

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: P942107

Luminaire Tested: **GALN-SB5D-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942107
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-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35783 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

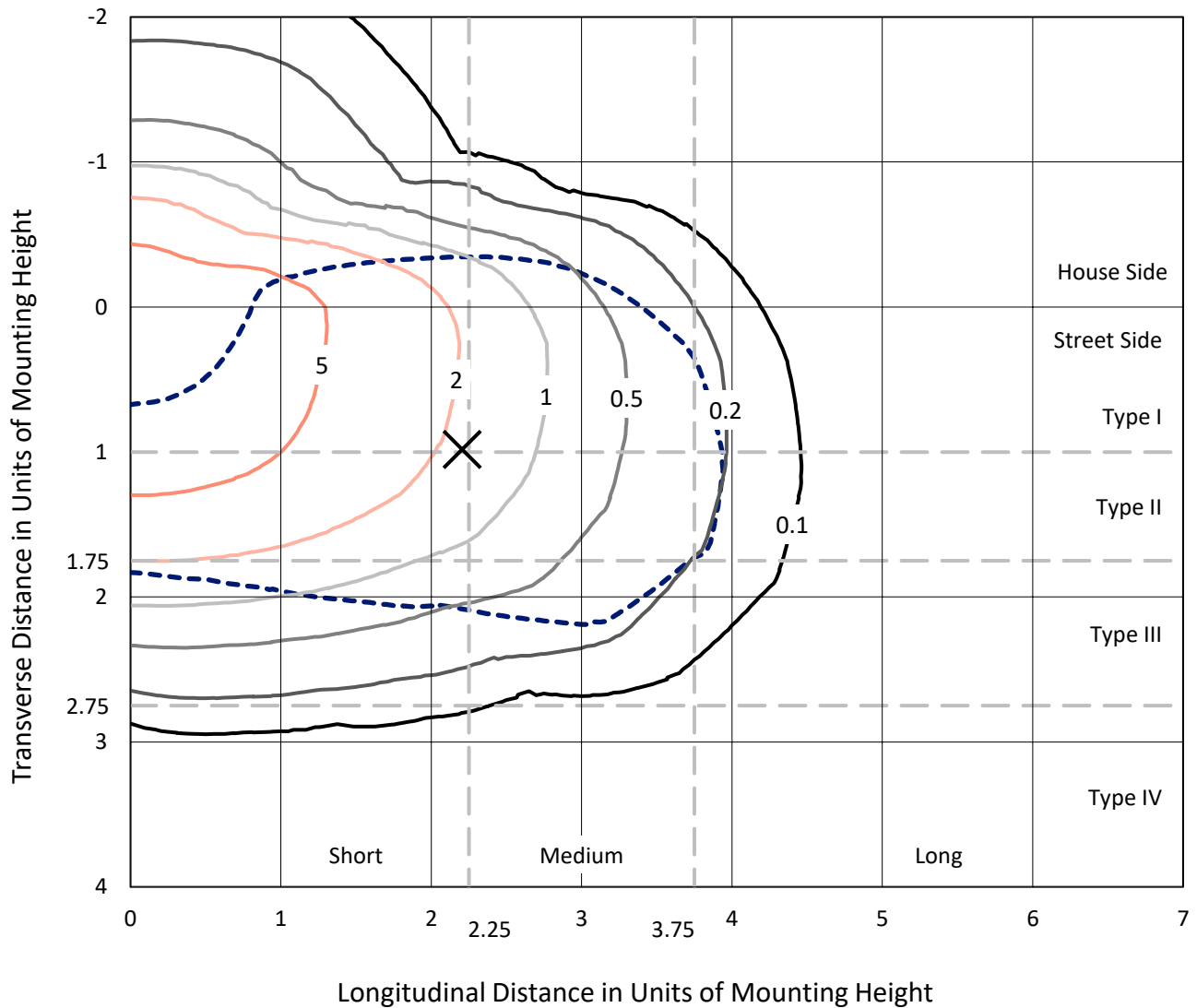
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

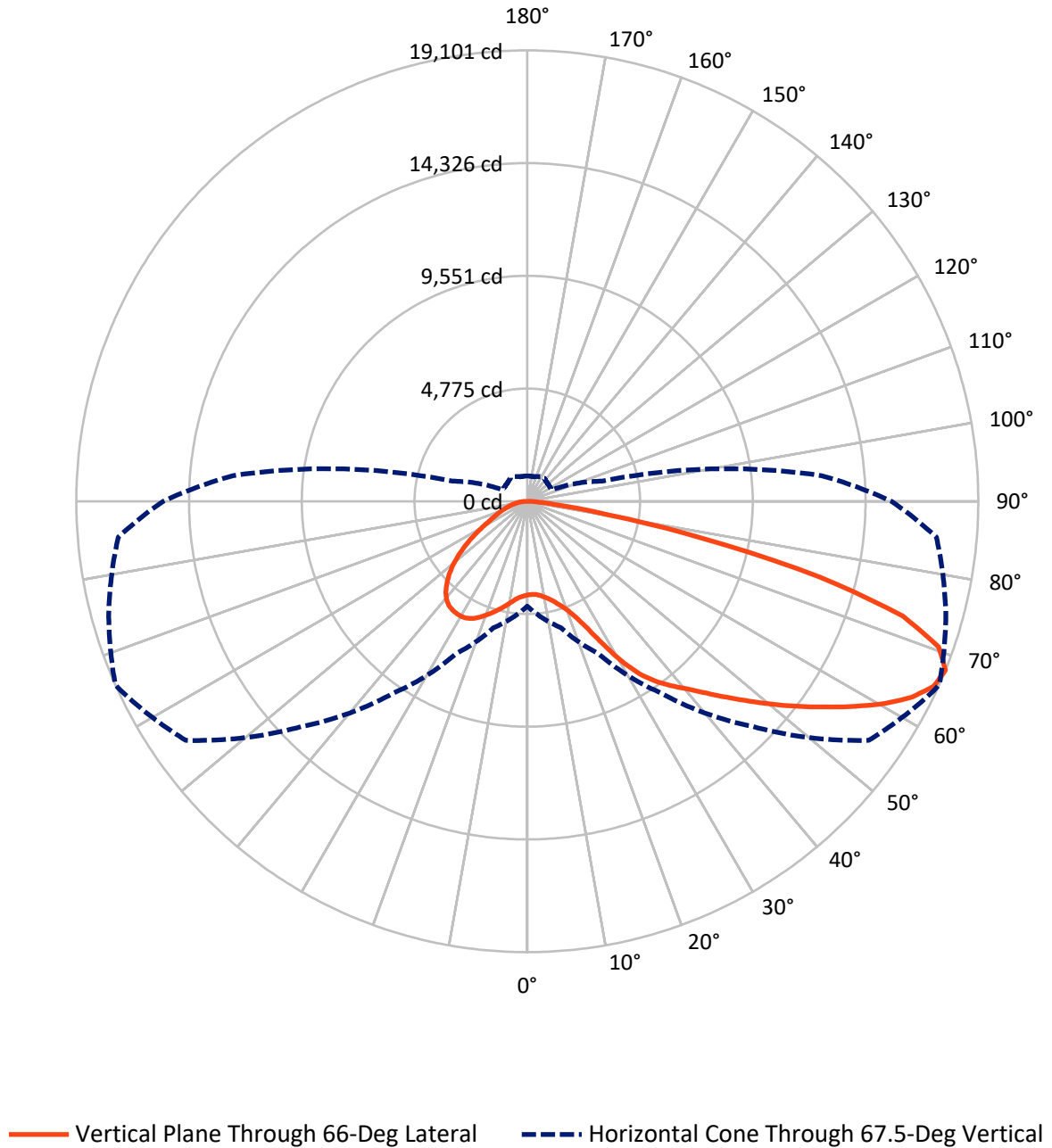
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	8897.3	0.0	8897.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	26885.7	0.0	26885.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	35783.0	0.0	35783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.5	1.1
10°-20°	1300.0	3.6
20°-30°	2505.8	7.0
30°-40°	4393.5	12.3
40°-50°	6531.7	18.3
50°-60°	8279.6	23.1
60°-70°	8101.4	22.6
70°-80°	3864.4	10.8
80°-90°	413.0	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°	35783.0	100.0
0°-180°	35783.0	100.0

Coefficient of Utilization



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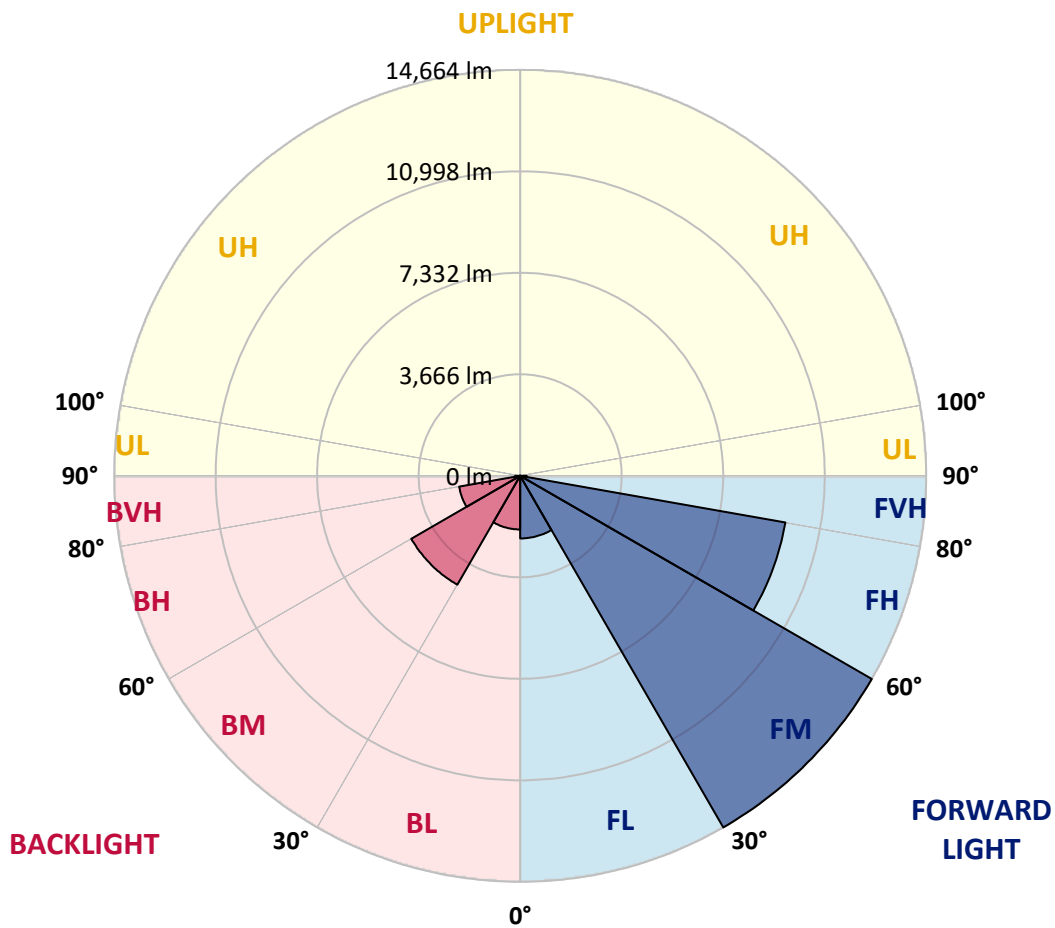
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2261.1	6.3			
FM (30°-60°)	14663.6	41.0			
FH (60°-80°)	9726.8	27.2			G4/12000
FVH (80°-90°)	234.2	0.7			G3/500
BL (0°-30°)	1938.2	5.4	B3/2500		
BM (30°-60°)	4541.3	12.7	B3/5000		
BH (60°-80°)	2239.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	178.8	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°	3968.8	3968.8	3968.8	3968.8	3968.8	3968.8	3968.8	3968.8	3968.8	3968.8
