

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: P956379

Luminaire Tested: **GALN-SB9A-750-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-750-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43142 lumens
Efficiency: N/A
Efficacy: 168.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

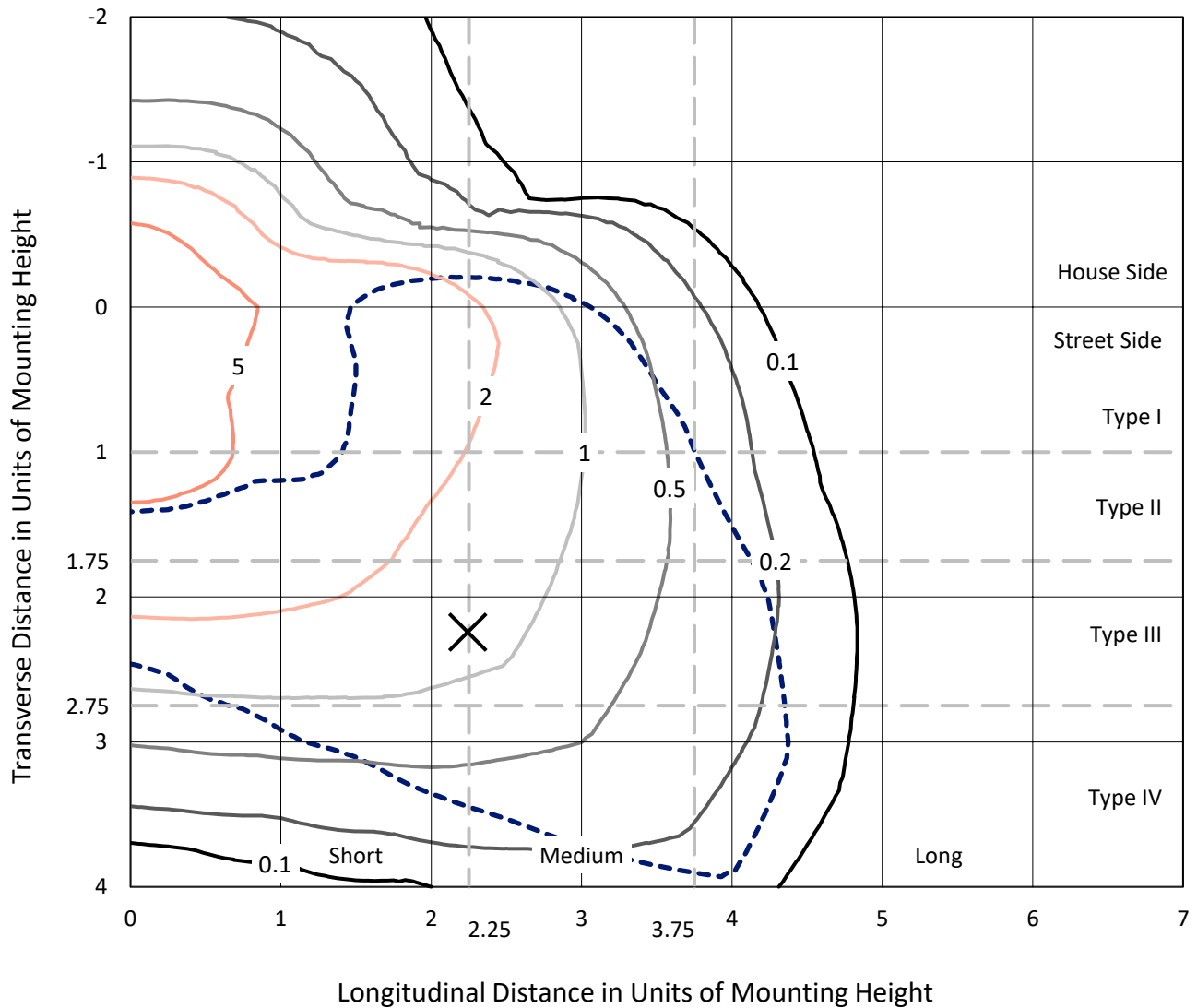
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956379
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Iso-Footcandle Lines of Horizontal Illumination

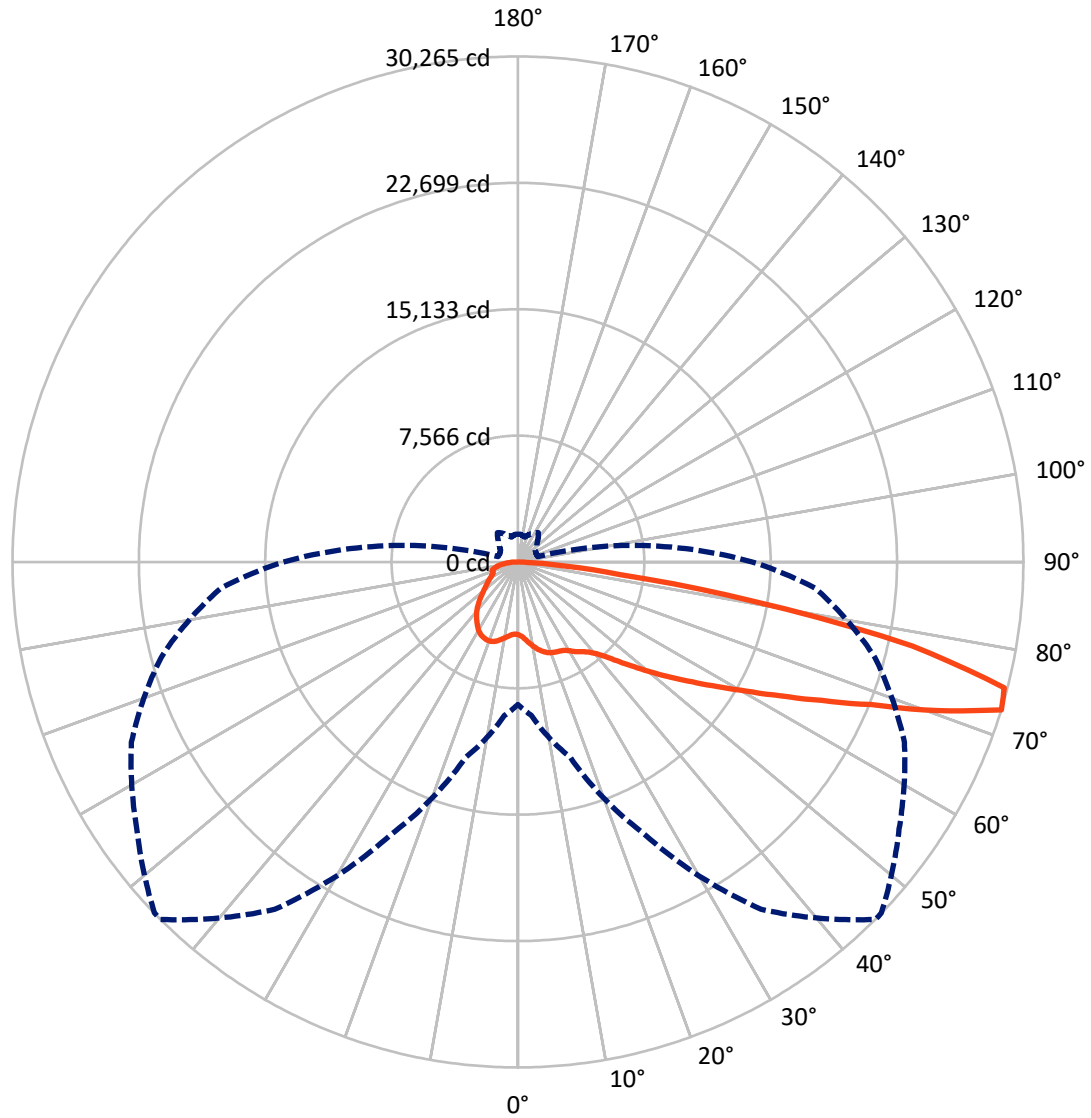
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P956379
CATALOG NUMBER: GALN-SB9A-750-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9752.9	0.0	9752.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	33389.1	0.0	33389.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	43142.0	0.0	43142.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.0	1.0
10°-20°	1476.9	3.4
20°-30°	2569.2	6.0
30°-40°	3683.0	8.5
40°-50°	5185.9	12.0
50°-60°	7943.3	18.4
60°-70°	11507.1	26.7
70°-80°	9189.1	21.3
80°-90°	1144.5	2.7
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°	43142.0	100.0
0°-180°	43142.0	100.0



REPORT NUMBER: P956379

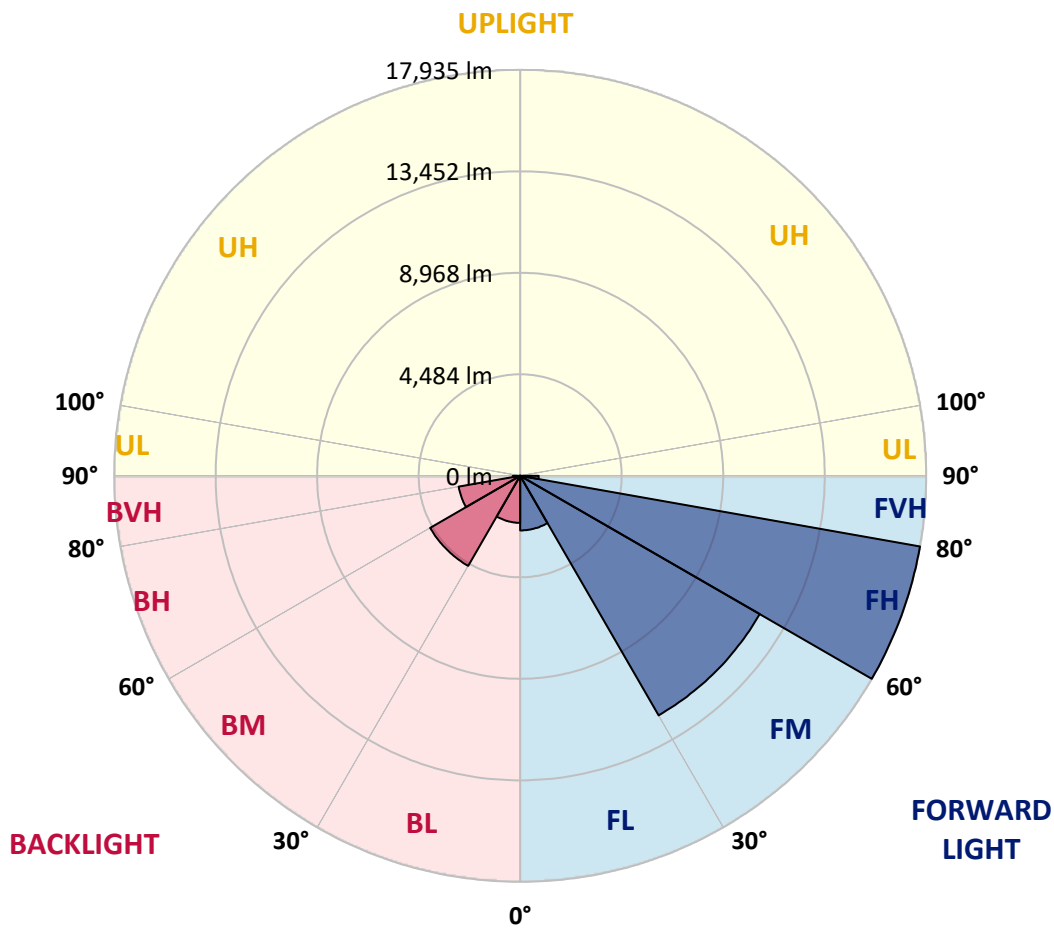
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2412.6	5.6			
FM (30°-60°)	12220.1	28.3			
FH (60°-80°)	17935.4	41.6			G5
FVH (80°-90°)	821.0	1.9			G5
BL (0°-30°)	2076.5	4.8	B3/2500		
BM (30°-60°)	4592.2	10.6	B3/5000		
BH (60°-80°)	2760.8	6.4	B4/5000		G4/5000
