

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: P939817

Luminaire Tested: **GALN-SB2C-830-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939817  
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-830-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

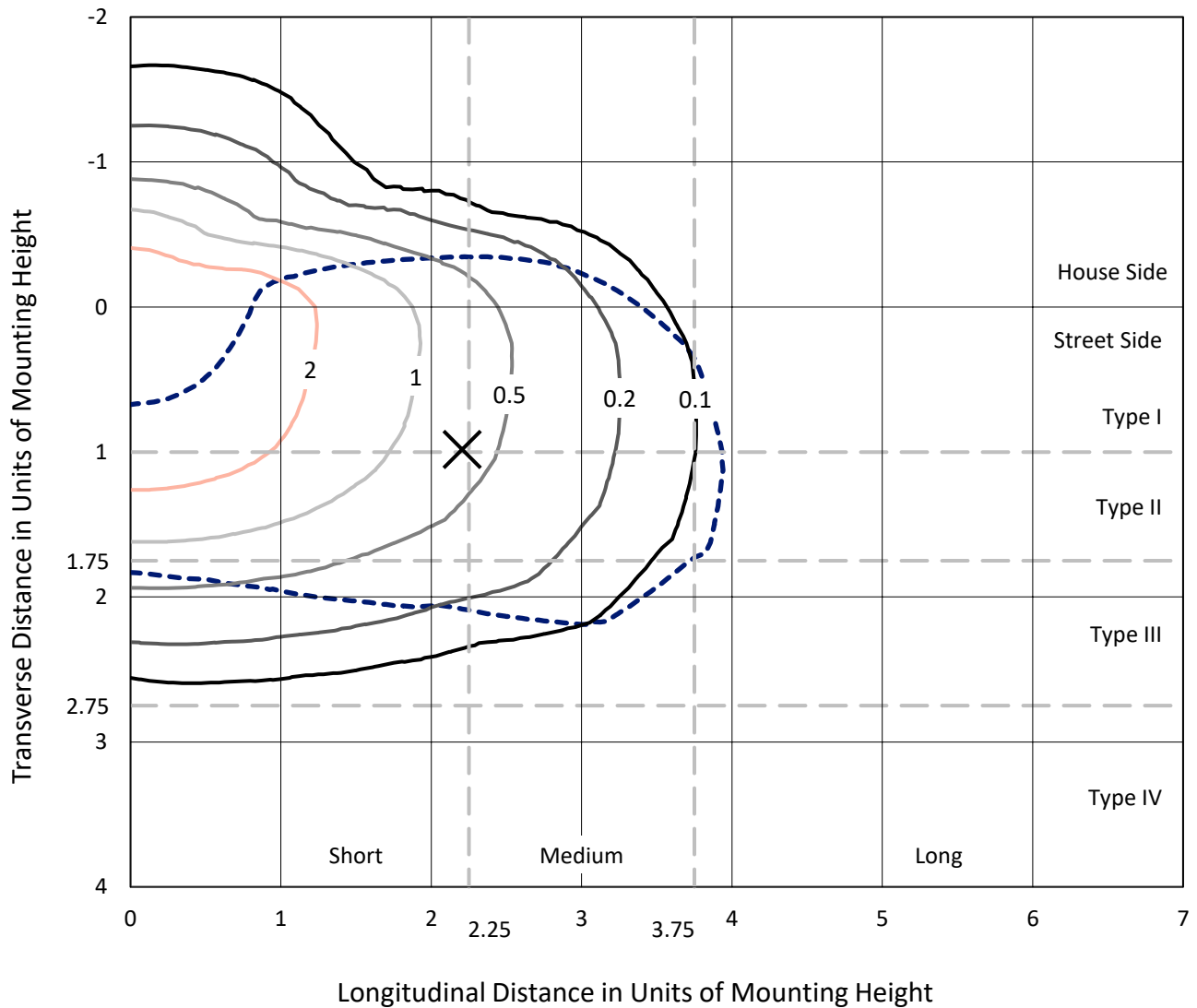
Lumens per Lamp: N/A  
Luminaire Lumens: 13467 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

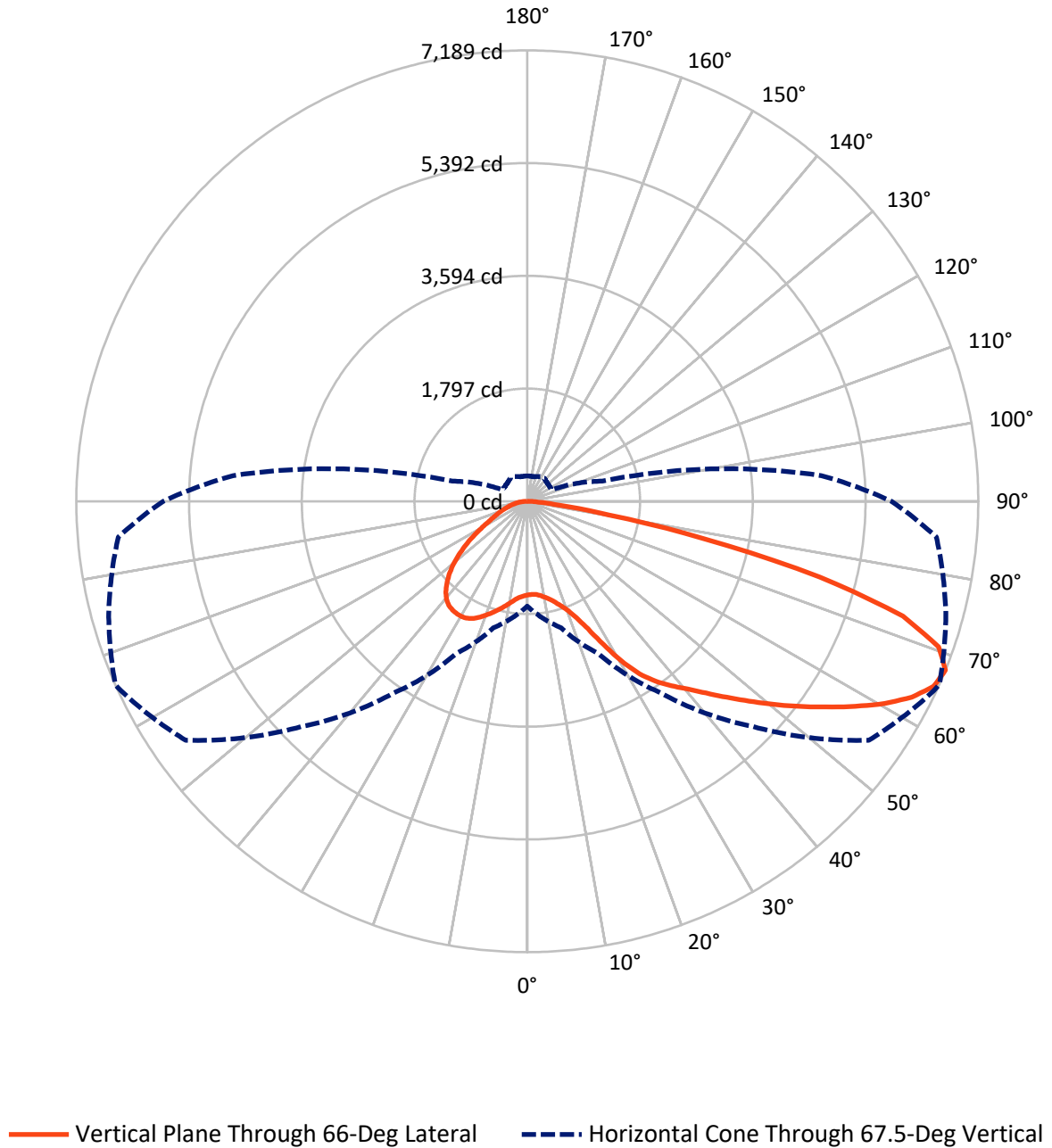
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	3348.5	0.0	3348.5
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	10118.5	0.0	10118.5
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	13467.0	0.0	13467.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.1	1.1
10°-20°	489.3	3.6
20°-30°	943.0	7.0
30°-40°	1653.5	12.3
40°-50°	2458.2	18.3
50°-60°	3116.0	23.1
60°-70°	3049.0	22.6
70°-80°	1454.4	10.8
80°-90°	155.4	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°	13467.0	100.0
0°-180°	13467.0	100.0

**Coefficient of Utilization**



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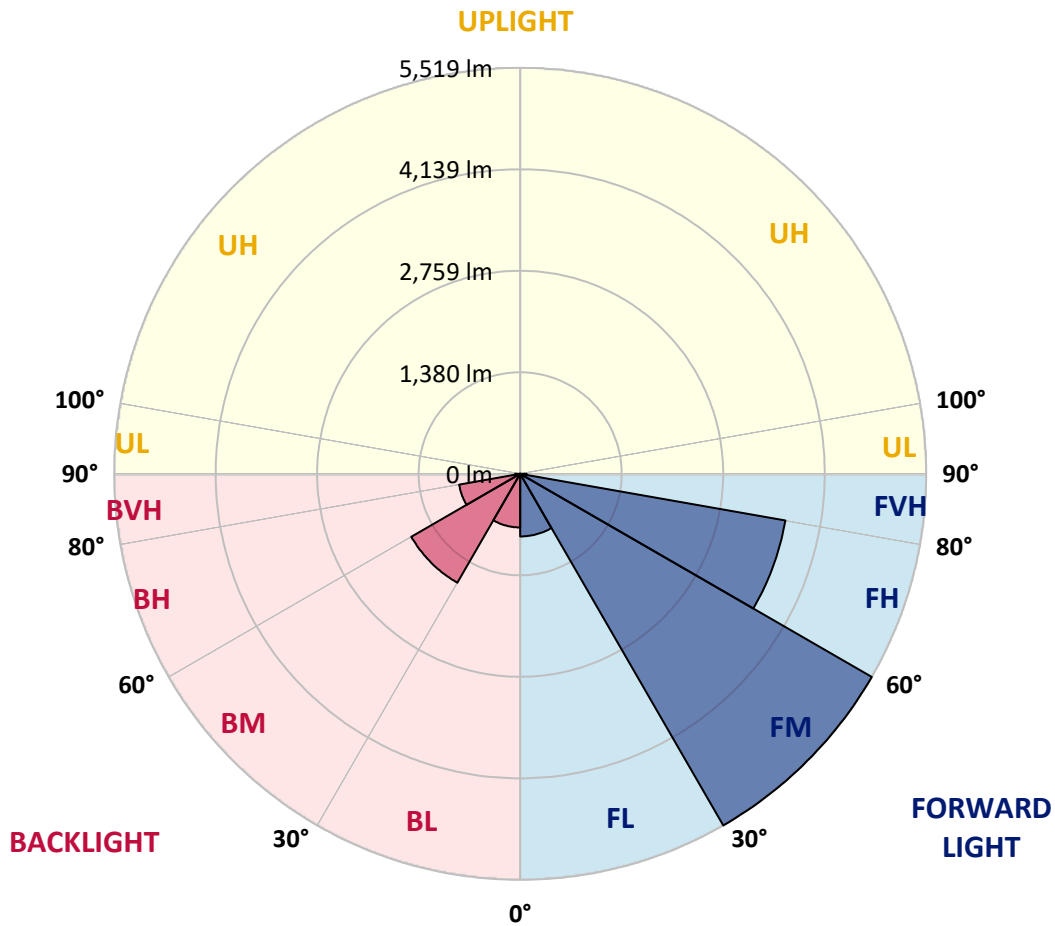
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	851.0	6.3			
FM (30°-60°)	5518.7	41.0			
FH (60°-80°)	3660.7	27.2			G2/5000
FVH (80°-90°)	88.1	0.7			G1/100
BL (0°-30°)	729.4	5.4	B2/1000		
BM (30°-60°)	1709.1	12.7	B2/2500		
BH (60°-80°)	842.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	67.3	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°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7
