

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: P944487

Luminaire Tested: **GALN-SB9B-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35704 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

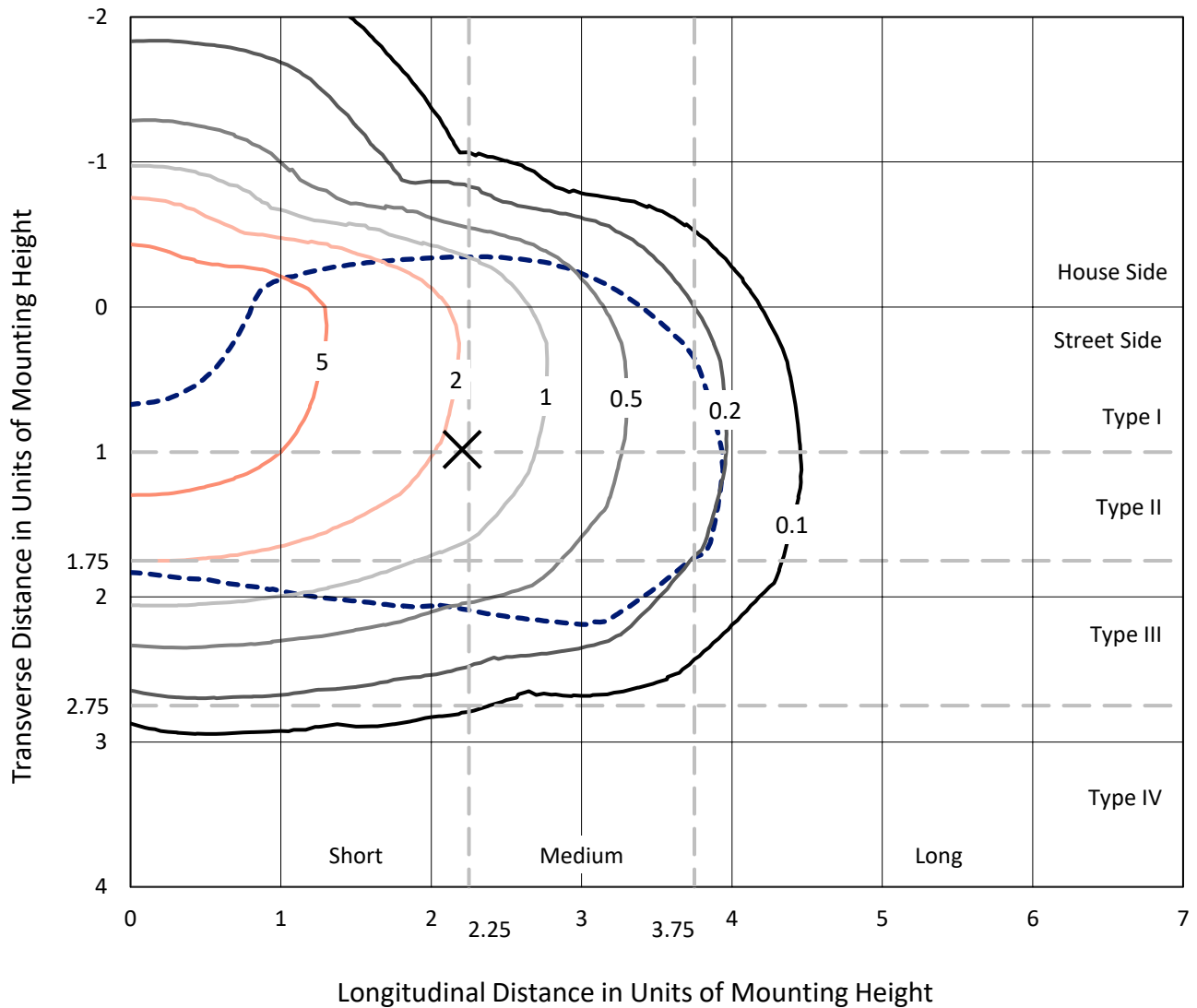
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

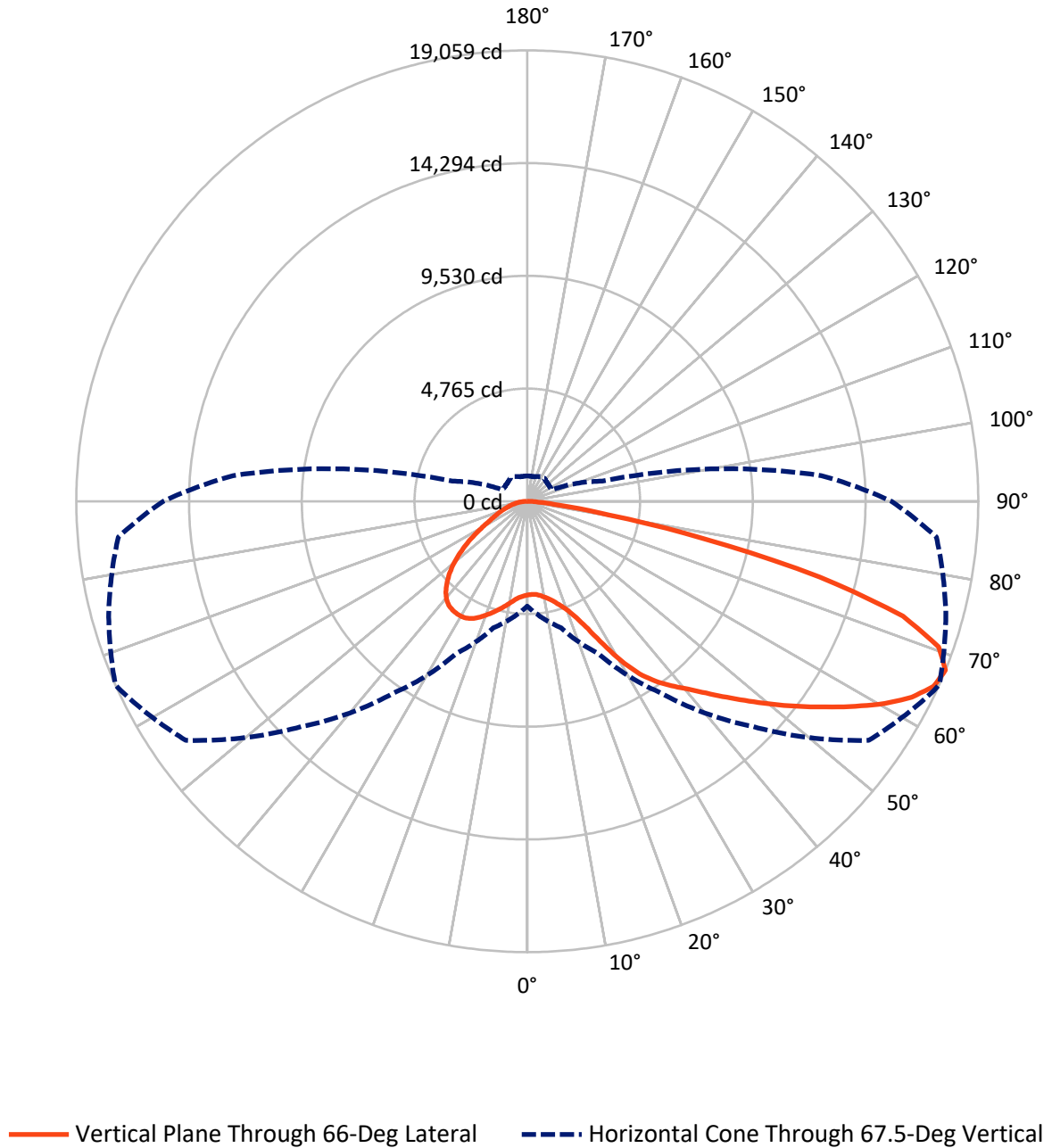
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8877.7	0.0	8877.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	26826.3	0.0	26826.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	35704.0	0.0	35704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.6	1.1
10°-20°	1297.2	3.6
20°-30°	2500.2	7.0
30°-40°	4383.8	12.3
40°-50°	6517.3	18.3
50°-60°	8261.3	23.1
60°-70°	8083.5	22.6
70°-80°	3855.9	10.8
80°-90°	412.1	1.2
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°	35704.0	100.0
0°-180°	35704.0	100.0

Coefficient of Utilization



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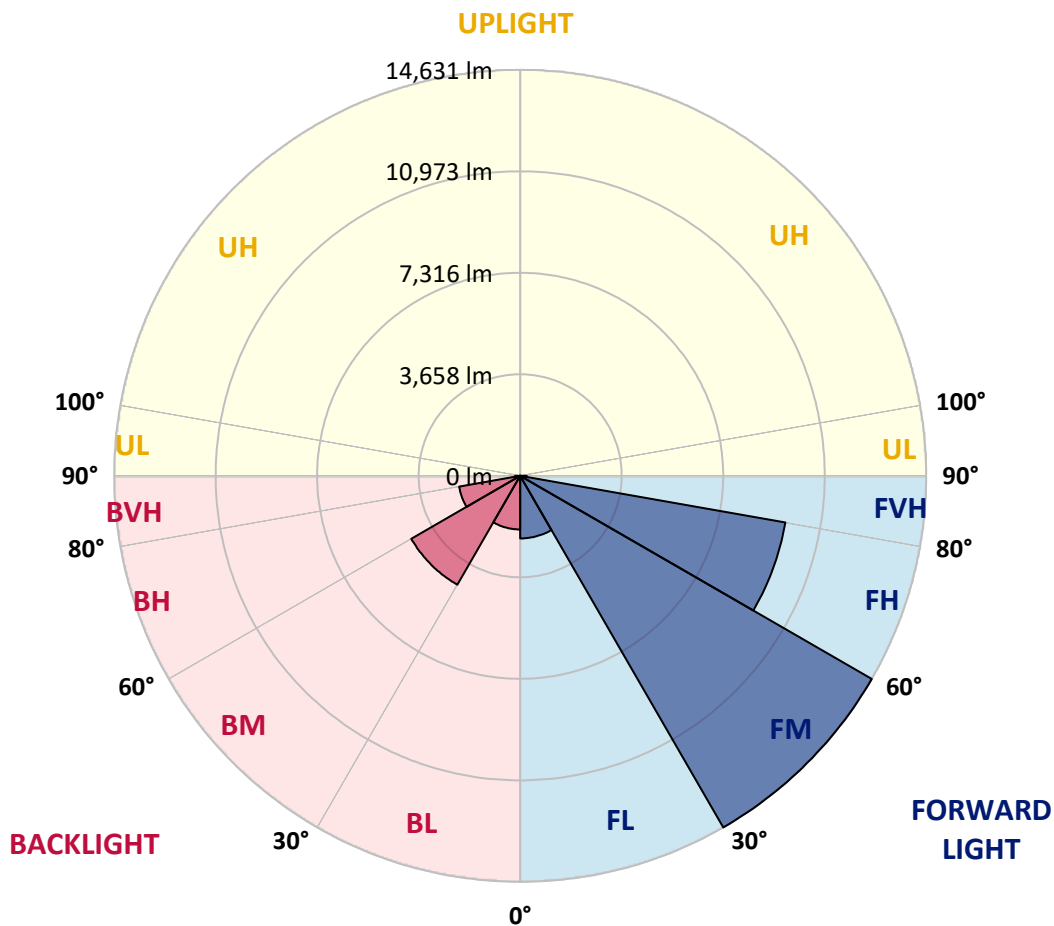
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2256.1	6.3			
FM (30°-60°)	14631.2	41.0			
FH (60°-80°)	9705.3	27.2			G4/12000
FVH (80°-90°)	233.6	0.7			G3/500
BL (0°-30°)	1933.9	5.4	B3/2500		
BM (30°-60°)	4531.3	12.7	B3/5000		
BH (60°-80°)	2234.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	178.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3960.0	3960.0	3960.0	3960.0	3960.0	3960.0	3960.0	3960.0	3960.0	3960.0
2.5°	3918.8	3941.3	3935.7	3926.3	3924.4	3928.2	3933.8	3939.4	3937.5	3946.9
