

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: P953859

Luminaire Tested: **GALN-SB7B-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42285 lumens
Efficiency: N/A
Efficacy: 164.7 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

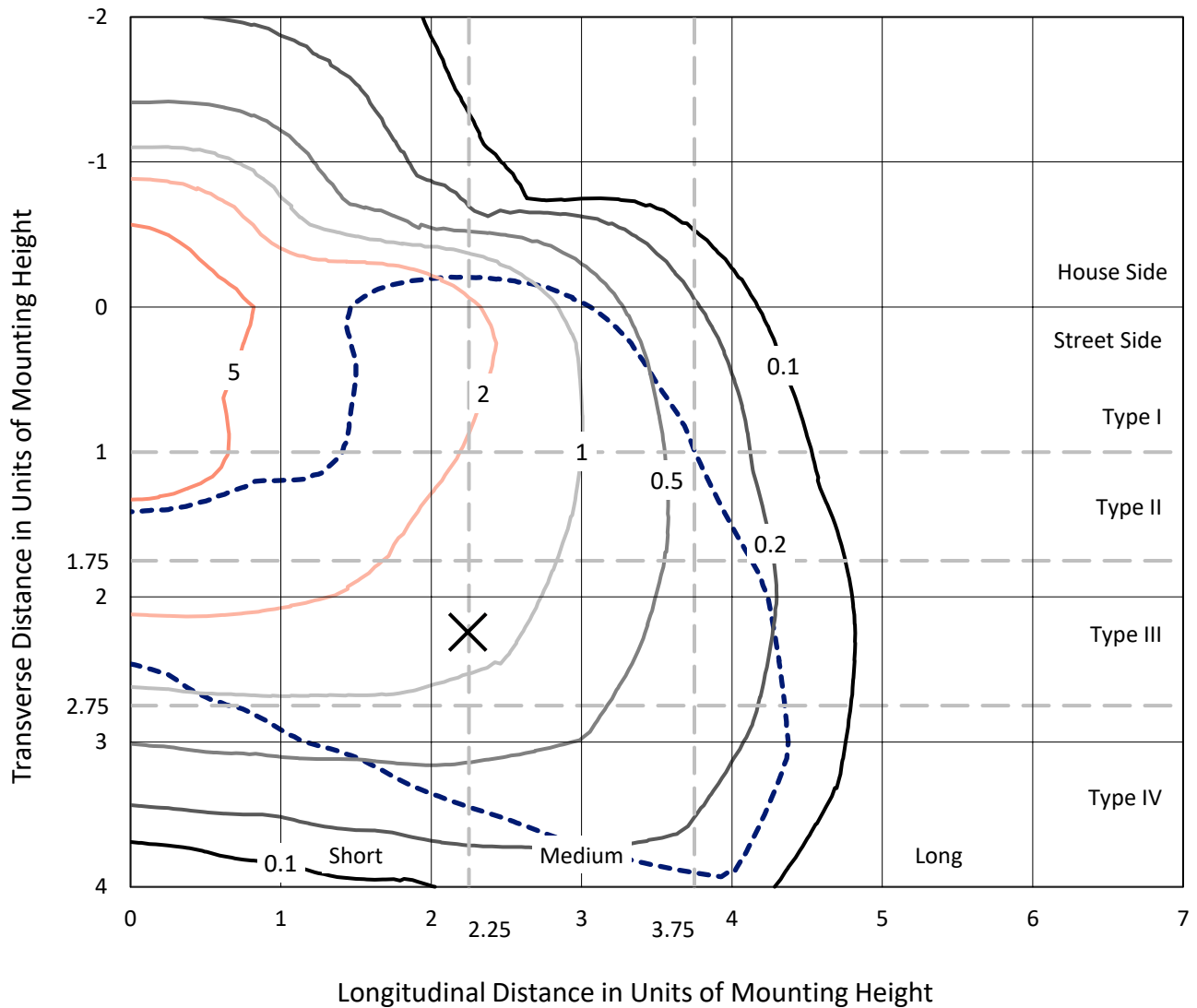
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

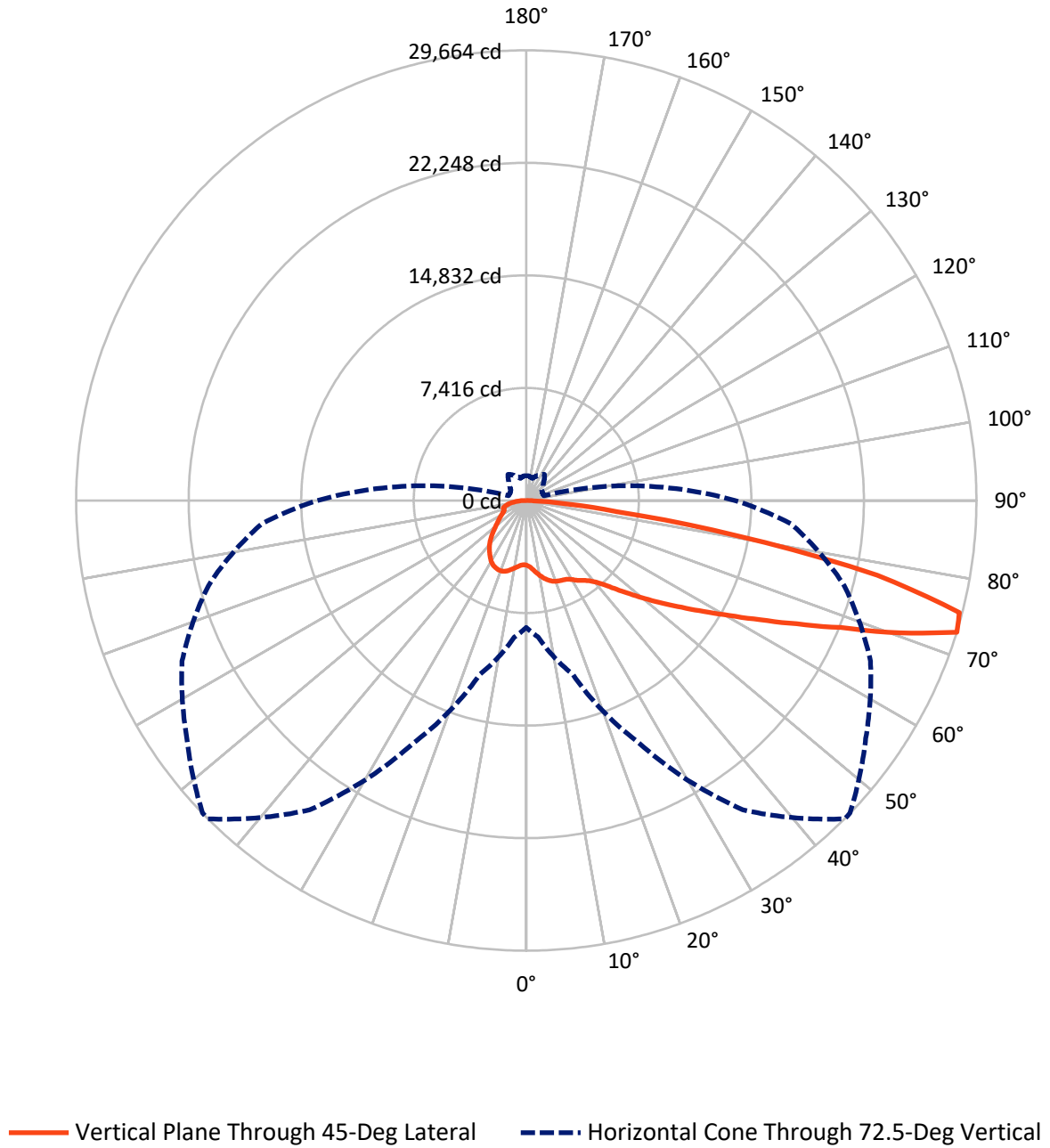
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	9559.2	0.0	9559.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	32725.8	0.0	32725.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	42285.0	0.0	42285.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.2	1.0
10°-20°	1447.6	3.4
20°-30°	2518.1	6.0
30°-40°	3609.9	8.5
40°-50°	5082.9	12.0
50°-60°	7785.5	18.4
60°-70°	11278.5	26.7
70°-80°	9006.6	21.3
80°-90°	1121.7	2.7
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°	42285.0	100.0
0°-180°	42285.0	100.0



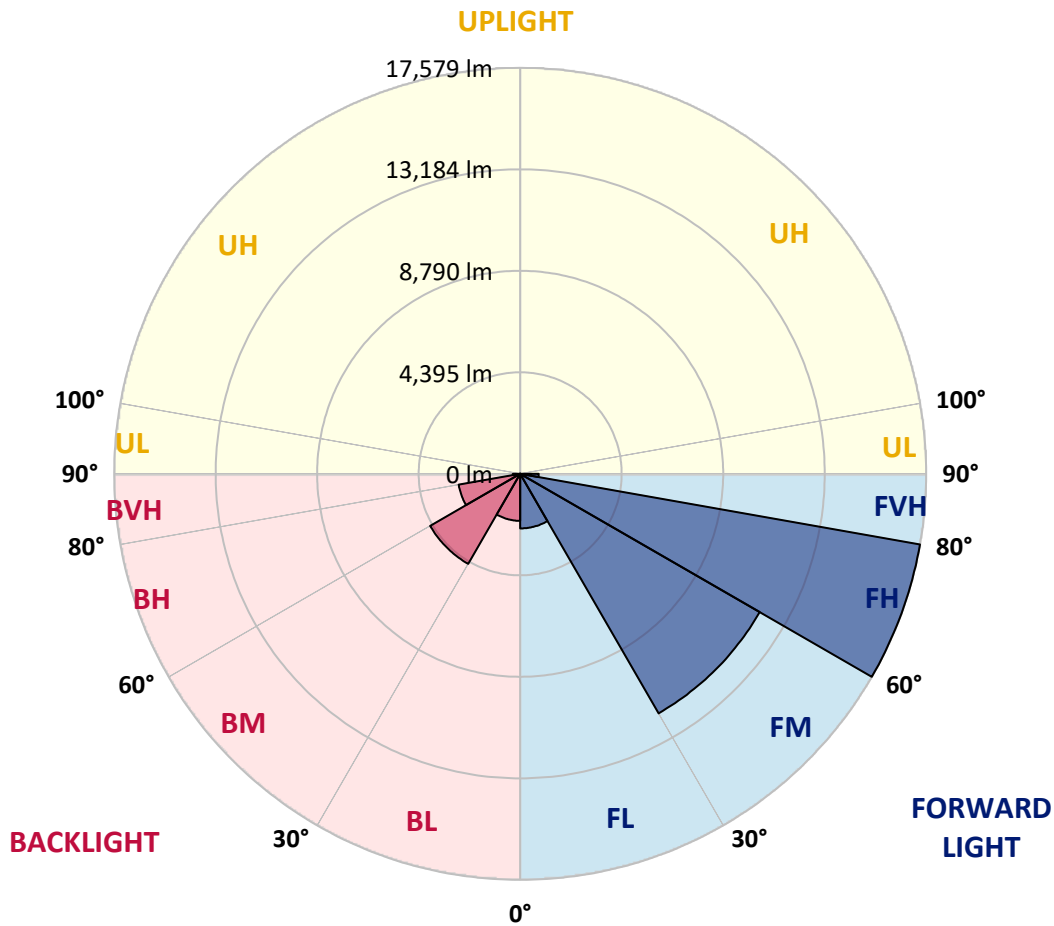
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2364.6	5.6			
FM (30°-60°)	11977.3	28.3			
FH (60°-80°)	17579.1	41.6			G5
FVH (80°-90°)	804.7	1.9			G5
BL (0°-30°)	2035.2	4.8	B3/2500		
BM (30°-60°)	4501.0	10.6	B3/5000		
BH (60°-80°)	2706.0	6.4	B4/5000		G4/5000
BVH (80°-90°)	317.0	0.7			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°	45°	46°	55°	65°	75°
0°	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7
2.5°	4432.8	4461.8	4435.0	4410.5	4399.4	4370.4	4368.2	4350.4	4339.2	4308.1
