

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: P950151

Luminaire Tested: **GALN-SB4C-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21257 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

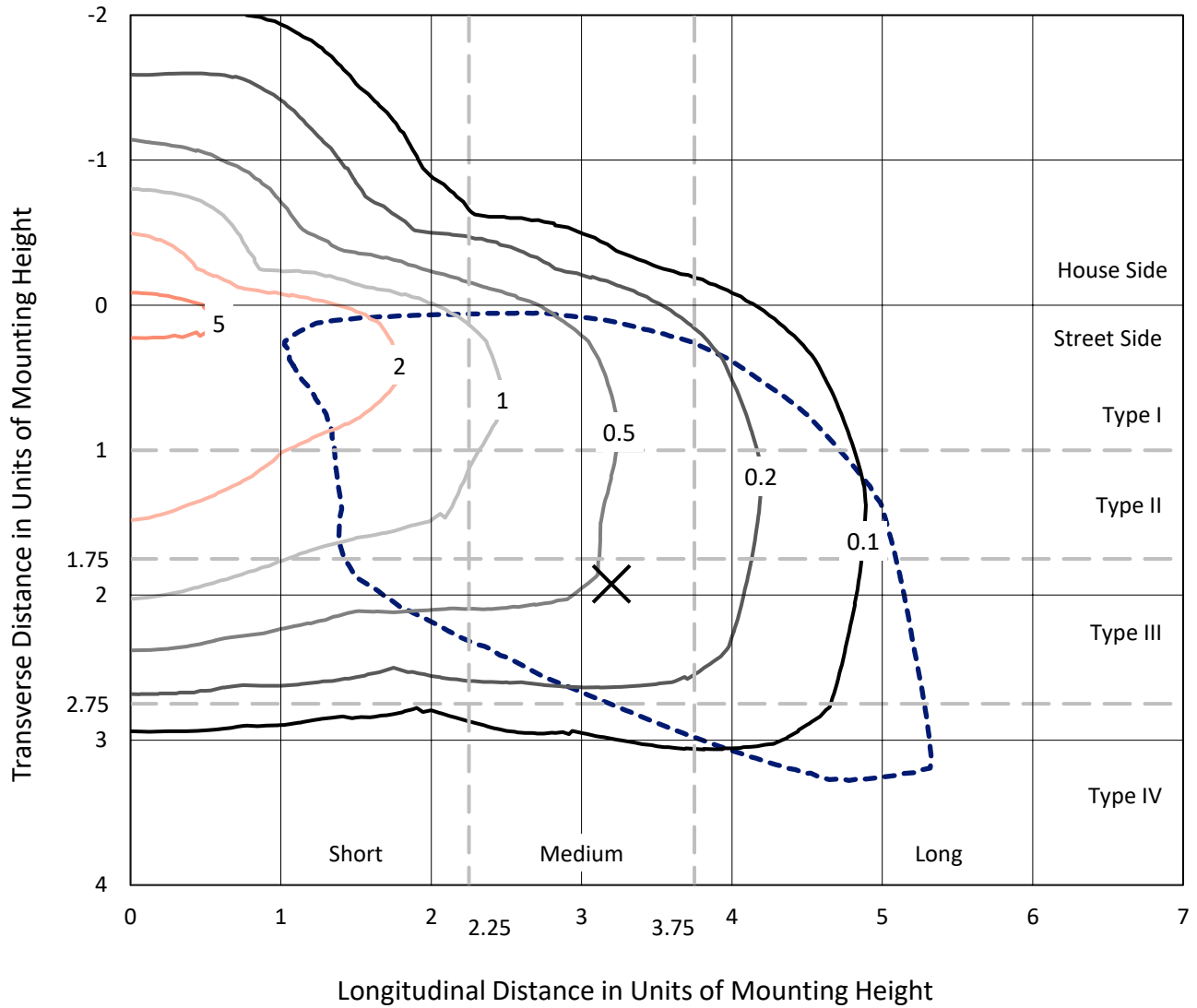
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

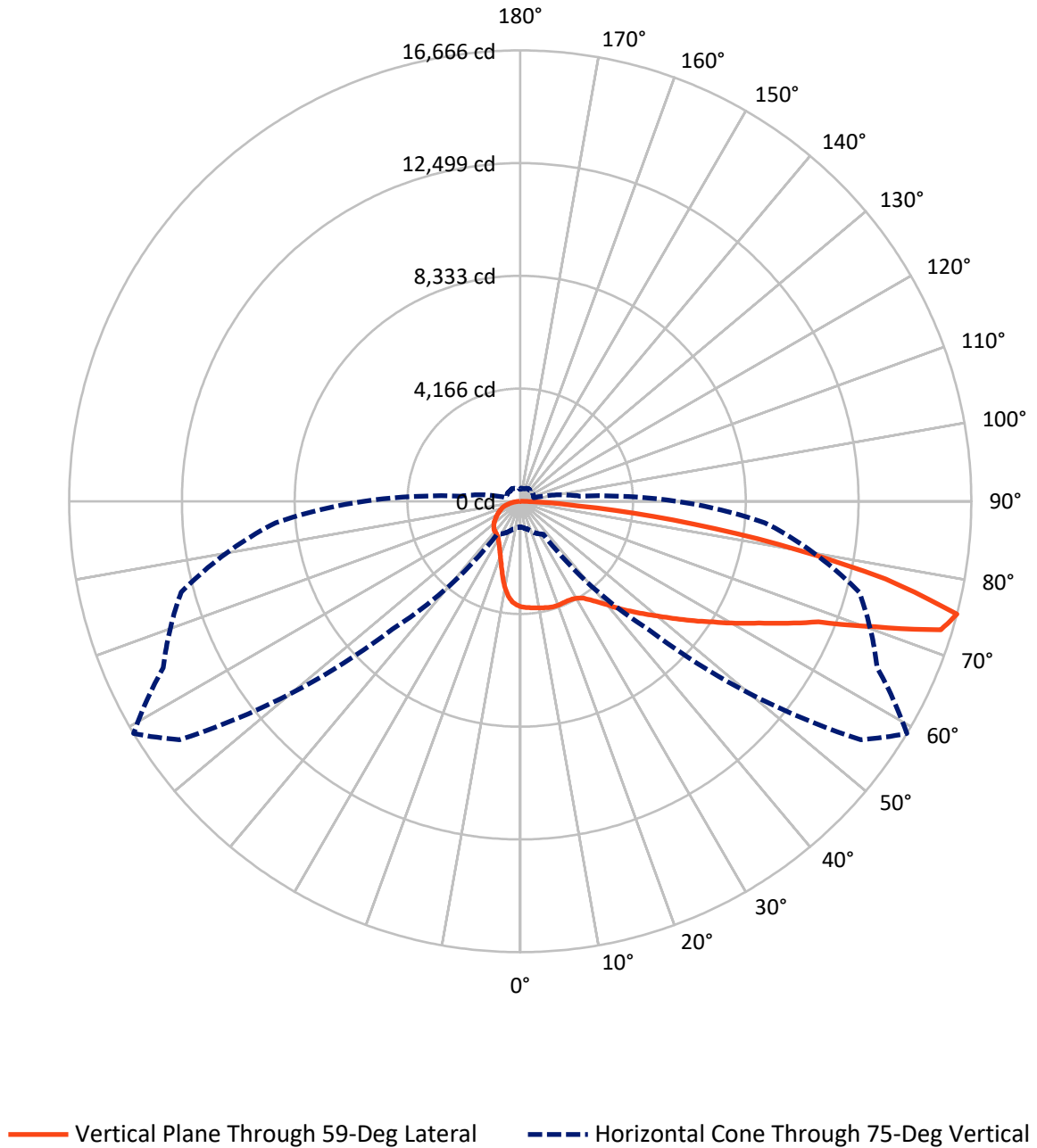
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3986.9	0.0	3986.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17270.1	0.0	17270.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	21257.0	0.0	21257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.8	1.6
10°-20°	894.2	4.2
20°-30°	1358.3	6.4
30°-40°	2019.0	9.5
40°-50°	3002.7	14.1
50°-60°	4075.7	19.2
60°-70°	4975.8	23.4
70°-80°	3905.0	18.4
80°-90°	676.4	3.2
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°	21257.0	100.0
0°-180°	21257.0	100.0

Coefficient of Utilization



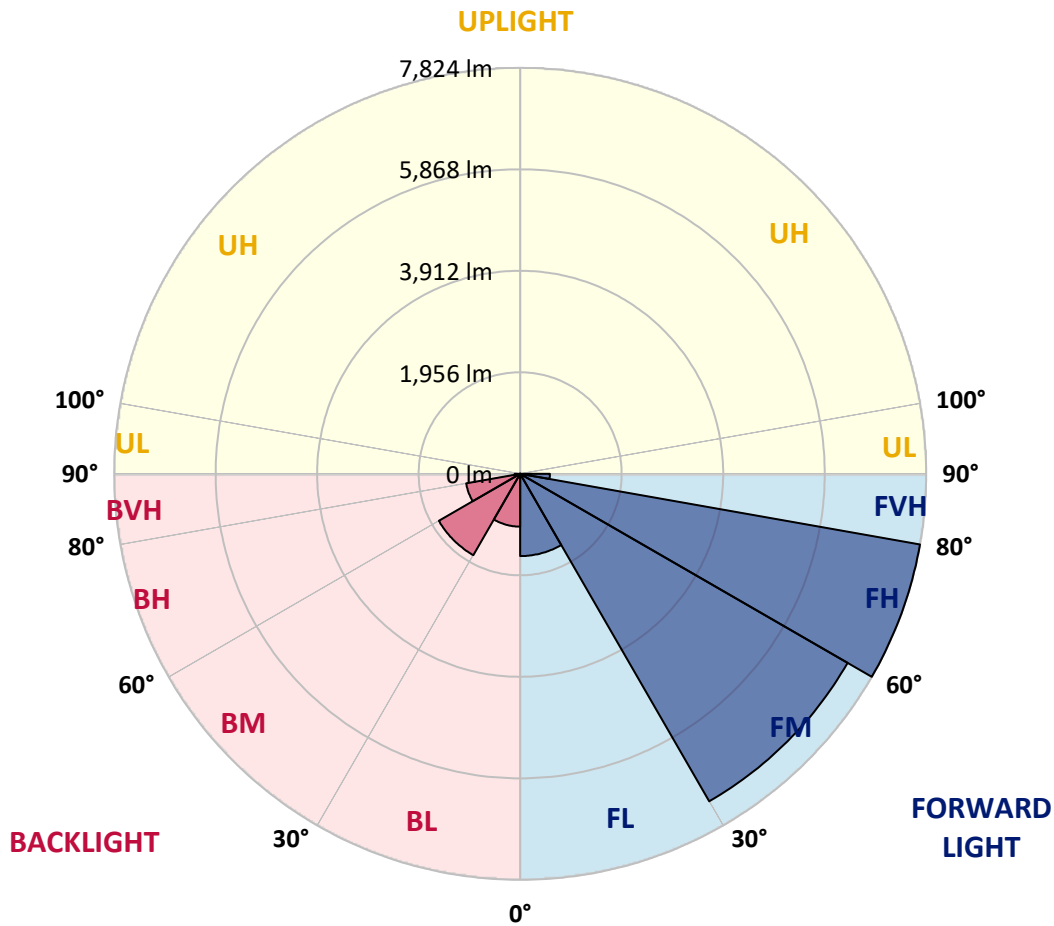
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1584.9	7.5			
FM (30°-60°)	7287.8	34.3			
FH (60°-80°)	7824.5	36.8			G4/12000
FVH (80°-90°)	572.9	2.7			G4/750
BL (0°-30°)	1017.4	4.8	B3/2500		
BM (30°-60°)	1809.6	8.5	B2/2500		
BH (60°-80°)	1056.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	103.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3901.7	3901.7	3901.7	3901.7	3901.7	3901.7	3901.7	3901.7	3901.7	3901.7
2.5°	3934.8	3921.1	3934.8	3929.1	3926.8	3922.3	3923.4	3931.4	3926.8	3932.5
