

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: P950871

Luminaire Tested: **GALN-SB5A-940-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950871  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5A-940-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

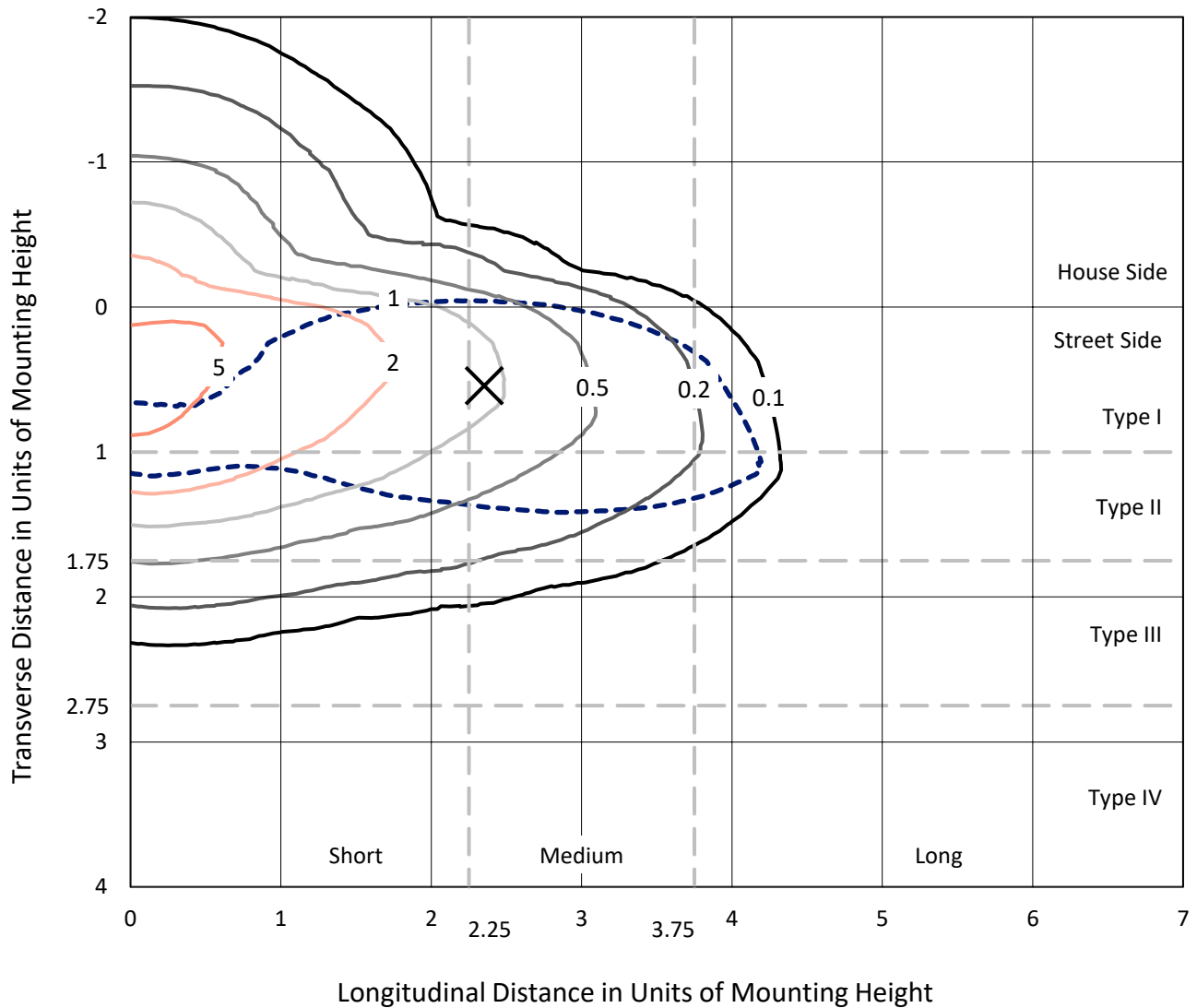
Lumens per Lamp: N/A  
Luminaire Lumens: 16725 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

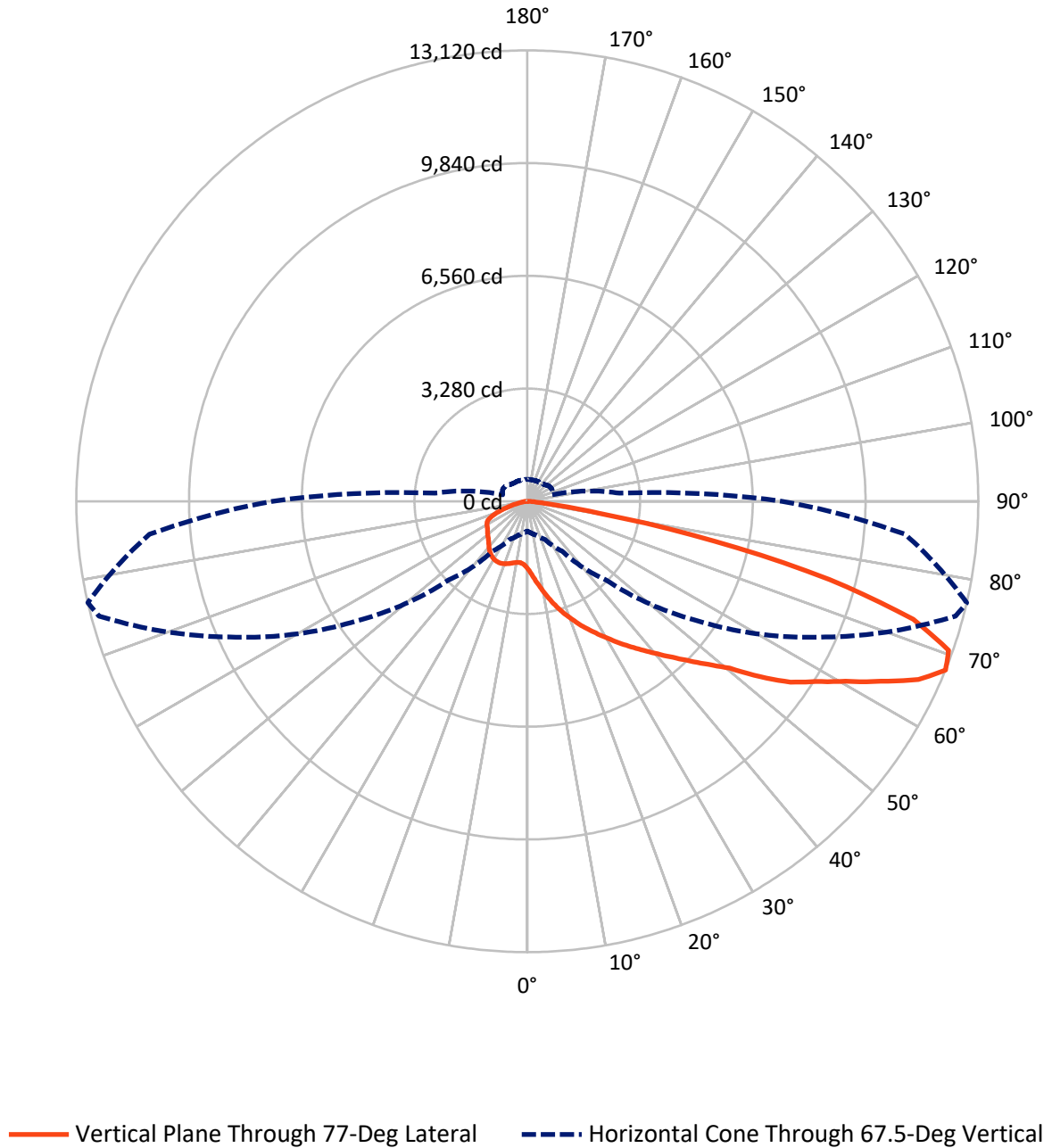
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3163.7	0.0	3163.7
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	13561.3	0.0	13561.3
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	16725.0	0.0	16725.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.3	1.3
10°-20°	755.7	4.5
20°-30°	1426.8	8.5
30°-40°	2298.5	13.7
40°-50°	3143.9	18.8
50°-60°	3546.4	21.2
60°-70°	3310.1	19.8
70°-80°	1814.5	10.8
80°-90°	218.9	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°	16725.0	100.0
0°-180°	16725.0	100.0



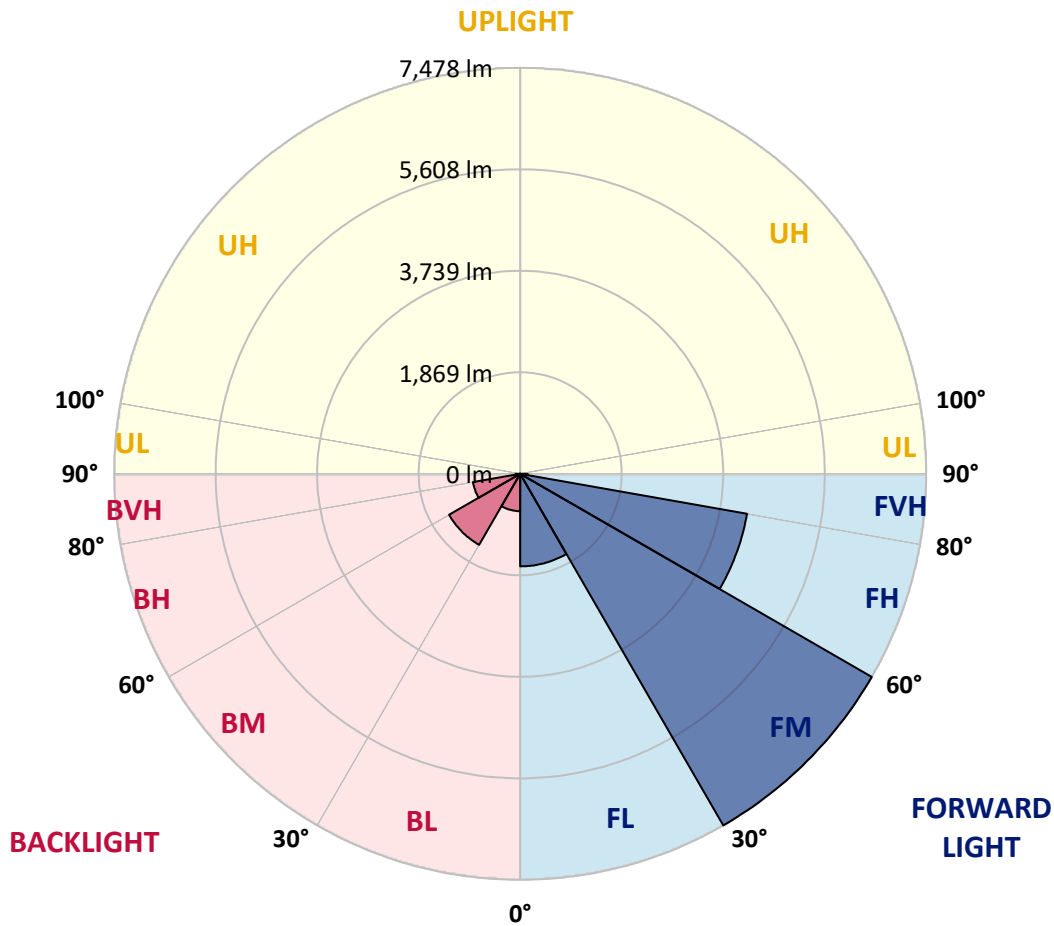
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1704.9	10.2			
FM (30°-60°)	7477.6	44.7			
FH (60°-80°)	4242.0	25.4			G2/5000
FVH (80°-90°)	136.9	0.8			G2/225
BL (0°-30°)	687.9	4.1	B2/1000		
BM (30°-60°)	1511.2	9.0	B2/2500		
BH (60°-80°)	882.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	82.0	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4
2.5°	2457.1	2474.3	2452.7	2452.7	2380.2	2342.2	2269.7	2214.5	2115.2	2097.9
