

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: P948616

Luminaire Tested: **GALN-SB3C-840-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948616
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-SB3C-840-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21363 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

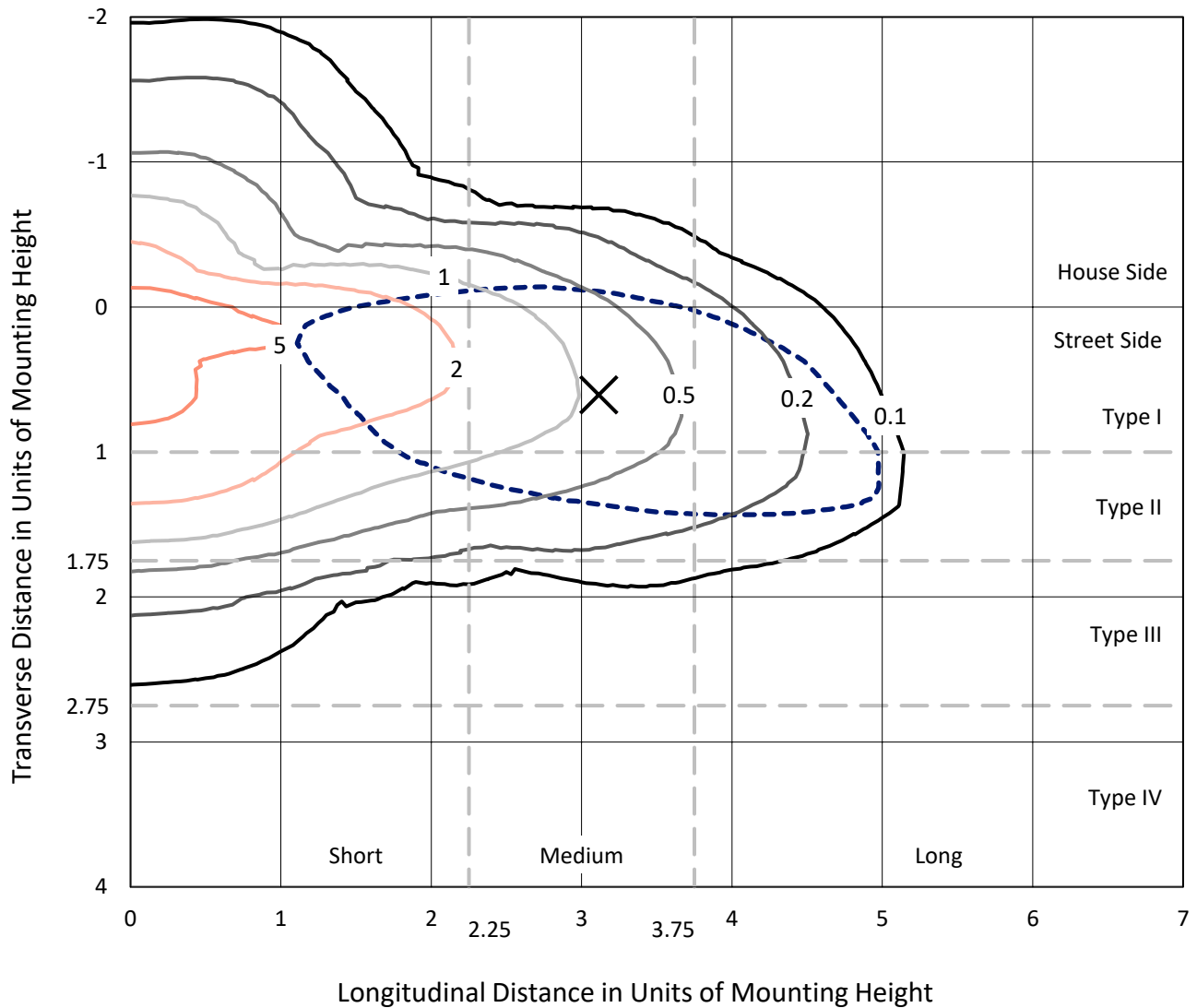
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

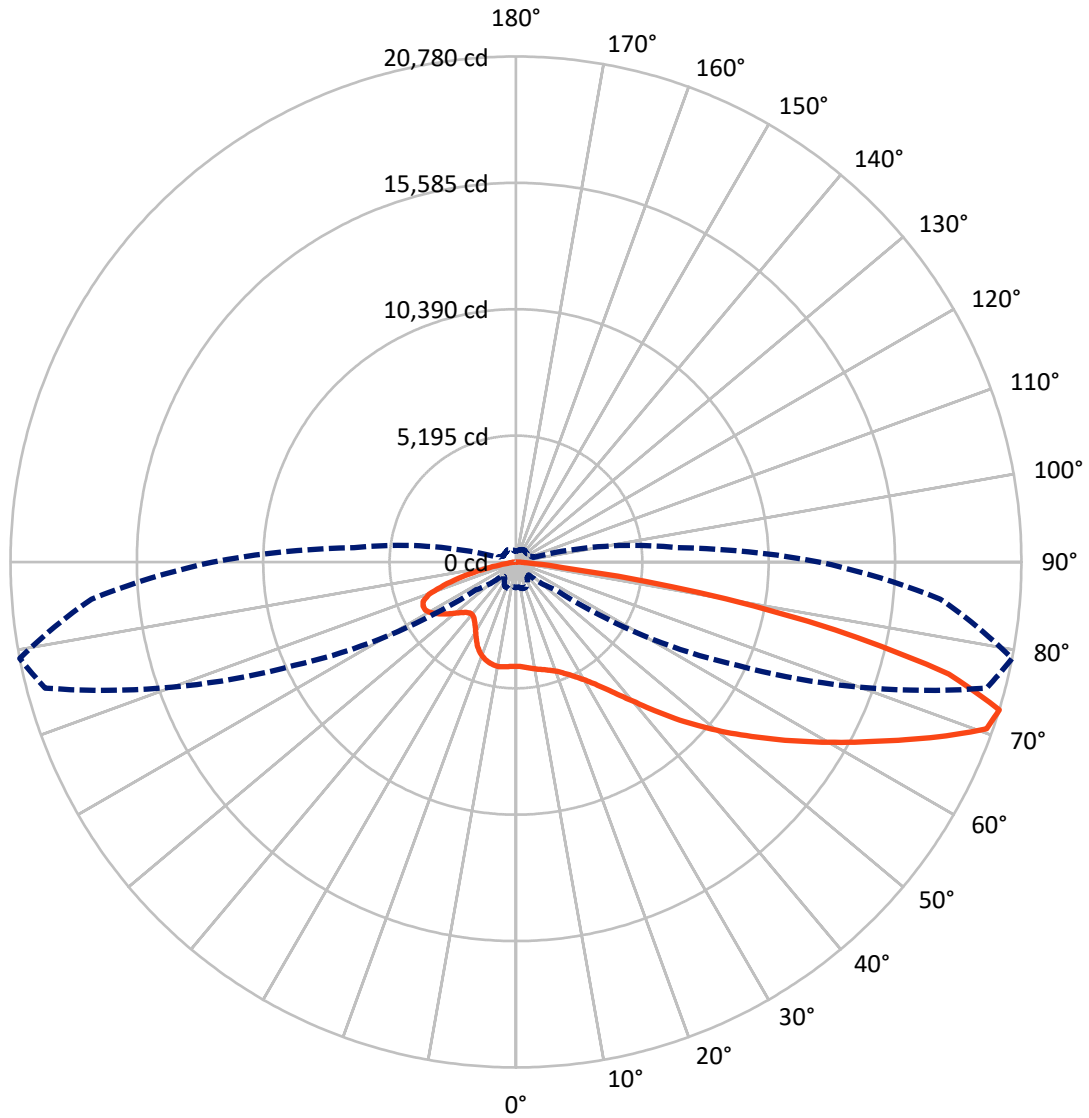
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	4701.0	0.0	4701.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	16662.0	0.0	16662.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	21363.0	0.0	21363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.3	1.8
10°-20°	1017.7	4.8
20°-30°	1642.2	7.7
30°-40°	2464.7	11.5
40°-50°	3496.3	16.4
50°-60°	4415.4	20.7
60°-70°	4484.5	21.0
70°-80°	3056.4	14.3
80°-90°	396.5	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°	21363.0	100.0
0°-180°	21363.0	100.0

Coefficient of Utilization



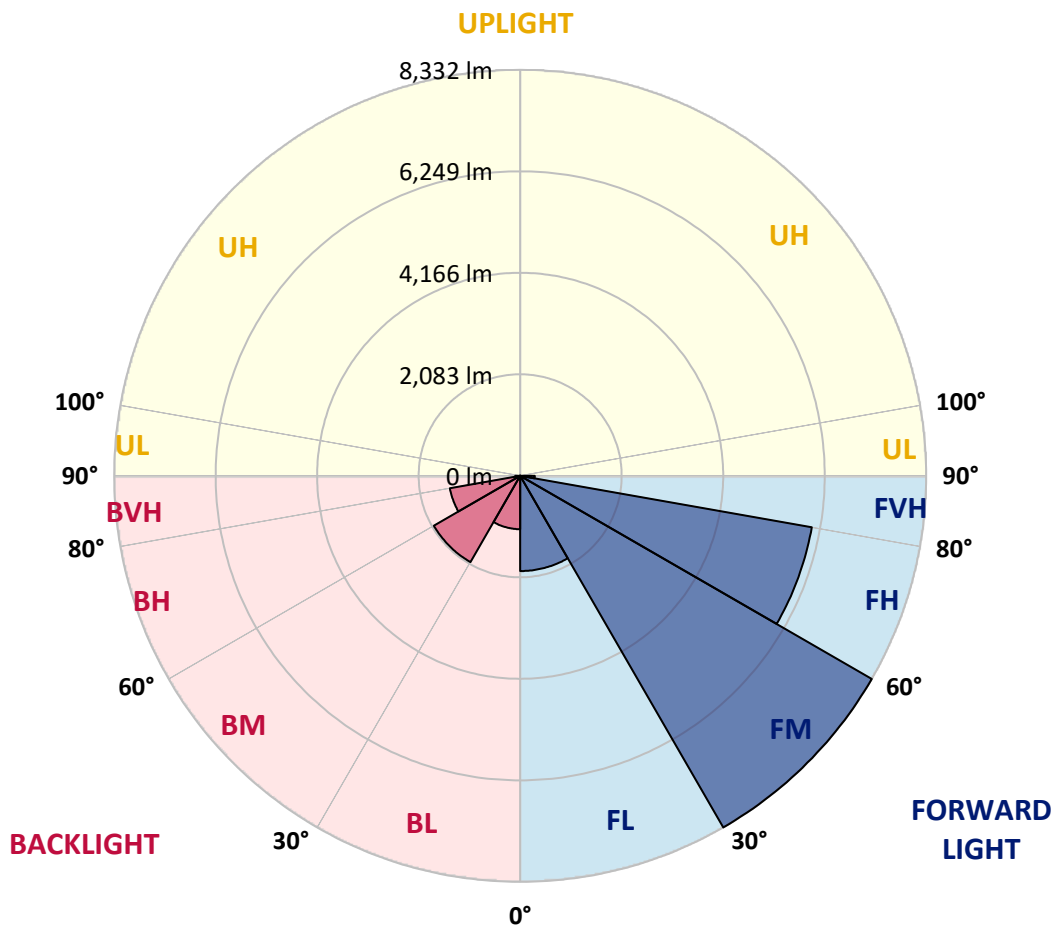
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1954.2	9.1			
FM (30°-60°)	8332.0	39.0			
FH (60°-80°)	6077.1	28.4			G3/7500
FVH (80°-90°)	298.7	1.4			G3/500
BL (0°-30°)	1095.0	5.1	B3/2500		
BM (30°-60°)	2044.5	9.6	B2/2500		
BH (60°-80°)	1463.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	97.8	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°	4288.4	4288.4	4288.4	4288.4	4288.4	4288.4	4288.4	4288.4	4288.4	4288.4