5°	3908.5	3900.5	3914.3	3910.8	3925.7	3928.0	3942.8	3952.0	3957.7	3958.9
7.5°	3865.1	3857.1	3876.5	3892.5	3924.5	3933.7	3964.6	3979.4	3987.4	4001.2
10°	3706.1	3702.7	3750.7	3811.3	3886.8	3933.7	3980.6	4005.7	4018.3	4054.9
12.5°	3424.8	3429.4	3492.3	3608.9	3759.9	3910.8	3998.9	4035.5	4054.9	4100.6
15°	3156.1	3155.0	3223.6	3348.2	3559.8	3810.2	4008.0	4070.9	4104.1	4171.5
17.5°	3000.6	2996.0	3044.0	3139.0	3335.6	3655.8	3985.2	4090.4	4161.3	4245.9
20°	2972.0	2962.8	2988.0	3034.9	3174.4	3486.6	3925.7	4090.4	4207.0	4316.8
22.5°	3076.1	3061.2	3050.9	3045.2	3106.9	3347.1	3858.2	4076.6	4274.5	4418.5
25°	3285.3	3262.4	3209.8	3158.4	3140.1	3284.2	3798.8	4073.2	4375.1	4555.8
27.5°	3623.8	3595.2	3488.9	3365.4	3254.4	3316.2	3772.5	4093.8	4486.0	4701.0
30°	4043.5	4012.6	3878.8	3689.0	3490.0	3435.1	3805.6	4154.4	4627.8	4894.2
32.5°	4419.7	4385.4	4271.0	4077.8	3809.1	3641.0	3910.8	4269.9	4850.8	5163.0
35°	4753.6	4713.6	4610.7	4432.3	4200.1	3930.3	4100.6	4474.6	5167.5	5599.8
37.5°	5080.6	5033.8	4921.7	4733.0	4570.6	4315.6	4362.5	4737.6	5588.4	6130.4
40°	5446.6	5379.1	5243.0	5056.6	4898.8	4767.3	4706.7	5060.1	6016.0	6722.7
42.5°	5801.1	5737.0	5574.6	5415.7	5217.9	5180.1	5105.8	5437.4	6483.7	7373.4
45°	6183.0	6106.4	5909.7	5708.4	5583.8	5454.6	5492.3	5814.8	6942.3	8036.6
47.5°	6540.9	6455.1	6223.0	5998.9	5930.3	5685.6	5846.8	6229.9	7419.1	8709.0
50°	6734.2	6649.5	6456.3	6253.9	6200.1	5970.3	6231.0	6686.1	7918.8	9379.1
