

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: P951482

Luminaire Tested: **GALN-SB5C-840-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951482
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-SB5C-840-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36671 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

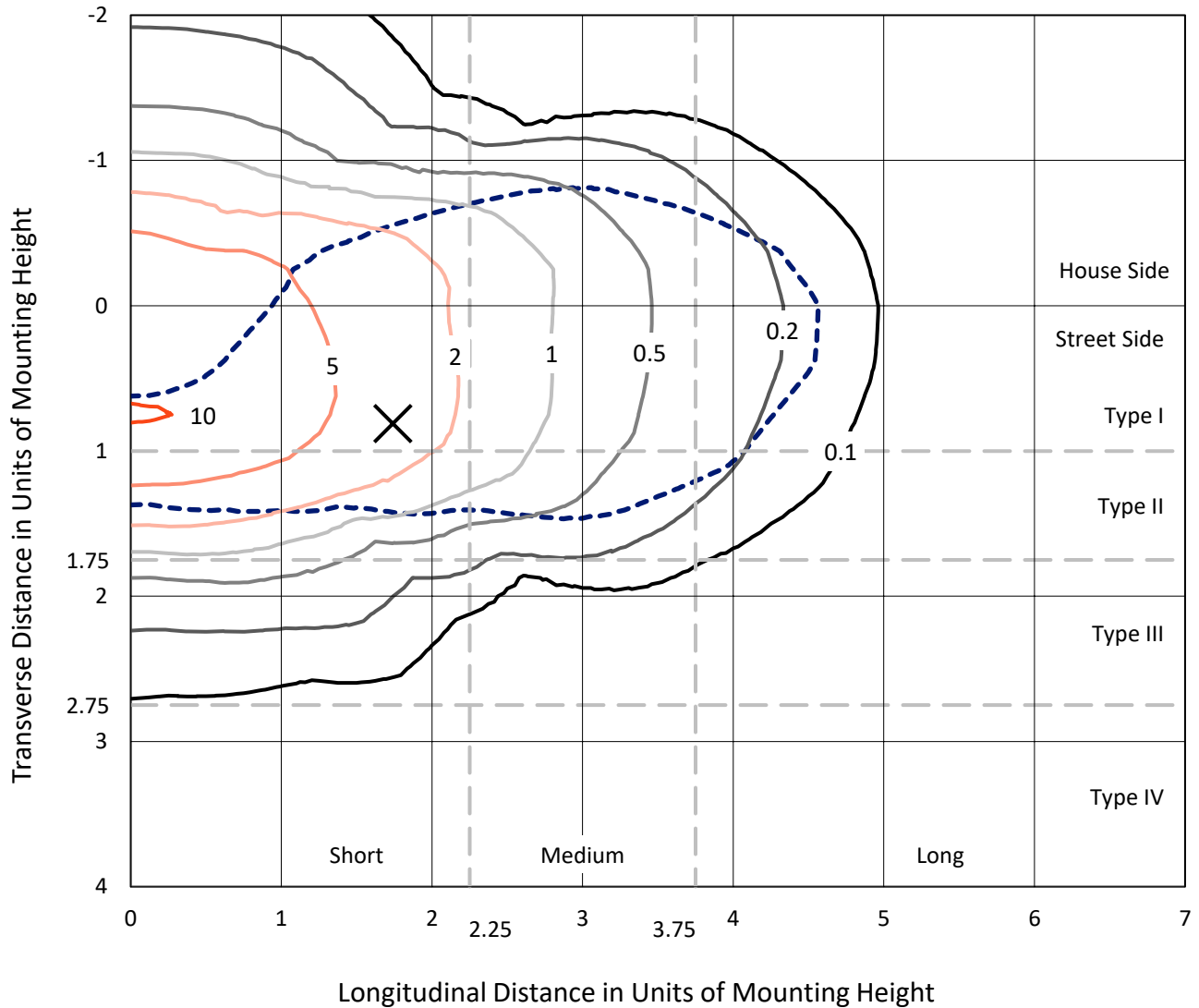
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

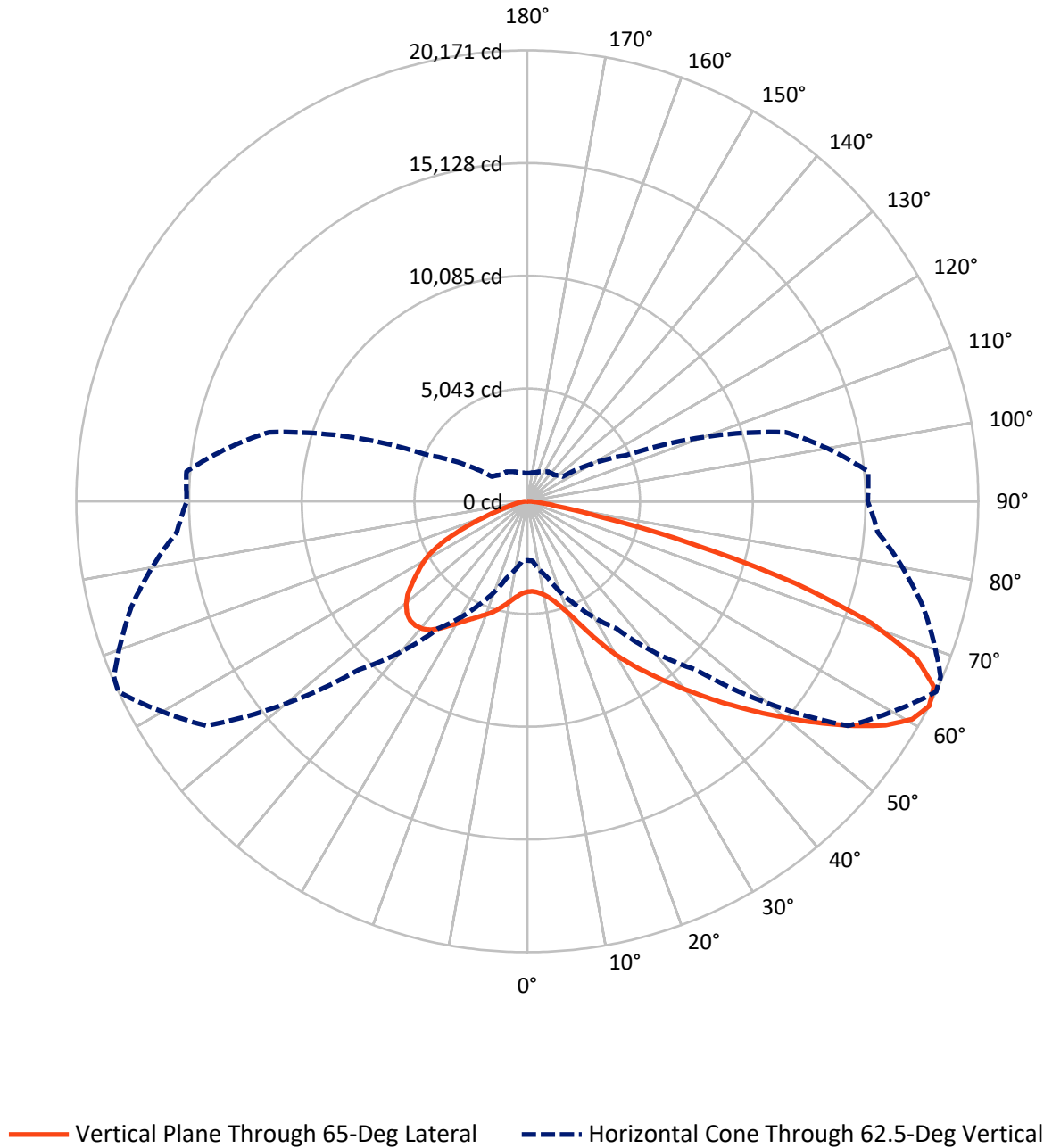
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	11571.8	0.0	11571.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	25099.2	0.0	25099.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	36671.0	0.0	36671.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.9	1.1
10°-20°	1366.2	3.7
20°-30°	2770.1	7.6
30°-40°	4793.7	13.1
40°-50°	7254.3	19.8
50°-60°	8505.2	23.2
60°-70°	7130.6	19.4
70°-80°	3936.7	10.7
80°-90°	511.4	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°	36671.0	100.0
0°-180°	36671.0	100.0



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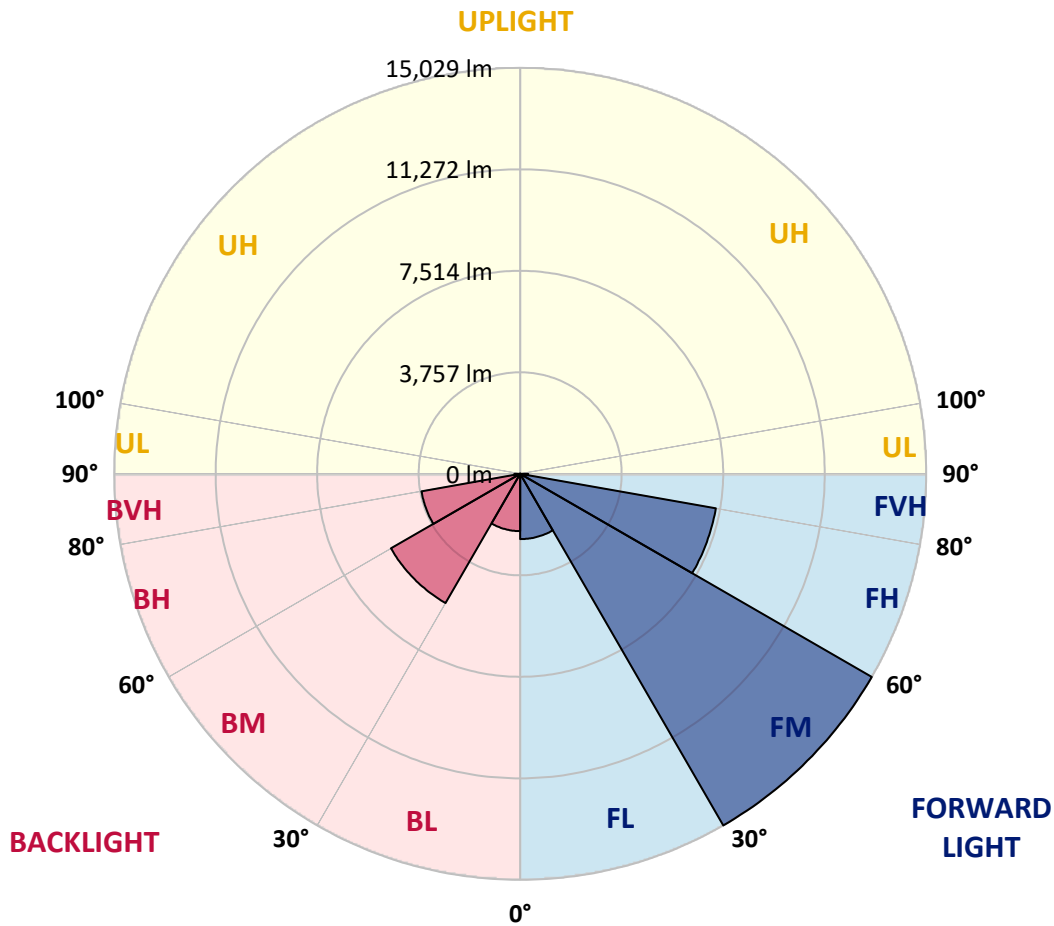
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2417.1	6.6			
FM (30°-60°)	15029.0	41.0			
FH (60°-80°)	7355.1	20.1			G3/7500
FVH (80°-90°)	298.0	0.8			G3/500
BL (0°-30°)	2122.1	5.8	B3/2500		
BM (30°-60°)	5524.2	15.1	B4/8500		
BH (60°-80°)	3712.1	10.1	B4/5000		G4/5000
BVH (80°-90°)	213.3	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°	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0
