

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: P943979

Luminaire Tested: **GALN-SB8C-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41638 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

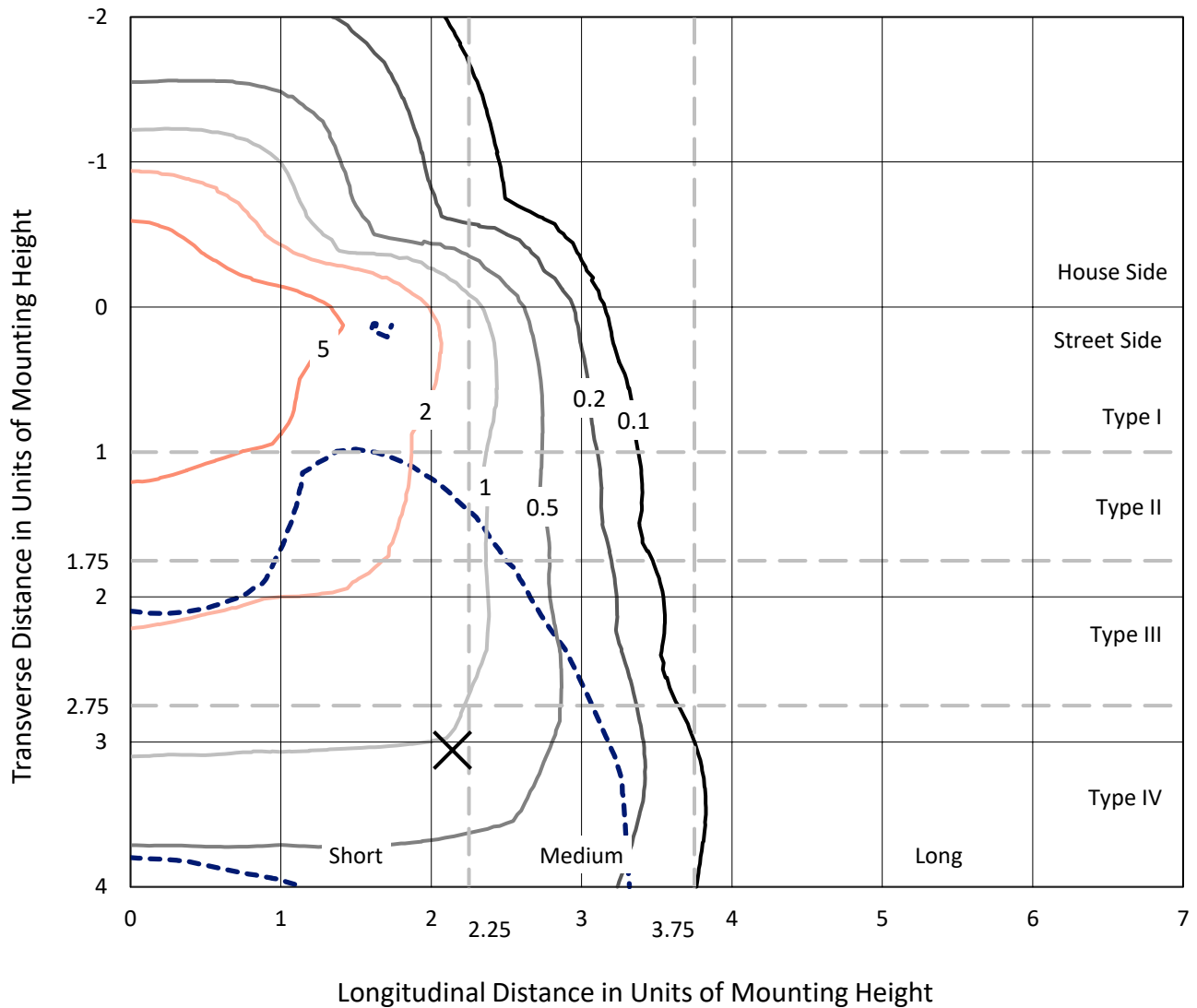
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

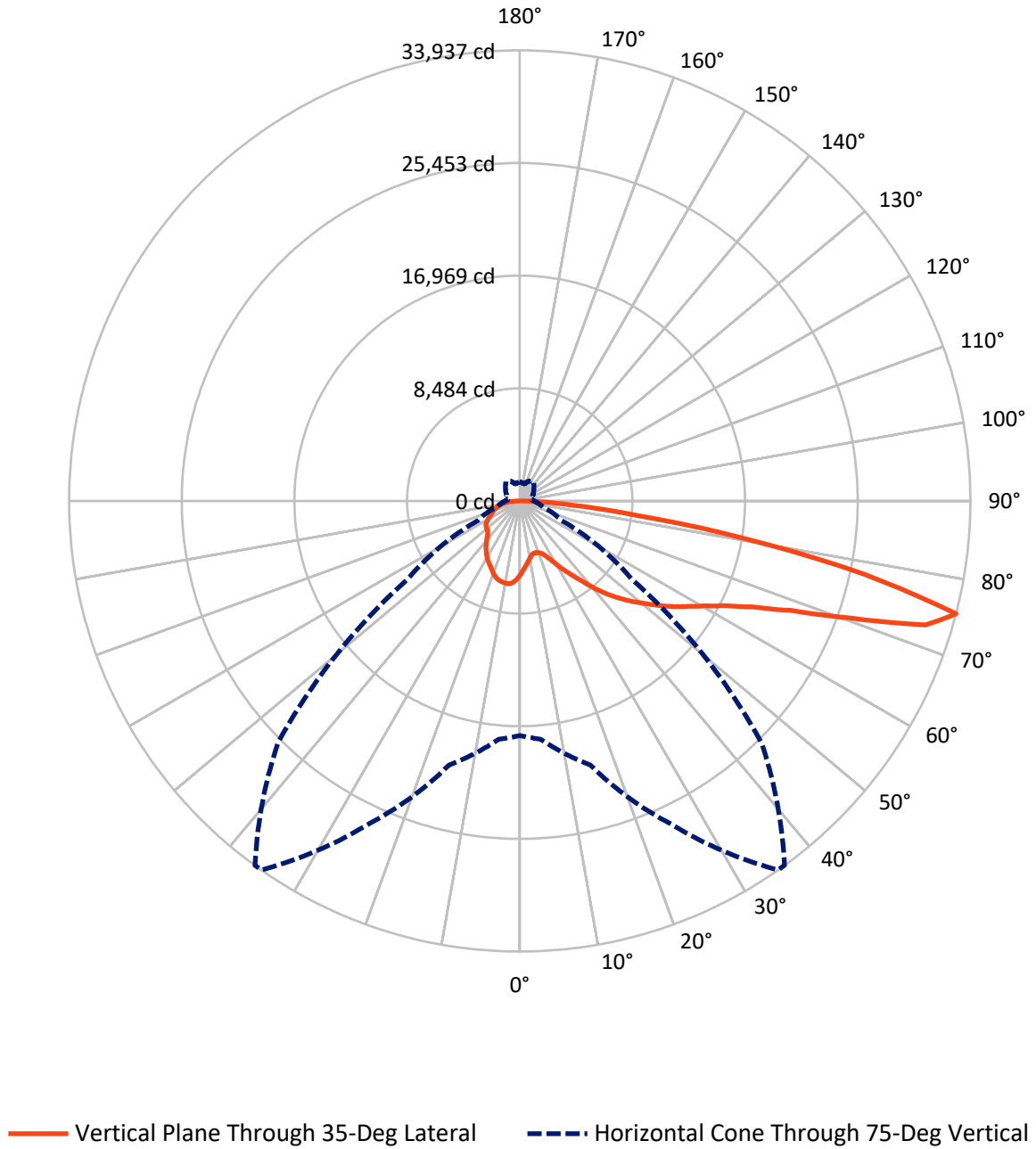
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9908.8	0.0	9908.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	31729.2	0.0	31729.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	41638.0	0.0	41638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.3	1.3
10°-20°	1515.3	3.6
20°-30°	2544.6	6.1
30°-40°	3954.6	9.5
40°-50°	5869.7	14.1
50°-60°	8103.5	19.5
60°-70°	9831.4	23.6
70°-80°	8124.9	19.5
80°-90°	1168.6	2.8
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°	41638.0	100.0
0°-180°	41638.0	100.0

Coefficient of Utilization



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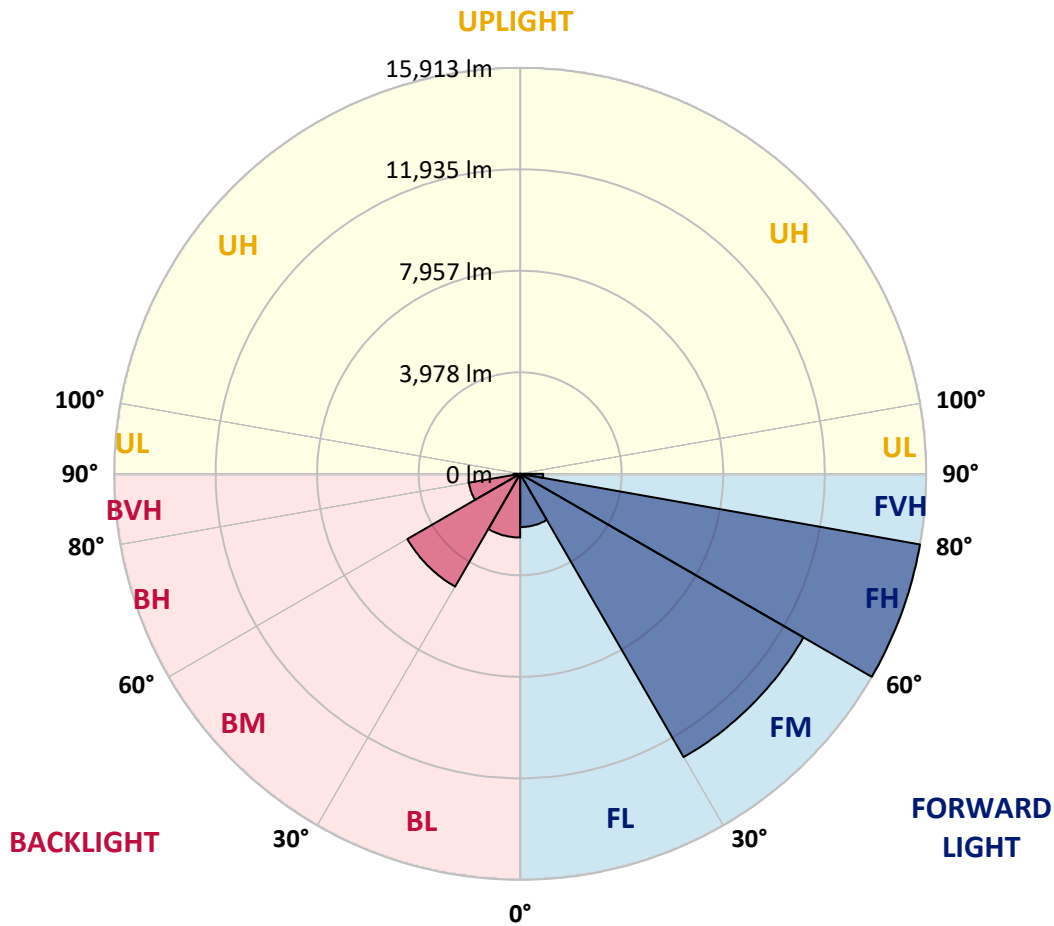
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2088.1	5.0			
FM (30°-60°)	12822.2	30.8			
FH (60°-80°)	15913.4	38.2			G5
FVH (80°-90°)	905.5	2.2			G5
BL (0°-30°)	2497.2	6.0	B3/2500		
BM (30°-60°)	5105.6	12.3	B4/8500		
BH (60°-80°)	2042.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	263.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5548.5	5548.5	5548.5	5548.5	5548.5	5548.5	5548.5	5548.5	5548.5	5548.5
2.5°	5116.4	5147.9	5161.4	5154.6	5188.4	5183.9	5231.2	5289.7	5370.7	5449.5
