

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: P950737

Luminaire Tested: **GALN-SB5A-835-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950737
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-SB5A-835-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 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: 20890 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

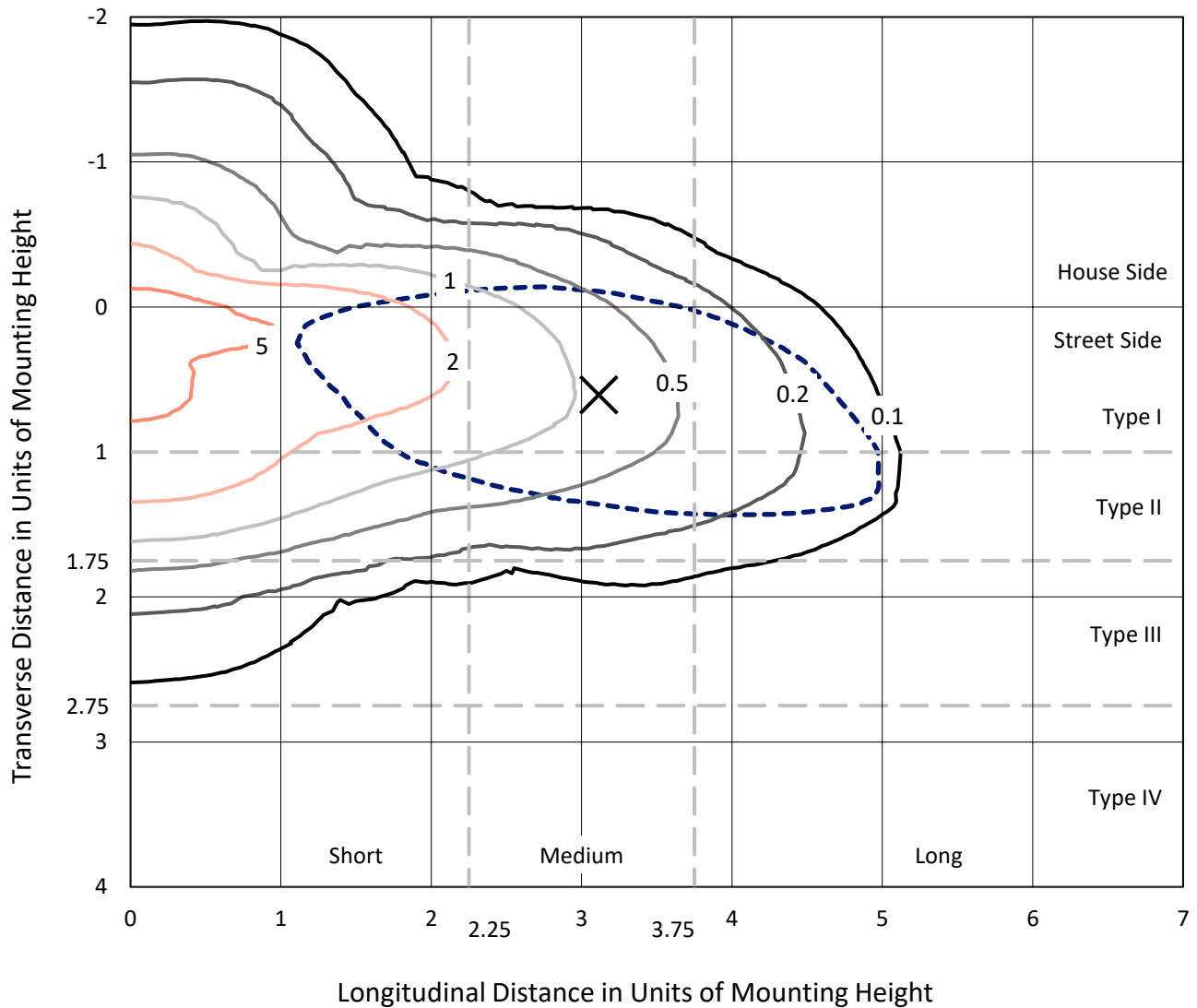
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

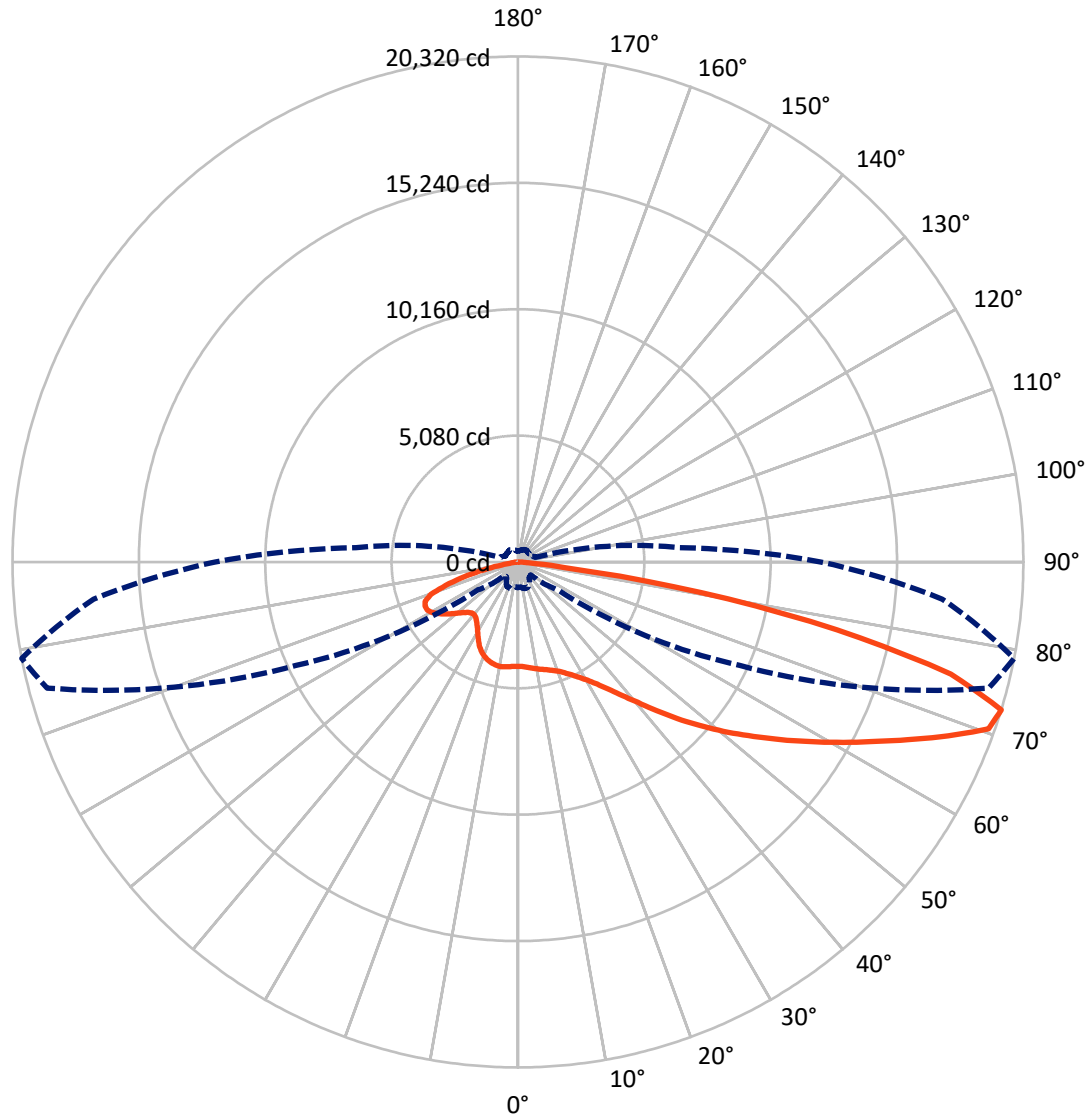
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	4596.9	0.0	4596.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	16293.1	0.0	16293.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	20890.0	0.0	20890.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.6	1.8
10°-20°	995.2	4.8
20°-30°	1605.8	7.7
30°-40°	2410.1	11.5
40°-50°	3418.9	16.4
50°-60°	4317.6	20.7
60°-70°	4385.2	21.0
70°-80°	2988.7	14.3
80°-90°	387.8	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°	20890.0	100.0
0°-180°	20890.0	100.0



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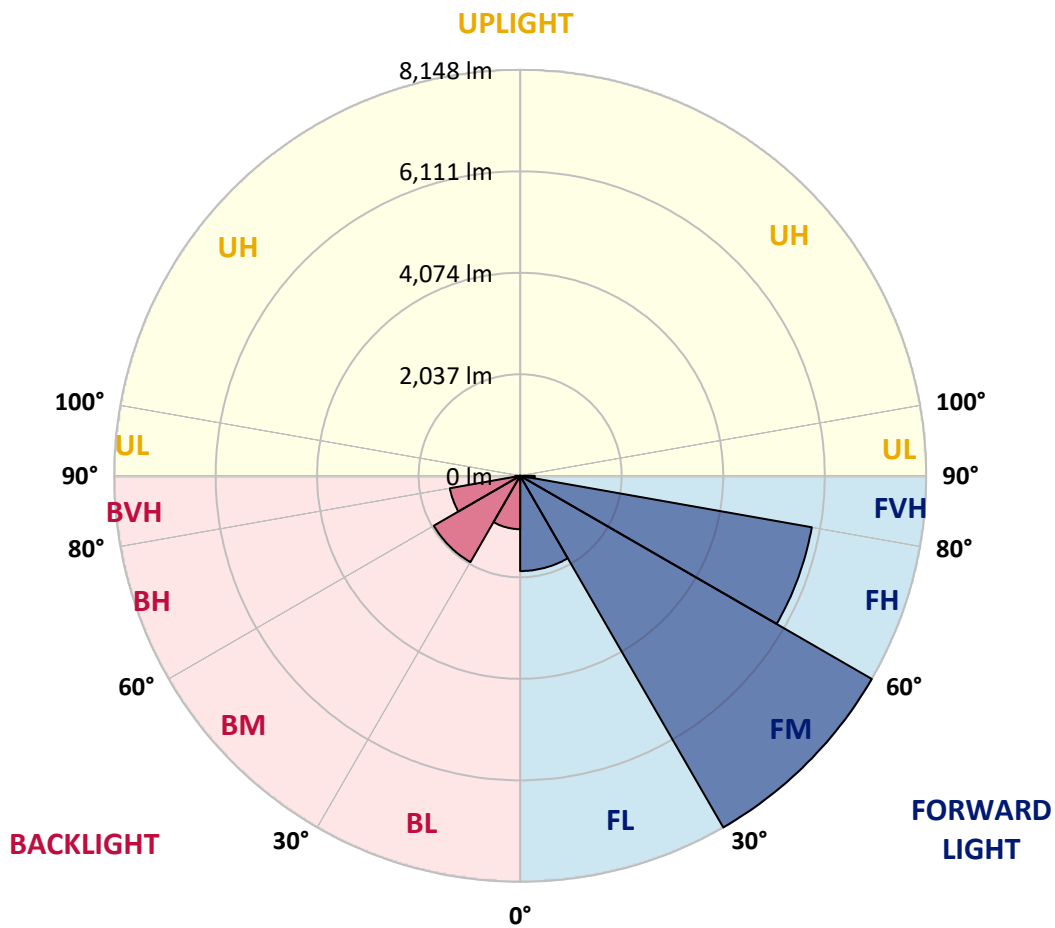
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1910.9	9.1			
FM (30°-60°)	8147.5	39.0			
FH (60°-80°)	5942.5	28.4			G3/7500
FVH (80°-90°)	292.1	1.4			G3/500
BL (0°-30°)	1070.8	5.1	B3/2500		
BM (30°-60°)	1999.2	9.6	B2/2500		
BH (60°-80°)	1431.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	95.7	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°	4193.5	4193.5	4193.5	4193.5	4193.5	4193.5	4193.5	4193.5	4193.5	4193.5
