

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: P950808

Luminaire Tested: **GALN-SB5A-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950808
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-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14049 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

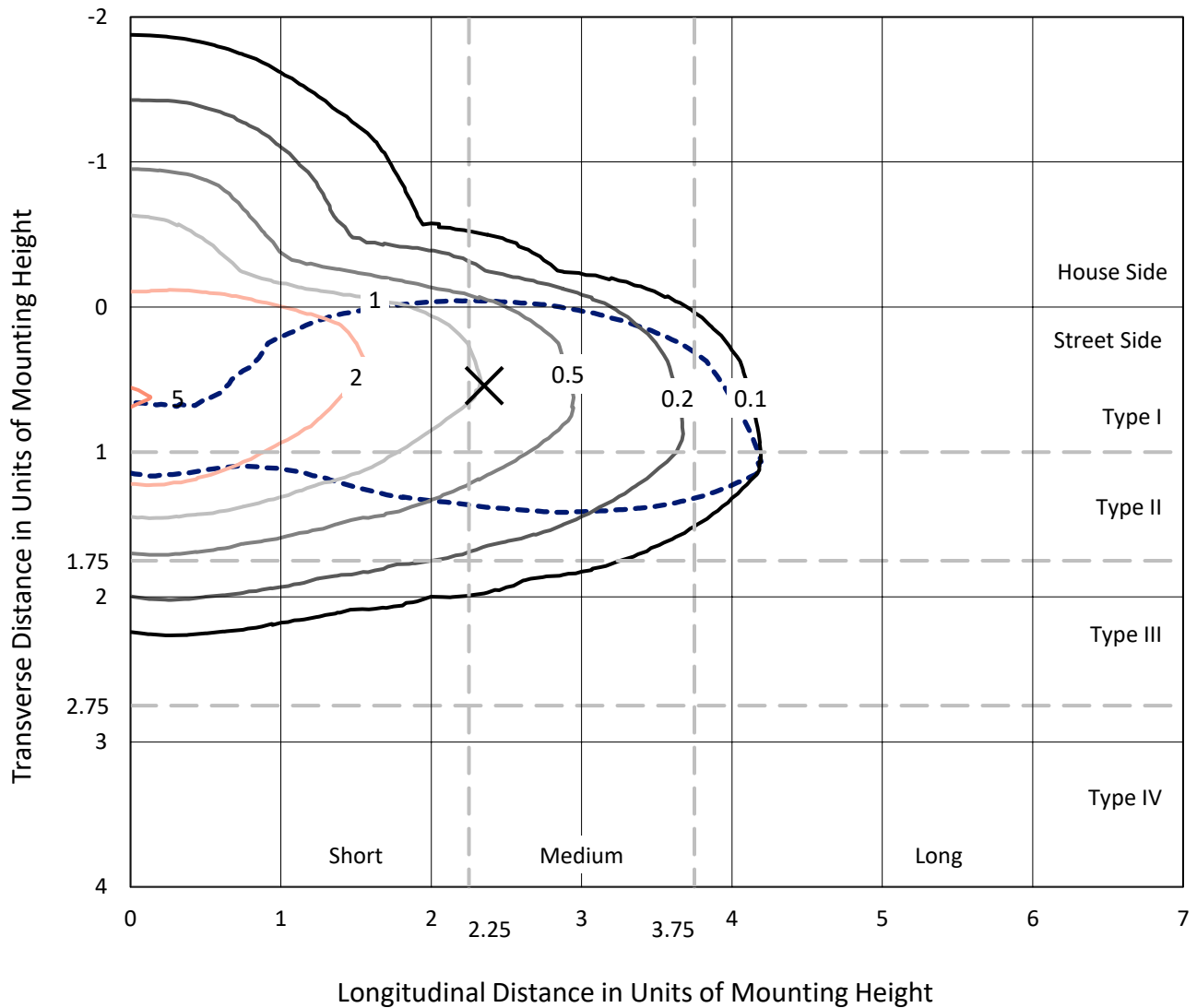
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

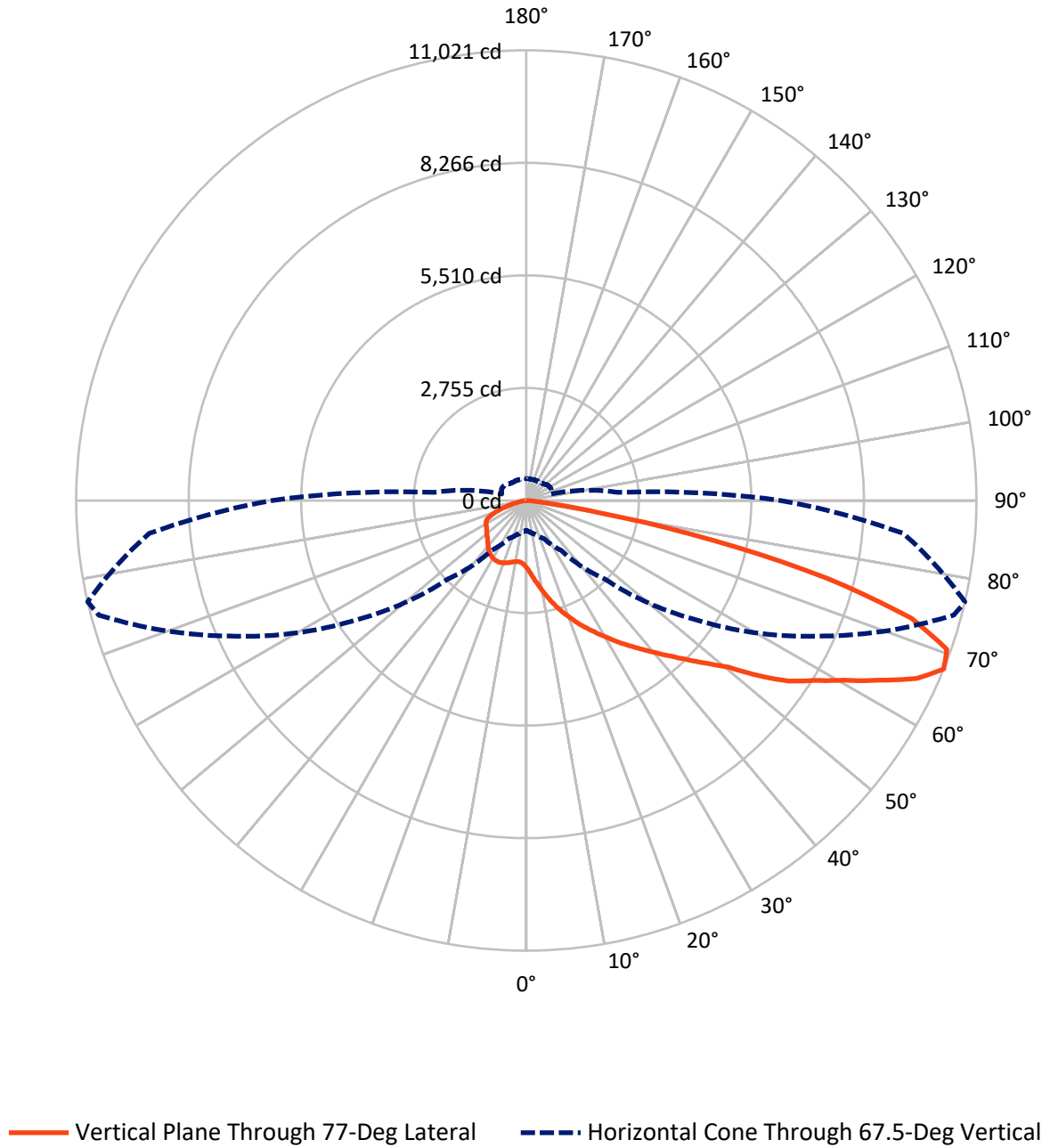
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2657.5	0.0	2657.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	11391.5	0.0	11391.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	14049.0	0.0	14049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	1.3
10°-20°	634.8	4.5
20°-30°	1198.5	8.5
30°-40°	1930.7	13.7
40°-50°	2640.9	18.8
50°-60°	2978.9	21.2
60°-70°	2780.5	19.8
70°-80°	1524.2	10.8
80°-90°	183.9	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°	14049.0	100.0
0°-180°	14049.0	100.0

Coefficient of Utilization



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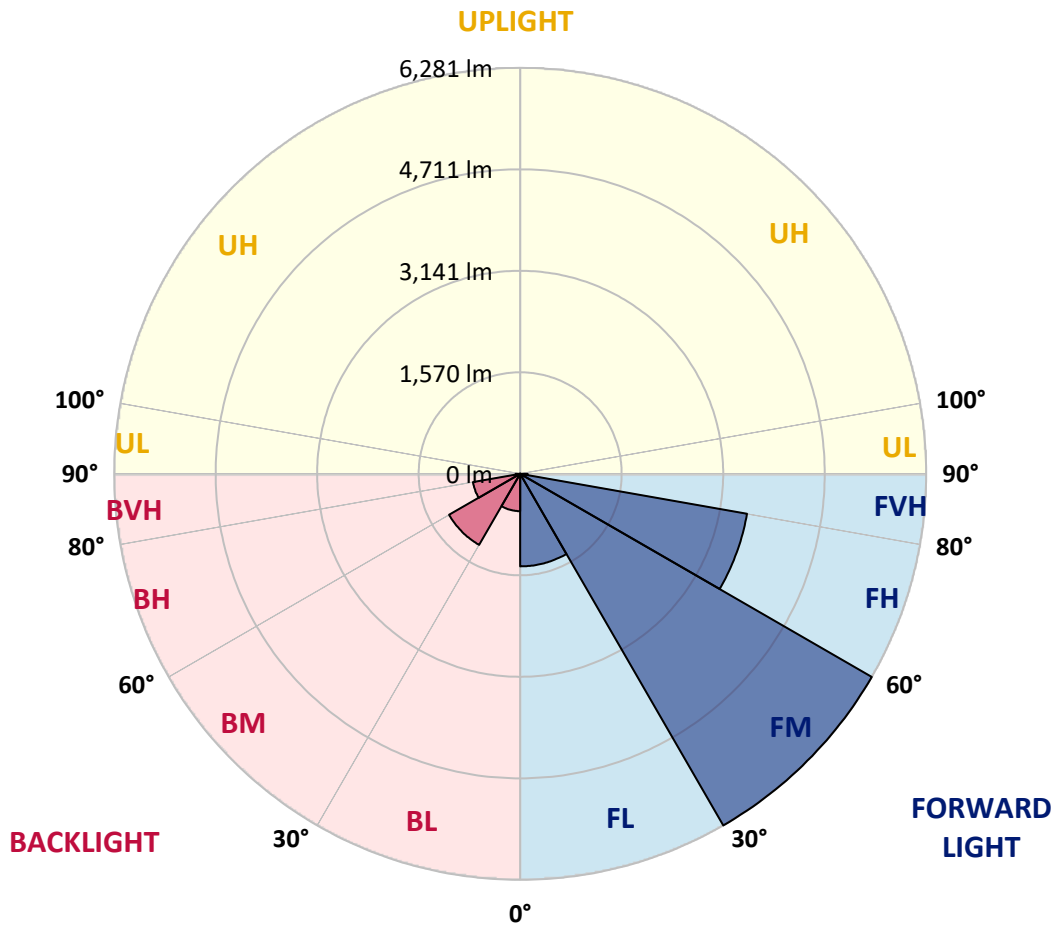
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1432.1	10.2			
FM (30°-60°)	6281.2	44.7			
FH (60°-80°)	3563.2	25.4			G2/5000
FVH (80°-90°)	115.0	0.8			G2/225
BL (0°-30°)	577.8	4.1	B2/1000		
BM (30°-60°)	1269.4	9.0	B2/2500		
BH (60°-80°)	741.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	68.9	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°	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4
