

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: P942097

Luminaire Tested: **GALN-SB5D-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942097
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-SB5D-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37274 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

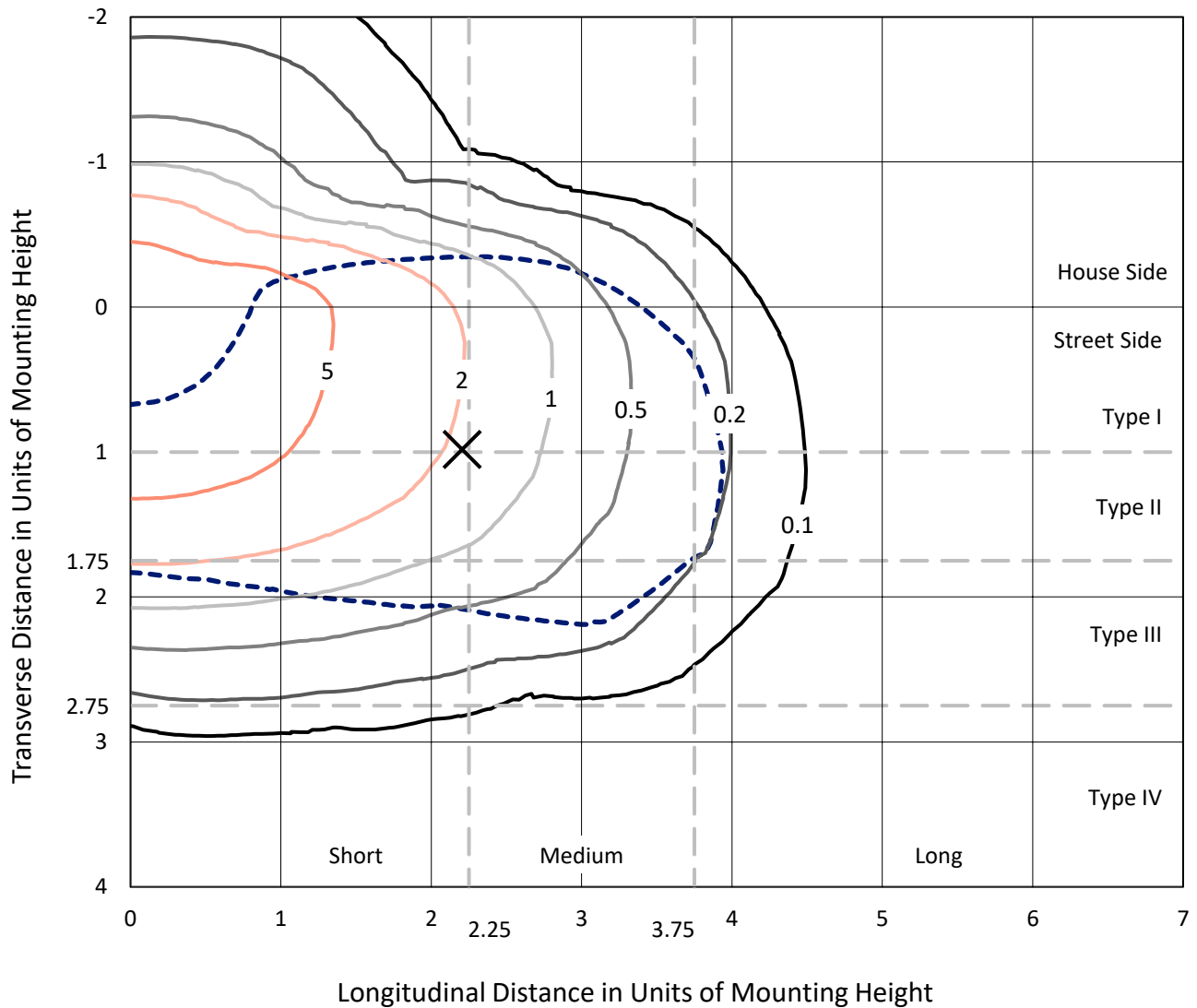
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

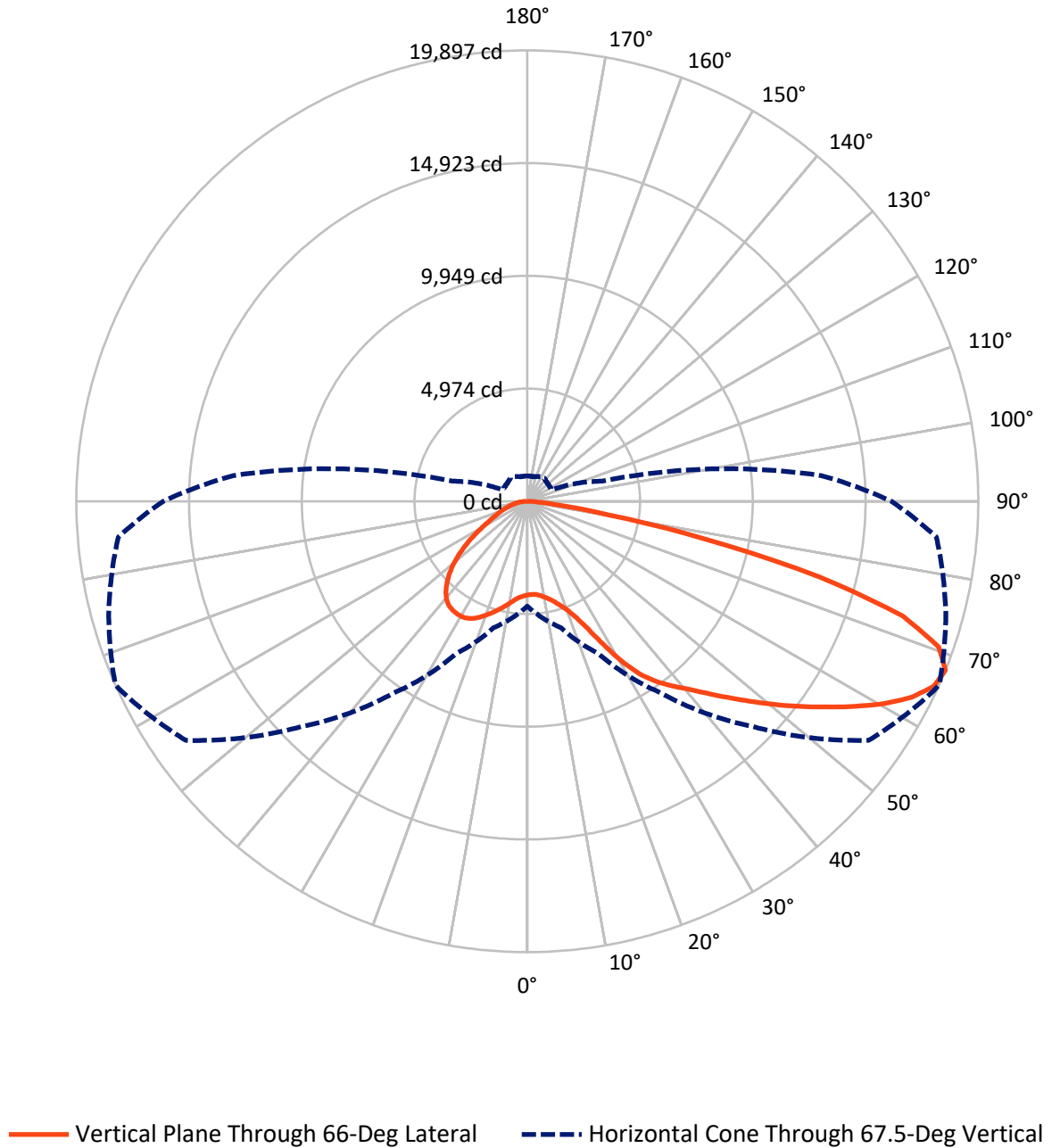
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	9268.1	0.0	9268.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	28005.9	0.0	28005.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	37274.0	0.0	37274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.9	1.1
10°-20°	1354.2	3.6
20°-30°	2610.2	7.0
30°-40°	4576.6	12.3
40°-50°	6803.9	18.3
50°-60°	8624.6	23.1
60°-70°	8439.0	22.6
70°-80°	4025.5	10.8
80°-90°	430.2	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°	37274.0	100.0
0°-180°	37274.0	100.0

Coefficient of Utilization



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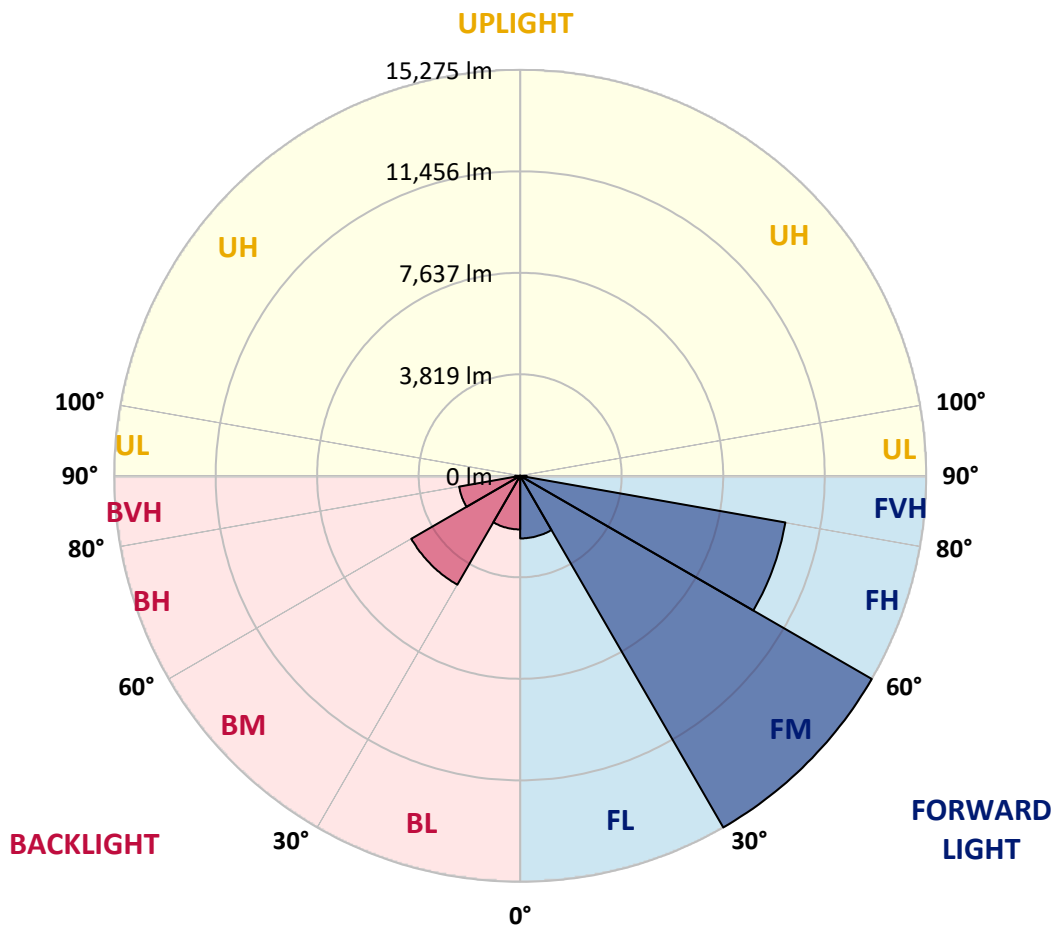
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2355.3	6.3			
FM (30°-60°)	15274.6	41.0			
FH (60°-80°)	10132.1	27.2			G4/12000
FVH (80°-90°)	243.9	0.7			G3/500
BL (0°-30°)	2018.9	5.4	B3/2500		
BM (30°-60°)	4730.5	12.7	B3/5000		
BH (60°-80°)	2332.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	186.3	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°	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2
