.2
569.8
497.5
456.1
438.8
424.5
393.6
372.6
348.5
322.0
291.1
277.5
216.3
145.8
103.8
77.2
38.3
0.0

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