5°	4742.4	4780.3	4735.7	4686.7	4642.2	4570.9	4562.0	4510.8	4452.8	4386.0
7.5°	5092.1	5125.6	5074.3	5000.8	4922.9	4804.8	4802.6	4709.0	4617.7	4504.1
10°	5397.3	5441.9	5372.8	5272.6	5174.6	5040.9	5025.3	4918.4	4802.6	4655.6
12.5°	5666.9	5698.0	5631.2	5508.7	5395.1	5261.4	5241.4	5123.3	4994.1	4827.1
15°	5880.7	5920.8	5831.7	5700.3	5580.0	5448.6	5430.7	5323.8	5194.6	5018.6
17.5°	6021.0	6054.4	5963.1	5816.1	5700.3	5591.1	5577.8	5488.7	5375.0	5196.8
20°	6074.5	6110.1	6014.4	5865.1	5758.2	5673.5	5666.9	5602.3	5524.3	5361.7
22.5°	6128.0	6161.4	6036.6	5880.7	5787.1	5733.7	5731.5	5689.1	5657.9	5524.3
25°	6344.0	6352.9	6185.9	5960.9	5827.2	5780.5	5778.2	5776.0	5789.4	5684.7
27.5°	6531.1	6528.9	6386.3	6174.7	5967.6	5869.6	5867.3	5889.6	5931.9	5845.1
30°	6805.1	6780.6	6611.3	6390.8	6201.5	6050.0	6036.6	6016.6	6050.0	5980.9
32.5°	7386.5	7308.5	7034.6	6642.5	6395.3	6279.4	6261.6	6136.9	6150.2	6107.9
35°	8219.6	8117.1	7751.8	7119.2	6635.8	6471.0	6462.1	6303.9	6277.2	6239.3
37.5°	9210.9	9083.9	8658.4	7809.7	7050.2	6693.7	6680.4	6537.8	6428.7	6388.6
40°	10206.6	10046.2	9694.2	8651.8	7660.5	7065.7	7023.4	6807.4	6682.6	6615.8
42.5°	11173.3	11039.7	10739.0	9596.2	8413.4	7609.3	7515.7	7145.9	7052.4	6990.0
45°	12028.7	11908.4	11687.9	10605.3	9295.5	8348.8	8257.5	7653.8	7624.9	7624.9
47.5°	12723.7	12697.0	12463.1	11634.4	10335.8	9190.8	9032.7	8359.9	8437.9	8558.2
50°	13494.4	13420.9	13171.4	12648.0	11558.7	10155.3	10026.1	9226.5	9518.3	9847.9
52.5°	14202.8	14242.9	13964.4	13703.8	12939.8	11231.2	11004.0	10248.9	10879.3	11425.0