2.5°	4195.7	4175.8	4187.9	4183.5	4189.0	4195.7	4197.9	4201.2	4212.3	4211.1
5°	4186.8	4166.9	4183.5	4178.0	4192.4	4207.8	4221.1	4233.2	4250.9	4258.7
7.5°	4168.1	4154.8	4171.4	4187.9	4214.5	4237.7	4256.5	4284.1	4309.5	4313.9
10°	4058.7	4048.7	4087.4	4130.5	4203.4	4266.4	4307.3	4339.3	4367.0	4371.4
12.5°	3944.8	3932.7	3975.8	4034.3	4152.6	4266.4	4352.6	4394.6	4418.9	4433.3
15°	3926.1	3916.1	3940.4	3991.3	4089.6	4236.6	4383.5	4460.9	4481.9	4498.4
17.5°	4016.7	3997.9	4007.8	4025.5	4083.0	4208.9	4407.8	4536.0	4568.1	4585.7
20°	4226.6	4200.1	4184.6	4149.3	4139.3	4213.4	4405.6	4626.6	4668.6	4690.7
22.5°	4506.2	4488.5	4455.4	4365.8	4268.6	4267.5	4447.6	4742.7	4821.1	4842.1
25°	4844.3	4817.8	4775.8	4654.3	4467.5	4374.7	4518.3	4890.7	5022.2	5027.7
27.5°	5233.3	5193.5	5136.0	4975.8	4723.9	4542.6	4626.6	5060.9	5253.2	5251.0
30°	5643.2	5603.4	5542.7	5348.2	5031.1	4769.2	4776.9	5244.3	5527.2	5515.0
32.5°	5942.7	5912.8	5900.7	5750.4	5384.7	5036.6	4949.3	5447.6	5865.3	5854.3
35°	6172.5	6133.8	6148.2	6072.0	5770.3	5336.0	5160.3	5689.6	6276.4	6275.3
37.5°	6400.2	6365.9	6378.1	6327.2	6127.2	5716.2	5417.8	5985.8	6785.8	6810.1
40°	6607.9	6571.4	6620.0	6572.5	6404.6	6120.6	5710.6	6320.6	7375.9	7422.3
42.5°	6732.8	6704.0	6784.7	6785.8	6645.5	6462.0	6032.2	6689.7	8058.8	8162.6
45°	6775.9	6765.9	6887.5	6912.9	6858.7	6659.8	6321.7	7091.9	8794.7	8980.3
47.5°	6729.4	6710.7	6878.6	6972.5	7015.6	6752.6	6561.5	7527.2	9546.1	9817.9