2.5°	4290.7	4270.3	4282.8	4278.2	4283.9	4290.7	4292.9	4296.3	4307.6	4306.5
5°	4281.6	4261.3	4278.2	4272.6	4287.3	4303.1	4316.7	4329.1	4347.2	4355.1
7.5°	4262.4	4248.9	4265.8	4282.8	4309.9	4333.6	4352.8	4381.1	4407.1	4411.6
10°	4150.6	4140.4	4179.9	4224.0	4298.6	4363.0	4404.8	4437.6	4465.8	4470.4
12.5°	4034.2	4021.7	4065.8	4125.7	4246.6	4363.0	4451.1	4494.1	4518.9	4533.6
15°	4015.0	4004.8	4029.6	4081.6	4182.2	4332.5	4482.8	4561.9	4583.4	4600.3
17.5°	4107.6	4088.4	4098.6	4116.7	4175.4	4304.2	4507.6	4638.7	4671.5	4689.6
20°	4322.3	4295.2	4279.4	4243.2	4233.0	4308.8	4505.4	4731.4	4774.3	4796.9
22.5°	4608.2	4590.1	4556.2	4464.7	4365.3	4364.1	4548.3	4850.0	4930.3	4951.7
25°	4954.0	4926.9	4883.9	4759.6	4568.7	4473.7	4620.6	5001.5	5135.9	5141.6
27.5°	5351.8	5311.1	5252.3	5088.5	4830.8	4645.5	4731.4	5175.5	5372.1	5369.8
30°	5771.0	5730.3	5668.2	5469.3	5145.0	4877.2	4885.1	5363.1	5652.4	5639.9
32.5°	6077.2	6046.7	6034.3	5880.6	5506.6	5150.6	5061.4	5571.0	5998.1	5986.8
35°	6312.3	6272.7	6287.4	6209.5	5901.0	5456.9	5277.2	5818.5	6418.5	6417.4
37.5°	6545.1	6510.0	6522.5	6470.5	6266.0	5845.6	5540.5	6121.3	6939.4	6964.3
40°	6757.5	6720.2	6769.9	6721.3	6549.6	6259.2	5839.9	6463.7	7542.9	7590.3
42.5°	6885.2	6855.8	6938.3	6939.4	6795.9	6608.3	6168.8	6841.1	8241.2	8347.4
45°	6929.3	6919.1	7043.4	7069.4	7014.0	6810.6	6464.8	7252.5	8993.8	9183.7
47.5°	6881.8	6862.6	7034.4	7130.4	7174.5	6905.5	6710.0	7697.7	9762.2	10040.2
