

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: P951690

Luminaire Tested: **GALN-SB5D-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52357 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

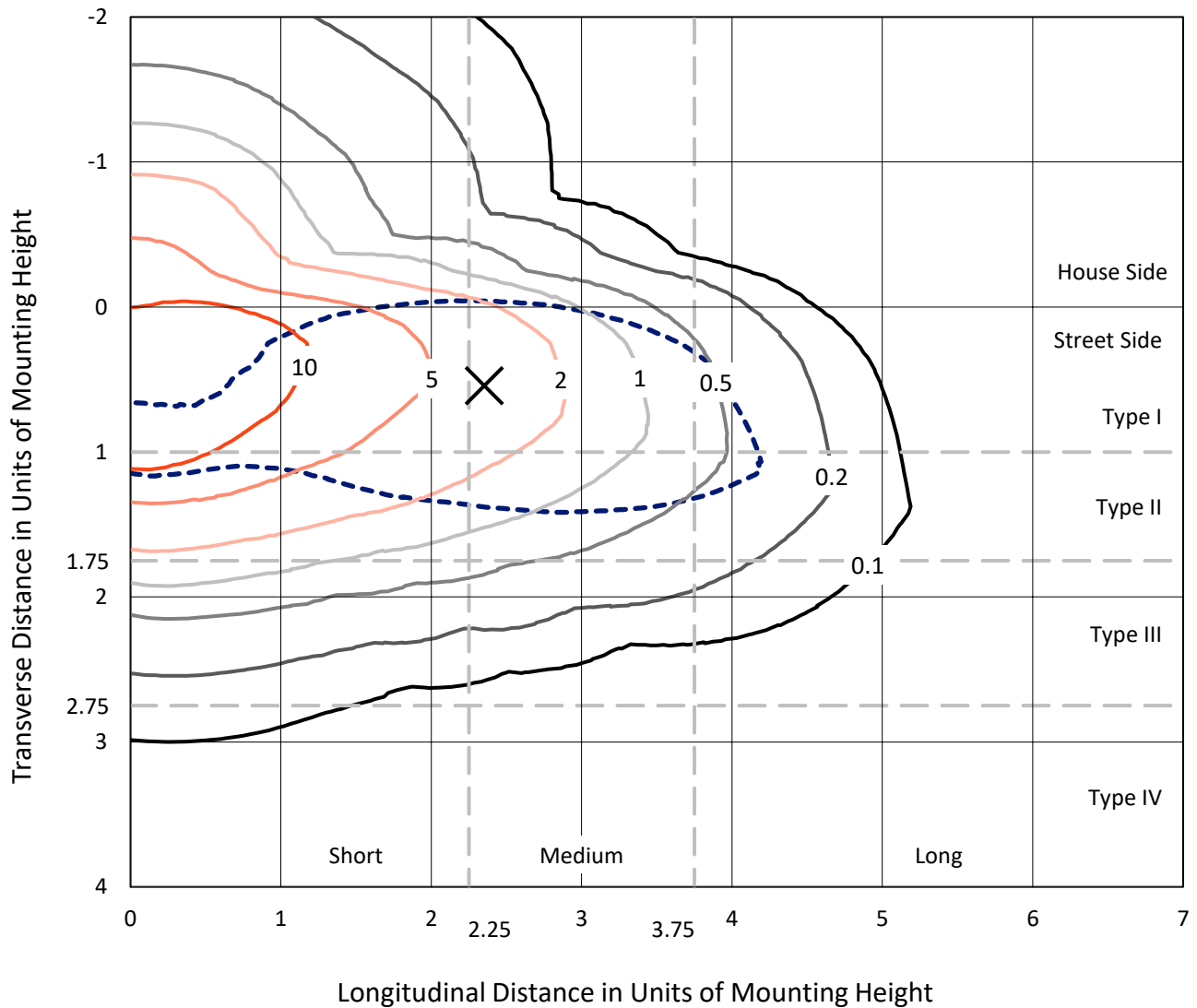
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

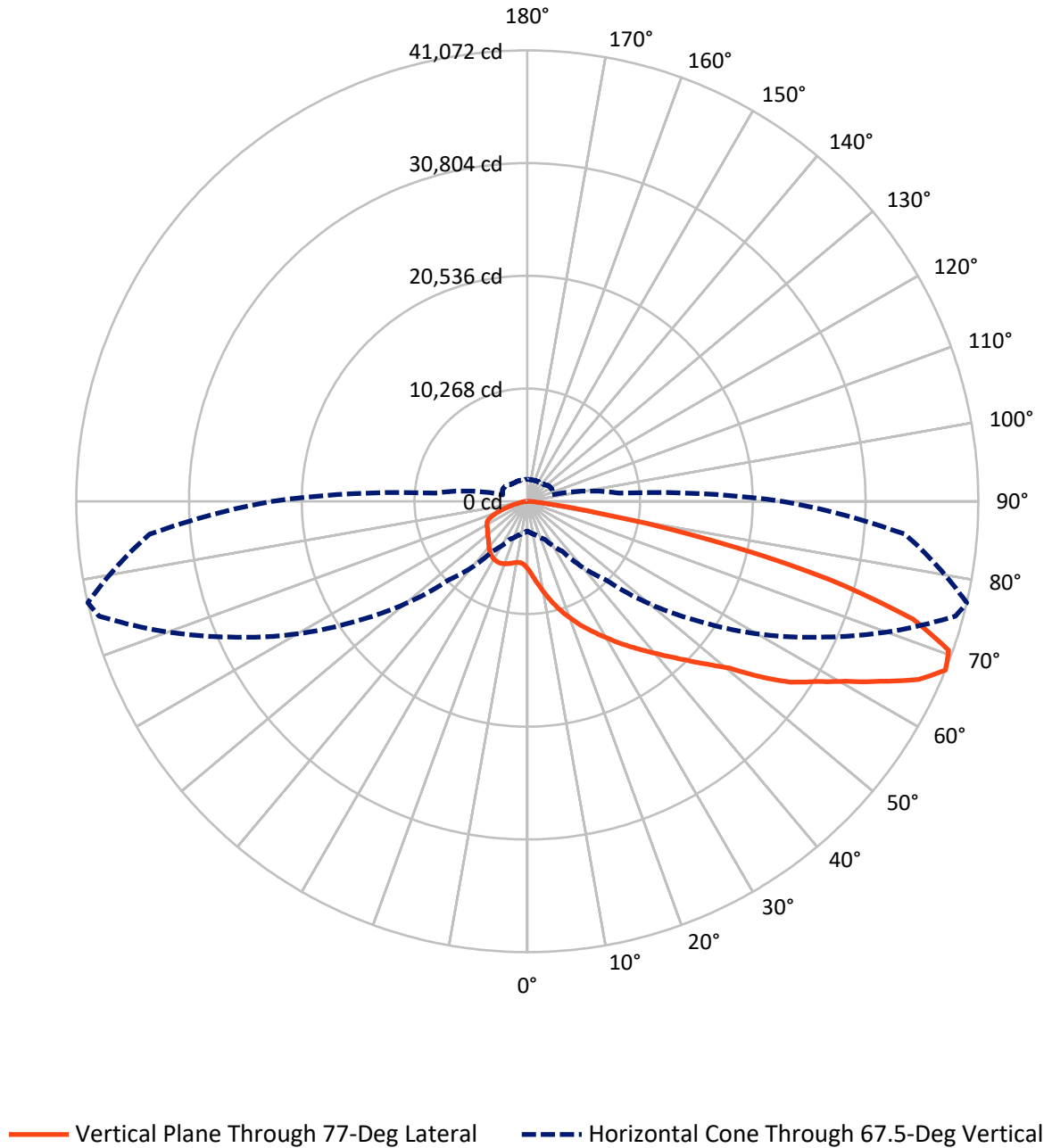
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9903.8	0.0	9903.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	42453.2	0.0	42453.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	52357.0	0.0	52357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.5	1.3
10°-20°	2365.6	4.5
20°-30°	4466.4	8.5
30°-40°	7195.4	13.7
40°-50°	9841.9	18.8
50°-60°	11101.8	21.2
60°-70°	10362.1	19.8
70°-80°	5680.2	10.8
80°-90°	685.2	1.3
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°	52357.0	100.0
0°-180°	52357.0	100.0

Coefficient of Utilization

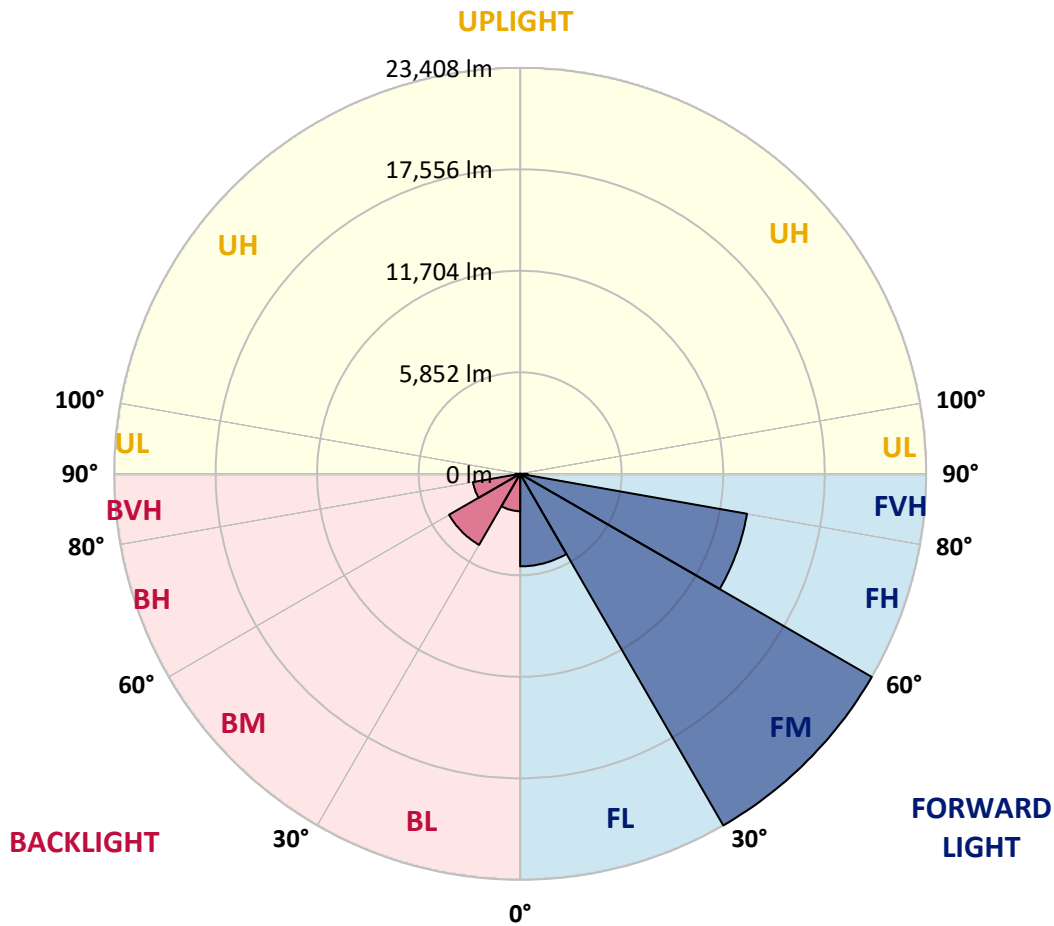


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5337.1	10.2			
FM (30°-60°)	23408.2	44.7			
FH (60°-80°)	13279.3	25.4			G5
FVH (80°-90°)	428.5	0.8			G3/500
BL (0°-30°)	2153.3	4.1	B3/2500		
BM (30°-60°)	4730.8	9.0	B3/5000		
BH (60°-80°)	2763.0	5.3	B4/5000		G4/5000
BVH (80°-90°)	256.7	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6143.1	6143.1	6143.1	6143.1	6143.1	6143.1	6143.1	6143.1	6143.1	6143.1
2.5°	7691.7	7745.8	7678.2	7678.2	7451.2	7332.3	7105.2	6932.3	6621.5	6567.4
5°	9091.7	9159.2	9064.7	9024.1	8756.6	8510.6	8129.5	7753.9	7199.8	7143.1