52.5°	6895.4	6803.9	6551.2	6439.1	6423.1	6280.2	6704.4	7207.6	8418.6	9971.5
55°	7066.9	6965.2	6642.7	6542.1	6615.2	6627.8	7265.9	7798.8	8946.9	10548.9
57.5°	7264.8	7135.5	6730.7	6629.0	6802.8	7034.9	7910.8	8411.7	9466.0	11084.1
60°	7451.1	7320.8	6900.0	6767.3	7005.2	7507.2	8650.7	9153.8	10053.8	11560.9
62.5°	7487.7	7380.2	7034.9	7033.8	7279.6	8058.4	9526.6	9902.8	10567.2	12032.1
65°	6854.2	6786.8	6582.1	7023.5	7673.0	8852.0	10502.0	10861.1	11220.2	12443.7
67.5°	5216.7	5225.9	5211.0	6062.9	7355.1	9992.0	11914.3	11886.8	12026.4	12905.7
70°	2385.4	2439.1	2789.0	4185.3	5892.5	10123.5	14249.3	13893.7	13038.4	13503.8
72.5°	1288.7	1329.9	1472.8	2027.5	3542.6	9000.6	15994.4	16247.1	14384.3	13906.3
75°	945.7	968.6	1068.0	1288.7	1487.7	6689.6	15368.8	16665.6	14552.4	12967.5
77.5°	707.8	718.1	799.3	1021.2	761.6	3526.6	12280.2	13802.2	12457.5	10654.1
80°	513.4	524.9	585.5	766.2	534.0	1289.9	8432.3	9687.9	8531.8	6791.3
82.5°	354.5	359.1	385.4	521.4	372.8	500.9	4784.5	5681.0	4762.7	2383.1
85°	213.8	219.6	231.0	304.2	211.6	237.9	2065.2	2136.1	1423.7	569.5
87.5°	88.1	93.8	102.9	128.1	83.5	66.3	340.8	427.7	266.4	167.0
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°
3901.7	0°	3901.7	3901.7	3901.7	3901.7	3901.7	3901.7	3901.7	3901.7	3901.7	3901.7
3913.1	2.5°	3907.4	3899.4	3877.7	3847.9	3820.5	3786.2	3771.3	3758.7	3747.3	3725.6
3944.0	5°	3931.4	3909.7	3851.4	3775.9	3690.1	3596.4	3504.9	3442.0	3388.2	3348.2
3979.4	7.5°	3968.0	3926.8	3820.5	3666.1	3469.4	3268.2	3086.3	2957.1	2859.9	2824.5
