

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: P939807

Luminaire Tested: **GALN-SB2C-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939807  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2C-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

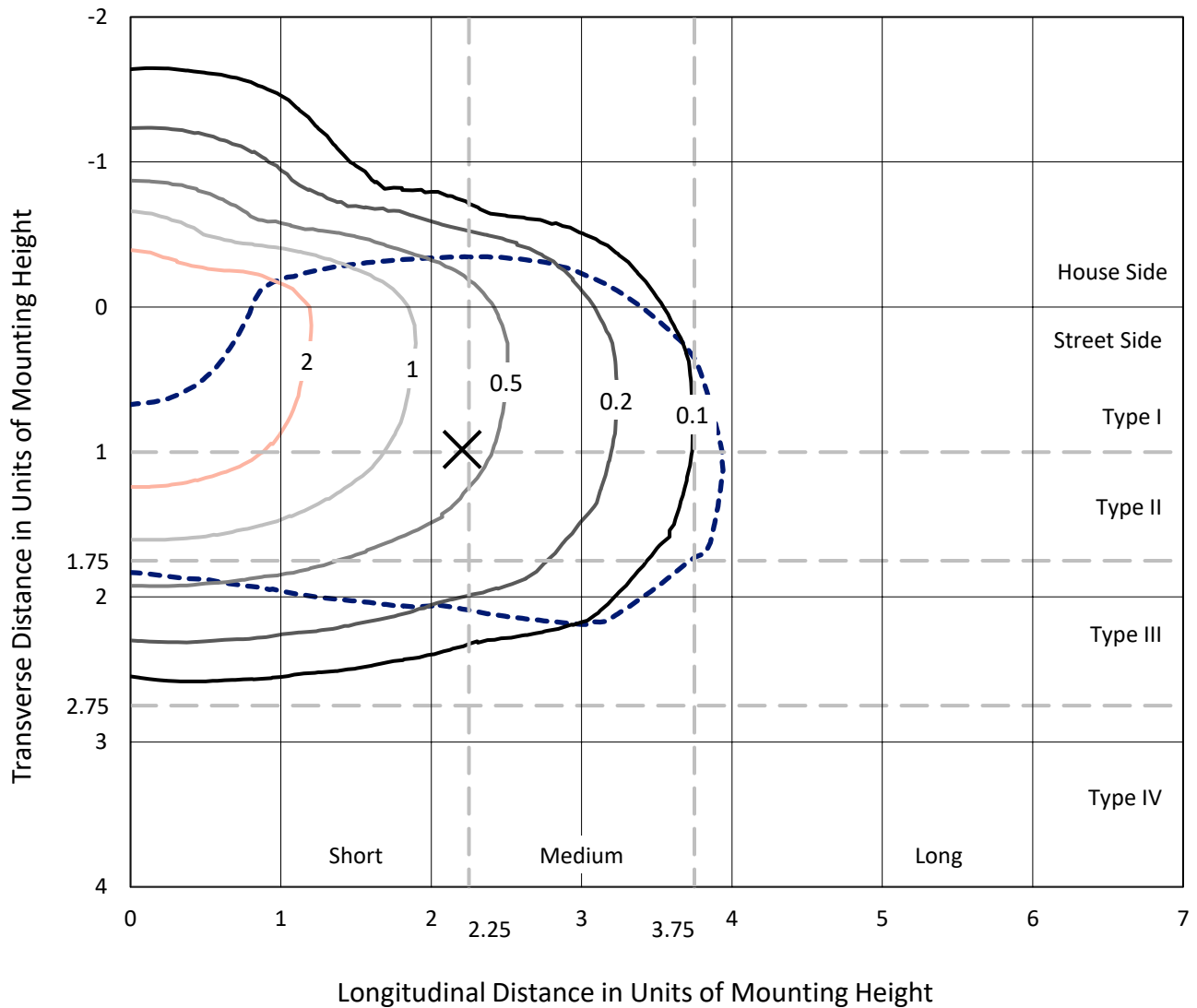
Lumens per Lamp: N/A  
Luminaire Lumens: 13032 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

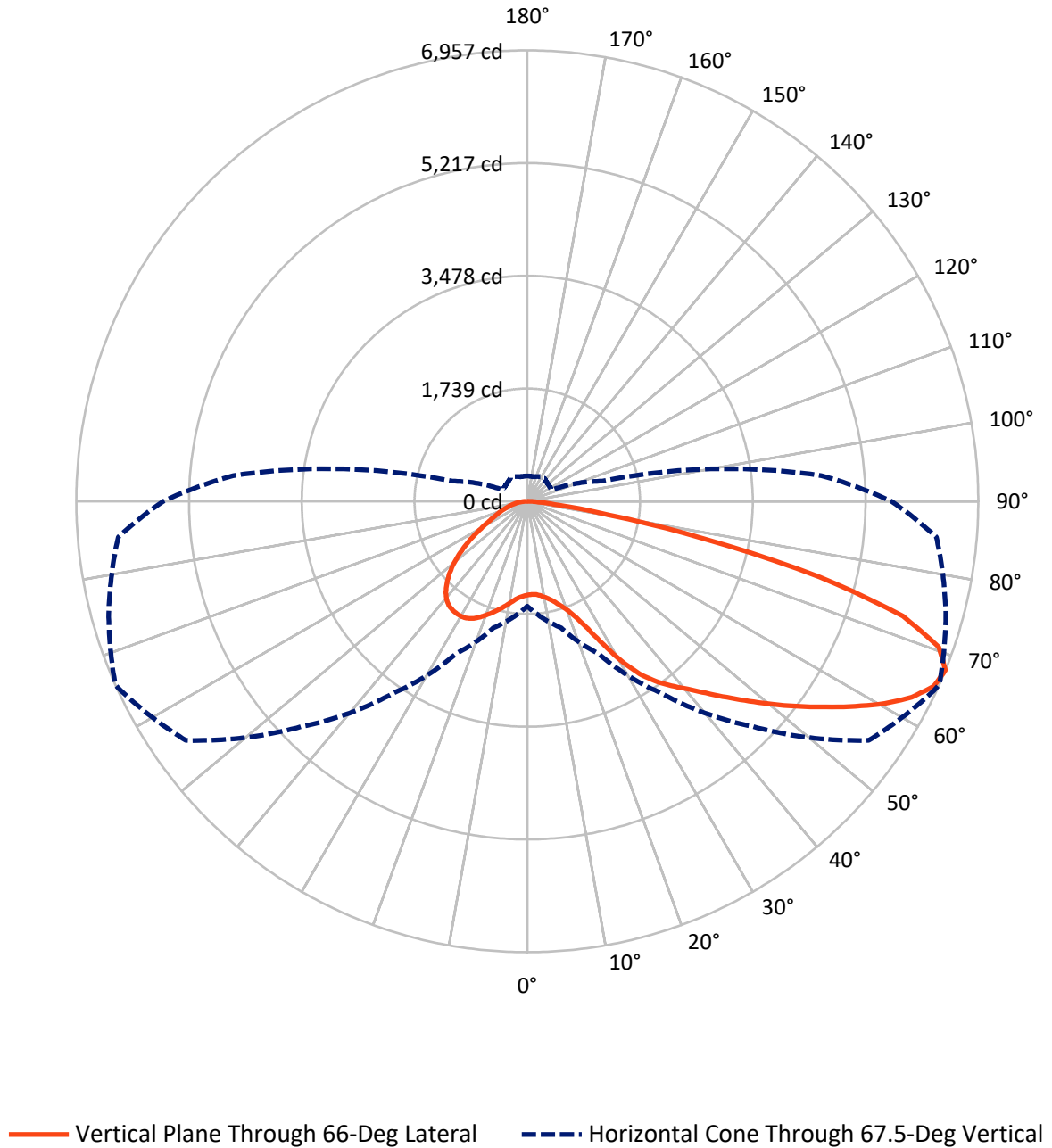
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3240.4	0.0	3240.4
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	9791.6	0.0	9791.6
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	13032.0	0.0	13032.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.3	1.1
10°-20°	473.5	3.6
20°-30°	912.6	7.0
30°-40°	1600.1	12.3
40°-50°	2378.8	18.3
50°-60°	3015.4	23.1
60°-70°	2950.5	22.6
70°-80°	1407.4	10.8
80°-90°	150.4	1.2
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°	13032.0	100.0
0°-180°	13032.0	100.0

**Coefficient of Utilization**



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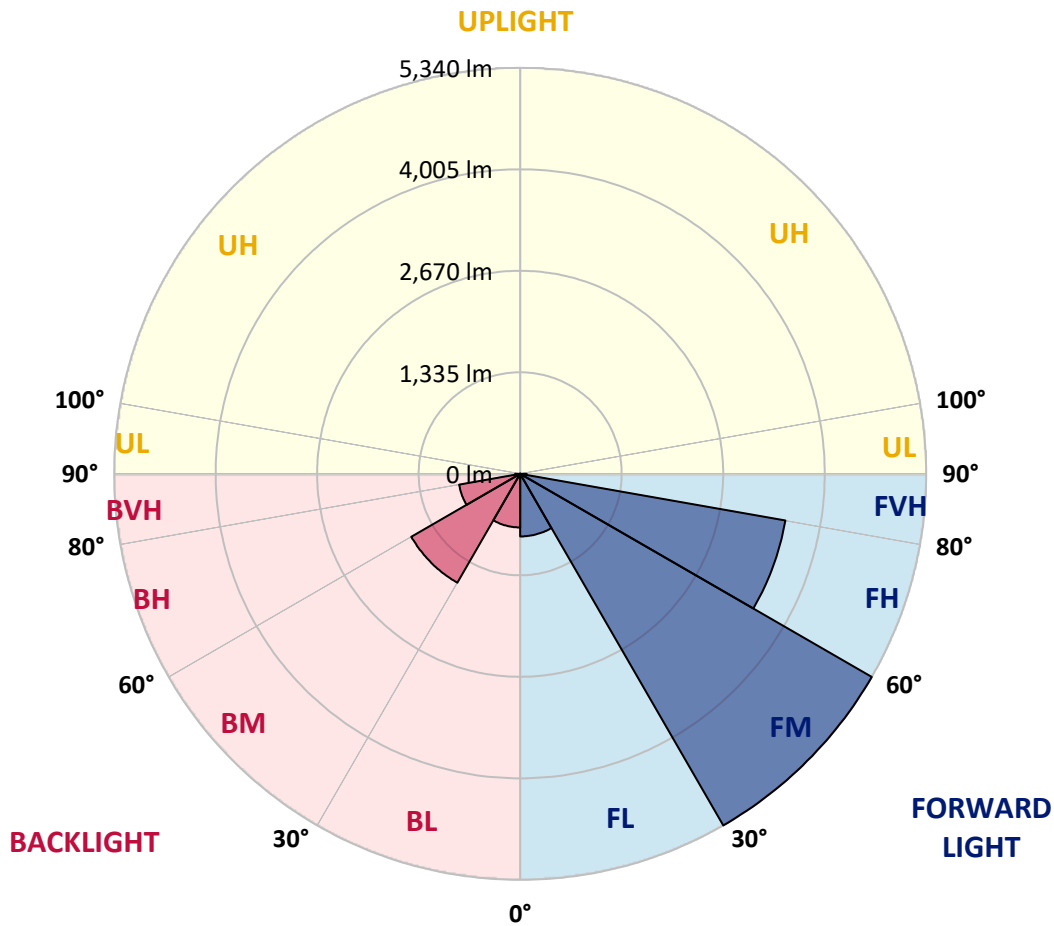
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	823.5	6.3			
FM (30°-60°)	5340.4	41.0			
FH (60°-80°)	3542.5	27.2			G2/5000
FVH (80°-90°)	85.3	0.7			G1/100
BL (0°-30°)	705.9	5.4	B2/1000		
BM (30°-60°)	1653.9	12.7	B2/2500		
BH (60°-80°)	815.4	6.3	B2/1000		G2/1000
BVH (80°-90°)	65.1	0.5			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4