7.5°	10175.4	10261.9	10178.1	10134.9	9897.1	9621.4	9175.5	8651.2	7870.1	7759.3
10°	11059.2	11072.7	11045.7	11061.9	10875.4	10648.4	10191.7	9580.9	8605.2	8453.9
12.5°	11559.2	11621.4	11675.4	11772.7	11740.3	11599.7	11188.9	10459.2	9383.6	9189.0
15°	11794.3	11902.4	12024.0	12248.4	12429.4	12464.6	12151.1	11402.4	10175.4	9940.3
17.5°	11878.1	11980.8	12172.7	12497.0	12886.2	13148.3	13007.8	12318.6	10959.2	10688.9
20°	12302.4	12332.2	12448.4	12756.5	13178.1	13613.2	13718.6	13199.7	11734.9	11429.5
22.5°	13210.5	13151.1	13183.5	13324.0	13626.7	14048.3	14288.9	13978.1	12532.1	12180.8
25°	14710.5	14537.5	14364.5	14202.4	14356.4	14594.3	14867.2	14756.4	13367.3	12921.3
27.5°	16605.0	16394.2	16013.1	15480.7	15294.2	15378.0	15499.6	15478.0	14140.2	13688.9
30°	18469.8	18223.9	17769.9	16999.6	16507.7	16286.1	16194.2	16132.1	14980.7	14499.7
32.5°	19959.0	19764.4	19318.5	18456.3	17742.8	17364.5	17059.1	16837.5	15859.1	15378.0
35°	21261.7	21080.6	20569.8	19629.3	18853.6	18450.9	18050.9	17578.0	16772.6	16286.1
37.5°	22450.8	22269.8	21569.8	20591.4	19810.4	19532.0	19175.2	18372.6	17688.8	17229.3
40°	23202.2	23161.6	22507.6	21399.5	20588.7	20450.9	20332.0	19294.2	18705.0	18278.0
42.5°	23394.1	23483.2	22964.3	22053.5	21280.6	21169.8	21448.2	20337.4	19845.5	19437.4
45°	22931.9	23188.7	22848.1	22229.2	21772.5	21713.0	22437.3	21477.9	21107.6	20734.7
47.5°	21761.7	22196.8	22056.3	21969.8	21904.9	22161.7	23307.6	22688.7	22537.3	22213.0
50°	19399.6	20223.9	20469.8	21015.7	21642.7	22510.3	24099.4	24010.3	24207.6	23880.5
