

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: P948019

Luminaire Tested: **GALN-SB3A-940-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948019  
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-SB3A-940-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

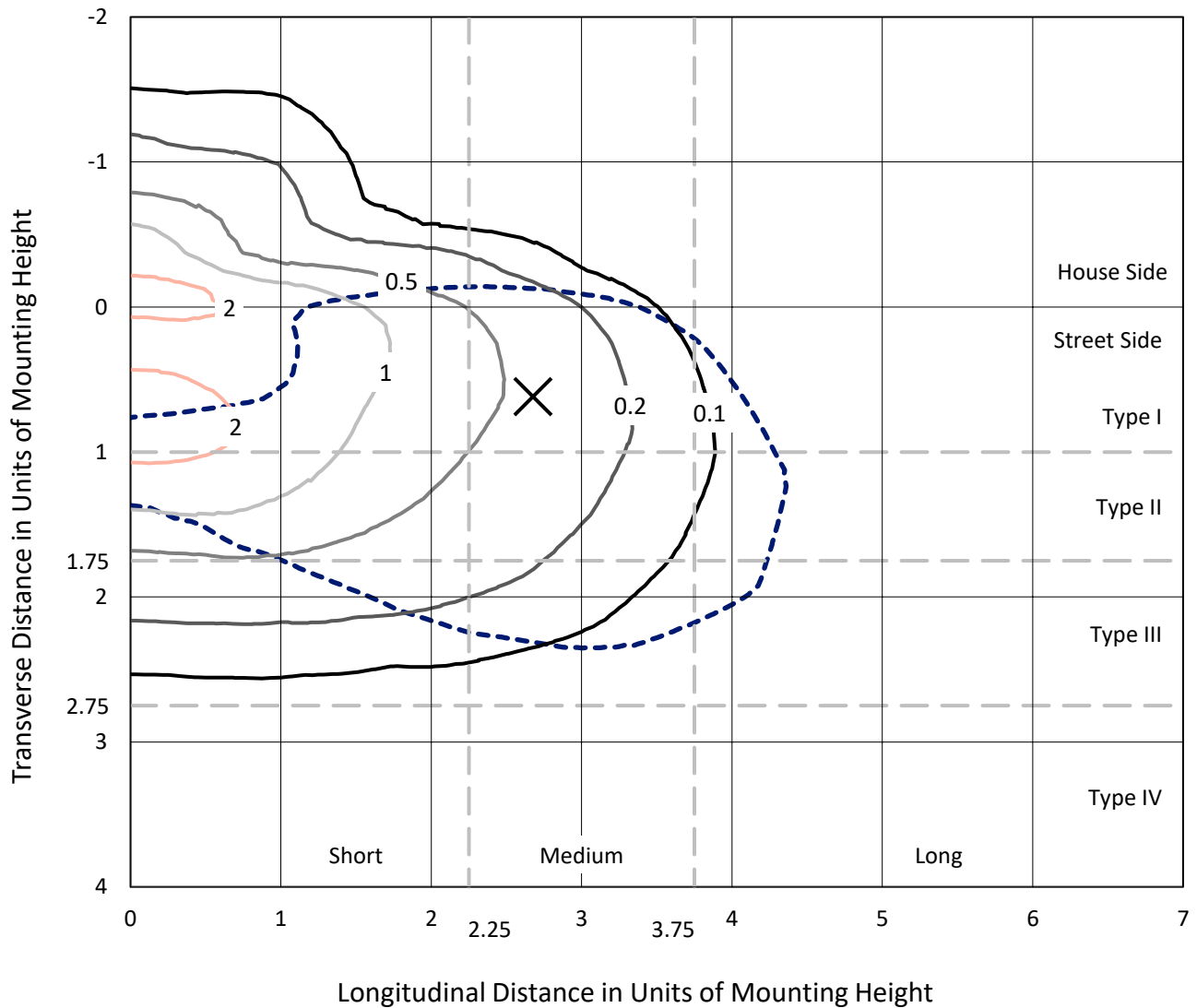
Lumens per Lamp: N/A  
Luminaire Lumens: 10012 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

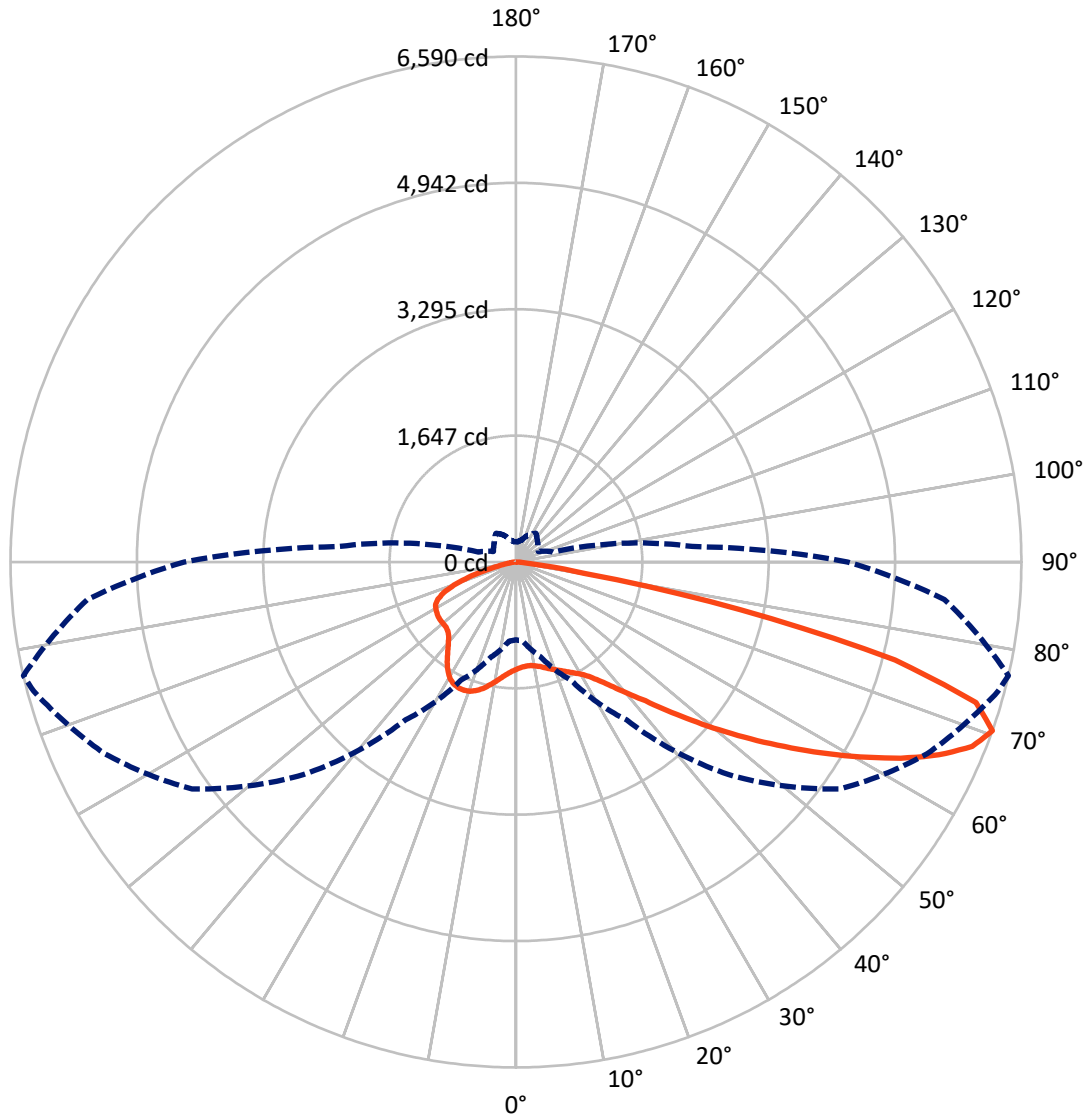
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Medium - N/A

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### 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
<b>House Side</b>	Lumens	2192.5	0.0	2192.5
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	7819.5	0.0	7819.5
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	10012.0	0.0	10012.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.2	1.3
10°-20°	384.5	3.8
20°-30°	657.5	6.6
30°-40°	1057.3	10.6
40°-50°	1650.8	16.5
50°-60°	2205.0	22.0
60°-70°	2350.2	23.5
70°-80°	1446.8	14.5
80°-90°	126.8	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°	10012.0	100.0
0°-180°	10012.0	100.0

**Coefficient of Utilization**



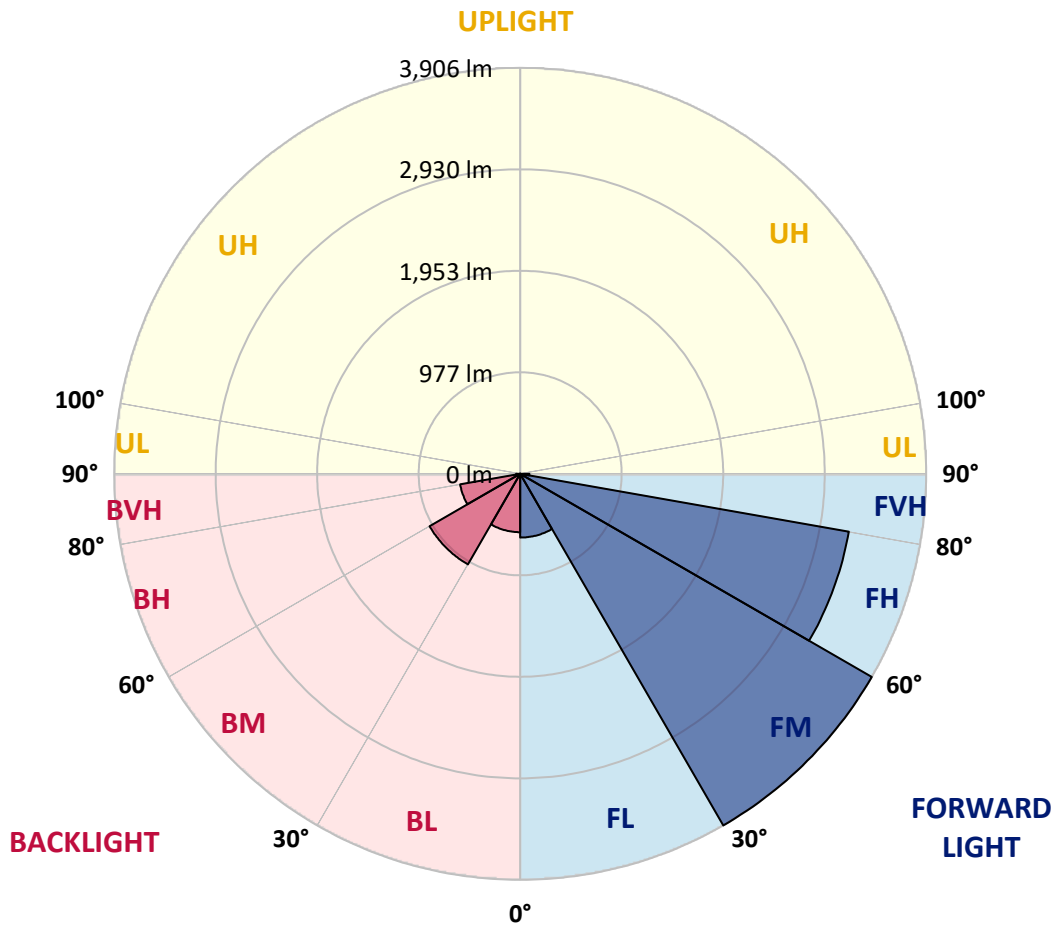
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.4	6.1			
FM (30°-60°)	3906.5	39.0			
FH (60°-80°)	3211.0	32.1			G2/5000
FVH (80°-90°)	88.6	0.9			G1/100
BL (0°-30°)	561.8	5.6	B2/1000		
BM (30°-60°)	1006.6	10.1	B2/2500		