50°	6642.2	6605.0	6860.3	7062.6	7219.7	6967.7	6957.5	8211.8	10635.7	10939.7
52.5°	6211.7	6183.5	6473.9	6825.3	7120.2	6998.2	7235.5	8773.5	11465.2	11858.4
55°	5661.4	5624.1	5943.9	6402.7	6872.8	6988.0	7513.5	9401.8	12443.8	12842.7
57.5°	4789.0	4714.4	5119.0	5661.4	6469.4	6975.6	7802.8	10026.7	13438.2	13916.2
60°	3516.6	3405.9	3902.0	4544.9	5680.6	6854.7	8161.0	10727.3	14631.5	15062.0
62.5°	2047.6	1983.2	2307.5	2907.5	4281.6	6142.8	8362.1	11542.0	15804.4	16256.4
65°	1589.9	1571.9	1600.1	1646.4	2383.2	4599.2	7741.8	12336.4	17296.1	17612.5
67.5°	1454.3	1440.8	1453.2	1366.2	1209.1	2561.8	6124.7	12537.6	18893.9	19086.0
70°	1292.7	1276.9	1317.6	1243.0	951.5	1165.0	3957.3	11807.6	20165.2	20525.7
72.5°	1053.2	1035.1	1130.0	1096.1	801.2	748.1	1987.7	10073.0	20031.8	20779.9
75°	809.1	798.9	911.9	940.2	653.2	588.7	953.7	7487.5	17628.3	18382.0
77.5°	628.3	620.4	678.0	780.8	526.6	456.5	586.5	4749.5	13284.5	13416.7
80°	471.2	448.6	501.7	604.6	410.2	333.4	397.8	2769.7	8397.2	7611.8
82.5°	294.9	283.6	327.7	403.4	289.3	229.4	258.8	1530.0	3365.2	1982.1
85°	168.4	163.9	178.5	230.5	157.1	132.2	148.0	675.8	614.7	422.6
87.5°	67.8	65.5	81.4	102.8	57.6	48.6	52.0	162.7	135.6	125.4
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°
4288.4	0°	4288.4	4288.4	4288.4	4288.4	4288.4	4288.4	4288.4	4288.4	4288.4	4288.4
4305.4	2.5°	4300.8	4300.8	4285.0	4260.2	4231.9	4213.8	4184.5	4176.5	4146.0	4137.0
4343.8	5°	4352.8	4343.8	4295.2	4225.1	4129.1	4040.9	3943.8	3882.7	3796.9	3766.4