2.5°	4014.3	4002.9	4012.4	4012.4	4016.3	4014.3	4027.7	4031.5	4037.2	4048.6
5°	3974.4	3972.5	3989.6	4004.8	4020.1	4033.4	4050.5	4075.2	4079.0	4092.4
7.5°	3961.1	3949.7	3976.3	3995.3	4031.5	4063.8	4109.5	4151.3	4168.5	4174.2
10°	4063.8	4044.8	4069.5	4080.9	4111.4	4143.7	4197.0	4263.6	4282.6	4305.4
12.5°	4238.8	4217.9	4254.1	4271.2	4299.7	4328.3	4364.4	4429.1	4438.6	4480.5
15°	4478.6	4453.8	4476.7	4497.6	4545.2	4571.8	4607.9	4670.7	4670.7	4703.1
17.5°	4803.9	4771.6	4788.7	4796.3	4826.7	4866.7	4927.6	4982.7	5011.3	4999.9
20°	5289.0	5249.1	5249.1	5211.0	5199.6	5232.0	5311.9	5388.0	5418.4	5359.4
22.5°	6017.7	5960.6	5928.3	5798.9	5747.6	5751.4	5831.3	5924.5	5949.2	5844.6
25°	6944.3	6854.8	6811.1	6620.8	6504.8	6403.9	6466.7	6586.6	6620.8	6491.5
27.5°	7870.8	7876.5	7834.6	7606.3	7414.2	7229.6	7197.3	7322.9	7359.0	7212.5
30°	9170.2	9035.1	8955.2	8681.3	8407.3	8148.6	8015.4	8066.8	8076.3	7901.2
32.5°	10290.8	10256.6	10085.3	9845.6	9493.7	9088.4	8865.8	8784.0	8768.8	8519.6
35°	11567.4	11548.4	11367.6	11082.3	10701.8	10138.6	9737.2	9503.2	9484.1	9134.1
37.5°	12864.9	12864.9	12688.0	12376.0	11982.2	11278.2	10667.5	10296.5	10235.6	9779.0
40°	13899.9	13837.1	13869.5	13738.2	13287.3	12539.6	11700.6	11162.2	11080.4	10532.4
42.5°	14487.8	14466.9	14660.9	14807.4	14622.9	14025.5	12838.3	12100.1	11986.0	11361.9
45°	14619.1	14596.3	14942.5	15479.0	15737.8	15492.3	14075.0	13087.5	12948.7	12229.5
47.5°	14316.6	14270.9	14778.9	15625.5	16455.0	16886.9	15414.3	14158.7	13957.0	13074.2
