

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: P953519

Luminaire Tested: **GALN-SB7A-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7A-750-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34203 lumens
Efficiency: N/A
Efficacy: 171.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

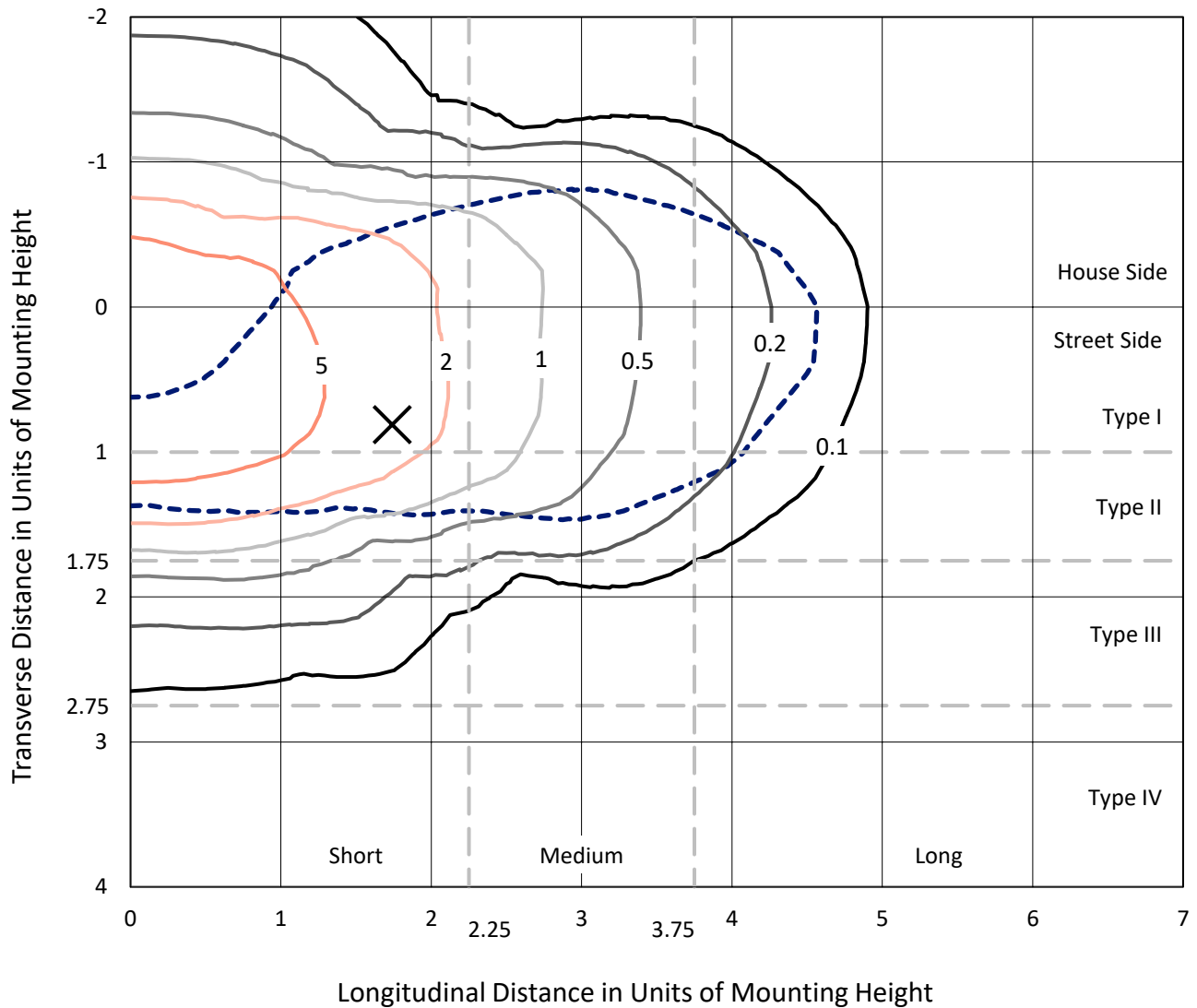
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

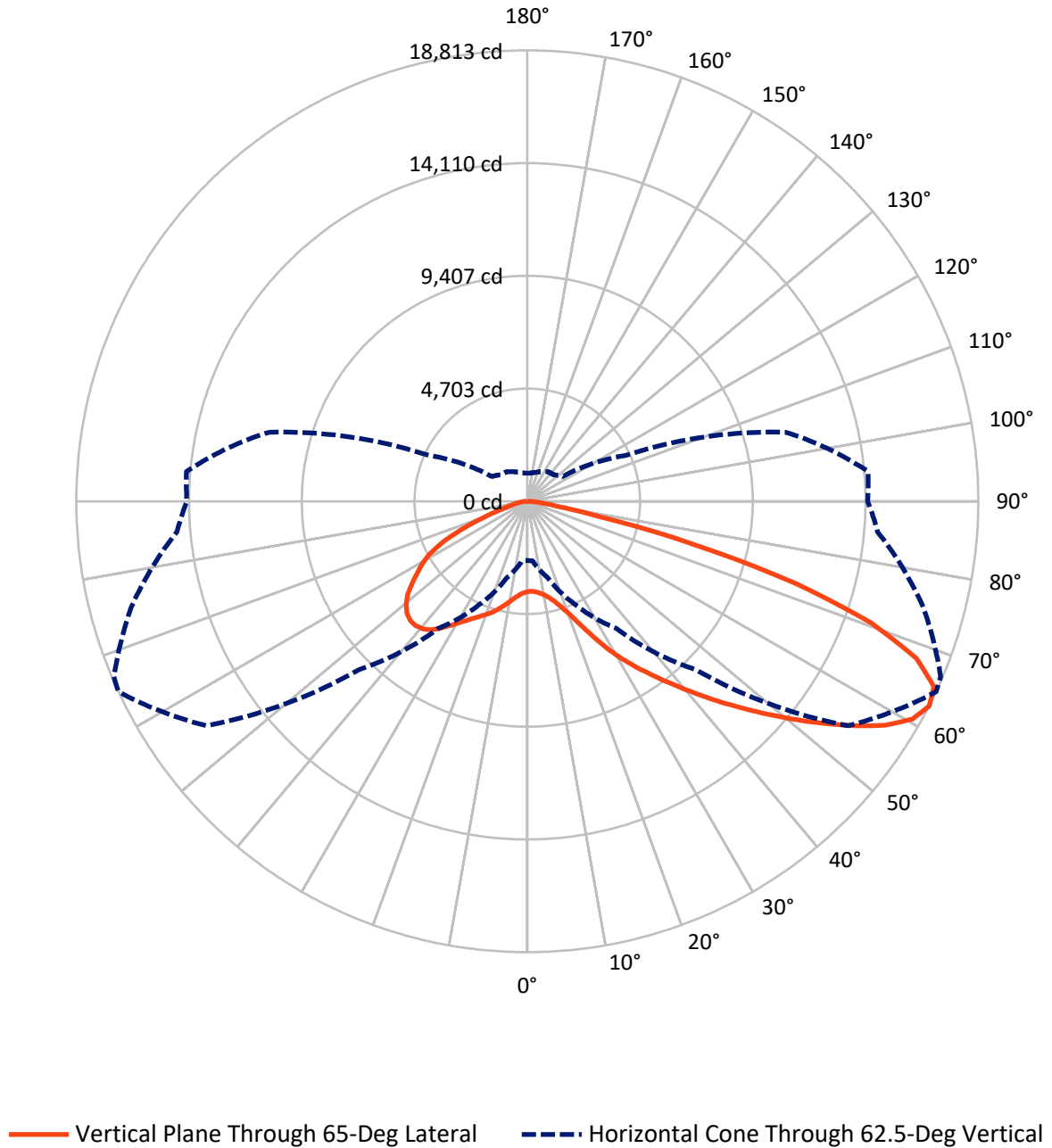
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10793.0	0.0	10793.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	23410.0	0.0	23410.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	34203.0	0.0	34203.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.8	1.1
10°-20°	1274.3	3.7
20°-30°	2583.7	7.6
30°-40°	4471.0	13.1
40°-50°	6766.1	19.8
50°-60°	7932.8	23.2
60°-70°	6650.7	19.4
70°-80°	3671.7	10.7
80°-90°	476.9	1.4
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°	34203.0	100.0
0°-180°	34203.0	100.0

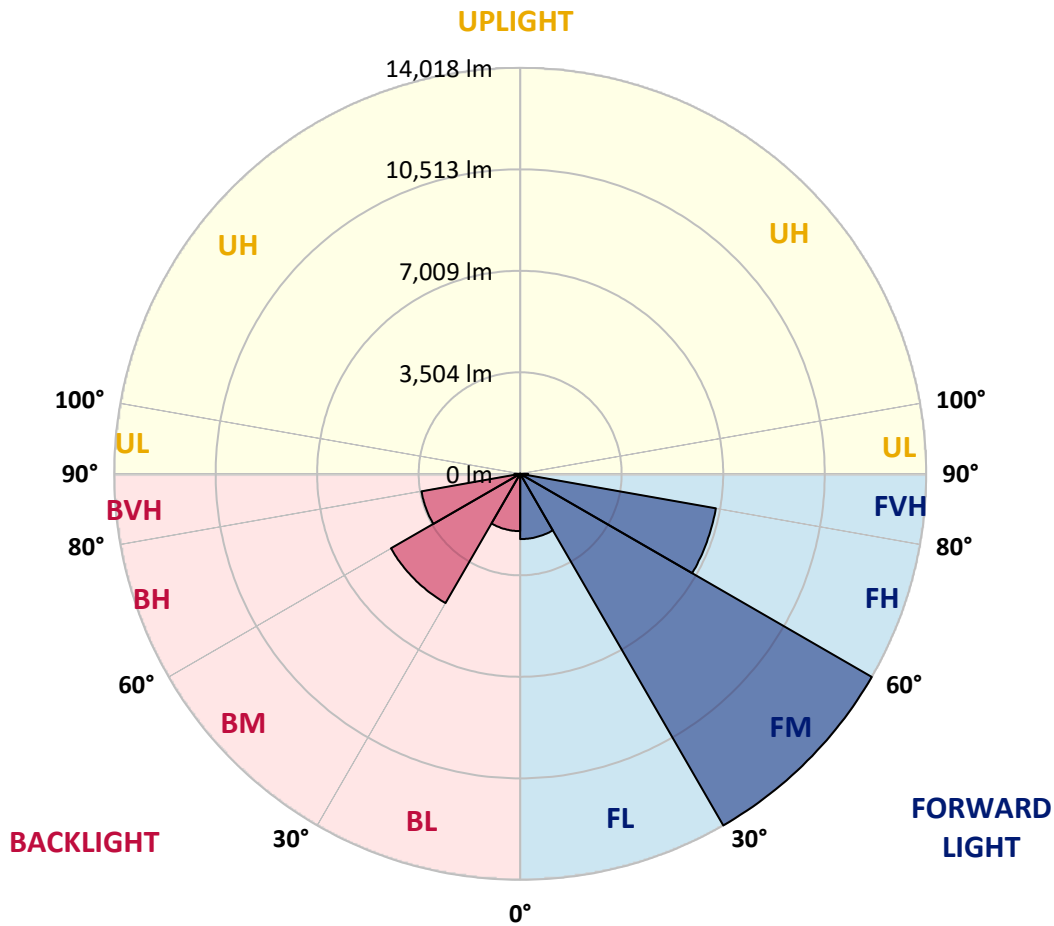


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2254.4	6.6			
FM (30°-60°)	14017.5	41.0			
FH (60°-80°)	6860.1	20.1			G3/7500
FVH (80°-90°)	278.0	0.8			G3/500
BL (0°-30°)	1979.3	5.8	B3/2500		
BM (30°-60°)	5152.4	15.1	B4/8500		
BH (60°-80°)	3462.3	10.1	B4/5000		G4/5000
BVH (80°-90°)	199.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3769.0	3769.0	3769.0	3769.0	3769.0	3769.0	3769.0	3769.0	3769.0	3769.0
2.5°	3744.2	3733.5	3742.4	3742.4	3746.0	3744.2	3756.6	3760.1	3765.5	3776.1