50°	6495.2	6458.7	6708.4	6906.2	7059.8	6813.4	6803.5	8030.0	10400.2	10697.5
52.5°	6074.2	6046.6	6330.5	6674.2	6962.6	6843.3	7075.3	8579.2	11211.3	11595.9
55°	5536.0	5499.6	5812.3	6260.9	6720.6	6833.3	7347.1	9193.6	12168.2	12558.3
57.5°	4683.0	4610.1	5005.6	5536.0	6326.1	6821.2	7630.0	9804.7	13140.6	13608.1
60°	3438.8	3330.5	3815.6	4444.3	5554.8	6702.9	7980.3	10489.7	14307.5	14728.5
62.5°	2002.3	1939.3	2256.4	2843.2	4186.8	6006.8	8177.0	11286.5	15454.5	15896.5
65°	1554.7	1537.1	1564.7	1610.0	2330.4	4497.3	7570.3	12063.3	16913.1	17222.5
67.5°	1422.1	1408.9	1421.0	1335.9	1182.3	2505.0	5989.1	12260.0	18475.6	18663.4
70°	1264.1	1248.6	1288.4	1215.5	930.4	1139.3	3869.7	11546.1	19718.7	20071.2
72.5°	1029.9	1012.2	1105.0	1071.8	783.4	731.5	1943.7	9850.0	19588.3	20319.8
75°	791.2	781.2	891.7	919.4	638.7	575.7	932.6	7321.7	17238.0	17975.0
77.5°	614.4	606.6	663.0	763.6	514.9	446.4	573.5	4644.3	12990.4	13119.6
80°	460.8	438.7	490.6	591.2	401.1	326.0	389.0	2708.4	8211.2	7443.3
82.5°	288.4	277.4	320.4	394.5	282.9	224.3	253.0	1496.2	3290.7	1938.2
85°	164.6	160.2	174.6	225.4	153.6	129.3	144.8	660.8	601.1	413.3
87.5°	66.3	64.1	79.6	100.6	56.4	47.5	50.8	159.1	132.6	122.7
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°
4193.5	0°	4193.5	4193.5	4193.5	4193.5	4193.5	4193.5	4193.5	4193.5	4193.5	4193.5
4210.0	2.5°	4205.6	4205.6	4190.2	4165.8	4138.2	4120.5	4091.8	4084.1	4054.2	4045.4
4247.6	5°	4256.5	4247.6	4200.1	4131.6	4037.7	3951.5	3856.4	3796.8	3712.8	3683.0