BH (60°-80°)	586.0	5.9	B2/1000		G2/1000
BVH (80°-90°)	38.1	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°	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8
2.5°	1287.5	1287.0	1293.7	1295.8	1308.1	1316.8	1333.2	1350.6	1373.2	1375.7
5°	1213.2	1213.2	1220.9	1229.1	1245.0	1262.4	1287.5	1317.8	1356.8	1362.9
7.5°	1150.1	1154.2	1160.9	1176.8	1195.2	1220.4	1258.8	1301.9	1353.2	1362.9
10°	1099.4	1104.0	1112.2	1125.0	1152.7	1187.6	1237.8	1293.2	1361.9	1377.3
12.5°	1083.5	1088.1	1092.7	1102.4	1128.1	1169.1	1229.1	1297.3	1382.9	1398.3
15°	1120.4	1126.0	1122.4	1119.9	1133.2	1170.6	1233.2	1312.2	1409.1	1431.1
17.5°	1205.5	1207.6	1199.4	1175.3	1173.2	1193.2	1252.7	1332.7	1441.9	1466.0
20°	1342.9	1339.3	1322.4	1274.7	1247.6	1243.4	1286.0	1363.4	1475.7	1501.4
22.5°	1529.6	1525.5	1491.6	1416.3	1355.7	1315.7	1334.2	1403.4	1513.7	1542.4
25°	1762.4	1756.7	1707.0	1604.4	1510.6	1411.6	1399.8	1456.2	1560.3	1587.0
27.5°	2034.1	2029.5	1975.7	1840.3	1704.9	1542.9	1481.4	1518.3	1609.0	1639.3
30°	2326.4	2339.7	2244.4	2098.7	1927.5	1714.2	1591.1	1594.7	1672.1	1699.3
32.5°	2670.0	2693.0	2578.2	2393.6	2159.8	1900.3	1729.5	1701.3	1763.9	1786.5
35°	3010.4	3036.6	2941.2	2737.1	2467.9	2119.8	1874.1	1823.9	1885.9	1910.6
37.5°	3304.8	3339.6	3290.4	3113.0	2797.6	2384.3	2062.8	1968.0	2036.2	2066.9
40°	3537.0	3590.4	3586.8	3476.0	3186.3	2705.3	2302.3	2145.9	2222.8	2256.2
42.5°	3725.7	3771.9	3811.9	3806.2	3591.9	3069.9	2583.8	2377.2	2435.6	2474.1