BVH (80°-90°)	323.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4352.2	4352.2	4352.2	4352.2	4352.2	4352.2	4352.2	4352.2	4352.2	4352.2
2.5°	4522.6	4552.2	4524.9	4499.9	4488.5	4459.0	4456.7	4438.6	4427.2	4395.4
5°	4838.5	4877.2	4831.7	4781.7	4736.3	4663.5	4654.5	4602.2	4543.1	4474.9
7.5°	5195.4	5229.4	5177.2	5102.2	5022.6	4902.2	4899.9	4804.5	4711.3	4595.4
10°	5506.7	5552.2	5481.7	5379.4	5279.4	5143.1	5127.2	5018.1	4899.9	4749.9
12.5°	5781.7	5813.5	5745.3	5620.3	5504.4	5368.1	5347.6	5227.2	5095.4	4924.9
15°	5999.9	6040.8	5949.9	5815.8	5693.1	5559.0	5540.8	5431.7	5299.9	5120.4
17.5°	6143.1	6177.2	6084.0	5934.0	5815.8	5704.4	5690.8	5599.9	5484.0	5302.2
20°	6197.6	6234.0	6136.2	5984.0	5874.9	5788.5	5781.7	5715.8	5636.3	5470.3
22.5°	6252.2	6286.2	6159.0	5999.9	5904.4	5849.9	5847.6	5804.4	5772.6	5636.3
25°	6472.6	6481.7	6311.2	6081.7	5945.3	5897.6	5895.3	5893.1	5906.7	5799.9
27.5°	6663.5	6661.2	6515.8	6299.9	6088.5	5988.5	5986.2	6009.0	6052.2	5963.5
30°	6943.0	6918.0	6745.3	6520.3	6327.1	6172.6	6159.0	6138.5	6172.6	6102.2
32.5°	7536.2	7456.7	7177.1	6777.1	6524.9	6406.7	6388.5	6261.2	6274.9	6231.7
35°	8386.2	8281.7	7908.9	7263.5	6770.3	6602.1	6593.1	6431.7	6404.4	6365.8
37.5°	9397.5	9268.0	8833.9	7968.0	7193.0	6829.4	6815.8	6670.3	6559.0	6518.1
40°	10413.4	10249.8	9890.7	8827.1	7815.8	7209.0	7165.8	6945.3	6818.0	6749.9
42.5°	11399.8	11263.4	10956.6	9790.7	8583.9	7763.5	7668.0	7290.8	7195.3	7131.7
45°	12272.5	12149.8	11924.8	10820.2	9483.9	8518.0	8424.8	7808.9	7779.4	7779.4
47.5°	12981.6	12954.3	12715.7	11870.2	10545.2	9377.1	9215.7	8529.4	8608.9	8731.6
50°	13767.9	13692.9	13438.4	12904.3	11793.0	10361.2	10229.3	9413.5	9711.2	10047.5