4419.5	7.5°	4418.4	4393.5	4309.9	4156.2	3955.1	3757.3	3551.6	3395.7	3246.5	3193.4
4481.7	10°	4478.3	4443.2	4300.8	4031.9	3683.9	3341.5	3013.8	2784.4	2610.3	2539.2
4550.6	12.5°	4538.2	4473.7	4241.0	3825.1	3298.5	2834.1	2484.9	2306.4	2199.0	2113.1
4607.1	15°	4594.7	4504.3	4148.3	3548.3	2875.9	2404.7	2147.0	2004.7	1918.8	1862.3
4689.6	17.5°	4660.2	4530.2	4009.3	3196.8	2473.6	2107.5	1897.3	1811.4	1794.5	1787.7
4802.6	20°	4751.7	4554.0	3826.2	2803.6	2177.5	1870.2	1761.7	1753.8	1752.7	1749.3
4938.2	22.5°	4850.0	4582.2	3584.4	2446.5	1925.6	1722.1	1702.9	1687.1	1676.9	1675.8
5102.0	25°	4966.4	4591.3	3281.6	2153.8	1710.8	1652.1	1629.5	1605.8	1599.0	1599.0
5288.5	27.5°	5079.4	4560.8	2929.0	1899.6	1589.9	1587.7	1558.3	1550.4	1549.3	1552.6
5500.9	30°	5192.4	4503.1	2578.7	1664.5	1519.9	1519.9	1509.7	1515.4	1519.9	1531.2
5792.5	32.5°	5345.0	4442.1	2286.0	1490.5	1458.9	1447.6	1457.7	1469.0	1473.5	1488.2
6175.5	35°	5568.7	4399.2	2053.2	1395.6	1395.6	1380.9	1386.5	1384.3	1374.1	1367.3
6638.9	37.5°	5864.8	4396.9	1861.1	1351.5	1342.5	1340.2	1341.3	1326.6	1287.1	1239.6
7199.3	40°	6220.8	4457.9	1713.1	1321.0	1314.2	1327.8	1321.0	1281.4	1173.0	1090.5
7888.7	42.5°	6698.7	4631.9	1618.2	1283.7	1304.0	1321.0	1293.9	1157.1	1083.7	1028.3
8674.0	45°	7261.5	4914.4	1569.6	1244.2	1284.8	1305.2	1174.1	1114.2	1055.4	988.8
9530.6	47.5°	7898.8	5270.4	1558.3	1206.9	1241.9	1254.3	1123.2	1096.1	1029.4	957.1
10391.6	50°	8592.7	5691.9	1588.8	1162.8	1179.7	1136.8	1106.3	1081.4	1012.5	941.3