4029.7	10°	4005.7	3956.6	3771.3	3499.2	3159.5	2849.6	2608.4	2475.7	2398.0	2372.8
4089.2	12.5°	4050.3	3978.3	3694.7	3267.0	2813.0	2473.4	2263.0	2185.3	2145.2	2131.5
4162.4	15°	4115.5	3996.6	3579.2	2976.6	2482.6	2199.0	2062.9	2009.2	1988.6	1987.4
4237.9	17.5°	4164.7	4000.0	3399.7	2665.5	2228.7	2033.2	1921.1	1900.5	1914.2	1934.8
4312.2	20°	4219.6	3969.1	3164.1	2381.9	2050.3	1887.9	1841.1	1854.8	1887.9	1917.7
4410.5	22.5°	4258.5	3913.1	2879.4	2161.2	1895.9	1804.5	1802.2	1830.8	1849.1	1863.9
4526.0	25°	4292.8	3818.2	2577.5	1976.0	1769.0	1754.2	1779.3	1770.2	1757.6	1770.2
4641.5	27.5°	4317.9	3668.4	2307.6	1813.6	1679.8	1719.8	1705.0	1684.4	1683.3	1690.1
4777.6	30°	4309.9	3468.3	2085.8	1659.2	1616.9	1655.8	1620.4	1616.9	1613.5	1616.9
4982.3	32.5°	4309.9	3240.7	1915.4	1552.9	1576.9	1562.0	1558.6	1550.6	1536.9	1535.7
5260.2	35°	4333.9	3013.2	1769.0	1495.7	1543.7	1508.3	1510.6	1491.1	1462.6	1448.8
5628.4	37.5°	4383.1	2830.2	1623.8	1468.3	1485.4	1484.3	1475.1	1442.0	1391.7	1348.2
6088.1	40°	4502.0	2776.5	1524.3	1455.7	1458.0	1471.7	1447.7	1383.7	1269.3	1198.4
6554.6	42.5°	4688.4	2866.8	1502.6	1424.8	1439.7	1453.4	1406.5	1257.9	1176.7	1134.4
7044.1	45°	4925.1	3024.6	1549.5	1380.2	1396.2	1420.2	1280.7	1209.8	1173.2	1174.4
7528.9	47.5°	5224.7	3190.4	1636.4	1341.3	1333.3	1347.1	1197.3	1153.8	1103.5	1116.1
7994.3	50°	5571.2	3358.5	1718.7	1288.7	1263.6	1219.0	1143.5	1102.3	1038.3	1008.6