45°	3856.0	3905.2	3991.3	4084.2	3982.1	3460.1	2906.3	2651.5	2704.8	2762.8
47.5°	3972.4	4028.3	4140.0	4287.2	4313.4	3851.9	3259.6	2970.9	3019.7	3079.7
50°	3982.6	4030.8	4204.1	4412.8	4548.7	4228.2	3639.1	3329.4	3375.0	3439.1
52.5°	3735.0	3810.9	4113.4	4409.2	4656.9	4543.1	4016.0	3702.1	3753.4	3830.3
55°	2899.2	3010.4	3847.3	4271.8	4618.5	4746.6	4374.4	4098.5	4164.1	4244.6
57.5°	2497.2	2545.9	3054.0	4021.6	4443.1	4799.5	4676.9	4499.0	4604.6	4692.8
60°	2244.4	2284.9	2585.3	3632.4	4212.3	4715.9	4910.7	4872.3	5054.8	5159.9
62.5°	1973.6	2012.1	2285.4	3033.0	3917.0	4576.9	5058.4	5216.8	5516.3	5631.2
65°	1704.9	1737.8	1999.8	2548.4	3541.7	4438.0	5134.8	5514.8	5943.4	6062.4
67.5°	1405.5	1432.7	1680.3	2150.0	3085.3	4247.7	5172.7	5749.1	6315.2	6417.2
70°	1014.2	1035.3	1291.1	1700.3	2512.5	3920.6	5157.4	5915.2	6508.0	6589.5
72.5°	479.4	498.4	798.9	1104.0	1774.7	3283.7	4846.1	5783.4	6312.1	6271.6
75°	255.9	272.3	458.9	605.6	937.3	2251.0	3965.7	4982.0	5300.4	5103.5
77.5°	173.3	186.1	284.1	363.5	428.2	1068.6	2548.9	3449.4	3318.6	2993.5
80°	137.4	150.8	232.8	246.1	207.2	386.1	1053.2	1596.7	1147.0	917.3
82.5°	105.6	120.5	195.9	178.4	112.8	158.4	306.6	505.1	293.8	223.6
85°	64.6	80.5	153.8	113.8	63.6	72.3	104.1	140.5	89.7	74.9
87.5°	32.8	46.1	77.9	41.5	28.7	16.9	27.7	27.7	23.6	20.5
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°
1396.8	0°	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8
1389.6	2.5°	1401.9	1412.1	1429.6	1446.0	1458.8	1471.1	1483.4	1490.1	1492.1	1500.3
