

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: P943009

Luminaire Tested: **GALN-SB7B-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943009
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-SB7B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41875 lumens
Efficiency: N/A
Efficacy: 163.1 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

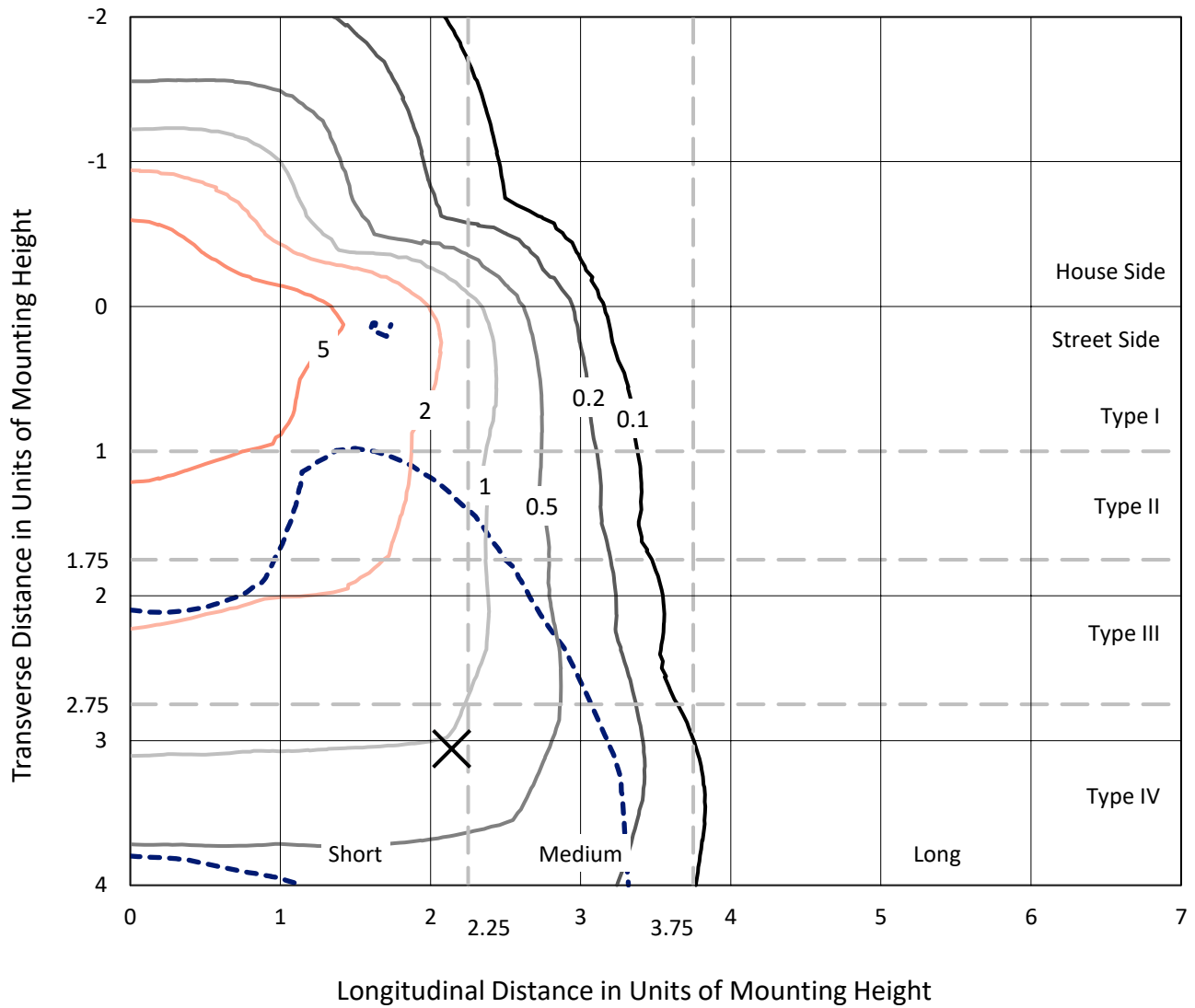
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

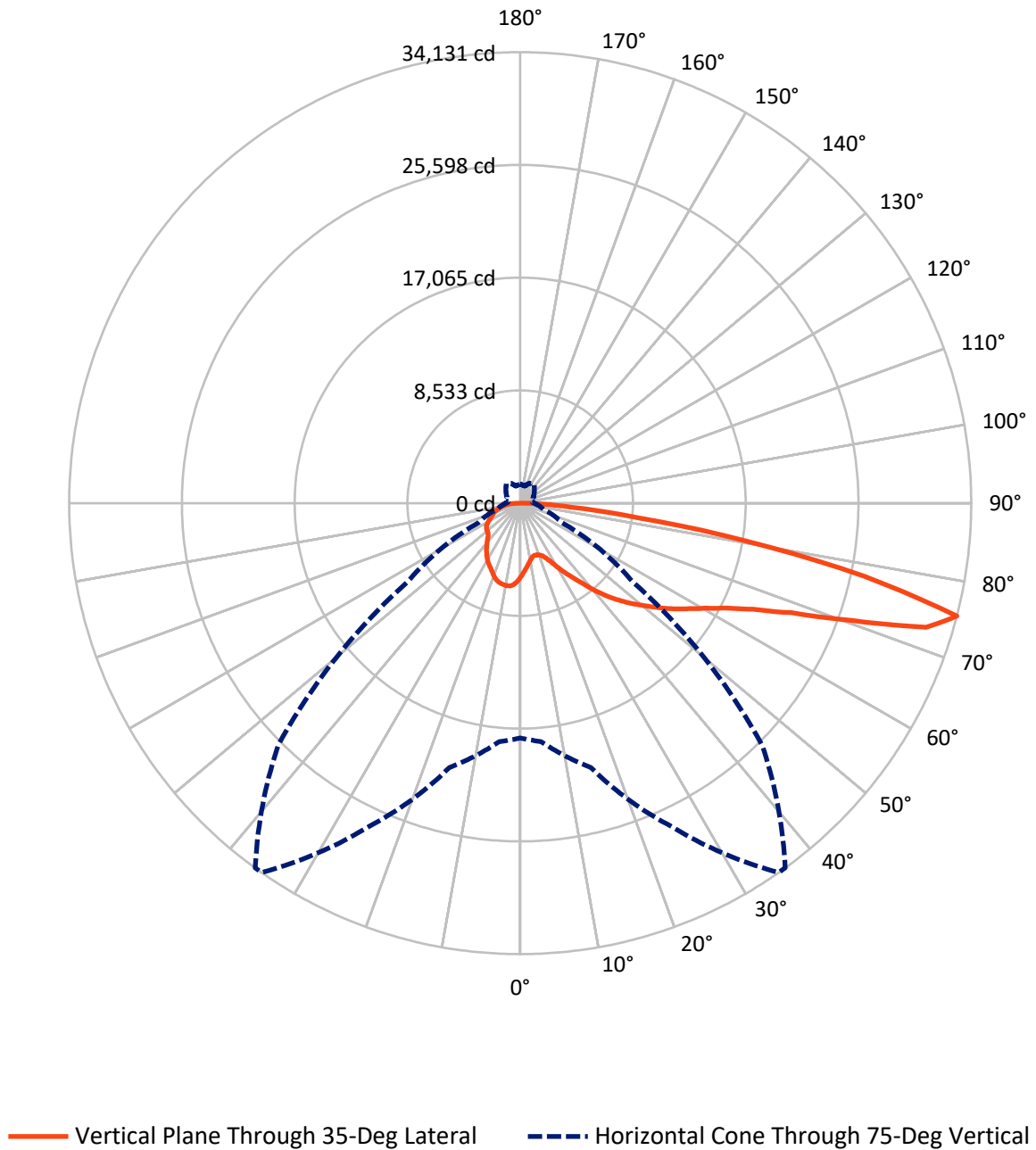
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	9965.2	0.0	9965.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	31909.8	0.0	31909.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	41875.0	0.0	41875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.3	1.3
10°-20°	1523.9	3.6
20°-30°	2559.1	6.1
30°-40°	3977.1	9.5
40°-50°	5903.1	14.1
50°-60°	8149.6	19.5
60°-70°	9887.4	23.6
70°-80°	8171.2	19.5
80°-90°	1175.3	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°	41875.0	100.0
0°-180°	41875.0	100.0

Coefficient of Utilization



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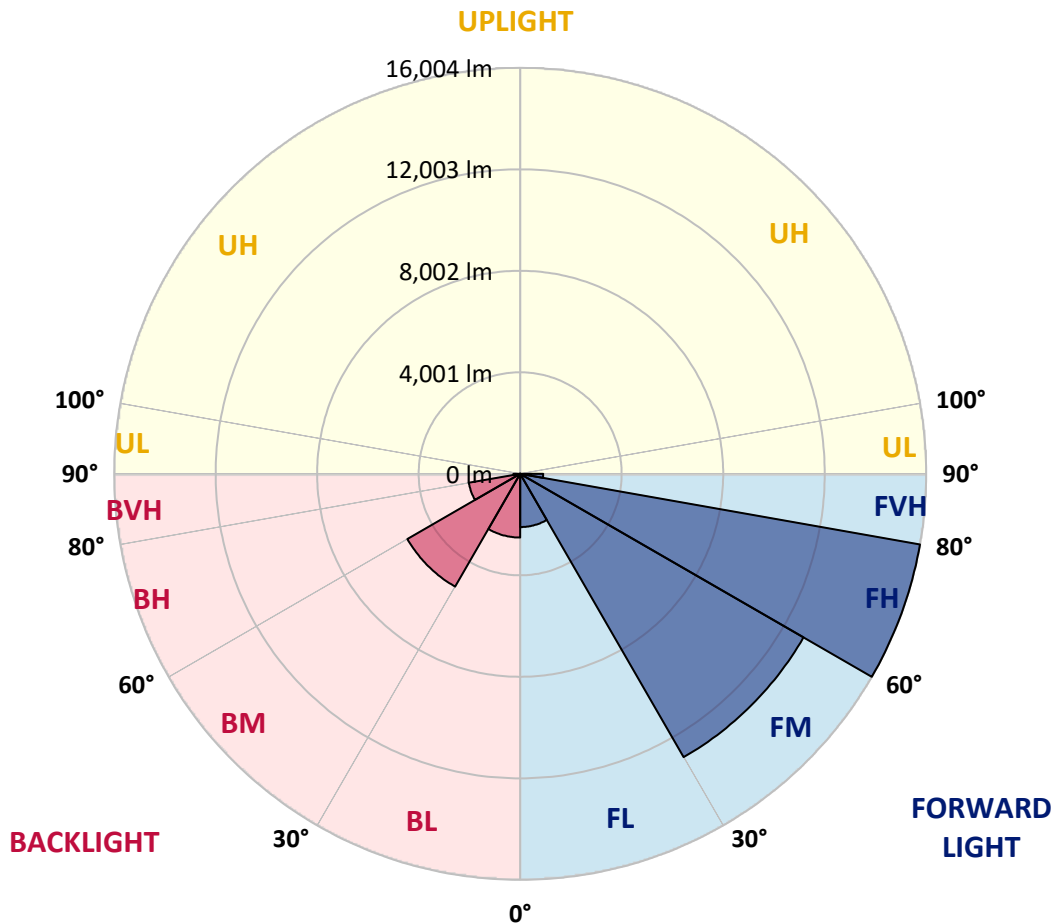