52.5°	14490.6	14531.5	14247.5	13981.5	13202.0	11458.9	11227.1	10456.6	11099.8	11656.6
55°	15233.8	15236.1	15156.5	15120.2	14679.3	12672.5	12417.9	11711.1	12733.8	13424.7
57.5°	15931.5	15936.1	16054.2	16374.7	16392.9	14072.5	13783.8	13252.0	14549.7	15254.2
60°	16554.2	16586.0	16908.8	17658.7	17899.7	15677.0	15404.2	15072.4	16427.0	17136.0
62.5°	16763.3	16879.2	17597.4	18663.3	19388.3	17645.1	17376.9	17179.2	18399.6	19058.7
65°	16408.8	16674.7	18063.3	19492.8	20920.0	19983.7	19717.8	19501.9	20449.6	21070.0
67.5°	15538.3	15881.5	18036.0	20363.2	22779.1	22797.3	22549.6	22042.8	22647.3	22885.9
70°	13245.2	13758.8	16447.4	20688.2	24913.2	26644.9	26406.3	25101.8	24840.4	23685.9
72.5°	8533.9	9224.8	12111.1	18013.3	25388.1	30265.3	30251.7	27863.1	25533.6	22131.4
75°	3113.6	3536.3	5627.2	11306.6	21310.9	30081.2	30169.9	27390.4	23308.6	17095.1
77.5°	1134.1	1240.9	1836.3	4345.4	13106.6	24135.9	24320.0	21897.3	16590.6	8579.4
80°	595.4	654.5	940.9	1686.3	5615.8	14333.8	14622.4	13013.4	7797.6	2584.0
82.5°	329.5	356.8	527.3	915.9	2529.5	6129.4	6302.2	5140.8	2743.1	1095.4
85°	177.3	188.6	247.7	500.0	1236.3	2125.0	2172.7	1536.3	1093.2	643.2
87.5°	52.3	63.6	81.8	159.1	484.1	477.3	488.6	304.5	431.8	325.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956379
 CATALOG NUMBER: GALN-SB9A-750-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4352.2	0°	4352.2	4352.2	4352.2	4352.2	4352.2	4352.2	4352.2	4352.2	4352.2	4352.2
4386.3	2.5°	4372.6	4365.8	4340.8	4329.5	4315.8	4313.6	4324.9	4327.2	4329.5	4331.7