5°	2904.3	2925.8	2895.6	2882.7	2797.2	2718.6	2596.9	2476.9	2299.9	2281.8
7.5°	3250.5	3278.1	3251.3	3237.5	3161.5	3073.5	2931.0	2763.5	2514.0	2478.6
10°	3532.8	3537.1	3528.5	3533.6	3474.1	3401.5	3255.6	3060.5	2748.9	2700.5
12.5°	3692.5	3712.3	3729.6	3760.7	3750.3	3705.4	3574.2	3341.1	2997.5	2935.3
15°	3767.6	3802.1	3841.0	3912.6	3970.5	3981.7	3881.6	3642.4	3250.5	3175.3
17.5°	3794.4	3827.2	3888.5	3992.1	4116.4	4200.1	4155.2	3935.1	3500.8	3414.5
20°	3929.9	3939.4	3976.5	4074.9	4209.6	4348.6	4382.3	4216.5	3748.6	3651.0
22.5°	4220.0	4201.0	4211.4	4256.2	4352.9	4487.6	4564.5	4465.2	4003.3	3891.1
25°	4699.1	4643.9	4588.6	4536.8	4586.0	4662.0	4749.2	4713.8	4270.1	4127.6
27.5°	5304.3	5237.0	5115.3	4945.2	4885.6	4912.4	4951.2	4944.3	4517.0	4372.8
30°	5900.0	5821.5	5676.4	5430.4	5273.3	5202.5	5173.1	5153.3	4785.5	4631.8
32.5°	6375.7	6313.6	6171.1	5895.7	5667.8	5546.9	5449.4	5378.6	5066.1	4912.4
35°	6791.9	6734.0	6570.8	6270.4	6022.6	5894.0	5766.2	5615.1	5357.9	5202.5
37.5°	7171.7	7113.9	6890.3	6577.8	6328.3	6239.3	6125.4	5869.0	5650.5	5503.8
40°	7411.7	7398.8	7189.9	6835.9	6576.9	6532.9	6494.9	6163.4	5975.1	5838.7
42.5°	7473.0	7501.5	7335.8	7044.8	6797.9	6762.5	6851.4	6496.6	6339.5	6209.1
45°	7325.4	7407.4	7298.6	7100.9	6955.0	6936.0	7167.4	6860.9	6742.7	6623.5
47.5°	6951.6	7090.6	7045.7	7018.1	6997.3	7079.4	7445.4	7247.7	7199.4	7095.8
50°	6197.0	6460.3	6538.9	6713.3	6913.6	7190.7	7698.4	7669.9	7732.9	7628.4