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2099.9	5.0			
FM (30°-60°)	12895.2	30.8			
FH (60°-80°)	16004.0	38.2			G5
FVH (80°-90°)	910.6	2.2			G5
BL (0°-30°)	2511.4	6.0	B4/5000		
BM (30°-60°)	5134.7	12.3	B4/8500		
BH (60°-80°)	2054.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	264.6	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°	5580.1	5580.1	5580.1	5580.1	5580.1	5580.1	5580.1	5580.1	5580.1	5580.1
2.5°	5145.5	5177.2	5190.8	5184.0	5217.9	5213.4	5260.9	5319.8	5401.3	5480.5
5°	4749.3	4783.3	4812.7	4839.9	4905.5	4925.9	5000.6	5113.8	5263.2	5414.9
7.5°	4380.3	4409.8	4455.0	4504.8	4615.8	4636.1	4760.7	4937.2	5145.5	5367.3
10°	4079.3	4108.7	4156.2	4212.8	4350.9	4375.8	4534.3	4769.7	5041.4	5322.1
12.5°	3950.2	3959.3	3986.5	4043.0	4163.0	4178.9	4353.2	4622.6	4939.5	5288.1
15°	3943.4	3961.6	3963.8	3993.2	4092.8	4099.6	4260.4	4527.5	4876.1	5281.3
17.5°	4011.4	4024.9	4004.6	4022.7	4106.4	4117.7	4244.5	4482.2	4855.7	5310.7
20°	4192.5	4203.8	4142.7	4117.7	4178.9	4187.9	4312.4	4511.6	4876.1	5371.9
22.5°	4577.3	4584.1	4434.7	4332.8	4337.3	4341.9	4450.5	4631.6	4955.3	5482.8
25°	5177.2	5172.7	4935.0	4738.0	4624.8	4599.9	4672.4	4826.3	5088.9	5629.9