5°	3706.9	3705.1	3721.1	3735.3	3749.5	3761.9	3777.9	3801.0	3804.5	3816.9
7.5°	3694.5	3683.8	3708.7	3726.4	3760.1	3790.3	3832.9	3871.9	3887.9	3893.2
10°	3790.3	3772.6	3795.6	3806.3	3834.7	3864.8	3914.5	3976.6	3994.4	4015.7
12.5°	3953.6	3934.1	3967.8	3983.7	4010.4	4037.0	4070.7	4131.0	4139.9	4178.9
15°	4177.2	4154.1	4175.4	4194.9	4239.3	4264.1	4297.8	4356.4	4356.4	4386.5
17.5°	4480.6	4450.4	4466.4	4473.5	4501.9	4539.2	4595.9	4647.4	4674.0	4663.4
20°	4933.1	4895.8	4895.8	4860.3	4849.7	4879.9	4954.4	5025.4	5053.8	4998.7
22.5°	5612.7	5559.5	5529.3	5408.7	5360.7	5364.3	5438.8	5525.8	5548.8	5451.2
25°	6476.9	6393.5	6352.7	6175.2	6067.0	5972.9	6031.5	6143.3	6175.2	6054.6
27.5°	7341.1	7346.4	7307.4	7094.4	6915.2	6743.1	6712.9	6830.0	6863.7	6727.1
30°	8553.1	8427.1	8352.5	8097.0	7841.5	7600.2	7475.9	7523.8	7532.7	7369.5
32.5°	9598.2	9566.3	9406.6	9183.0	8854.7	8476.8	8269.1	8192.8	8178.6	7946.2
35°	10788.9	10771.2	10602.6	10336.4	9981.5	9456.3	9081.9	8863.6	8845.8	8519.3
37.5°	11999.1	11999.1	11834.1	11543.1	11175.8	10519.2	9949.6	9603.6	9546.8	9120.9
40°	12964.4	12905.9	12936.1	12813.6	12393.1	11695.7	10913.1	10410.9	10334.6	9823.6
42.5°	13512.8	13493.2	13674.2	13810.9	13638.8	13081.6	11974.3	11285.8	11179.3	10597.3
45°	13635.2	13613.9	13936.9	14437.3	14678.6	14449.7	13127.7	12206.7	12077.2	11406.4
47.5°	13353.1	13310.5	13784.3	14573.9	15347.6	15750.4	14376.9	13205.8	13017.7	12194.3
50°	12504.8	12464.0	13180.9	14229.7	15572.9	16634.1	15732.7	14265.1	13977.7	13039.0
