

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: P953656

Luminaire Tested: **GALN-SB7A-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19301 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

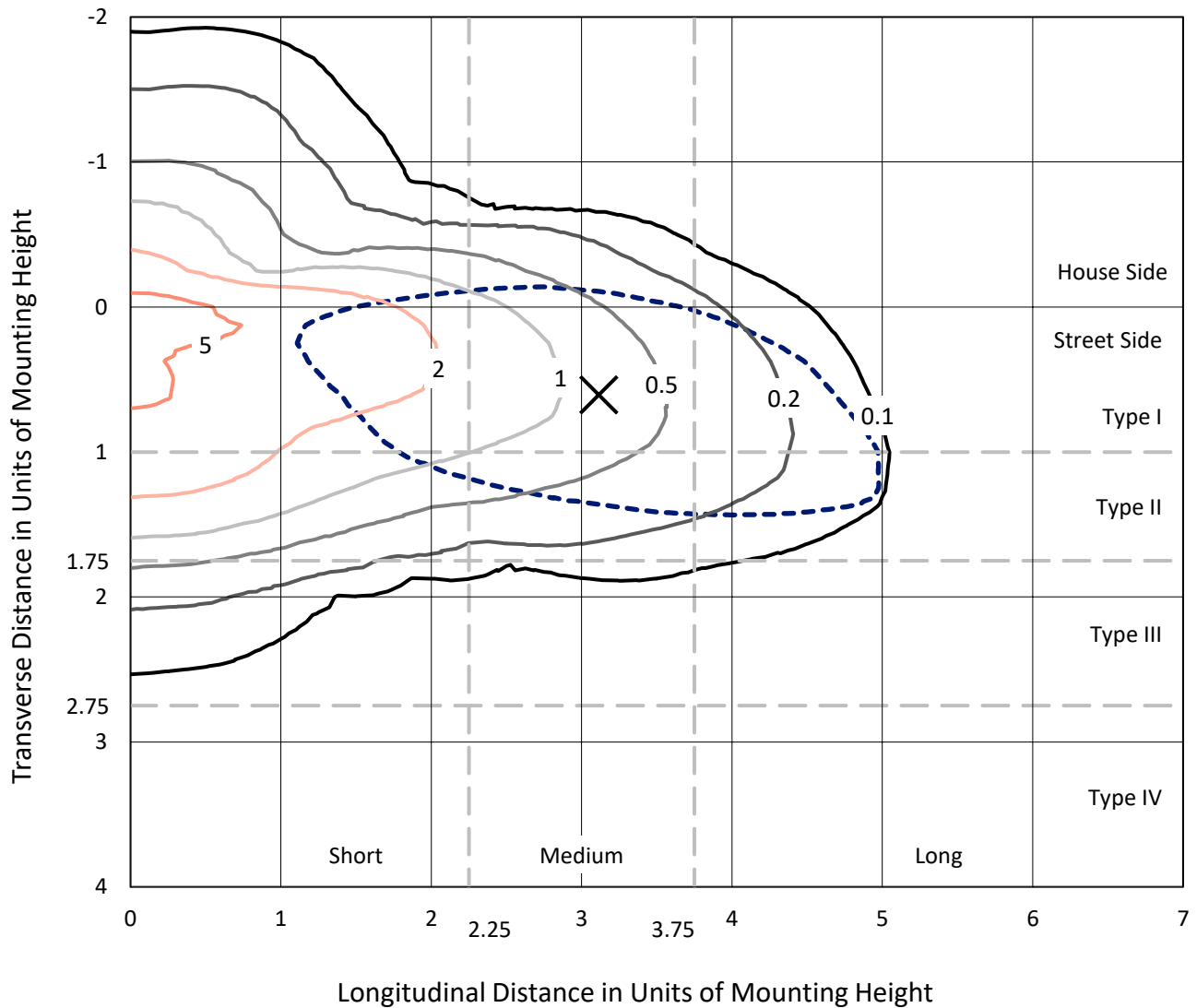
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

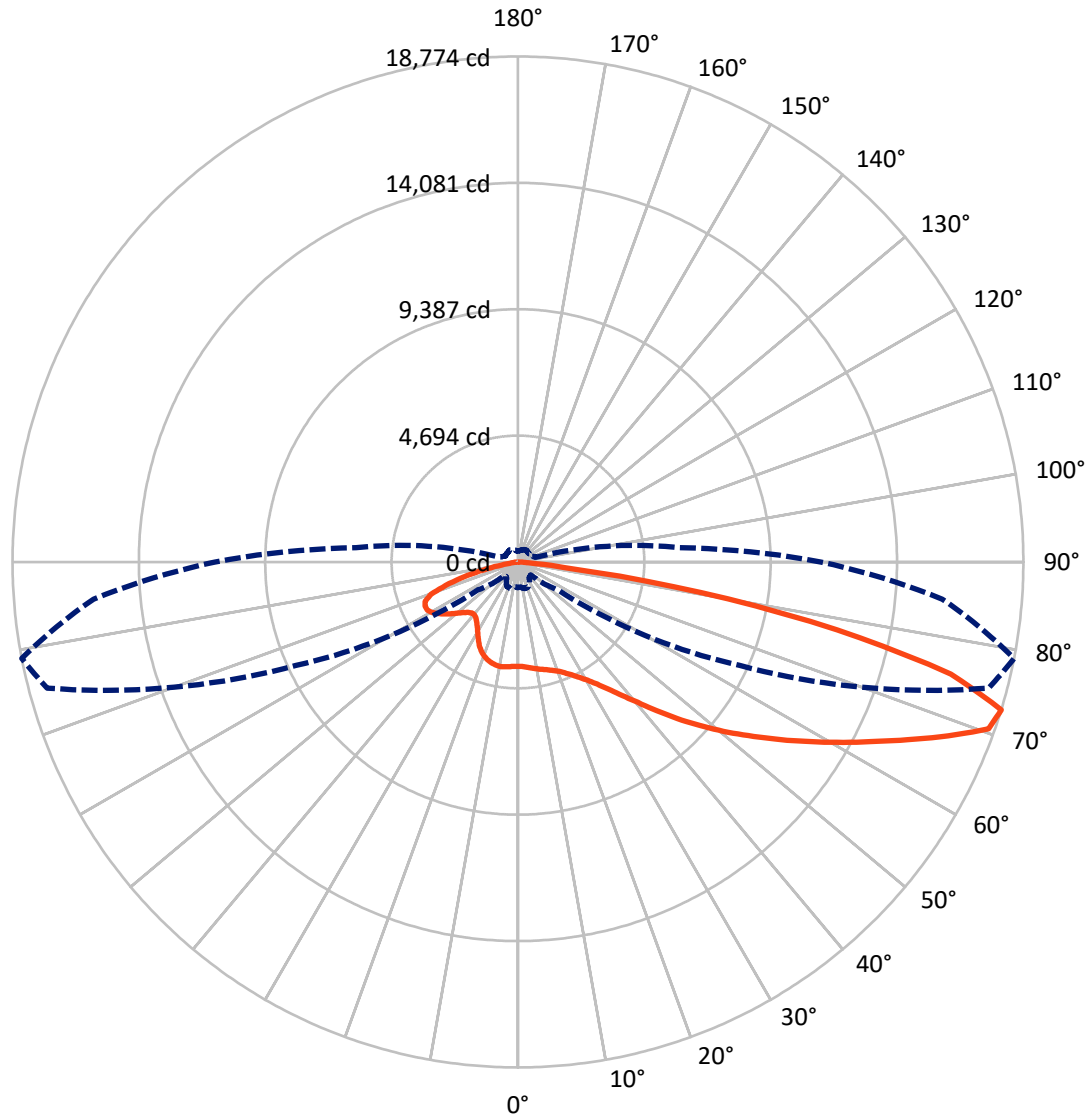
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4247.3	0.0	4247.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	15053.7	0.0	15053.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	19301.0	0.0	19301.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.7	1.8
10°-20°	919.5	4.8
20°-30°	1483.7	7.7
30°-40°	2226.8	11.5
40°-50°	3158.9	16.4
50°-60°	3989.2	20.7
60°-70°	4051.6	21.0
70°-80°	2761.3	14.3
80°-90°	358.3	1.9
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°	19301.0	100.0
0°-180°	19301.0	100.0



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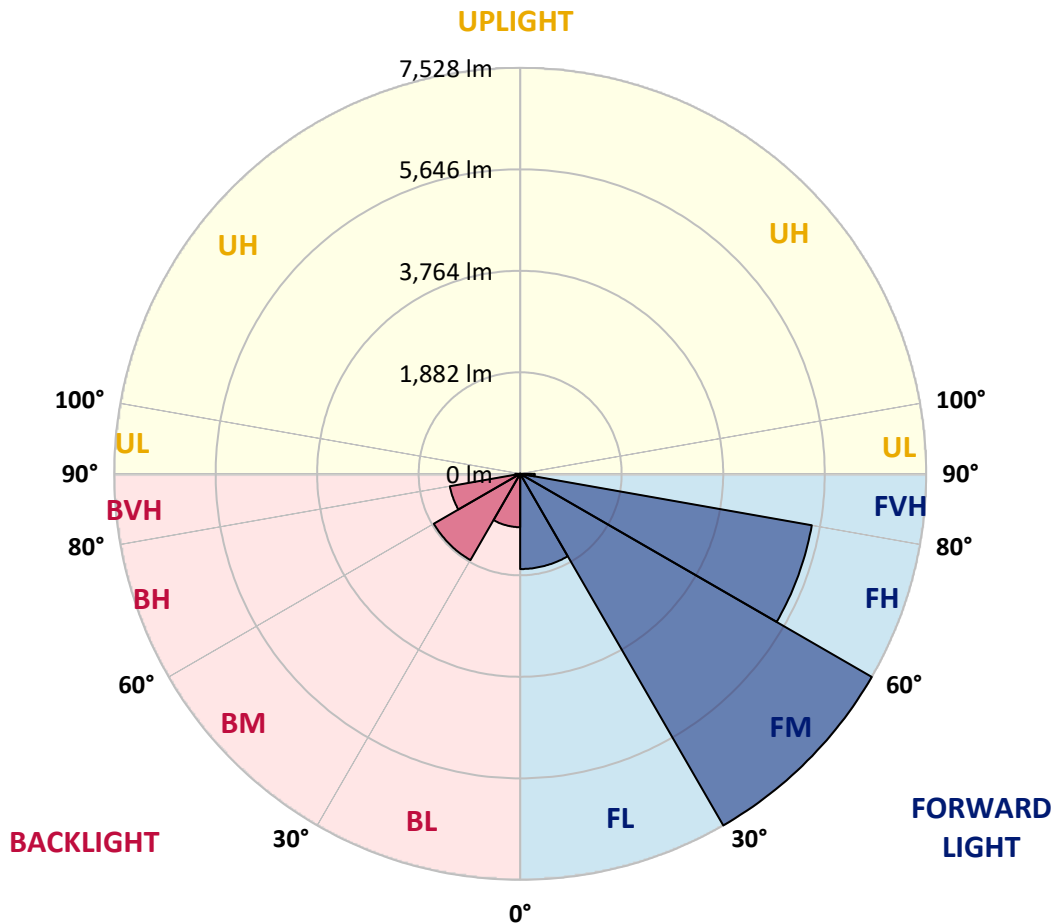
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.6	9.1			
FM (30°-60°)	7527.8	39.0			
FH (60°-80°)	5490.5	28.4			G3/7500
FVH (80°-90°)	269.9	1.4			G3/500
BL (0°-30°)	989.3	5.1	B2/1000		
BM (30°-60°)	1847.1	9.6	B2/2500		
BH (60°-80°)	1322.5	6.9	B3/2500		G3/2500
BVH (80°-90°)	88.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5
2.5°	3876.5	3858.2	3869.4	3865.3	3870.4	3876.5	3878.6	3881.6	3891.8	3890.8
5°	3868.4	3850.0	3865.3	3860.2	3873.5	3887.8	3900.0	3911.2	3927.6	3934.7