2.5°	1478.1	1486.6	1484.5	1480.9	1480.2	1481.6	1483.8	1485.9	1485.2	1488.7
5°	1473.9	1482.3	1481.6	1481.6	1484.5	1490.1	1493.7	1497.2	1493.7	1497.9
7.5°	1476.7	1483.1	1485.9	1488.7	1495.8	1506.4	1514.9	1522.7	1518.4	1523.4
10°	1512.8	1517.7	1520.6	1520.6	1525.5	1537.5	1546.0	1560.2	1556.6	1564.4
12.5°	1578.6	1583.5	1583.5	1580.7	1584.2	1592.0	1594.8	1610.4	1604.0	1616.8
15°	1659.2	1669.1	1661.4	1656.4	1657.8	1665.6	1664.9	1676.9	1670.6	1681.2
17.5°	1748.4	1761.1	1748.4	1747.7	1744.9	1753.3	1754.1	1764.7	1753.3	1761.1
20°	1853.8	1871.5	1860.9	1864.4	1858.1	1861.6	1865.1	1880.7	1863.0	1868.7
22.5°	2002.4	2023.6	2012.3	2025.8	2021.5	2018.7	2018.0	2045.6	2018.0	2020.1
25°	2218.9	2244.4	2224.6	2243.0	2243.0	2252.2	2262.8	2298.2	2252.2	2238.7
27.5°	2538.7	2564.2	2525.3	2536.6	2533.1	2555.7	2544.4	2632.1	2582.6	2560.7
30°	2923.7	2968.9	2895.4	2892.5	2889.0	2925.1	2941.3	2999.4	2949.1	2927.2
32.5°	3339.7	3387.1	3299.4	3273.9	3260.5	3282.4	3268.9	3315.6	3281.0	3247.0
35°	3779.8	3826.5	3743.0	3693.5	3639.7	3593.7	3545.6	3557.6	3525.1	3473.4
37.5°	4195.9	4281.5	4193.0	4140.0	4040.9	3951.0	3816.6	3760.7	3730.3	3682.9
40°	4619.7	4668.5	4601.3	4556.0	4448.5	4307.7	4092.6	3974.4	3933.4	3887.4
42.5°	4931.7	4978.4	4942.3	4911.2	4827.0	4663.6	4385.5	4237.6	4178.2	4126.5
45°	5179.4	5214.0	5191.4	5202.7	5166.6	5008.1	4689.0	4519.9	4458.4	4395.4