2.5°	4091.1	4114.6	4108.7	4098.9	4097.0	4100.9	4106.8	4112.6	4110.7	4120.5
5°	4079.3	4102.8	4100.9	4100.9	4108.7	4124.4	4134.2	4144.0	4134.2	4145.9
7.5°	4087.2	4104.8	4112.6	4120.5	4140.1	4169.4	4192.9	4214.5	4202.7	4216.4
10°	4187.1	4200.8	4208.6	4208.6	4222.3	4255.6	4279.1	4318.3	4308.5	4330.0
12.5°	4369.2	4382.9	4382.9	4375.1	4384.9	4406.4	4414.2	4457.3	4439.7	4474.9
15°	4592.4	4619.9	4598.3	4584.6	4588.5	4610.1	4608.1	4641.4	4623.8	4653.2
17.5°	4839.2	4874.5	4839.2	4837.2	4829.4	4852.9	4854.9	4884.2	4852.9	4874.5
20°	5131.0	5180.0	5150.6	5160.4	5142.8	5152.5	5162.3	5205.4	5156.5	5172.1
22.5°	5542.3	5601.0	5569.7	5606.9	5595.1	5587.3	5585.4	5661.7	5585.4	5591.2
25°	6141.5	6212.0	6157.2	6208.1	6208.1	6233.6	6263.0	6360.9	6233.6	6196.4
27.5°	7026.7	7097.2	6989.5	7020.9	7011.1	7073.7	7042.4	7285.2	7148.2	7087.4
30°	8092.1	8217.4	8013.8	8005.9	7996.1	8096.0	8141.1	8301.7	8162.6	8101.9
32.5°	9243.6	9374.9	9132.0	9061.5	9024.3	9085.0	9047.8	9177.1	9081.1	8987.1
35°	10461.8	10591.0	10359.9	10222.8	10074.0	9946.7	9813.5	9846.8	9756.7	9613.8
37.5°	11613.3	11850.3	11605.5	11458.6	11184.4	10935.7	10563.6	10408.9	10324.7	10193.5
40°	12786.4	12921.5	12735.5	12610.1	12312.5	11922.7	11327.4	11000.3	10886.7	10759.4
42.5°	13650.0	13779.3	13679.4	13593.2	13360.2	12907.8	12138.2	11728.8	11564.3	11421.4
45°	14335.5	14431.4	14368.8	14400.1	14300.2	13861.5	12978.3	12510.2	12339.9	12165.6
47.5°	14611.6	14713.4	14813.3	14999.4	15169.8	14846.6	13881.1	13356.3	13176.1	12997.9