4436.3	5°	4413.6	4390.8	4368.1	4354.5	4359.0	4361.3	4384.0	4399.9	4411.3	4420.4
4529.5	7.5°	4493.1	4474.9	4436.3	4434.0	4440.8	4461.3	4490.8	4527.2	4547.6	4563.5
4649.9	10°	4611.3	4577.2	4531.7	4538.5	4552.2	4581.7	4643.1	4672.6	4706.7	4736.3
4797.6	12.5°	4731.7	4702.2	4649.9	4654.5	4677.2	4729.5	4788.5	4824.9	4847.6	4870.4
4956.7	15°	4888.5	4836.3	4779.5	4779.5	4820.4	4877.2	4904.5	4934.0	4947.6	4972.6
5127.2	17.5°	5049.9	4981.7	4906.7	4902.2	4952.2	4979.4	4995.4	4999.9	5004.4	5031.7
5293.1	20°	5211.3	5136.3	5029.4	5020.4	5031.7	5027.2	5024.9	5020.4	5027.2	5061.3
5463.5	22.5°	5370.4	5284.0	5136.3	5095.4	5063.5	5020.4	5018.1	5015.8	5020.4	5054.4
5647.6	25°	5556.7	5452.2	5254.4	5131.7	5024.9	4965.8	4972.6	4974.9	4979.4	5006.7
5838.5	27.5°	5759.0	5643.1	5363.5	5120.4	4927.2	4886.3	4874.9	4881.7	4897.6	4940.8
6029.4	30°	5961.2	5824.9	5463.5	5074.9	4804.5	4747.6	4711.3	4727.2	4777.2	4820.4
6195.3	32.5°	6145.3	6009.0	5543.1	4974.9	4647.6	4559.0	4511.3	4531.7	4581.7	4597.6
6379.4	35°	6361.2	6206.7	5577.2	4815.8	4477.2	4340.8	4277.2	4247.6	4272.6	4256.7
6595.3	37.5°	6602.1	6440.8	5572.6	4606.7	4277.2	4120.4	4031.7	3920.4	3868.1	3813.6
6913.5	40°	6959.0	6727.1	5518.1	4354.5	4029.5	3886.3	3727.2	3538.6	3420.4	3313.6
7427.1	42.5°	7445.3	7124.9	5418.1	4077.2	3749.9	3615.8	3399.9	3179.5	2993.1	2815.9
8206.7	45°	8170.3	7645.3	5293.1	3781.7	3447.7	3315.8	3081.8	2834.0	2622.7	2395.4
9313.5	47.5°	9215.7	8345.3	5174.9	3445.4	3129.5	3009.0	2797.7	2568.1	2318.1	2097.7
10913.4	50°	10652.1	9349.8	5065.8	3118.1	2815.9	2724.9	2556.8	2322.7	2070.4	1893.1