52.5°	4892.5	5255.1	5711.0	6147.8	6656.3	7153.6	7976.4	8275.9	8541.8	8484.9
55°	4038.7	4201.9	4552.4	5353.5	6157.3	6997.3	8101.5	8765.4	9344.7	9293.8
57.5°	3382.5	3528.5	3744.3	4413.4	5402.8	6642.5	8179.2	9064.2	9894.7	9889.5
60°	2678.9	2833.5	3054.5	3528.5	4521.3	6029.5	8162.0	9404.3	10596.6	10639.7
62.5°	1884.7	2054.7	2299.9	2742.0	3620.8	5235.3	7809.7	9650.4	11422.8	11540.2
65°	1238.9	1351.1	1535.9	1917.5	2697.9	4213.9	7137.2	9682.3	12306.9	12505.4
67.5°	868.5	911.7	1020.5	1227.7	1778.5	3231.5	6065.8	9351.7	12896.5	13120.1
70°	677.7	699.3	754.6	837.4	1117.2	2173.0	4648.2	8491.8	12770.5	13003.6
72.5°	585.3	606.1	626.8	637.1	749.4	1341.6	3148.6	7100.1	11583.4	11741.4
75°	531.0	536.1	553.4	549.9	571.5	870.2	1817.3	5173.1	9139.3	9084.9
77.5°	446.3	453.3	481.7	477.4	507.6	594.8	943.6	3338.5	5925.1	5555.6
80°	378.1	381.6	412.7	407.5	441.2	430.8	481.7	1701.6	2513.2	2129.0
82.5°	131.2	162.3	315.1	324.6	336.7	260.7	278.0	694.1	767.5	587.9
85°	63.9	68.2	160.6	227.9	227.1	131.2	135.5	247.8	241.7	189.9
87.5°	10.4	13.0	19.0	88.9	70.8	34.5	46.6	48.3	50.1	43.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950871  
 CATALOG NUMBER: GALN-SB5A-940-U-T2R

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1962.4	0°	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4
2032.3	2.5°	1983.9	1940.8	1850.1	1766.4	1700.8	1637.7	1602.4	1572.1	1554.9	1551.4
2127.3	5°	2037.5	1948.5	1783.7	1644.7	1554.0	1486.7	1451.3	1428.8	1417.6	1410.7