47.5°	5279.1	5315.9	5352.0	5419.2	5480.8	5364.0	5015.2	4825.6	4760.5	4696.1
50°	5267.8	5305.3	5410.0	5553.0	5744.0	5705.1	5359.1	5151.1	5090.9	5017.3
52.5°	5177.2	5219.7	5354.1	5591.9	5896.1	5960.5	5709.3	5487.2	5430.6	5342.8
55°	4939.5	4965.0	5166.6	5503.4	5932.2	6138.8	6052.5	5845.2	5788.6	5666.2
57.5°	4498.7	4535.5	4829.1	5265.0	5841.7	6259.8	6353.9	6221.6	6167.1	5990.9
60°	3923.4	3982.2	4318.3	4864.5	5611.0	6259.1	6627.8	6591.7	6546.4	6310.8
62.5°	3272.5	3340.4	3663.8	4298.5	5207.7	6081.5	6799.0	6901.6	6878.2	6605.8
65°	2513.3	2560.0	2881.9	3566.1	4580.1	5700.1	6818.8	7113.1	7117.4	6830.1
67.5°	1673.4	1807.8	2087.3	2676.0	3739.5	5076.8	6644.7	7147.8	7188.9	6907.2
70°	816.5	993.4	1267.2	1739.2	2676.0	4120.9	6189.8	6863.4	6954.6	6682.2
72.5°	338.9	396.2	545.5	858.3	1536.1	2780.7	5275.6	6092.1	6261.2	5920.9
75°	228.5	247.6	312.0	440.1	699.8	1371.3	3804.6	4542.6	4815.0	4471.8
77.5°	176.2	188.2	227.1	307.8	416.0	518.6	2036.4	2737.6	2878.4	2664.7
80°	138.7	147.9	169.8	224.3	295.1	277.4	694.1	1240.4	1321.7	1108.8
82.5°	120.3	123.8	121.7	152.1	196.0	162.0	227.8	457.8	505.2	366.5
85°	87.0	96.9	101.2	94.1	104.0	82.1	93.4	162.0	178.3	159.2
87.5°	35.4	52.4	64.4	60.9	38.2	23.3	29.0	47.4	54.5	59.4
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°
1493.7	0°	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7	1493.7
1494.4	2.5°	1495.1	1500.0	1503.6	1507.8	1510.6	1514.9	1523.4	1528.3	1529.0	1532.6
1505.7	5°	1508.5	1515.6	1523.4	1534.7	1547.4	1558.1	1574.3	1585.7	1589.9	1593.4