5°	4722.5	4756.2	4785.5	4812.5	4877.8	4898.0	4972.3	5084.9	5233.4	5384.2
7.5°	4355.6	4384.8	4429.8	4479.4	4589.6	4609.9	4733.7	4909.3	5116.4	5337.0
10°	4056.2	4085.4	4132.7	4189.0	4326.3	4351.0	4508.6	4742.7	5012.8	5291.9
12.5°	3927.9	3936.9	3963.9	4020.2	4139.5	4155.2	4328.5	4596.4	4911.5	5258.2
15°	3921.1	3939.1	3941.4	3970.6	4069.7	4076.4	4236.3	4501.9	4848.5	5251.4
17.5°	3988.6	4002.2	3981.9	3999.9	4083.2	4094.4	4220.5	4456.8	4828.2	5280.7
20°	4168.7	4180.0	4119.2	4094.4	4155.2	4164.2	4288.0	4486.1	4848.5	5341.5
22.5°	4551.4	4558.1	4409.6	4308.3	4312.8	4317.3	4425.3	4605.4	4927.3	5451.8
25°	5147.9	5143.4	4907.0	4711.2	4598.7	4573.9	4645.9	4799.0	5060.1	5598.1
27.5°	5845.7	5811.9	5575.6	5282.9	5037.6	5001.6	4985.8	5051.1	5249.2	5791.6
30°	6633.5	6602.0	6347.6	5965.0	5625.1	5566.6	5418.0	5384.2	5530.5	6055.0
32.5°	7497.9	7477.6	7173.7	6710.0	6255.3	6187.8	5938.0	5847.9	5962.7	6453.4
35°	8222.7	8204.6	7952.5	7475.3	6919.4	6836.1	6581.7	6480.4	6539.0	6964.4
37.5°	8877.7	8868.7	8652.6	8276.7	7702.7	7601.4	7315.5	7281.8	7270.5	7637.4
40°	9485.4	9462.9	9237.8	9039.7	8614.3	8522.0	8269.9	8240.7	8155.1	8465.8
42.5°	10158.5	10099.9	9773.5	9681.3	9566.5	9489.9	9339.1	9343.6	9154.5	9399.9
45°	10707.7	10673.9	10338.5	10284.5	10408.3	10376.8	10507.3	10541.1	10174.2	10379.0
47.5°	11297.4	11265.9	10982.3	10944.0	11279.4	11288.4	11749.9	11761.1	11169.1	11396.5
50°	12024.5	11979.5	11698.1	11745.4	12121.3	12155.0	12999.1	12922.6	12085.2	12429.6
52.5°	12503.9	12530.9	12470.2	12546.7	13059.9	13091.4	14228.1	14032.3	12992.4	13449.3