50°	14580.3	14684.1	14973.9	15369.5	15898.3	15790.6	14832.9	14257.1	14090.7	13887.0
52.5°	14329.6	14447.1	14819.2	15477.2	16319.3	16497.5	15802.3	15187.4	15030.7	14787.9
55°	13671.6	13742.1	14300.2	15232.4	16419.2	16991.1	16752.1	16178.3	16021.7	15682.9
57.5°	12451.5	12553.3	13366.1	14572.4	16168.5	17326.0	17586.4	17220.2	17069.4	16581.8
60°	10859.3	11021.9	11952.1	13464.0	15530.1	17324.0	18344.3	18244.4	18119.1	17467.0
62.5°	9057.6	9245.6	10140.6	11897.3	14413.8	16832.4	18818.3	19102.2	19037.6	18283.6
65°	6956.2	7085.5	7976.6	9870.3	12676.7	15776.9	18873.1	19687.8	19699.5	18904.4
67.5°	4631.6	5003.7	5777.3	7406.7	10350.1	14051.5	18391.3	19783.7	19897.3	19117.9
70°	2260.0	2749.6	3507.5	4813.7	7406.7	11405.7	17132.1	18996.5	19249.1	18495.1
72.5°	938.1	1096.7	1509.9	2375.5	4251.7	7696.5	14601.8	16861.8	17329.9	16387.9
75°	632.6	685.4	863.7	1218.1	1936.9	3795.4	10530.3	12572.9	13326.9	12377.1
77.5°	487.6	520.9	628.6	851.9	1151.5	1435.5	5636.3	7577.0	7966.8	7375.3
80°	383.8	409.3	470.0	620.8	816.7	767.7	1921.2	3433.1	3658.3	3068.8
82.5°	332.9	342.7	336.8	421.1	542.5	448.5	630.6	1267.1	1398.3	1014.5
85°	240.9	268.3	280.1	260.5	287.9	227.2	258.5	448.5	493.5	440.6
87.5°	97.9	144.9	178.2	168.4	105.8	64.6	80.3	131.2	150.8	164.5
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°
4134.2	0°	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2	4134.2
4136.1	2.5°	4138.1	4151.8	4161.6	4173.3	4181.2	4192.9	4216.4	4230.1	4232.1	4241.9
4167.5	5°	4175.3	4194.9	4216.4	4247.8	4283.0	4312.4	4357.4	4388.8	4400.5	4410.3