2.5°	1430.4	1438.6	1436.5	1433.1	1432.4	1433.8	1435.8	1437.9	1437.2	1440.6
5°	1426.2	1434.5	1433.8	1433.8	1436.5	1442.0	1445.4	1448.8	1445.4	1449.5
7.5°	1429.0	1435.2	1437.9	1440.6	1447.5	1457.7	1466.0	1473.5	1469.4	1474.2
10°	1463.9	1468.7	1471.4	1471.4	1476.2	1487.9	1496.1	1509.8	1506.4	1513.9
12.5°	1527.6	1532.4	1532.4	1529.6	1533.1	1540.6	1543.3	1558.4	1552.2	1564.6
15°	1605.6	1615.2	1607.7	1602.9	1604.3	1611.8	1611.1	1622.8	1616.6	1626.9
17.5°	1691.9	1704.2	1691.9	1691.2	1688.5	1696.7	1697.4	1707.7	1696.7	1704.2
20°	1793.9	1811.1	1800.8	1804.2	1798.0	1801.5	1804.9	1820.0	1802.8	1808.3
22.5°	1937.7	1958.3	1947.3	1960.3	1956.2	1953.5	1952.8	1979.5	1952.8	1954.8
25°	2147.2	2171.9	2152.7	2170.5	2170.5	2179.4	2189.7	2223.9	2179.4	2166.4
27.5°	2456.7	2481.4	2443.7	2454.7	2451.3	2473.2	2462.2	2547.1	2499.2	2478.0
30°	2829.2	2873.0	2801.8	2799.1	2795.7	2830.6	2846.3	2902.5	2853.9	2832.6
32.5°	3231.8	3277.7	3192.8	3168.1	3155.1	3176.4	3163.4	3208.5	3175.0	3142.1
35°	3657.7	3702.9	3622.1	3574.2	3522.1	3477.6	3431.1	3442.7	3411.2	3361.2
37.5°	4060.3	4143.2	4057.6	4006.2	3910.4	3823.4	3693.3	3639.2	3609.8	3563.9
40°	4470.5	4517.7	4452.7	4408.8	4304.8	4168.5	3960.4	3846.0	3806.3	3761.8
42.5°	4772.4	4817.6	4782.7	4752.6	4671.1	4512.9	4243.8	4100.7	4043.2	3993.2
45°	5012.1	5045.6	5023.7	5034.7	4999.7	4846.4	4537.6	4373.9	4314.4	4253.4
47.5°	5108.6	5144.2	5179.1	5244.2	5303.8	5190.8	4853.2	4669.7	4606.7	4544.4