5°	3907.5	3930.0	3928.2	3928.2	3935.7	3950.7	3960.0	3969.4	3960.0	3971.3
7.5°	3915.0	3931.9	3939.4	3946.9	3965.7	3993.8	4016.3	4037.0	4025.7	4038.8
10°	4010.7	4023.8	4031.3	4031.3	4044.5	4076.4	4098.9	4136.4	4127.0	4147.6
12.5°	4185.2	4198.3	4198.3	4190.8	4200.2	4220.8	4228.3	4269.6	4252.7	4286.5
15°	4399.0	4425.3	4404.6	4391.5	4395.3	4415.9	4414.0	4445.9	4429.0	4457.2
17.5°	4635.4	4669.1	4635.4	4633.5	4626.0	4648.5	4650.4	4678.5	4648.5	4669.1
20°	4914.9	4961.8	4933.6	4943.0	4926.1	4935.5	4944.9	4986.2	4939.3	4954.3
22.5°	5308.8	5365.1	5335.1	5370.7	5359.5	5352.0	5350.1	5423.3	5350.1	5355.7
25°	5882.9	5950.4	5897.9	5946.6	5946.6	5971.0	5999.2	6093.0	5971.0	5935.4
27.5°	6730.8	6798.3	6695.1	6725.1	6715.8	6775.8	6745.8	6978.4	6847.1	6788.9
30°	7751.3	7871.3	7676.2	7668.7	7659.3	7755.0	7798.2	7952.0	7818.8	7760.6
32.5°	8854.3	8980.0	8747.4	8679.8	8644.2	8702.3	8666.7	8790.5	8698.6	8608.5
35°	10021.1	10144.9	9923.6	9792.2	9649.7	9527.7	9400.2	9432.1	9345.8	9208.8
37.5°	11124.1	11351.1	11116.6	10975.9	10713.3	10475.1	10118.7	9970.5	9889.8	9764.1
40°	12247.8	12377.3	12199.0	12079.0	11793.8	11420.5	10850.3	10537.0	10428.2	10306.2
42.5°	13075.1	13198.9	13103.2	13020.7	12797.5	12364.1	11626.9	11234.8	11077.2	10940.3
45°	13731.7	13823.6	13763.5	13793.6	13697.9	13277.7	12431.7	11983.3	11820.1	11653.2
47.5°	13996.2	14093.7	14189.4	14367.6	14530.8	14221.3	13296.4	12793.7	12621.1	12450.4
50°	13966.1	14065.6	14343.2	14722.1	15228.6	15125.5	14208.1	13656.6	13497.2	13302.1