11274.2	52.5°	9310.2	6156.3	1649.8	1102.9	1117.6	1070.1	1099.5	1078.0	1002.3	906.3
12186.1	55°	10015.4	6624.2	1708.6	1032.8	1054.3	1010.2	1080.3	1064.5	956.0	847.5
13159.1	57.5°	10731.8	7089.7	1766.2	970.7	993.3	952.6	1049.8	1028.3	904.0	793.3
14221.3	60°	11476.5	7541.7	1793.3	910.8	926.6	899.5	1003.5	966.2	845.3	737.9
15265.4	62.5°	12173.7	7918.0	1749.3	850.9	861.1	849.8	942.4	892.7	786.5	675.8
16353.6	65°	12873.2	8141.8	1613.7	792.1	794.4	788.8	856.6	813.6	717.6	621.5
17306.2	67.5°	13507.1	8267.2	1397.8	728.9	723.2	721.0	776.3	727.7	650.9	567.3
18030.6	70°	13641.6	7948.5	1067.9	654.3	654.3	648.6	688.2	638.5	577.4	509.6
17511.9	72.5°	12459.6	6686.3	758.2	569.5	578.6	567.3	600.0	558.2	502.9	457.7
15092.5	75°	10047.0	4903.1	551.4	482.5	498.3	479.1	509.6	480.3	432.8	431.7
10400.7	77.5°	6903.3	3031.8	400.0	397.8	409.1	384.2	419.2	403.4	360.5	341.3
4526.9	80°	2946.0	1209.1	291.5	307.4	307.4	284.8	325.4	330.0	292.7	283.6
873.5	82.5°	586.5	343.5	204.5	211.3	198.9	192.1	230.5	255.4	352.6	392.1
263.3	85°	176.3	126.6	123.2	115.3	101.7	102.8	135.6	256.5	316.4	180.8
87.0	87.5°	48.6	31.6	32.8	26.0	21.5	28.3	46.3	194.4	106.2	45.2
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>
4288.4
4151.7
3789.0
3200.2
2555.0
2141.4
1872.4
1792.2
1760.6
1688.2
1605.8
1561.7
1539.1
1500.7
1383.1
1240.8
1088.2
1026.1
984.2
951.5
933.4
899.5
841.9
791.0
734.5
674.6
614.7
560.5
507.4
444.1
388.7
319.8
283.6
393.2
155.9
38.4
0.0

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