55°	12857.3	12911.3	13100.4	13276.0	14050.3	14081.8	15387.4	15088.0	13744.2	14394.7
57.5°	13312.0	13235.5	13588.9	13931.0	14991.2	15074.5	16515.1	16105.4	14410.5	15209.5
60°	13964.8	13910.8	14185.4	14691.8	16044.6	16177.4	17708.1	17021.5	14898.9	15855.6
62.5°	15288.3	15153.3	15196.0	15644.0	17372.7	17548.3	19054.1	17820.6	15142.0	16107.7
65°	17266.9	17035.0	16819.0	17129.6	19243.2	19416.5	20573.5	18448.6	15052.0	15619.2
67.5°	19758.7	19529.1	19263.5	19556.1	21998.3	22135.7	22448.5	18802.0	14342.9	13737.4
70°	21813.8	21728.2	22045.6	23249.9	26398.9	26403.4	24852.5	18509.4	12400.4	9739.8
72.5°	21541.4	21489.6	23162.1	26885.1	31945.2	31825.9	27128.2	16294.5	8353.2	4393.8
75°	17672.1	18007.4	20598.3	26819.8	33937.3	33921.5	25734.9	10358.8	3455.2	1821.0
77.5°	9476.4	10007.6	13372.8	19801.4	26493.5	26891.9	18093.0	3624.0	1483.4	1166.0
80°	3090.5	3554.2	5330.2	10081.9	17215.1	17140.8	7754.5	1422.6	1015.2	826.1
82.5°	1312.3	1366.3	2381.5	4760.7	8834.9	8697.6	2469.3	817.1	713.5	565.0
85°	513.2	574.0	1051.2	2201.4	3826.6	3743.3	891.4	405.2	456.9	369.2
87.5°	168.8	204.8	375.9	754.1	1190.7	1148.0	218.3	139.6	198.1	168.8
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°
5548.5	0°	5548.5	5548.5	5548.5	5548.5	5548.5	5548.5	5548.5	5548.5	5548.5	5548.5
5564.3	2.5°	5595.8	5631.8	5674.6	5737.6	5791.6	5836.7	5883.9	5913.2	5924.5	5958.2
5573.3	5°	5636.3	5715.1	5820.9	5924.5	6025.7	6086.5	6140.5	6167.6	6192.3	6210.3
5598.1	7.5°	5703.9	5805.2	5971.7	6106.8	6192.3	6241.8	6277.8	6268.8	6277.8	6282.3