2.5°	2063.9	2078.4	2060.3	2060.3	1999.4	1967.5	1906.6	1860.1	1776.7	1762.2
5°	2439.6	2457.7	2432.3	2421.4	2349.7	2283.7	2181.4	2080.6	1931.9	1916.7
7.5°	2730.4	2753.6	2731.1	2719.5	2655.7	2581.7	2462.1	2321.4	2111.8	2082.1
10°	2967.5	2971.2	2963.9	2968.3	2918.2	2857.3	2734.7	2570.8	2309.0	2268.4
12.5°	3101.7	3118.4	3132.9	3159.0	3150.3	3112.6	3002.3	2806.5	2517.9	2465.7
15°	3164.8	3193.8	3226.4	3286.6	3335.2	3344.6	3260.5	3059.6	2730.4	2667.3
17.5°	3187.3	3214.8	3266.3	3353.3	3457.8	3528.1	3490.4	3305.5	2940.7	2868.2
20°	3301.1	3309.1	3340.3	3423.0	3536.1	3652.8	3681.1	3541.9	3148.8	3066.9
22.5°	3544.8	3528.8	3537.5	3575.2	3656.5	3769.6	3834.1	3750.7	3362.8	3268.5
25°	3947.3	3900.9	3854.4	3810.9	3852.3	3916.1	3989.3	3959.6	3586.8	3467.2
27.5°	4455.6	4399.1	4296.8	4154.0	4103.9	4126.4	4159.0	4153.2	3794.3	3673.1
30°	4956.0	4890.0	4768.2	4561.5	4429.5	4370.1	4345.4	4328.7	4019.8	3890.7
32.5°	5355.6	5303.4	5183.7	4952.4	4761.0	4659.4	4577.5	4518.0	4255.5	4126.4
35°	5705.2	5656.6	5519.5	5267.1	5059.0	4951.0	4843.6	4716.7	4500.6	4370.1
37.5°	6024.3	5975.7	5787.8	5525.3	5315.7	5241.0	5145.3	4929.9	4746.4	4623.2
40°	6225.9	6215.0	6039.5	5742.1	5524.6	5487.6	5455.7	5177.2	5019.1	4904.5
42.5°	6277.3	6301.3	6162.0	5917.6	5710.2	5680.5	5755.2	5457.1	5325.2	5215.7
45°	6153.3	6222.2	6130.9	5964.8	5842.2	5826.3	6020.6	5763.2	5663.8	5563.7