4321.6	7.5°	4320.5	4296.2	4214.5	4064.2	3867.5	3674.1	3473.0	3320.5	3174.7	3122.7
4382.4	10°	4379.1	4344.9	4205.6	3942.6	3602.3	3267.5	2947.0	2722.7	2552.5	2482.9
4449.8	12.5°	4437.7	4374.7	4147.1	3740.4	3225.5	2771.3	2429.9	2255.3	2150.3	2066.3
4505.1	15°	4492.9	4404.5	4056.4	3469.7	2812.2	2351.4	2099.5	1960.3	1876.3	1821.0
4585.7	17.5°	4557.0	4429.9	3920.5	3126.0	2418.8	2060.8	1855.3	1771.3	1754.7	1748.1
4696.2	20°	4646.5	4453.1	3741.5	2741.5	2129.3	1828.8	1722.7	1715.0	1713.9	1710.5
4828.8	22.5°	4742.7	4480.8	3505.1	2392.3	1882.9	1684.0	1665.2	1649.8	1639.8	1638.7
4989.1	25°	4856.5	4489.6	3208.9	2106.1	1673.0	1615.5	1593.4	1570.2	1563.6	1563.6
5171.4	27.5°	4967.0	4459.8	2864.2	1857.5	1554.7	1552.5	1523.8	1516.1	1515.0	1518.3
5379.1	30°	5077.5	4403.4	2521.6	1627.7	1486.2	1486.2	1476.3	1481.8	1486.2	1497.3
5664.2	32.5°	5226.6	4343.7	2235.4	1457.5	1426.6	1415.5	1425.4	1436.5	1440.9	1455.3
6038.8	35°	5445.4	4301.8	2007.8	1364.7	1364.7	1350.3	1355.8	1353.6	1343.7	1337.0
6491.9	37.5°	5734.9	4299.5	1819.9	1321.6	1312.7	1310.5	1311.6	1297.3	1258.6	1212.2
7039.9	40°	6083.0	4359.2	1675.2	1291.7	1285.1	1298.4	1291.7	1253.1	1147.0	1066.3
7714.0	42.5°	6550.4	4529.4	1582.4	1255.3	1275.2	1291.7	1265.2	1131.5	1059.7	1005.5
8482.0	45°	7100.7	4805.6	1534.8	1216.6	1256.4	1276.3	1148.1	1089.5	1032.1	966.9
9319.6	47.5°	7723.9	5153.7	1523.8	1180.1	1214.4	1226.5	1098.4	1071.8	1006.7	935.9
10161.6	50°	8402.4	5565.9	1553.6	1137.0	1153.6	1111.6	1081.8	1057.5	990.1	920.5