2.5°	3927.4	3950.0	3944.4	3935.0	3933.1	3936.8	3942.5	3948.1	3946.2	3955.6
5°	3916.2	3938.7	3936.8	3936.8	3944.4	3959.4	3968.8	3978.2	3968.8	3980.1
7.5°	3923.7	3940.6	3948.1	3955.6	3974.4	4002.6	4025.2	4045.9	4034.6	4047.8
10°	4019.6	4032.7	4040.2	4040.2	4053.4	4085.4	4107.9	4145.5	4136.1	4156.8
12.5°	4194.4	4207.6	4207.6	4200.1	4209.5	4230.1	4237.7	4279.0	4262.1	4295.9
15°	4408.7	4435.1	4414.4	4401.2	4405.0	4425.7	4423.8	4455.7	4438.8	4467.0
17.5°	4645.6	4679.5	4645.6	4643.7	4636.2	4658.8	4660.7	4688.9	4658.8	4679.5
20°	4925.8	4972.8	4944.6	4954.0	4937.0	4946.4	4955.8	4997.2	4950.2	4965.2
22.5°	5320.6	5377.0	5346.9	5382.6	5371.3	5363.8	5361.9	5435.3	5361.9	5367.6
25°	5895.9	5963.6	5910.9	5959.8	5959.8	5984.2	6012.4	6106.4	5984.2	5948.5
27.5°	6745.7	6813.3	6709.9	6740.0	6730.6	6790.8	6760.7	6993.8	6862.2	6803.9
30°	7768.4	7888.7	7693.2	7685.7	7676.3	7772.2	7815.4	7969.6	7836.1	7777.8
32.5°	8873.9	8999.8	8766.7	8699.0	8663.3	8721.6	8685.9	8810.0	8717.8	8627.6
35°	10043.3	10167.4	9945.5	9813.9	9671.0	9548.8	9421.0	9452.9	9366.5	9229.2
37.5°	11148.8	11376.2	11141.2	11000.2	10737.0	10498.3	10141.0	9992.5	9911.7	9785.7
40°	12274.9	12404.6	12226.0	12105.7	11819.9	11445.8	10874.3	10560.3	10451.3	10329.1
42.5°	13104.0	13228.1	13132.2	13049.5	12825.8	12391.5	11652.6	11259.7	11101.8	10964.5
45°	13762.0	13854.2	13794.0	13824.1	13728.2	13307.1	12459.2	12009.8	11846.3	11678.9
47.5°	14027.1	14124.9	14220.8	14399.4	14562.9	14252.7	13325.9	12822.0	12649.0	12478.0