50°	5097.7	5133.9	5235.3	5373.6	5558.5	5520.8	5186.0	4984.7	4926.5	4855.3
52.5°	5010.0	5051.1	5181.2	5411.3	5705.7	5768.0	5524.9	5309.9	5255.1	5170.2
55°	4780.0	4804.6	4999.7	5325.7	5740.6	5940.5	5857.0	5656.4	5601.6	5483.2
57.5°	4353.4	4389.0	4673.1	5094.9	5653.0	6057.6	6148.7	6020.6	5967.9	5797.4
60°	3796.7	3853.5	4178.8	4707.4	5429.7	6056.9	6413.7	6378.8	6334.9	6106.9
62.5°	3166.8	3232.5	3545.4	4159.6	5039.5	5885.1	6579.4	6678.7	6656.1	6392.4
65°	2432.1	2477.3	2788.8	3450.9	4432.1	5516.0	6598.5	6883.4	6887.5	6609.5
67.5°	1619.3	1749.4	2019.9	2589.6	3618.7	4912.8	6430.1	6916.9	6956.6	6684.1
70°	790.2	961.3	1226.3	1683.0	2589.6	3987.7	5989.8	6641.7	6730.0	6466.4
72.5°	328.0	383.4	527.9	830.6	1486.5	2690.9	5105.2	5895.3	6059.0	5729.6
75°	221.2	239.6	302.0	425.9	677.2	1327.0	3681.7	4395.8	4659.4	4327.4
77.5°	170.5	182.1	219.8	297.8	402.6	501.9	1970.6	2649.1	2785.4	2578.6
80°	134.2	143.1	164.3	217.1	285.5	268.4	671.7	1200.3	1279.0	1072.9
82.5°	116.4	119.8	117.8	147.2	189.7	156.8	220.5	443.0	488.9	354.7
85°	84.2	93.8	97.9	91.1	100.7	79.4	90.4	156.8	172.5	154.1
87.5°	34.2	50.7	62.3	58.9	37.0	22.6	28.1	45.9	52.7	57.5
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°
1445.4	0°	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4
1446.1	2.5°	1446.8	1451.6	1455.0	1459.1	1461.9	1466.0	1474.2	1479.0	1479.7	1483.1
1457.1	5°	1459.8	1466.6	1474.2	1485.1	1497.5	1507.7	1523.5	1534.4	1538.5	1542.0