52.5°	15315.9	16451.0	17878.0	19245.5	20837.4	22394.1	24969.7	25907.5	26739.9	26561.6
55°	12643.0	13153.8	14251.0	16759.1	19275.2	21904.9	25361.6	27439.9	29253.4	29093.9
57.5°	10588.9	11045.7	11721.4	13815.9	16913.1	20794.1	25604.8	28375.0	30975.0	30958.8
60°	8386.3	8870.1	9561.9	11045.7	14153.7	18875.2	25550.8	29439.9	33172.2	33307.3
62.5°	5899.9	6432.3	7199.8	8583.6	11334.9	16388.8	24448.1	30210.1	35758.6	36126.2
65°	3878.3	4229.6	4808.0	6002.6	8445.8	13191.6	22342.7	30310.1	38526.1	39147.8
67.5°	2718.9	2854.0	3194.5	3843.2	5567.4	10116.0	18988.8	29275.0	40372.0	41072.0
70°	2121.6	2189.1	2362.1	2621.6	3497.2	6802.5	14551.0	26583.2	39977.5	40707.2
72.5°	1832.4	1897.3	1962.1	1994.5	2345.9	4199.9	9856.5	22226.5	36261.3	36755.9
75°	1662.1	1678.3	1732.4	1721.6	1789.1	2724.3	5689.1	16194.2	28610.2	28439.9
77.5°	1397.3	1418.9	1508.1	1494.6	1589.2	1862.1	2954.0	10451.1	18548.2	17391.5
80°	1183.8	1194.6	1291.9	1275.6	1381.0	1348.6	1508.1	5326.9	7867.4	6664.7
82.5°	410.8	508.1	986.5	1016.2	1054.0	816.2	870.3	2172.9	2402.6	1840.5
85°	200.0	213.5	502.7	713.5	710.8	410.8	424.3	775.7	756.7	594.6
87.5°	32.4	40.5	59.5	278.4	221.6	108.1	145.9	151.3	156.8	135.1
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°
6143.1	0°	6143.1	6143.1	6143.1	6143.1	6143.1	6143.1	6143.1	6143.1	6143.1	6143.1
6362.0	2.5°	6210.7	6075.5	5791.8	5529.6	5324.2	5126.9	5016.1	4921.5	4867.5	4856.6
6659.3	5°	6378.2	6099.9	5583.7	5148.5	4864.8	4653.9	4543.1	4472.9	4437.7	4416.1
7059.3	7.5°	6618.8	6210.7	5475.6	4981.0	4683.7	4532.3	4475.6	4464.8	4462.1	4464.8