1397.3	5°	1418.3	1437.3	1471.1	1502.9	1522.9	1535.2	1543.9	1549.1	1550.1	1552.6
1418.3	7.5°	1448.6	1478.8	1526.0	1557.8	1572.6	1571.6	1568.0	1555.2	1550.1	1545.5
1449.1	10°	1491.1	1531.1	1589.1	1611.1	1601.9	1577.3	1545.5	1508.0	1490.6	1473.7
1491.1	12.5°	1543.9	1594.7	1651.6	1650.6	1604.9	1541.9	1468.0	1410.6	1374.2	1348.1
1542.9	15°	1608.0	1666.5	1710.1	1675.2	1575.2	1461.9	1353.7	1278.8	1246.0	1217.3
1595.2	17.5°	1674.2	1736.7	1756.7	1667.5	1500.3	1343.4	1220.9	1161.9	1129.6	1114.2
1651.6	20°	1738.8	1800.8	1784.4	1623.4	1386.5	1209.1	1099.9	1067.6	1060.9	1064.5
1706.5	22.5°	1807.0	1862.4	1790.1	1538.3	1241.4	1071.7	1011.7	1012.7	1027.6	1038.3
1763.9	25°	1876.7	1914.1	1775.2	1415.2	1085.5	970.7	955.8	972.2	1001.4	1022.4
1828.5	27.5°	1943.9	1960.3	1742.9	1262.9	951.7	898.4	900.9	934.8	978.9	1008.1
1907.0	30°	2019.8	2001.3	1680.8	1091.7	858.9	836.3	857.9	897.3	941.4	967.6
2005.9	32.5°	2105.4	2036.7	1582.4	933.2	793.2	786.6	822.0	847.6	867.1	874.8
2137.2	35°	2212.1	2086.4	1456.2	822.0	734.3	750.2	784.0	771.2	763.5	759.4
2313.6	37.5°	2350.5	2153.6	1308.6	749.7	686.6	724.0	737.9	697.9	667.6	652.7
2527.4	40°	2517.2	2252.1	1166.5	693.8	656.3	701.5	677.4	629.2	590.7	569.7
2767.9	42.5°	2702.3	2355.1	1047.1	651.7	639.4	683.0	632.7	575.3	513.3	506.6
3054.5	45°	2896.6	2461.3	965.5	619.4	631.2	667.1	607.1	514.3	470.2	497.4
3342.2	47.5°	3090.9	2558.7	916.3	595.3	627.1	649.2	584.5	480.5	449.2	488.7