50°	13997.0	14096.7	14374.9	14754.7	15262.3	15158.9	14239.6	13686.8	13527.0	13331.5
52.5°	13756.4	13869.2	14226.4	14858.1	15666.5	15837.6	15170.2	14579.9	14429.5	14196.3
55°	13124.7	13192.4	13728.2	14623.1	15762.4	16311.4	16082.0	15531.2	15380.8	15055.5
57.5°	11953.4	12051.2	12831.4	13989.5	15521.8	16632.9	16882.9	16531.4	16386.6	15918.5
60°	10424.9	10581.0	11474.0	12925.4	14908.9	16631.0	17610.5	17514.6	17394.3	16768.3
62.5°	8695.3	8875.8	9735.0	11421.4	13837.2	16159.1	18065.5	18338.1	18276.1	17552.2
65°	6678.0	6802.1	7657.5	9475.5	12169.6	15145.8	18118.1	18900.2	18911.5	18148.2
67.5°	4446.3	4803.6	5546.2	7110.4	9936.1	13489.4	17655.6	18992.4	19101.4	18353.2
70°	2169.6	2639.6	3367.2	4621.2	7110.4	10949.5	16446.8	18236.6	18479.1	17755.3
72.5°	900.5	1052.8	1449.5	2280.5	4081.6	7388.6	14017.7	16187.3	16636.7	15732.3
75°	607.3	658.0	829.1	1169.4	1859.4	3643.6	10109.1	12070.0	12793.8	11882.0
77.5°	468.1	500.1	603.5	817.8	1105.5	1378.1	5410.8	7274.0	7648.1	7080.3
80°	368.5	392.9	451.2	596.0	784.0	737.0	1844.3	3295.7	3512.0	2946.1
82.5°	319.6	329.0	323.4	404.2	520.8	430.5	605.4	1216.4	1342.4	973.9
85°	231.2	257.6	268.8	250.0	276.4	218.1	248.2	430.5	473.8	423.0
87.5°	94.0	139.1	171.1	161.7	101.5	62.0	77.1	126.0	144.8	157.9
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°
3968.8	0°	3968.8	3968.8	3968.8	3968.8	3968.8	3968.8	3968.8	3968.8	3968.8	3968.8
3970.7	2.5°	3972.6	3985.7	3995.1	4006.4	4013.9	4025.2	4047.8	4060.9	4062.8	4072.2
4000.8	5°	4008.3	4027.1	4047.8	4077.9	4111.7	4139.9	4183.1	4213.2	4224.5	4233.9