1533.3	7.5°	1537.5	1547.4	1561.6	1581.4	1599.8	1614.0	1633.8	1647.2	1660.7	1665.6
1577.2	10°	1580.7	1594.8	1615.4	1642.3	1662.1	1680.5	1701.0	1712.3	1725.7	1731.4
1629.5	12.5°	1634.5	1649.3	1676.2	1713.7	1732.1	1744.9	1751.9	1749.1	1751.9	1756.9
1692.5	15°	1696.0	1712.3	1742.7	1783.1	1795.8	1784.5	1768.9	1754.8	1752.6	1754.1
1768.9	17.5°	1768.9	1780.9	1816.3	1850.3	1841.1	1794.4	1760.4	1737.8	1726.5	1722.9
1866.6	20°	1870.8	1870.8	1899.8	1921.0	1859.5	1780.2	1727.2	1690.4	1667.0	1657.1
1999.6	22.5°	1994.6	1983.3	2001.7	1986.8	1855.9	1740.6	1667.0	1603.3	1568.0	1553.8
2185.7	25°	2151.7	2138.3	2133.3	2041.3	1830.5	1677.6	1558.1	1480.9	1449.8	1442.0
2453.8	27.5°	2388.7	2354.8	2290.4	2071.0	1783.8	1578.6	1430.7	1359.2	1341.5	1342.2
2798.4	30°	2704.3	2636.4	2478.6	2076.0	1707.4	1438.5	1300.5	1249.6	1241.1	1244.6
3087.8	32.5°	2996.5	2932.1	2671.1	2053.4	1589.9	1301.2	1183.8	1149.8	1137.1	1141.3
3308.6	35°	3225.8	3208.1	2849.4	2021.5	1445.6	1172.4	1079.0	1050.0	1025.3	1019.6
3516.6	37.5°	3442.3	3435.2	2983.1	1976.9	1302.6	1081.2	994.8	956.6	920.5	900.7
3746.6	40°	3680.0	3673.0	3070.8	1908.3	1176.0	1001.9	919.1	868.9	824.3	788.2
4006.9	42.5°	3947.5	3905.8	3112.6	1809.9	1068.4	934.7	857.6	789.6	730.9	697.7
4301.3	45°	4239.7	4145.6	3111.9	1684.7	977.9	873.1	791.8	695.5	641.1	609.9
4603.4	47.5°	4549.6	4374.9	3073.7	1546.0	890.1	805.2	689.9	616.3	580.2	561.1
4931.7	50°	4869.5	4589.3	3008.6	1386.8	800.3	728.1	626.2	576.0	548.4	530.7