2255.0	7.5°	2114.3	1983.9	1749.1	1591.1	1496.2	1447.8	1429.7	1426.2	1425.4	1426.2
2409.6	10°	2220.5	2041.8	1745.7	1578.2	1498.8	1472.0	1471.1	1472.0	1475.4	1476.3
2577.9	12.5°	2335.3	2101.4	1759.5	1589.4	1531.6	1516.9	1514.3	1513.4	1516.0	1517.7
2748.0	15°	2460.5	2179.9	1782.8	1613.6	1567.8	1552.3	1549.7	1544.5	1543.6	1542.8
2926.7	17.5°	2589.1	2257.6	1808.7	1639.5	1591.1	1569.5	1560.0	1548.0	1538.5	1535.9
3111.5	20°	2719.5	2334.5	1826.8	1652.4	1592.9	1562.6	1543.6	1522.9	1506.5	1497.0
3297.9	22.5°	2858.5	2414.8	1838.0	1649.0	1577.3	1535.9	1501.3	1477.2	1452.1	1435.7
3486.1	25°	2994.0	2484.7	1837.2	1630.8	1547.1	1494.4	1450.4	1419.3	1384.8	1367.5
3680.4	27.5°	3124.4	2547.7	1815.6	1598.9	1503.9	1445.2	1392.6	1355.4	1321.8	1305.4
3876.4	30°	3259.1	2600.4	1781.9	1552.3	1453.0	1388.2	1330.4	1298.5	1268.2	1252.7
4083.6	32.5°	3392.9	2648.7	1734.4	1494.4	1394.3	1332.1	1275.1	1245.8	1227.7	1227.7
4306.3	35°	3534.5	2682.4	1671.4	1427.1	1332.1	1272.6	1227.7	1210.4	1208.7	1198.3
4542.0	37.5°	3683.9	2704.0	1594.6	1358.0	1270.8	1214.7	1200.9	1180.2	1162.9	1140.5
4801.0	40°	3841.0	2725.6	1502.2	1286.4	1206.1	1175.0	1169.0	1141.3	1092.1	1036.9
5094.5	42.5°	4031.8	2740.2	1406.4	1214.7	1137.9	1127.5	1136.1	1088.7	1010.1	968.7
5448.5	45°	4252.8	2764.4	1318.3	1143.9	1067.9	1067.9	1104.2	1042.0	977.3	951.4
5852.6	47.5°	4539.4	2820.5	1236.3	1066.2	1003.2	1020.5	1033.4	985.9	949.7	917.7
6344.7	50°	4953.8	2955.2	1151.7	987.7	954.0	988.5	970.4	942.8	900.5	874.6