52.5°	10661.2	10680.7	11803.9	13244.8	15276.6	17184.2	16900.3	15381.3	15035.3	13903.1
55°	8304.6	8347.2	9727.8	11314.2	14091.2	17100.8	17697.0	16531.2	16186.9	14715.9
57.5°	5946.3	6134.4	7428.0	8998.5	11814.6	15778.8	17870.9	17624.3	17290.7	15603.1
60°	3854.2	3887.9	5218.8	6801.6	8996.7	13429.4	17517.8	18452.9	18192.1	16508.1
62.5°	2470.1	2493.2	3304.1	4757.4	6475.1	9935.4	16328.9	18813.2	18733.3	17106.1
65°	1815.3	1797.6	2219.9	3144.4	4361.7	6127.3	14020.3	18639.3	18797.2	17480.5
67.5°	1515.4	1490.6	1698.2	2177.3	3213.6	3479.8	10373.7	17508.9	18087.4	17437.9
70°	1380.6	1359.3	1485.3	1616.6	2507.4	2329.9	5229.4	15221.6	16112.4	16953.5
72.5°	1169.4	1132.1	1304.3	1435.6	1950.2	1786.9	2161.3	11692.1	12778.1	15400.8
75°	906.8	881.9	1029.2	1263.4	1465.7	1394.8	1366.4	7099.7	8285.1	11910.4
77.5°	718.7	685.0	819.8	984.8	1318.4	1052.3	995.5	3057.5	4232.2	7603.7
80°	541.2	511.1	622.8	779.0	1013.2	793.2	644.1	1247.5	1595.3	3852.4
82.5°	385.1	358.4	434.8	571.4	681.4	711.6	395.7	699.2	786.1	1485.3
85°	246.7	230.7	291.0	358.4	433.0	457.8	241.3	365.5	401.0	612.2
87.5°	134.9	110.0	156.2	166.8	200.5	182.8	115.3	133.1	143.7	221.8
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°
3769.0	0°	3769.0	3769.0	3769.0	3769.0	3769.0	3769.0	3769.0	3769.0	3769.0	3769.0
3776.1	2.5°	3783.2	3788.5	3806.3	3811.6	3824.0	3840.0	3850.6	3861.3	3861.3	3871.9
3832.9	5°	3834.7	3847.1	3884.4	3903.9	3935.8	3967.8	3987.3	4010.4	4024.5	4031.6
3923.4	7.5°	3934.1	3953.6	4006.8	4040.5	4095.5	4139.9	4170.1	4202.0	4209.1	4228.6