7.5°	3851.0	3838.8	3854.1	3869.4	3893.9	3915.3	3932.7	3958.2	3981.7	3985.8
10°	3749.9	3740.7	3776.5	3816.3	3883.7	3941.9	3979.6	4009.3	4034.8	4038.9
12.5°	3644.8	3633.5	3673.4	3727.5	3836.7	3941.9	4021.5	4060.3	4082.8	4096.0
15°	3627.4	3618.2	3640.7	3687.7	3778.5	3914.3	4050.1	4121.6	4141.0	4156.3
17.5°	3711.1	3693.8	3703.0	3719.3	3772.4	3888.8	4072.6	4191.0	4220.6	4236.9
20°	3905.1	3880.6	3866.3	3833.7	3824.5	3892.9	4070.5	4274.7	4313.5	4333.9
22.5°	4163.4	4147.1	4116.5	4033.8	3943.9	3942.9	4109.3	4381.9	4454.4	4473.8
25°	4475.8	4451.3	4412.5	4300.2	4127.7	4041.9	4174.7	4518.7	4640.2	4645.3
27.5°	4835.2	4798.4	4745.4	4597.3	4364.5	4197.1	4274.7	4675.9	4853.6	4851.5
30°	5214.0	5177.2	5121.1	4941.4	4648.4	4406.4	4413.6	4845.4	5106.8	5095.5
32.5°	5490.7	5463.1	5451.9	5313.0	4975.1	4653.5	4572.8	5033.3	5419.2	5409.0
35°	5703.0	5667.3	5680.5	5610.1	5331.4	4930.2	4767.8	5256.9	5799.0	5798.0
37.5°	5913.3	5881.7	5892.9	5845.9	5661.1	5281.4	5005.7	5530.5	6269.6	6292.1
40°	6105.3	6071.6	6116.5	6072.6	5917.4	5655.0	5276.3	5839.8	6814.8	6857.7
42.5°	6220.6	6194.1	6268.6	6269.6	6140.0	5970.5	5573.3	6180.8	7445.8	7541.7
45°	6260.4	6251.3	6363.6	6387.0	6337.0	6153.2	5840.8	6552.4	8125.7	8297.2
47.5°	6217.6	6200.2	6355.4	6442.2	6482.0	6239.0	6062.4	6954.7	8820.0	9071.1
50°	6001.1	5967.4	6198.2	6380.9	6522.8	6295.2	6286.0	7419.2	9609.1	9883.8