4243.8	7.5°	4255.6	4283.0	4322.2	4377.0	4427.9	4467.1	4521.9	4559.2	4596.4	4610.1
4365.3	10°	4375.1	4414.2	4471.0	4545.4	4600.3	4651.2	4708.0	4739.3	4776.5	4792.2
4510.2	12.5°	4523.9	4565.0	4639.4	4743.2	4794.2	4829.4	4849.0	4841.2	4849.0	4862.7
4684.5	15°	4694.3	4739.3	4823.5	4935.2	4970.4	4939.1	4896.0	4856.8	4851.0	4854.9
4896.0	17.5°	4896.0	4929.3	5027.2	5121.2	5095.8	4966.5	4872.5	4809.8	4778.5	4768.7
5166.3	20°	5178.0	5178.0	5258.3	5317.1	5146.7	4927.3	4780.5	4678.6	4614.0	4586.6
5534.4	22.5°	5520.7	5489.4	5540.3	5499.2	5136.9	4817.7	4614.0	4437.7	4339.8	4300.6
6049.5	25°	5955.5	5918.3	5904.6	5650.0	5066.4	4643.4	4312.4	4098.9	4012.8	3991.2
6791.7	27.5°	6611.6	6517.6	6339.3	5732.2	4937.1	4369.2	3959.9	3762.1	3713.1	3715.1
7745.5	30°	7485.0	7297.0	6860.3	5745.9	4725.6	3981.4	3599.5	3458.5	3435.0	3444.8
8546.5	32.5°	8293.8	8115.6	7393.0	5683.3	4400.5	3601.5	3276.4	3182.4	3147.1	3158.9
9157.5	35°	8928.3	8879.4	7886.5	5595.1	4001.0	3245.1	2986.6	2906.3	2837.7	2822.1
9733.2	37.5°	9527.6	9508.0	8256.6	5471.8	3605.4	2992.4	2753.5	2647.8	2547.9	2493.0
10369.7	40°	10185.6	10166.0	8499.4	5281.8	3254.9	2773.1	2544.0	2404.9	2281.5	2181.7
11090.4	42.5°	10925.9	10810.4	8615.0	5009.6	2957.2	2587.0	2373.6	2185.6	2023.0	1931.0
11905.1	45°	11734.7	11474.3	8613.0	4662.9	2706.5	2416.7	2191.4	1925.1	1774.3	1688.1
12741.3	47.5°	12592.5	12108.8	8507.3	4279.1	2463.7	2228.7	1909.4	1705.8	1605.9	1553.0
13650.0	50°	13477.7	12702.2	8327.1	3838.5	2214.9	2015.2	1733.2	1594.1	1517.8	1468.8
14550.9	52.5°	14310.0	13240.7	8109.7	3339.1	1962.3	1807.6	1654.8	1547.1	1466.8	1412.0