7126.8	52.5°	5468.4	3034.6	1076.6	916.9	911.7	946.2	920.3	894.4	862.5	827.9
7719.9	55°	5818.9	3049.3	1013.6	865.1	883.2	879.7	870.2	846.9	829.7	783.9
8305.3	57.5°	6210.8	3078.7	961.8	834.0	865.1	827.1	823.6	803.8	781.3	750.2
9019.3	60°	6679.6	3124.4	916.9	821.9	849.5	792.5	775.3	767.5	745.1	729.5
9878.3	62.5°	7190.7	3165.9	871.1	823.6	831.4	758.9	733.0	730.4	716.6	711.4
10684.6	65°	7539.5	3052.8	814.1	821.9	802.9	724.3	691.5	690.7	679.4	677.7
11034.3	67.5°	7417.8	2694.5	737.3	797.7	773.5	689.8	653.5	650.1	635.4	636.3
10669.1	70°	6808.3	2183.4	631.1	738.2	737.3	658.7	613.8	602.6	582.8	586.2
9276.5	72.5°	5665.2	1617.9	488.6	638.9	679.4	630.2	568.1	549.9	524.9	528.4
6848.0	75°	4091.3	1099.9	355.7	486.1	591.4	596.6	523.2	492.1	461.9	467.1
3811.6	77.5°	2093.6	623.3	261.6	335.0	464.5	542.2	482.6	441.2	434.3	482.6
1099.0	80°	682.9	312.5	181.3	234.8	304.8	443.8	423.0	375.6	373.8	385.0
230.5	82.5°	203.7	132.1	116.6	154.5	168.4	340.2	365.2	284.0	244.3	257.3
76.8	85°	69.9	63.9	66.5	76.8	80.3	199.4	255.5	188.2	177.8	196.0
17.3	87.5°	16.4	22.4	19.0	17.3	17.3	48.3	99.3	78.6	108.8	72.5
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>
1962.4
1551.4
1409.8
1428.8
1477.2
1518.6
1541.9
1538.5
1500.5
1436.6
1367.5
1304.5
1251.8
1228.5
1195.7
1137.0
1029.1
969.5
955.7
916.9
872.0
821.0
784.8
739.9
733.8
711.4
676.9
636.3
589.7
527.5
468.8
475.7
330.7
265.9
193.4
69.9
0.0

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