47.5°	5839.3	5956.1	5918.4	5895.2	5877.8	5946.7	6254.1	6088.1	6047.5	5960.4
50°	5205.5	5426.7	5492.7	5639.2	5807.4	6040.2	6466.6	6442.7	6495.6	6407.9
52.5°	4109.7	4414.3	4797.2	5164.2	5591.3	6009.0	6700.1	6951.8	7175.1	7127.3
55°	3392.5	3529.6	3824.0	4497.0	5172.1	5877.8	6805.3	7363.0	7849.6	7806.8
57.5°	2841.3	2963.9	3145.2	3707.2	4538.3	5579.7	6870.6	7613.9	8311.5	8307.2
60°	2250.3	2380.1	2565.8	2963.9	3797.9	5064.8	6856.1	7899.6	8901.1	8937.4
62.5°	1583.1	1726.0	1931.9	2303.2	3041.5	4397.6	6560.2	8106.3	9595.1	9693.8
65°	1040.7	1134.9	1290.1	1610.7	2266.3	3539.7	5995.2	8133.1	10337.8	10504.6
67.5°	729.6	765.8	857.2	1031.2	1493.9	2714.4	5095.3	7855.4	10833.1	11020.9
70°	569.3	587.4	633.8	703.4	938.4	1825.3	3904.5	7133.1	10727.2	10923.0
72.5°	491.7	509.1	526.5	535.2	629.5	1127.0	2644.8	5964.1	9730.0	9862.7
75°	446.0	450.4	464.9	462.0	480.1	731.0	1526.6	4345.4	7677.0	7631.3
77.5°	374.9	380.7	404.7	401.0	426.4	499.7	792.6	2804.4	4977.1	4666.7
80°	317.6	320.5	346.6	342.3	370.6	361.9	404.7	1429.4	2111.1	1788.3
82.5°	110.2	136.3	264.7	272.7	282.8	219.0	233.5	583.1	644.7	493.9
85°	53.7	57.3	134.9	191.5	190.7	110.2	113.9	208.1	203.1	159.5
87.5°	8.7	10.9	16.0	74.7	59.5	29.0	39.2	40.6	42.1	36.3
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°
1648.4	0°	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4	1648.4
1707.1	2.5°	1666.5	1630.3	1554.1	1483.8	1428.6	1375.7	1346.0	1320.6	1306.1	1303.2
1786.9	5°	1711.5	1636.8	1498.3	1381.5	1305.4	1248.8	1219.1	1200.2	1190.8	1185.0