27.5°	5878.9	5845.0	5607.3	5313.0	5066.3	5030.0	5014.2	5079.8	5279.0	5824.6
30°	6671.3	6639.6	6383.8	5998.9	5657.1	5598.2	5448.8	5414.9	5562.0	6089.5
32.5°	7540.5	7520.2	7214.5	6748.2	6290.9	6223.0	5971.8	5881.2	5996.7	6490.2
35°	8269.5	8251.3	7997.8	7517.9	6958.7	6875.0	6619.2	6517.3	6576.2	7004.0
37.5°	8928.2	8919.1	8701.8	8323.8	7746.5	7644.7	7357.2	7323.2	7311.9	7680.9
40°	9539.4	9516.8	9290.4	9091.2	8663.3	8570.5	8317.0	8287.6	8201.5	8513.9
42.5°	10216.3	10157.4	9829.2	9736.4	9620.9	9543.9	9392.3	9396.8	9206.6	9453.4
45°	10768.6	10734.7	10397.4	10343.0	10467.5	10435.9	10567.2	10601.1	10232.1	10438.1
47.5°	11361.7	11330.0	11044.8	11006.3	11343.6	11352.7	11816.7	11828.1	11232.7	11461.3
50°	12092.9	12047.6	11764.7	11812.2	12190.3	12224.2	13073.1	12996.1	12154.0	12500.4
52.5°	12575.1	12602.3	12541.1	12618.1	13134.2	13165.9	14309.1	14112.2	13066.3	13525.9
55°	12930.5	12984.8	13175.0	13351.6	14130.3	14162.0	15474.9	15173.9	13822.4	14476.6
57.5°	13387.8	13310.8	13666.2	14010.3	15076.5	15160.3	16609.1	16197.1	14492.5	15296.1
60°	14044.3	13989.9	14266.1	14775.5	16136.0	16269.5	17808.9	17118.4	14983.7	15945.8