3650.4	50°	3307.3	2645.9	894.3	577.9	622.5	642.0	550.7	471.7	427.1	453.3
3969.3	52.5°	3522.2	2713.5	877.8	560.4	615.8	636.3	534.3	461.5	400.5	402.0
4290.3	55°	3736.5	2757.6	859.9	537.4	601.0	624.0	532.8	450.2	380.5	373.3
4629.7	57.5°	3965.2	2782.8	837.9	511.7	575.3	592.8	531.2	441.5	374.3	362.5
4976.9	60°	4198.0	2819.7	809.1	480.5	541.0	555.3	527.6	438.4	370.7	350.7
5304.0	62.5°	4406.7	2832.5	774.8	450.7	496.9	518.4	519.9	435.8	361.0	326.6
5575.8	65°	4543.6	2777.1	714.8	416.9	449.2	480.5	505.1	427.1	343.6	309.2
5710.1	67.5°	4537.9	2619.2	621.0	373.3	403.0	438.4	483.5	412.3	322.5	287.7
5608.6	70°	4326.7	2307.4	502.0	322.5	352.3	393.3	455.8	390.2	297.4	264.1
4987.1	72.5°	3710.9	1805.9	364.6	263.0	293.3	346.6	420.0	363.5	271.8	243.0
3685.7	75°	2651.0	1142.9	247.2	202.0	228.2	293.8	375.3	332.3	248.2	244.1
1845.9	77.5°	1354.2	546.1	163.6	147.7	159.0	231.8	315.3	296.9	251.8	201.5
525.1	80°	440.5	201.5	103.1	100.5	105.6	154.3	244.1	243.6	190.7	136.9
127.2	82.5°	140.5	86.7	67.2	64.6	62.0	96.9	170.2	192.8	128.7	86.7
45.6	85°	55.9	51.8	39.5	36.4	26.2	45.6	89.2	128.2	95.9	62.6
11.8	87.5°	20.5	20.5	10.8	7.7	5.6	15.4	24.1	38.5	54.9	32.3
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>
1396.8
1505.0
1556.7
1546.5
1468.6
1341.9
1214.2
1118.8
1063.0
1040.9
1028.1
1015.3
973.7
878.9
763.5
656.3
571.2
513.3
511.7
507.1
472.8
412.8
378.4
364.1
352.3
326.6
309.2
289.2
267.1
241.5
230.2
179.5
121.0
86.1
64.1
31.8
0.0

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