52.5°	13726.0	13838.6	14195.0	14825.3	15632.0	15802.7	15136.7	14547.7	14397.6	14165.0
55°	13095.7	13163.3	13697.9	14590.8	15727.6	16275.4	16046.5	15496.9	15346.8	15022.3
57.5°	11927.0	12024.6	12803.1	13958.6	15487.5	16596.2	16845.7	16494.9	16350.4	15883.3
60°	10401.9	10557.6	11448.7	12896.9	14876.0	16594.3	17571.6	17476.0	17355.9	16731.2
62.5°	8676.1	8856.2	9713.5	11396.2	13806.7	16123.4	18025.6	18297.6	18235.7	17513.5
65°	6663.2	6787.0	7640.6	9454.6	12142.8	15112.3	18078.1	18858.5	18869.8	18108.2
67.5°	4436.5	4792.9	5533.9	7094.7	9914.2	13459.7	17616.7	18950.4	19059.2	18312.6
70°	2164.8	2633.8	3359.8	4611.0	7094.7	10925.3	16410.5	18196.3	18438.3	17716.1
72.5°	898.6	1050.5	1446.3	2275.5	4072.6	7372.3	13986.8	16151.6	16599.9	15697.6
75°	605.9	656.6	827.3	1166.8	1855.3	3635.5	10086.8	12043.3	12765.6	11855.7
77.5°	467.1	499.0	602.2	816.0	1103.0	1375.0	5398.9	7257.9	7631.2	7064.7
80°	367.7	392.1	450.2	594.7	782.3	735.4	1840.3	3288.5	3504.2	2939.6
82.5°	318.9	328.3	322.7	403.3	519.6	429.6	604.0	1213.7	1339.4	971.7
85°	230.7	257.0	268.3	249.5	275.8	217.6	247.6	429.6	472.7	422.1
87.5°	93.8	138.8	170.7	161.3	101.3	61.9	76.9	125.7	144.4	157.6
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°
3960.0	0°	3960.0	3960.0	3960.0	3960.0	3960.0	3960.0	3960.0	3960.0	3960.0	3960.0
3961.9	2.5°	3963.8	3976.9	3986.3	3997.6	4005.1	4016.3	4038.8	4052.0	4053.8	4063.2
3991.9	5°	3999.4	4018.2	4038.8	4068.8	4102.6	4130.8	4173.9	4203.9	4215.2	4224.5
4065.1	7.5°	4076.4	4102.6	4140.1	4192.7	4241.4	4279.0	4331.5	4367.1	4402.8	4415.9