5625.1	10°	5762.4	5904.2	6102.3	6230.6	6295.9	6298.1	6289.1	6257.6	6241.8	6244.1
5665.6	12.5°	5832.2	5989.7	6203.6	6311.6	6329.6	6280.1	6241.8	6187.8	6167.6	6158.5
5726.4	15°	5926.7	6106.8	6313.9	6354.4	6309.4	6246.3	6181.1	6093.3	6048.3	6012.2
5829.9	17.5°	6041.5	6239.6	6399.4	6370.1	6273.3	6169.8	6064.0	5931.2	5838.9	5800.6
5971.7	20°	6201.3	6379.1	6464.7	6336.4	6190.1	6032.5	5852.4	5690.4	5604.8	5566.6
6151.8	22.5°	6394.9	6566.0	6527.7	6277.8	6070.8	5818.7	5593.6	5474.3	5431.5	5404.5
6383.6	25°	6626.7	6773.1	6572.7	6192.3	5874.9	5535.0	5361.7	5323.5	5303.2	5282.9
6667.3	27.5°	6928.4	7007.1	6606.5	6066.3	5568.8	5233.4	5170.4	5177.1	5170.4	5136.6
7061.2	30°	7326.8	7311.0	6638.0	5861.4	5217.7	4961.1	4965.6	4994.8	4999.3	4976.8
7610.4	32.5°	7851.2	7691.4	6653.8	5595.8	4882.3	4722.5	4727.0	4758.5	4781.0	4742.7
8328.4	35°	8486.0	8134.9	6629.0	5262.7	4623.4	4495.1	4461.3	4470.3	4477.1	4441.1
9199.6	37.5°	9226.6	8632.3	6518.7	4893.5	4409.6	4272.3	4200.2	4139.5	4103.4	4069.7
10185.5	40°	10039.2	9174.8	6316.1	4533.4	4171.0	4035.9	3927.9	3813.1	3691.5	3646.5
11229.9	42.5°	10890.0	9733.0	6070.8	4189.0	3896.4	3786.1	3671.3	3504.7	3322.4	3230.1
12314.8	45°	11772.4	10304.8	5829.9	3849.1	3615.0	3567.7	3434.9	3234.6	3036.5	2919.5
13402.0	47.5°	12636.7	10845.0	5476.5	3507.0	3351.6	3403.4	3299.9	3115.3	2894.7	2710.1
14480.2	50°	13462.8	11351.4	4898.0	3160.3	3137.8	3353.9	3254.8	2989.2	2737.1	2500.8
15538.2	52.5°	14282.2	11761.1	4157.5	2845.2	3023.0	3340.4	3196.3	2903.7	2595.3	2347.7