52.5°	5612.1	5586.6	5849.0	6166.5	6433.0	6322.7	6537.1	7926.6	10358.5	10713.8
55°	5114.9	5081.3	5370.2	5784.7	6209.4	6313.5	6788.3	8494.3	11242.7	11603.1
57.5°	4326.8	4259.4	4624.9	5114.9	5844.9	6302.3	7049.6	9058.9	12141.1	12573.0
60°	3177.2	3077.1	3525.3	4106.2	5132.3	6193.1	7373.3	9691.8	13219.2	13608.2
62.5°	1850.0	1791.8	2084.8	2626.9	3868.4	5549.9	7555.0	10427.9	14279.0	14687.3
65°	1436.5	1420.1	1445.7	1487.5	2153.2	4155.3	6994.5	11145.7	15626.6	15912.5
67.5°	1314.0	1301.7	1312.9	1234.3	1092.4	2314.5	5533.5	11327.4	17070.2	17243.8
70°	1168.0	1153.7	1190.4	1123.0	859.6	1052.6	3575.4	10667.9	18218.8	18544.5
72.5°	951.5	935.2	1020.9	990.3	723.9	675.9	1795.8	9100.7	18098.3	18774.2
75°	731.0	721.8	823.9	849.4	590.1	531.9	861.7	6764.8	15926.8	16607.7
77.5°	567.6	560.5	612.6	705.5	475.8	412.5	529.9	4291.0	12002.2	12121.7
80°	425.7	405.3	453.3	546.2	370.6	301.2	359.4	2502.3	7586.7	6877.1
82.5°	266.5	256.3	296.1	364.5	261.4	207.3	233.8	1382.4	3040.4	1790.7
85°	152.1	148.0	161.3	208.3	141.9	119.5	133.7	610.5	555.4	381.8
87.5°	61.3	59.2	73.5	92.9	52.1	43.9	47.0	147.0	122.5	113.3
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°
3874.5	0°	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5
3889.8	2.5°	3885.7	3885.7	3871.4	3849.0	3823.4	3807.1	3780.6	3773.4	3745.9	3737.7
3924.5	5°	3932.7	3924.5	3880.6	3817.3	3730.5	3650.9	3563.1	3508.0	3430.4	3402.8
3992.9	7.5°	3991.9	3969.4	3893.9	3755.0	3573.3	3394.6	3208.8	3067.9	2933.2	2885.2