7543.1	10°	6951.2	6391.7	5464.7	4940.4	4691.8	4608.0	4605.3	4608.0	4618.8	4621.5
8070.1	12.5°	7310.6	6578.2	5508.0	4975.6	4794.5	4748.5	4740.4	4737.7	4745.8	4751.2
8602.5	15°	7702.5	6824.2	5581.0	5051.2	4908.0	4859.3	4851.2	4835.0	4832.3	4829.6
9162.0	17.5°	8105.2	7067.4	5662.0	5132.3	4981.0	4913.4	4883.7	4845.8	4816.1	4808.0
9740.3	20°	8513.3	7307.9	5718.8	5172.9	4986.4	4891.8	4832.3	4767.5	4716.1	4686.4
10324.1	22.5°	8948.4	7559.3	5753.9	5162.0	4937.7	4808.0	4699.9	4624.2	4545.8	4494.5
10913.3	25°	9372.8	7778.2	5751.2	5105.3	4843.1	4678.3	4540.4	4443.1	4335.0	4281.0
11521.4	27.5°	9780.9	7975.5	5683.7	5005.3	4708.0	4524.2	4359.4	4243.1	4137.7	4086.4
12134.9	30°	10202.5	8140.4	5578.3	4859.3	4548.5	4345.8	4164.8	4064.8	3970.2	3921.5
12783.5	32.5°	10621.4	8291.7	5429.6	4678.3	4364.8	4170.2	3991.8	3899.9	3843.2	3843.2
13480.8	35°	11064.6	8397.1	5232.3	4467.5	4170.2	3983.7	3843.2	3789.1	3783.7	3751.3
14218.6	37.5°	11532.2	8464.7	4991.8	4251.3	3978.3	3802.6	3759.4	3694.5	3640.5	3570.2
15029.4	40°	12024.0	8532.2	4702.6	4026.9	3775.6	3678.3	3659.4	3572.9	3418.8	3245.9
15948.3	42.5°	12621.3	8578.2	4402.6	3802.6	3562.1	3529.6	3556.7	3408.0	3162.1	3032.4
17056.4	45°	13313.2	8653.9	4126.9	3581.0	3343.2	3343.2	3456.7	3262.1	3059.4	2978.3
18321.2	47.5°	14210.5	8829.5	3870.2	3337.8	3140.5	3194.5	3235.1	3086.4	2972.9	2872.9
19861.7	50°	15507.8	9251.1	3605.3	3091.8	2986.4	3094.5	3037.8	2951.3	2818.9	2737.8
22310.3	52.5°	17118.5	9499.8	3370.2	2870.2	2854.0	2962.1	2881.0	2799.9	2699.9	2591.8