50°	13407.2	13363.4	14132.0	15256.4	16696.7	17834.4	16867.9	15294.5	14986.3	13979.8
52.5°	11430.4	11451.4	12655.7	14200.5	16378.9	18424.2	18119.7	16491.2	16120.2	14906.4
55°	8903.9	8949.5	10429.7	12130.6	15108.0	18334.7	18974.0	17724.0	17354.9	15777.7
57.5°	6375.4	6577.1	7964.0	9647.8	12667.1	16917.3	19160.4	18896.0	18538.3	16729.0
60°	4132.3	4168.5	5595.4	7292.4	9645.9	14398.4	18781.8	19784.5	19504.8	17699.3
62.5°	2648.3	2673.1	3542.5	5100.7	6942.4	10652.3	17507.1	20170.7	20085.1	18340.4
65°	1946.3	1927.3	2380.1	3371.3	4676.4	6569.5	15031.9	19984.2	20153.6	18741.9
67.5°	1624.8	1598.1	1820.7	2334.4	3445.5	3730.9	11122.2	18772.3	19392.5	18696.2
70°	1480.2	1457.3	1592.4	1733.2	2688.3	2498.0	5606.8	16319.9	17275.0	18176.8
72.5°	1253.8	1213.8	1398.4	1539.2	2090.9	1915.9	2317.3	12535.8	13700.2	16512.1
75°	972.2	945.6	1103.5	1354.6	1571.5	1495.4	1465.0	7612.0	8882.9	12769.8
77.5°	770.5	734.4	879.0	1055.9	1413.6	1128.2	1067.3	3278.1	4537.5	8152.4
80°	580.3	547.9	667.8	835.2	1086.3	850.4	690.6	1337.5	1710.4	4130.4
82.5°	412.9	384.3	466.1	612.6	730.6	762.9	424.3	749.6	842.8	1592.4
85°	264.5	247.3	312.0	384.3	464.2	490.9	258.7	391.9	430.0	656.4
87.5°	144.6	118.0	167.4	178.8	215.0	196.0	123.7	142.7	154.1	237.8
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°
4041.0	0°	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0
4048.6	2.5°	4056.2	4061.9	4080.9	4086.6	4100.0	4117.1	4128.5	4139.9	4139.9	4151.3
4109.5	5°	4111.4	4124.7	4164.6	4185.6	4219.8	4254.1	4275.0	4299.7	4315.0	4322.6
4206.5	7.5°	4217.9	4238.8	4295.9	4332.1	4391.1	4438.6	4471.0	4505.2	4512.8	4533.7