4181.4	10°	4190.8	4228.3	4282.7	4354.0	4406.5	4455.3	4509.7	4539.7	4575.3	4590.4
4320.2	12.5°	4333.4	4372.7	4444.0	4543.5	4592.2	4626.0	4644.8	4637.2	4644.8	4657.9
4487.2	15°	4496.6	4539.7	4620.4	4727.3	4761.1	4731.0	4689.8	4652.3	4646.6	4650.4
4689.8	17.5°	4689.8	4721.7	4815.5	4905.5	4881.1	4757.3	4667.3	4607.2	4577.2	4567.8
4948.6	20°	4959.9	4959.9	5036.8	5093.1	4929.9	4719.8	4579.1	4481.5	4419.6	4393.4
5301.3	22.5°	5288.2	5258.2	5306.9	5267.6	4920.5	4614.7	4419.6	4250.8	4157.0	4119.5
5794.7	25°	5704.6	5669.0	5655.9	5412.0	4853.0	4447.8	4130.8	3926.3	3843.7	3823.1
6505.7	27.5°	6333.1	6243.0	6072.3	5490.8	4729.2	4185.2	3793.1	3603.6	3556.7	3558.6
7419.2	30°	7169.7	6989.6	6571.3	5503.9	4526.6	3813.7	3447.9	3312.9	3290.3	3299.7
8186.5	32.5°	7944.5	7773.8	7081.6	5443.9	4215.2	3449.8	3138.4	3048.4	3014.6	3025.8
8771.8	35°	8552.3	8505.4	7554.3	5359.5	3832.5	3108.4	2860.8	2783.9	2718.2	2703.2
9323.3	37.5°	9126.3	9107.5	7908.8	5241.3	3453.5	2866.4	2637.5	2536.2	2440.6	2388.0
9932.9	40°	9756.6	9737.8	8141.4	5059.3	3117.8	2656.3	2436.8	2303.6	2185.4	2089.8
10623.3	42.5°	10465.7	10355.0	8252.1	4798.6	2832.6	2478.1	2273.6	2093.5	1937.8	1849.6
11403.7	45°	11240.5	10991.0	8250.3	4466.5	2592.5	2314.9	2099.1	1844.0	1699.6	1617.0
12204.7	47.5°	12062.1	11598.7	8149.0	4098.9	2359.9	2134.8	1829.0	1633.9	1538.2	1487.6
13075.1	50°	12910.0	12167.2	7976.4	3676.8	2121.7	1930.3	1660.2	1527.0	1453.8	1406.9
13938.0	52.5°	13707.3	12683.0	7768.1	3198.4	1879.7	1731.5	1585.1	1482.0	1405.1	1352.5