55°	14931.2	14933.4	14855.4	14819.8	14387.7	12420.7	12171.3	11478.5	12480.9	13158.1
57.5°	15615.0	15619.5	15735.3	16049.4	16067.2	13792.9	13510.0	12988.8	14260.7	14951.2
60°	16225.4	16256.6	16572.9	17308.0	17544.1	15365.6	15098.2	14773.0	16100.6	16795.6
62.5°	16430.3	16543.9	17247.8	18292.5	19003.1	17294.6	17031.7	16838.0	18034.1	18680.1
65°	16082.8	16343.4	17704.5	19105.6	20504.5	19586.7	19326.1	19114.5	20043.4	20651.5
67.5°	15229.7	15566.0	17677.7	19958.7	22326.6	22344.4	22101.6	21604.9	22197.4	22431.3
70°	12982.1	13485.5	16120.7	20277.3	24418.3	26115.6	25881.8	24603.1	24347.0	23215.4
72.5°	8364.4	9041.6	11870.5	17655.5	24883.8	29664.1	29650.7	27309.6	25026.4	21691.8
75°	3051.7	3466.0	5515.4	11082.0	20887.6	29483.7	29570.6	26846.3	22845.6	16755.5
77.5°	1111.5	1216.2	1799.8	4259.1	12846.2	23656.4	23836.9	21462.3	16261.0	8409.0
80°	583.6	641.5	922.2	1652.8	5504.2	14049.1	14332.0	12754.9	7642.7	2532.7
82.5°	323.0	349.7	516.8	897.7	2479.2	6007.7	6177.0	5038.7	2688.6	1073.7
85°	173.7	184.9	242.8	490.1	1211.8	2082.7	2129.5	1505.8	1071.4	630.4
87.5°	51.2	62.4	80.2	155.9	474.5	467.8	478.9	298.5	423.2	318.5
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°
4265.7	0°	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7
4299.1	2.5°	4285.8	4279.1	4254.6	4243.5	4230.1	4227.9	4239.0	4241.2	4243.5	4245.7
4348.2	5°	4325.9	4303.6	4281.3	4268.0	4272.4	4274.6	4296.9	4312.5	4323.6	4332.6
4439.5	7.5°	4403.8	4386.0	4348.2	4345.9	4352.6	4372.7	4401.6	4437.3	4457.3	4472.9