4049.4	10°	4068.9	4092.0	4152.3	4216.2	4281.9	4336.9	4365.3	4388.3	4397.2	4400.7
4210.9	12.5°	4223.3	4257.0	4335.1	4413.2	4482.4	4530.3	4537.4	4532.1	4507.2	4485.9
4409.6	15°	4413.2	4443.3	4530.3	4615.5	4682.9	4691.8	4647.4	4619.0	4588.8	4583.5
4631.4	17.5°	4640.3	4656.3	4736.1	4819.5	4824.8	4794.7	4729.0	4702.4	4674.0	4654.5
4920.7	20°	4904.7	4899.4	4956.2	4991.6	4954.4	4862.1	4762.7	4718.4	4690.0	4666.9
5275.6	22.5°	5220.6	5179.7	5172.6	5163.8	5064.4	4871.0	4736.1	4679.3	4635.0	4603.0
5770.6	25°	5680.2	5524.0	5415.8	5355.4	5131.8	4823.1	4650.9	4525.0	4441.6	4386.5
6375.8	27.5°	6255.1	5992.5	5719.2	5571.9	5131.8	4725.5	4445.1	4241.0	4104.4	4047.6
6961.3	30°	6803.4	6528.4	6125.5	5832.8	5119.4	4565.8	4113.3	3829.4	3669.7	3612.9
7461.7	32.5°	7271.9	6972.0	6556.8	6118.5	5089.2	4306.7	3701.6	3387.5	3233.1	3165.7
7956.8	35°	7706.6	7387.2	6989.7	6432.5	5009.4	3927.0	3249.1	3009.5	2837.4	2729.2
8460.8	37.5°	8152.0	7772.3	7399.6	6716.5	4865.7	3483.3	2901.3	2697.2	2494.9	2349.4
8996.7	40°	8636.5	8182.2	7837.9	6885.0	4629.7	3061.0	2631.6	2445.3	2230.5	2076.2
9614.2	42.5°	9202.5	8673.7	8325.9	6972.0	4306.7	2761.1	2455.9	2273.1	2070.8	1944.8
10276.1	45°	9793.4	9214.9	8771.3	6970.2	3946.5	2620.9	2399.1	2218.1	1994.5	1863.2
10955.7	47.5°	10412.7	9781.0	9156.4	6856.6	3634.2	2640.4	2367.2	2099.2	1852.6	1724.8
11642.4	50°	11033.8	10400.3	9529.0	6643.7	3501.1	2597.9	2248.3	1932.4	1641.4	1526.1
12286.6	52.5°	11649.5	11058.6	9850.2	6340.3	3366.2	2439.9	2095.7	1715.9	1554.5	1474.6