4341.6	10°	4362.5	4387.2	4451.9	4520.4	4590.8	4649.8	4680.2	4705.0	4714.5	4718.3
4514.7	12.5°	4528.0	4564.2	4647.9	4731.6	4805.8	4857.2	4864.8	4859.1	4832.4	4809.6
4727.8	15°	4731.6	4763.9	4857.2	4948.5	5020.8	5030.3	4982.7	4952.3	4920.0	4914.2
4965.6	17.5°	4975.1	4992.3	5077.9	5167.3	5173.0	5140.7	5070.3	5041.7	5011.3	4990.4
5275.7	20°	5258.6	5252.9	5313.8	5351.8	5311.9	5212.9	5106.4	5058.8	5028.4	5003.7
5656.2	22.5°	5597.3	5553.5	5545.9	5536.4	5429.8	5222.5	5077.9	5017.0	4969.4	4935.2
6187.0	25°	6090.0	5922.6	5806.5	5741.9	5502.1	5171.1	4986.5	4851.5	4762.0	4703.1
6835.8	27.5°	6706.4	6424.9	6131.9	5974.0	5502.1	5066.5	4765.9	4547.1	4400.6	4339.7
7463.6	30°	7294.3	6999.4	6567.6	6253.6	5488.8	4895.2	4410.1	4105.7	3934.4	3873.6
8000.2	32.5°	7796.6	7475.1	7029.9	6559.9	5456.5	4617.5	3968.7	3631.9	3466.4	3394.1
8531.0	35°	8262.7	7920.3	7494.1	6896.7	5370.9	4210.3	3483.5	3226.7	3042.2	2926.1
9071.3	37.5°	8740.2	8333.1	7933.6	7201.1	5216.8	3734.7	3110.6	2891.9	2675.0	2519.0
9645.9	40°	9259.6	8772.6	8403.5	7381.8	4963.7	3281.9	2821.5	2621.7	2391.5	2226.0
10307.9	42.5°	9866.5	9299.6	8926.7	7475.1	4617.5	2960.3	2633.1	2437.1	2220.3	2085.2
11017.6	45°	10500.1	9879.9	9404.2	7473.2	4231.2	2810.0	2572.2	2378.2	2138.4	1997.7
11746.3	47.5°	11164.1	10486.8	9817.1	7351.4	3896.4	2831.0	2538.0	2250.7	1986.2	1849.3
12482.5	50°	11830.0	11150.8	10216.6	7123.1	3753.7	2785.3	2410.5	2071.9	1759.8	1636.2
13173.2	52.5°	12490.1	11856.6	10561.0	6797.8	3609.1	2616.0	2246.9	1839.8	1666.6	1581.0