11024.6	52.5°	9104.1	6020.0	1613.3	1078.5	1092.8	1046.4	1075.2	1054.2	980.1	886.2
11916.3	55°	9793.6	6477.5	1670.8	1010.0	1031.0	987.9	1056.4	1040.9	934.8	828.7
12867.7	57.5°	10494.2	6932.8	1727.1	949.2	971.3	931.5	1026.5	1005.5	884.0	775.7
13906.4	60°	11222.4	7374.8	1753.6	890.6	906.1	879.6	981.2	944.8	826.5	721.6
14927.4	62.5°	11904.1	7742.7	1710.5	832.1	842.0	831.0	921.6	872.9	769.1	660.8
15991.5	65°	12588.1	7961.5	1577.9	774.6	776.8	771.3	837.6	795.6	701.7	607.7
16923.1	67.5°	13208.0	8084.2	1366.9	712.7	707.2	705.0	759.1	711.6	636.5	554.7
17631.4	70°	13339.5	7772.6	1044.2	639.8	639.8	634.3	672.9	624.3	564.7	498.4
17124.2	72.5°	12183.7	6538.3	741.5	556.9	565.8	554.7	586.8	545.9	491.7	447.5
14758.4	75°	9824.5	4794.6	539.2	471.8	487.3	468.5	498.4	469.6	423.2	422.1
10170.4	77.5°	6750.4	2964.7	391.2	389.0	400.0	375.7	410.0	394.5	352.5	333.7
4426.6	80°	2880.7	1182.3	285.1	300.6	300.6	278.5	318.2	322.7	286.2	277.4
854.2	82.5°	573.5	335.9	200.0	206.6	194.5	187.8	225.4	249.7	344.8	383.4
257.5	85°	172.4	123.8	120.4	112.7	99.4	100.6	132.6	250.8	309.4	176.8
85.1	87.5°	47.5	30.9	32.0	25.4	21.0	27.6	45.3	190.1	103.9	44.2
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>
4193.5
4059.8
3705.1
3129.4
2498.4
2094.0
1831.0
1752.5
1721.6
1650.9
1570.2
1527.1
1505.0
1467.4
1352.5
1213.3
1064.1
1003.3
962.5
930.4
912.7
879.6
823.2
773.5
718.2
659.7
601.1
548.1
496.1
434.3
380.1
312.7
277.4
384.5
152.5
37.6
0.0

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