24167.0	55°	18215.8	9545.7	3172.9	2708.0	2764.8	2754.0	2724.3	2651.3	2597.2	2454.0
25999.4	57.5°	19442.8	9637.6	3010.7	2610.8	2708.0	2589.1	2578.3	2516.2	2445.9	2348.6
28234.5	60°	20910.3	9780.9	2870.2	2572.9	2659.4	2481.0	2427.0	2402.6	2332.4	2283.7
30923.6	62.5°	22510.3	9910.6	2727.0	2578.3	2602.6	2375.6	2294.5	2286.4	2243.2	2227.0
33447.9	65°	23602.2	9556.5	2548.6	2572.9	2513.5	2267.5	2164.8	2162.1	2127.0	2121.6
34542.5	67.5°	23221.1	8434.9	2308.1	2497.2	2421.6	2159.4	2045.9	2035.1	1989.1	1991.8
33399.2	70°	21313.0	6835.0	1975.6	2310.8	2308.1	2062.1	1921.6	1886.4	1824.3	1835.1
29039.9	72.5°	17734.7	5064.7	1529.7	2000.0	2127.0	1972.9	1778.3	1721.6	1643.2	1654.0
21437.3	75°	12807.8	3443.2	1113.5	1521.6	1851.3	1867.5	1637.8	1540.5	1445.9	1462.1
11932.2	77.5°	6553.9	1951.3	818.9	1048.6	1454.0	1697.3	1510.8	1381.0	1359.4	1510.8
3440.5	80°	2137.8	978.4	567.6	735.1	954.0	1389.2	1324.3	1175.6	1170.2	1205.4
721.6	82.5°	637.8	413.5	364.9	483.8	527.0	1064.8	1143.2	889.2	764.8	805.4
240.5	85°	218.9	200.0	208.1	240.5	251.3	624.3	800.0	589.2	556.7	613.5
54.1	87.5°	51.4	70.3	59.5	54.1	54.1	151.3	310.8	245.9	340.5	227.0
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>
6143.1
4856.6
4413.4
4472.9
4624.2
4753.9
4826.9
4816.1
4697.2
4497.2
4281.0
4083.7
3918.8
3845.9
3743.2
3559.4
3221.5
3035.1
2991.8
2870.2
2729.7
2570.2
2456.7
2316.2
2297.2
2227.0
2118.9
1991.8
1845.9
1651.3
1467.5
1489.2
1035.1
832.4
605.4
218.9
0.0

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