4074.1	7.5°	4085.4	4111.7	4149.3	4201.9	4250.8	4288.4	4341.1	4376.8	4412.5	4425.7
4190.7	10°	4200.1	4237.7	4292.2	4363.6	4416.3	4465.1	4519.7	4549.7	4585.5	4600.5
4329.8	12.5°	4342.9	4382.4	4453.9	4553.5	4602.4	4636.2	4655.0	4647.5	4655.0	4668.2
4497.1	15°	4506.5	4549.7	4630.6	4737.8	4771.6	4741.5	4700.2	4662.5	4656.9	4660.7
4700.2	17.5°	4700.2	4732.1	4826.1	4916.4	4891.9	4767.8	4677.6	4617.4	4587.3	4577.9
4959.6	20°	4970.9	4970.9	5048.0	5104.4	4940.8	4730.2	4589.2	4491.5	4429.4	4403.1
5313.1	22.5°	5299.9	5269.8	5318.7	5279.2	4931.4	4624.9	4429.4	4260.2	4166.2	4128.6
5807.5	25°	5717.3	5681.5	5668.4	5424.0	4863.7	4457.6	4139.9	3935.0	3852.2	3831.6
6520.0	27.5°	6347.1	6256.8	6085.8	5502.9	4739.6	4194.4	3801.5	3611.6	3564.6	3566.5
7435.6	30°	7185.6	7005.1	6585.9	5516.1	4536.6	3822.2	3455.6	3320.2	3297.6	3307.0
8204.6	32.5°	7962.1	7791.0	7097.2	5455.9	4224.5	3457.4	3145.3	3055.1	3021.3	3032.5
8791.2	35°	8571.2	8524.2	7571.0	5371.3	3841.0	3115.3	2867.1	2790.0	2724.2	2709.2
9343.9	37.5°	9146.5	9127.7	7926.3	5252.9	3461.2	2872.7	2643.4	2541.8	2446.0	2393.3
9954.9	40°	9778.2	9759.4	8159.5	5070.5	3124.7	2662.2	2442.2	2308.7	2190.3	2094.4
10646.8	42.5°	10488.9	10377.9	8270.4	4809.2	2838.9	2483.6	2278.6	2098.1	1942.1	1853.7
11428.9	45°	11265.3	11015.3	8268.5	4476.4	2598.2	2320.0	2103.8	1848.1	1703.3	1620.6
12231.7	47.5°	12088.8	11624.4	8167.0	4107.9	2365.1	2139.5	1833.1	1637.5	1541.6	1490.9
13104.0	50°	12938.6	12194.1	7994.0	3684.9	2126.3	1934.6	1663.9	1530.4	1457.0	1410.0