14774.7	55°	14448.3	13127.6	7473.6	2708.8	1682.7	1598.3	1549.5	1463.2	1375.0	1313.1
15624.5	57.5°	15106.7	13416.5	6965.3	2249.2	1542.0	1506.4	1512.0	1431.3	1330.0	1277.5
16461.1	60°	15654.5	13628.5	6213.0	1823.4	1427.6	1416.3	1453.8	1371.3	1253.1	1193.1
17168.3	62.5°	15982.8	13624.7	5290.1	1493.2	1330.0	1333.8	1376.9	1296.3	1176.2	1119.9
17537.9	65°	15954.6	13290.8	4277.1	1277.5	1236.2	1240.0	1296.3	1213.7	1112.4	1078.6
17352.2	67.5°	15390.0	12476.7	3281.0	1136.8	1133.0	1149.9	1215.6	1157.4	1073.0	1069.3
16245.4	70°	13861.1	10786.5	2363.6	1024.2	1026.1	1050.5	1136.8	1121.8	1052.4	1059.9
13658.5	72.5°	11114.8	8224.0	1587.0	906.1	907.9	947.3	1061.8	1093.7	1031.8	1131.2
9690.9	75°	7402.3	5128.7	1020.5	780.4	782.3	832.9	996.1	1039.3	975.5	1127.4
5042.4	77.5°	3556.7	2305.5	739.1	656.6	656.6	703.5	861.0	930.5	831.0	876.0
1620.8	80°	1228.7	866.7	581.5	529.0	517.8	549.6	726.0	806.6	716.6	660.3
529.0	82.5°	484.0	450.2	467.1	410.8	373.3	393.9	564.6	665.9	527.1	476.5
298.3	85°	277.6	292.6	330.2	272.0	215.7	242.0	414.6	478.4	397.7	350.8
97.5	87.5°	75.0	103.2	151.9	140.7	97.5	103.2	197.0	264.5	228.9	176.3
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>
3960.0
4061.3
4222.7
4417.8
4597.9
4661.6
4663.5
4581.0
4387.8
4113.9
3826.9
3564.2
3331.6
3040.8
2714.4
2389.9
2099.1
1855.3
1613.3
1476.3
1390.0
1330.0
1288.7
1243.7
1166.8
1103.0
1076.8
1074.9
1058.0
1146.2
1136.8
802.9
619.1
474.6
358.3
182.0
0.0

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