5257.2	52.5°	5170.2	4783.8	2930.0	1206.4	709.0	653.1	597.9	559.0	530.0	510.2
5572.8	55°	5449.7	4951.5	2818.9	1021.7	634.7	602.8	584.4	551.9	518.6	495.3
5893.3	57.5°	5698.0	5060.5	2627.2	848.4	581.6	568.2	570.3	539.9	501.7	481.9
6208.9	60°	5904.6	5140.5	2343.5	687.8	538.5	534.2	548.4	517.2	472.7	450.0
6475.6	62.5°	6028.4	5139.0	1995.3	563.2	501.7	503.1	519.4	488.9	443.6	422.4
6615.0	65°	6017.8	5013.1	1613.2	481.9	466.3	467.7	488.9	457.8	419.6	406.8
6545.0	67.5°	5804.9	4706.0	1237.5	428.8	427.4	433.7	458.5	436.6	404.7	403.3
6127.5	70°	5228.2	4068.5	891.5	386.3	387.0	396.2	428.8	423.1	396.9	399.8
5151.8	72.5°	4192.3	3102.0	598.6	341.8	342.5	357.3	400.5	412.5	389.2	426.7
3655.3	75°	2792.0	1934.5	384.9	294.3	295.1	314.2	375.7	392.0	367.9	425.2
1901.9	77.5°	1341.5	869.6	278.8	247.6	247.6	265.3	324.8	351.0	313.5	330.4
611.3	80°	463.5	326.9	219.3	199.5	195.3	207.3	273.8	304.3	270.3	249.1
199.5	82.5°	182.6	169.8	176.2	155.0	140.8	148.6	213.0	251.2	198.8	179.7
112.5	85°	104.7	110.4	124.5	102.6	81.4	91.3	156.4	180.4	150.0	132.3
36.8	87.5°	28.3	38.9	57.3	53.1	36.8	38.9	74.3	99.8	86.3	66.5
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>
1493.7
1531.9
1592.7
1666.3
1734.2
1758.3
1759.0
1727.9
1655.0
1551.7
1443.4
1344.4
1256.6
1147.0
1023.8
901.4
791.8
699.8
608.5
556.9
524.3
501.7
486.1
469.1
440.1
416.0
406.1
405.4
399.1
432.3
428.8
302.8
233.5
179.0
135.1
68.6
0.0

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