4049.1	10°	4046.0	4014.4	3885.7	3642.7	3328.3	3018.9	2722.9	2515.6	2358.4	2294.1
4111.4	12.5°	4100.1	4041.9	3831.6	3455.9	2980.1	2560.5	2245.1	2083.8	1986.8	1909.2
4162.4	15°	4151.2	4069.5	3747.9	3205.8	2598.3	2172.6	1939.8	1811.2	1733.6	1682.5
4236.9	17.5°	4210.4	4093.0	3622.3	2888.3	2234.9	1904.1	1714.2	1636.6	1621.3	1615.1
4339.0	20°	4293.1	4114.4	3456.9	2533.0	1967.4	1689.7	1591.7	1584.5	1583.5	1580.4
4461.5	22.5°	4381.9	4139.9	3238.4	2210.3	1739.7	1555.9	1538.6	1524.3	1515.1	1514.1
4609.6	25°	4487.1	4148.1	2964.8	1945.9	1545.7	1492.6	1472.2	1450.8	1444.6	1444.6
4778.0	27.5°	4589.2	4120.5	2646.3	1716.2	1436.5	1434.4	1407.9	1400.7	1399.7	1402.8
4970.0	30°	4691.2	4068.5	2329.8	1503.9	1373.2	1373.2	1364.0	1369.1	1373.2	1383.4
5233.4	32.5°	4829.1	4013.3	2065.4	1346.6	1318.0	1307.8	1317.0	1327.2	1331.3	1344.6
5579.5	35°	5031.2	3974.5	1855.1	1260.9	1260.9	1247.6	1252.7	1250.7	1241.5	1235.3
5998.1	37.5°	5298.7	3972.5	1681.5	1221.1	1212.9	1210.8	1211.9	1198.6	1162.9	1120.0
6504.5	40°	5620.3	4027.6	1547.8	1193.5	1187.4	1199.6	1193.5	1157.8	1059.7	985.2
7127.2	42.5°	6052.2	4184.9	1462.0	1159.8	1178.2	1193.5	1169.0	1045.4	979.1	929.1
7836.8	45°	6560.6	4440.1	1418.1	1124.1	1160.8	1179.2	1060.8	1006.7	953.6	893.3
8610.7	47.5°	7136.4	4761.7	1407.9	1090.4	1122.0	1133.3	1014.8	990.3	930.1	864.7
9388.6	50°	7763.3	5142.5	1435.5	1050.6	1065.9	1027.1	999.5	977.0	914.8	850.4
10186.0	52.5°	8411.6	5562.1	1490.6	996.4	1009.7	966.8	993.4	974.0	905.6	818.8