12788.4	52.5°	12479.3	10715.7	5020.4	2802.2	2522.7	2488.6	2354.5	2136.3	1897.7	1747.7
14974.7	55°	14577.0	12349.8	5020.4	2500.0	2265.9	2277.2	2184.0	1981.8	1775.0	1640.9
17229.2	57.5°	16717.9	14004.3	4929.4	2220.4	2047.7	2095.4	2036.3	1859.1	1672.7	1534.1
19599.6	60°	18690.5	15390.6	4561.3	1965.9	1854.5	1929.5	1890.9	1738.6	1511.3	1395.4
21581.4	62.5°	20206.4	16172.4	3852.2	1763.6	1695.4	1781.8	1761.3	1579.5	1481.8	1434.1
23208.6	65°	20965.5	16045.1	2945.4	1584.1	1561.3	1695.4	1652.2	1645.4	1568.2	1513.6
23738.2	67.5°	20499.6	14949.7	2136.3	1452.2	1484.1	1615.9	1781.8	1809.1	1665.9	1559.1
22247.3	70°	18456.5	12967.9	1590.9	1327.2	1386.3	1618.2	2031.8	1893.1	1634.1	1509.1
17842.8	72.5°	14040.6	9670.3	1234.1	1195.4	1259.1	1629.5	2143.1	1854.5	1543.2	1668.1
11115.7	75°	8029.4	5309.0	990.9	1034.1	1100.0	1522.7	2086.3	1754.5	1472.7	1531.8
4404.5	77.5°	3061.3	2040.9	818.2	875.0	884.1	1329.5	1995.4	1747.7	1402.2	1368.2
1320.4	80°	1061.3	797.7	677.3	695.4	684.1	1181.8	1913.6	1520.4	1147.7	1027.3
545.4	82.5°	434.1	397.7	536.4	513.6	486.4	918.2	1545.4	1243.2	938.6	829.5
263.6	85°	188.6	252.3	354.5	311.4	281.8	636.4	1238.6	1052.3	793.2	684.1
86.4	87.5°	38.6	95.5	150.0	140.9	145.5	425.0	879.5	747.7	561.4	420.4
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>
4352.2
4340.8
4424.9
4568.1
4729.5
4879.5
4981.7
5040.8
5074.9
5077.2
5043.1
4984.0
4868.1
4654.5
4306.7
3847.7
3320.4
2799.9
2368.1
2072.7
1881.8
1736.3
1627.2
1511.3
1377.2
1418.2
1495.4
1540.9
1488.6
1654.5
1531.8
1247.7
993.2
820.4
681.8
329.5
0.0

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