1894.2	7.5°	1776.0	1666.5	1469.3	1336.5	1256.8	1216.2	1200.9	1198.0	1197.3	1198.0
2024.0	10°	1865.2	1715.1	1466.4	1325.7	1259.0	1236.5	1235.7	1236.5	1239.4	1240.1
2165.5	12.5°	1961.7	1765.1	1478.0	1335.1	1286.5	1274.2	1272.0	1271.3	1273.5	1274.9
2308.3	15°	2066.8	1831.1	1497.5	1355.4	1317.0	1303.9	1301.7	1297.4	1296.7	1295.9
2458.4	17.5°	2174.9	1896.4	1519.3	1377.2	1336.5	1318.4	1310.4	1300.3	1292.3	1290.1
2613.6	20°	2284.4	1960.9	1534.5	1388.0	1338.0	1312.6	1296.7	1279.3	1265.5	1257.5
2770.3	22.5°	2401.1	2028.4	1544.0	1385.1	1324.9	1290.1	1261.1	1240.8	1219.8	1206.0
2928.4	25°	2515.0	2087.1	1543.2	1369.9	1299.6	1255.3	1218.3	1192.2	1163.2	1148.7
3091.5	27.5°	2624.5	2140.1	1525.1	1343.1	1263.3	1214.0	1169.8	1138.6	1110.3	1096.5
3256.2	30°	2737.6	2184.3	1496.8	1303.9	1220.5	1166.1	1117.5	1090.7	1065.3	1052.3
3430.2	32.5°	2850.0	2224.9	1456.9	1255.3	1171.2	1119.0	1071.1	1046.5	1031.2	1031.2
3617.3	35°	2969.0	2253.2	1404.0	1198.8	1119.0	1068.9	1031.2	1016.7	1015.3	1006.6
3815.3	37.5°	3094.4	2271.3	1339.4	1140.7	1067.5	1020.4	1008.8	991.4	976.8	958.0
4032.8	40°	3226.4	2289.5	1261.9	1080.6	1013.1	987.0	981.9	958.7	917.4	871.0
4279.4	42.5°	3386.7	2301.8	1181.4	1020.4	955.8	947.1	954.4	914.5	848.5	813.7
4576.7	45°	3572.3	2322.1	1107.4	960.9	897.1	897.1	927.5	875.3	820.9	799.2
4916.1	47.5°	3813.1	2369.2	1038.5	895.6	842.7	857.2	868.1	828.2	797.7	770.9
5329.5	50°	4161.2	2482.4	967.4	829.6	801.3	830.4	815.1	791.9	756.4	734.6