11009.9	55°	9048.6	5984.8	1543.7	933.1	952.5	912.7	976.0	961.7	863.7	765.7
11888.9	57.5°	9695.9	6405.4	1595.7	877.0	897.4	860.7	948.5	929.1	816.8	716.7
12848.6	60°	10368.7	6813.8	1620.2	822.9	837.2	812.7	906.6	872.9	763.7	666.7
13792.0	62.5°	10998.7	7153.8	1580.4	768.8	778.0	767.8	851.5	806.5	710.6	610.5
14775.1	65°	11630.6	7355.9	1457.9	715.7	717.7	712.6	773.9	735.1	648.3	561.5
15635.8	67.5°	12203.4	7469.2	1262.9	658.5	653.4	651.4	701.4	657.5	588.1	512.5
16290.2	70°	12324.9	7181.3	964.8	591.1	591.1	586.0	621.8	576.8	521.7	460.4
15821.6	72.5°	11257.0	6040.9	685.1	514.6	522.7	512.5	542.1	504.3	454.3	413.5
13635.8	75°	9077.2	4429.9	498.2	435.9	450.2	432.9	460.4	433.9	391.0	390.0
9396.8	77.5°	6237.0	2739.2	361.4	359.4	369.6	347.1	378.8	364.5	325.7	308.3
4089.9	80°	2661.6	1092.4	263.4	277.7	277.7	257.3	294.0	298.1	264.4	256.3
789.2	82.5°	529.9	310.4	184.8	190.9	179.7	173.6	208.3	230.7	318.5	354.3
237.9	85°	159.3	114.3	111.3	104.1	91.9	92.9	122.5	231.8	285.9	163.4
78.6	87.5°	43.9	28.6	29.6	23.5	19.4	25.5	41.9	175.6	96.0	40.8
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>
3874.5
3751.0
3423.2
2891.3
2308.4
1934.7
1691.7
1619.2
1590.6
1525.3
1450.8
1410.9
1390.5
1355.8
1249.6
1121.0
983.2
927.0
889.2
859.6
843.3
812.7
760.6
714.7
663.6
609.5
555.4
506.4
458.4
401.2
351.2
288.9
256.3
355.3
140.9
34.7
0.0

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