16533.1	55°	14977.7	11972.7	3443.9	2575.1	2856.4	3225.6	3126.5	2802.4	2395.0	2131.6
17215.1	57.5°	15373.9	11801.6	2849.7	2309.5	2626.8	3036.5	3007.2	2586.3	2156.4	1953.8
17347.9	60°	15202.8	11108.3	2363.5	2077.6	2408.5	2831.7	2800.2	2372.5	1974.1	1782.7
16636.6	62.5°	14259.6	9787.0	1978.6	1875.0	2210.4	2622.3	2593.1	2208.2	1834.5	1649.9
14748.1	65°	12359.9	7961.5	1679.2	1706.2	2010.1	2370.2	2413.0	2070.9	1724.2	1544.1
11410.0	67.5°	9426.9	5766.9	1445.1	1559.9	1814.3	2122.6	2246.4	1971.8	1631.9	1460.9
6602.0	70°	5373.0	3275.1	1247.0	1418.1	1640.9	1893.0	2118.1	1893.0	1532.9	1391.1
2473.8	72.5°	2037.1	1503.6	1078.2	1276.3	1474.4	1699.5	1976.3	1769.2	1418.1	1312.3
1278.5	75°	1087.2	916.1	907.1	1109.7	1283.0	1510.4	1798.5	1647.7	1332.6	1386.6
884.6	77.5°	740.6	648.3	758.6	949.9	1073.7	1301.0	1609.4	1463.1	1154.7	1150.2
612.3	80°	513.2	459.2	616.8	765.3	830.6	1094.0	1404.6	1256.0	940.9	877.9
378.2	82.5°	308.4	299.4	461.4	571.7	587.5	844.1	1163.7	1053.4	769.8	670.8
225.1	85°	168.8	177.8	294.9	335.4	342.1	589.7	911.6	814.8	592.0	497.5
81.0	87.5°	47.3	60.8	108.0	132.8	164.3	306.1	542.5	484.0	297.1	207.1
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>
5548.5
5956.0
6214.8
6289.1
6248.6
6154.0
6023.5
5802.9
5562.1
5409.0
5282.9
5143.4
4988.1
4760.7
4465.8
4092.2
3666.8
3241.3
2910.5
2689.9
2480.5
2320.7
2109.1
1926.8
1755.7
1620.7
1514.9
1433.8
1373.1
1294.3
<i>1431.6</i>
1060.2
839.6
675.3
502.0
207.1
0.0

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