12952.0	55°	12268.8	11709.9	10199.8	5898.4	3029.1	2255.4	1840.1	1634.3	1485.3	1412.5
13603.3	57.5°	12889.9	12462.3	10531.6	5456.6	2605.0	2028.2	1700.0	1534.9	1416.0	1353.9
14148.0	60°	13535.8	13322.9	10874.1	5050.2	2186.2	1737.2	1597.0	1455.1	1334.4	1265.2
14671.5	62.5°	14201.3	14270.5	11142.0	4526.7	1801.1	1559.8	1504.8	1359.3	1242.1	1176.5
15104.5	65°	14872.0	15184.3	11317.7	3801.0	1460.4	1391.2	1405.4	1254.6	1135.7	1078.9
15422.1	67.5°	15377.8	15842.7	11268.0	2876.5	1197.8	1231.5	1281.2	1144.5	1032.8	988.4
15370.7	70°	15434.5	15764.6	10778.3	1969.7	1002.6	1075.3	1142.8	1036.3	921.0	889.0
14646.7	72.5°	14678.6	14699.9	9413.7	1286.5	848.2	944.0	997.3	926.3	814.5	782.6
12813.6	75°	12696.5	12157.0	6911.6	848.2	709.8	810.9	860.6	810.9	702.7	709.8
9587.6	77.5°	9619.5	8609.8	4196.7	603.3	592.7	681.4	748.8	713.3	621.1	697.4
4821.3	80°	4956.2	4658.0	1872.1	450.7	468.5	544.8	615.7	569.6	491.5	468.5
1077.1	82.5°	1135.7	1320.2	738.2	323.0	338.9	392.2	470.2	427.7	353.1	298.1
448.9	85°	397.5	434.8	326.5	202.3	198.7	244.9	319.4	285.7	239.6	191.6
189.9	87.5°	126.0	165.0	122.4	81.6	85.2	110.0	147.3	134.9	111.8	72.8
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>
3769.0
3871.9
4035.2
4221.5
4391.9
4485.9
4583.5
4656.3
4668.7
4613.7
4407.8
4076.0
3646.6
3199.4
2764.7
2388.5
2106.3
1969.7
1884.5
1742.6
1533.2
1474.6
1405.4
1343.3
1259.9
1174.7
1077.1
990.2
890.8
780.8
685.0
614.0
427.7
294.6
202.3
76.3
0.0

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