4557.5	10°	4519.7	4486.3	4441.7	4448.4	4461.8	4490.7	4550.9	4579.8	4613.2	4642.2
4702.3	12.5°	4637.7	4608.8	4557.5	4562.0	4584.3	4635.5	4693.4	4729.1	4751.3	4773.6
4858.3	15°	4791.4	4740.2	4684.5	4684.5	4724.6	4780.3	4807.0	4836.0	4849.3	4873.9
5025.3	17.5°	4949.6	4882.8	4809.3	4804.8	4853.8	4880.5	4896.1	4900.6	4905.0	4931.8
5187.9	20°	5107.7	5034.2	4929.5	4920.6	4931.8	4927.3	4925.1	4920.6	4927.3	4960.7
5355.0	22.5°	5263.7	5179.0	5034.2	4994.1	4963.0	4920.6	4918.4	4916.2	4920.6	4954.0
5535.4	25°	5446.3	5343.9	5150.1	5029.8	4925.1	4867.2	4873.9	4876.1	4880.5	4907.3
5722.5	27.5°	5644.6	5531.0	5257.0	5018.6	4829.3	4789.2	4778.1	4784.7	4800.3	4842.7
5909.7	30°	5842.8	5709.2	5355.0	4974.1	4709.0	4653.3	4617.7	4633.3	4682.3	4724.6
6072.3	32.5°	6023.3	5889.6	5433.0	4876.1	4555.3	4468.4	4421.7	4441.7	4490.7	4506.3
6252.7	35°	6234.9	6083.4	5466.4	4720.2	4388.2	4254.6	4192.2	4163.3	4187.8	4172.2
6464.3	37.5°	6471.0	6312.8	5461.9	4515.2	4192.2	4038.5	3951.7	3842.5	3791.3	3737.8
6776.2	40°	6820.7	6593.5	5408.5	4268.0	3949.4	3809.1	3653.2	3468.3	3352.4	3247.7
7279.6	42.5°	7297.4	6983.3	5310.4	3996.2	3675.4	3544.0	3332.4	3116.3	2933.7	2759.9
8043.6	45°	8008.0	7493.4	5187.9	3706.6	3379.2	3250.0	3020.5	2777.7	2570.6	2347.8
9128.4	47.5°	9032.7	8179.5	5072.1	3376.9	3067.3	2949.3	2742.1	2517.1	2272.1	2056.0
10696.6	50°	10440.5	9164.1	4965.2	3056.2	2759.9	2670.8	2506.0	2276.5	2029.3	1855.5
12534.4	52.5°	12231.4	10502.8	4920.6	2746.6	2472.6	2439.2	2307.7	2093.9	1860.0	1713.0