13968.8	52.5°	13737.6	12711.1	7785.3	3205.5	1883.8	1735.3	1588.7	1485.2	1408.2	1355.5
14807.4	55°	14480.2	13156.7	7490.2	2714.8	1686.4	1601.8	1552.9	1466.4	1378.1	1316.0
15659.0	57.5°	15140.1	13446.2	6980.7	2254.2	1545.4	1509.7	1515.3	1434.5	1333.0	1280.3
16497.5	60°	15689.1	13658.6	6226.8	1827.4	1430.7	1419.4	1457.0	1374.3	1255.9	1195.7
17206.3	62.5°	16018.1	13654.9	5301.8	1496.5	1333.0	1336.7	1380.0	1299.1	1178.8	1122.4
17576.7	65°	15989.9	13320.2	4286.5	1280.3	1239.0	1242.7	1299.1	1216.4	1114.9	1081.0
17390.6	67.5°	15424.0	12504.3	3288.2	1139.3	1135.6	1152.5	1218.3	1160.0	1075.4	1071.6
16281.3	70°	13891.8	10810.3	2368.9	1026.5	1028.4	1052.8	1139.3	1124.3	1054.7	1062.2
13688.7	72.5°	11139.4	8242.2	1590.5	908.1	909.9	949.4	1064.1	1096.1	1034.0	1133.7
9712.4	75°	7418.7	5140.1	1022.8	782.1	784.0	834.7	998.3	1041.6	977.6	1129.9
5053.6	77.5°	3564.6	2310.6	740.7	658.0	658.0	705.0	862.9	932.5	832.9	878.0
1624.4	80°	1231.4	868.6	582.8	530.2	518.9	550.9	727.6	808.4	718.2	661.8
530.2	82.5°	485.1	451.2	468.1	411.7	374.1	394.8	565.9	667.4	528.3	477.5
298.9	85°	278.2	293.3	330.9	272.6	216.2	242.5	415.5	479.4	398.6	351.6
97.8	87.5°	75.2	103.4	152.3	141.0	97.8	103.4	197.4	265.1	229.4	176.7
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>
3968.8
4070.3
4232.0
4427.5
4608.0
4672.0
4673.8
4591.1
4397.5
4123.0
3835.3
3572.1
3339.0
3047.6
2720.4
2395.2
2103.8
1859.4
1616.9
1479.6
1393.1
1333.0
1291.6
1246.5
1169.4
1105.5
1079.2
1077.3
1060.4
1148.7
1139.3
804.7
620.4
475.7
359.1
182.4
0.0

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