8443.7	52.5°	5946.3	3520.9	1751.9	1224.7	1188.1	1136.7	1106.9	1056.6	978.8	929.7
8868.0	55°	6301.9	3668.4	1715.3	1148.1	1112.6	1072.6	1068.0	1037.2	953.7	885.1
9245.3	57.5°	6638.1	3791.9	1623.8	1070.3	1036.0	1012.0	1042.9	1028.0	922.8	834.8
9602.1	60°	6922.8	3876.5	1491.1	991.4	967.4	954.8	1001.7	997.1	879.4	781.0
9922.3	62.5°	7149.3	3909.7	1344.8	916.0	910.2	887.4	944.5	944.5	824.5	728.4
10203.6	65°	7326.5	3877.7	1196.1	841.6	853.1	818.8	874.8	867.9	766.2	681.5
10527.2	67.5°	7483.2	3772.5	1031.5	768.4	794.7	751.3	801.6	785.6	702.1	634.7
10807.4	70°	7552.9	3527.7	843.9	695.3	727.3	685.0	728.4	698.7	630.1	584.3
10499.8	72.5°	6992.6	2932.0	664.4	618.6	646.1	611.8	649.5	615.2	552.3	531.7
9066.9	75°	5785.0	2200.1	511.2	535.2	555.7	529.4	554.6	529.4	472.3	487.1
6697.6	77.5°	4201.3	1485.4	391.1	447.1	456.3	442.5	464.3	435.7	384.2	380.8
3337.9	80°	2089.2	870.2	306.5	353.3	349.9	340.8	365.9	352.2	308.7	327.0
901.1	82.5°	604.9	372.8	223.0	248.1	241.3	243.6	261.9	268.7	402.5	399.1
280.2	85°	189.8	146.4	133.8	138.4	131.5	134.9	154.4	306.5	283.6	165.8
86.9	87.5°	49.2	50.3	33.2	35.4	36.6	43.5	49.2	186.4	89.2	58.3
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>
3901.7
3715.3
3315.1
2762.7
2333.9
2134.9
1992.0
1942.8
1928.0
1871.9
1778.2
1701.6
1629.5
1550.6
1462.6
1363.1
1207.6
1134.4
1180.1
1148.1
1016.6
928.5
885.1
830.2
777.6
725.0
677.0
630.1
575.2
514.6
444.8
363.6
323.6
408.2
179.5
61.7
0.0

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