13886.6	55°	13154.1	12554.8	10935.8	6324.0	3247.6	2418.1	1972.9	1752.2	1592.4	1514.4
14584.8	57.5°	13820.0	13361.5	11291.5	5850.3	2792.9	2174.6	1822.6	1645.7	1518.2	1451.6
15168.9	60°	14512.5	14284.2	11658.7	5414.6	2343.9	1862.6	1712.3	1560.1	1430.7	1356.5
15730.2	62.5°	15226.0	15300.2	11946.0	4853.4	1931.1	1672.3	1613.4	1457.3	1331.8	1261.4
16194.4	65°	15945.1	16280.0	12134.4	4075.2	1565.8	1491.6	1506.8	1345.1	1217.6	1156.7
16534.9	67.5°	16487.4	16985.8	12081.1	3084.0	1284.2	1320.4	1373.6	1227.1	1107.3	1059.7
16479.8	70°	16548.3	16902.1	11556.0	2111.8	1074.9	1152.9	1225.2	1111.1	987.4	953.2
15703.5	72.5°	15737.8	15760.6	10093.0	1379.3	909.4	1012.1	1069.2	993.1	873.3	839.0
13738.2	75°	13612.6	13034.3	7410.4	909.4	761.0	869.5	922.7	869.5	753.4	761.0
10279.4	77.5°	10313.6	9231.1	4499.5	646.9	635.4	730.6	802.9	764.8	665.9	747.7
5169.2	80°	5313.8	4994.2	2007.2	483.2	502.3	584.1	660.2	610.7	527.0	502.3
1154.8	82.5°	1217.6	1415.5	791.5	346.3	363.4	420.5	504.2	458.5	378.6	319.6
481.3	85°	426.2	466.1	350.1	216.9	213.1	262.5	342.5	306.3	256.8	205.5
203.6	87.5°	135.1	176.9	131.3	87.5	91.3	118.0	157.9	144.6	119.9	78.0
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>
4041.0
4151.3
4326.4
4526.1
4708.8
4809.6
4914.2
4992.3
5005.6
4946.6
4725.9
4370.1
3909.7
3430.3
2964.2
2560.8
2258.3
2111.8
2020.5
1868.3
1643.8
1581.0
1506.8
1440.2
1350.8
1259.5
1154.8
1061.6
955.1
837.1
734.4
658.3
458.5
315.8
216.9
81.8
0.0

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