15424.3	55°	15083.6	13704.9	7802.3	2827.9	1756.7	1668.6	1617.6	1527.6	1435.5	1370.9
16311.5	57.5°	15771.0	14006.5	7271.5	2348.1	1609.8	1572.6	1578.5	1494.3	1388.5	1333.7
17184.9	60°	16342.8	14227.8	6486.2	1903.6	1490.3	1478.6	1517.8	1431.6	1308.2	1245.5
17923.3	62.5°	16685.6	14223.8	5522.7	1558.9	1388.5	1392.4	1437.5	1353.3	1227.9	1169.2
18309.1	65°	16656.2	13875.3	4465.1	1333.7	1290.6	1294.5	1353.3	1267.1	1161.3	1126.1
18115.2	67.5°	16066.7	13025.3	3425.2	1186.8	1182.9	1200.5	1269.0	1208.3	1120.2	1116.3
16959.7	70°	14470.6	11260.8	2467.6	1069.3	1071.2	1096.7	1186.8	1171.1	1098.7	1106.5
14259.1	72.5°	11603.5	8585.6	1656.8	945.9	947.9	989.0	1108.5	1141.7	1077.1	1180.9
10117.1	75°	7727.8	5354.3	1065.4	814.7	816.7	869.5	1039.9	1085.0	1018.4	1177.0
5264.2	77.5°	3713.1	2406.9	771.6	685.4	685.4	734.4	898.9	971.4	867.6	914.6
1692.1	80°	1282.8	904.8	607.1	552.3	540.5	573.8	757.9	842.1	748.1	689.4
552.3	82.5°	505.3	470.0	487.6	428.9	389.7	411.3	589.5	695.2	550.3	497.4
311.4	85°	289.8	305.5	344.7	284.0	225.2	252.6	432.8	499.4	415.2	366.2
101.8	87.5°	78.3	107.7	158.6	146.9	101.8	107.7	205.6	276.1	238.9	184.1
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>
4134.2
4239.9
4408.4
4612.0
4800.0
4866.6
4868.6
4782.4
4580.7
4294.8
3995.1
3721.0
3478.1
3174.6
2833.8
2495.0
2191.4
1936.9
1684.2
1541.3
1451.2
1388.5
1345.4
1298.4
1218.1
1151.5
1124.1
1122.2
1104.5
1196.6
1186.8
838.2
646.3
495.5
374.1
190.0
0.0

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