14677.2	55°	14287.4	12104.4	4920.6	2450.3	2220.9	2232.0	2140.7	1942.4	1739.7	1608.3
16887.0	57.5°	16385.8	13726.1	4831.5	2176.3	2007.0	2053.8	1995.9	1822.1	1639.5	1503.6
19210.3	60°	18319.3	15084.9	4470.7	1926.8	1817.7	1891.2	1853.3	1704.1	1481.3	1367.7
21152.7	62.5°	19805.0	15851.2	3775.7	1728.6	1661.7	1746.4	1726.3	1548.1	1452.4	1405.6
22747.6	65°	20549.0	15726.4	2886.9	1552.6	1530.3	1661.7	1619.4	1612.7	1537.0	1483.5
23266.6	67.5°	20092.4	14652.7	2093.9	1423.4	1454.6	1583.8	1746.4	1773.1	1632.8	1528.1
21805.4	70°	18089.8	12710.3	1559.3	1300.9	1358.8	1586.0	1991.4	1855.5	1601.6	1479.1
17488.4	72.5°	13761.7	9478.2	1209.6	1171.7	1234.1	1597.1	2100.6	1817.7	1512.5	1635.0
10894.9	75°	7869.9	5203.5	971.2	1013.5	1078.1	1492.4	2044.9	1719.7	1443.4	1501.4
4317.0	77.5°	3000.5	2000.3	801.9	857.6	866.5	1303.1	1955.8	1713.0	1374.4	1341.0
1294.2	80°	1040.3	781.9	663.8	681.6	670.5	1158.3	1875.6	1490.2	1124.9	1006.8
534.6	82.5°	425.5	389.8	525.7	503.4	476.7	899.9	1514.7	1218.5	920.0	813.1
258.4	85°	184.9	247.3	347.5	305.2	276.2	623.7	1214.0	1031.3	777.4	670.5
84.6	87.5°	37.9	93.6	147.0	138.1	142.6	416.5	862.1	732.9	550.2	412.1
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>
4265.7
4254.6
4337.0
4477.3
4635.5
4782.5
4882.8
4940.7
4974.1
4976.3
4942.9
4885.0
4771.4
4562.0
4221.2
3771.2
3254.4
2744.3
2321.1
2031.5
1844.4
1701.8
1594.9
1481.3
1349.9
1390.0
1465.7
1510.3
1459.0
1621.6
1501.4
1222.9
973.4
804.1
668.3
323.0
0.0

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