1483.8	7.5°	1487.9	1497.5	1511.2	1530.3	1548.1	1561.8	1581.0	1594.0	1607.0	1611.8
1526.2	10°	1529.6	1543.3	1563.2	1589.2	1608.4	1626.2	1646.0	1657.0	1670.0	1675.5
1576.9	12.5°	1581.7	1596.1	1622.1	1658.4	1676.2	1688.5	1695.3	1692.6	1695.3	1700.1
1637.8	15°	1641.2	1657.0	1686.4	1725.5	1737.8	1726.8	1711.8	1698.1	1696.0	1697.4
1711.8	17.5°	1711.8	1723.4	1757.6	1790.5	1781.6	1736.4	1703.6	1681.6	1670.7	1667.3
1806.3	20°	1810.4	1810.4	1838.4	1859.0	1799.4	1722.7	1671.4	1635.8	1613.2	1603.6
1935.0	22.5°	1930.2	1919.2	1937.0	1922.7	1796.0	1684.4	1613.2	1551.6	1517.3	1503.6
2115.1	25°	2082.2	2069.2	2064.4	1975.4	1771.3	1623.4	1507.7	1433.1	1403.0	1395.4
2374.6	27.5°	2311.6	2278.7	2216.4	2004.1	1726.2	1527.6	1384.5	1315.3	1298.2	1298.9
2708.0	30°	2617.0	2551.2	2398.5	2008.9	1652.2	1392.0	1258.5	1209.2	1201.0	1204.4
2988.1	32.5°	2899.7	2837.4	2584.8	1987.0	1538.5	1259.2	1145.5	1112.7	1100.3	1104.4
3201.7	35°	3121.6	3104.5	2757.3	1956.2	1398.9	1134.6	1044.2	1016.1	992.1	986.7
3403.0	37.5°	3331.1	3324.3	2886.7	1913.1	1260.5	1046.2	962.7	925.7	890.8	871.6
3625.5	40°	3561.2	3554.3	2971.6	1846.7	1138.0	969.5	889.4	840.8	797.7	762.8
3877.5	42.5°	3820.0	3779.6	3012.0	1751.5	1033.9	904.5	829.9	764.1	707.3	675.1
4162.3	45°	4102.8	4011.7	3011.4	1630.3	946.3	844.9	766.2	673.1	620.3	590.2
4454.7	47.5°	4402.7	4233.6	2974.4	1496.1	861.4	779.2	667.6	596.4	561.5	543.0
4772.4	50°	4712.2	4441.0	2911.4	1342.0	774.4	704.6	606.0	557.4	530.6	513.5