5986.5	52.5°	4593.4	2549.1	904.3	770.2	765.8	794.8	773.1	751.3	724.5	695.5
6484.8	55°	4887.9	2561.4	851.4	726.7	741.9	739.0	731.0	711.4	696.9	658.5
6976.4	57.5°	5217.1	2586.1	807.9	700.5	726.7	694.7	691.8	675.2	656.3	630.2
7576.2	60°	5610.9	2624.5	770.2	690.4	713.6	665.7	651.2	644.7	625.8	612.8
8297.8	62.5°	6040.2	2659.3	731.7	691.8	698.4	637.5	615.7	613.5	601.9	597.6
8975.1	65°	6333.2	2564.3	683.9	690.4	674.4	608.4	580.9	580.2	570.7	569.3
9268.8	67.5°	6230.9	2263.4	619.3	670.1	649.8	579.4	549.0	546.1	533.7	534.5
8962.0	70°	5718.9	1834.0	530.1	620.0	619.3	553.3	515.6	506.2	489.5	492.4
7792.3	72.5°	4758.8	1359.0	410.5	536.6	570.7	529.4	477.2	462.0	440.9	443.8
5752.3	75°	3436.7	923.9	298.8	408.3	496.8	501.1	439.5	413.4	388.0	392.3
3201.8	77.5°	1758.6	523.6	219.7	281.4	390.2	455.4	405.4	370.6	364.8	405.4
923.2	80°	573.6	262.5	152.3	197.3	256.0	372.8	355.3	315.5	314.0	323.4
193.6	82.5°	171.1	111.0	97.9	129.8	141.4	285.7	306.8	238.6	205.2	216.1
64.5	85°	58.7	53.7	55.8	64.5	67.4	167.5	214.7	158.1	149.4	164.6
14.5	87.5°	13.8	18.9	16.0	14.5	14.5	40.6	83.4	66.0	91.4	60.9
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>
1648.4
1303.2
1184.3
1200.2
1240.8
1275.6
1295.2
1292.3
1260.4
1206.7
1148.7
1095.8
1051.5
1032.0
1004.4
955.1
864.4
814.4
802.8
770.2
732.5
689.7
659.2
621.5
616.4
597.6
568.6
534.5
495.3
443.1
393.8
399.6
277.8
223.4
162.4
58.7
0.0

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