5087.4	52.5°	5003.2	4629.3	2835.4	1167.4	686.1	632.0	578.6	540.9	512.8	493.7
5392.8	55°	5273.6	4791.6	2727.9	988.7	614.2	583.4	565.6	534.1	501.9	479.3
5702.9	57.5°	5514.0	4897.0	2542.3	821.0	562.8	549.8	551.9	522.4	485.5	466.3
6008.3	60°	5713.9	4974.4	2267.8	665.5	521.1	517.0	530.6	500.5	457.4	435.5
6266.5	62.5°	5833.7	4973.0	1930.9	545.0	485.5	486.8	502.6	473.1	429.3	408.8
6401.3	65°	5823.5	4851.2	1561.1	466.3	451.2	452.6	473.1	443.0	406.0	393.7
6333.6	67.5°	5617.4	4554.0	1197.6	414.9	413.6	419.7	443.7	422.5	391.7	390.3
5929.6	70°	5059.3	3937.1	862.7	373.9	374.5	383.4	414.9	409.5	384.1	386.9
4985.4	72.5°	4056.9	3001.8	579.3	330.7	331.4	345.8	387.5	399.2	376.6	412.9
3537.2	75°	2701.9	1872.0	372.5	284.8	285.5	304.0	363.6	379.3	356.0	411.5
1840.5	77.5°	1298.2	841.5	269.8	239.6	239.6	256.8	314.3	339.6	303.3	319.8
591.6	80°	448.5	316.3	212.3	193.1	189.0	200.6	265.0	294.4	261.6	241.0
193.1	82.5°	176.7	164.3	170.5	150.0	136.3	143.8	206.1	243.1	192.4	173.9
108.9	85°	101.3	106.8	120.5	99.3	78.7	88.3	151.3	174.6	145.2	128.0
35.6	87.5°	27.4	37.7	55.5	51.4	35.6	37.7	71.9	96.5	83.5	64.4
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>
1445.4
1482.4
1541.3
1612.5
1678.2
1701.5
1702.2
1672.1
1601.5
1501.6
1396.8
1300.9
1216.0
1109.9
990.8
872.3
766.2
677.2
588.8
538.9
507.4
485.5
470.4
454.0
425.9
402.6
393.0
392.3
386.2
418.4
414.9
293.1
226.0
173.2
130.8
66.4
0.0

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