62.5°	15375.3	15239.5	15282.5	15733.0	17471.6	17648.1	19162.6	17922.1	15228.2	16199.3
65°	17365.2	17132.0	16914.7	17227.1	19352.7	19527.0	20690.6	18553.6	15137.7	15708.1
67.5°	19871.1	19640.2	19373.1	19667.4	22123.6	22261.7	22576.3	18909.0	14424.6	13815.6
70°	21937.9	21851.9	22171.1	23382.2	26549.2	26553.7	24994.0	18614.8	12471.0	9795.2
72.5°	21664.0	21612.0	23293.9	27038.1	32127.0	32007.1	27282.6	16387.2	8400.8	4418.8
75°	17772.6	18109.9	20715.5	26972.5	34130.5	34114.6	25881.4	10417.7	3474.8	1831.4
77.5°	9530.4	10064.6	13448.9	19914.1	26644.3	27044.9	18196.0	3644.6	1491.8	1172.6
80°	3108.1	3574.5	5360.5	10139.3	17313.1	17238.4	7798.6	1430.7	1020.9	830.8
82.5°	1319.8	1374.1	2395.0	4787.8	8885.2	8747.1	2483.3	821.7	717.6	568.2
85°	516.1	577.3	1057.2	2213.9	3848.4	3764.6	896.4	407.5	459.5	371.3
87.5°	169.8	206.0	378.0	758.4	1197.5	1154.5	219.6	140.4	199.2	169.8
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°
5580.1	0°	5580.1	5580.1	5580.1	5580.1	5580.1	5580.1	5580.1	5580.1	5580.1	5580.1
5596.0	2.5°	5627.7	5663.9	5706.9	5770.3	5824.6	5869.9	5917.4	5946.9	5958.2	5992.1
5605.0	5°	5668.4	5747.6	5854.0	5958.2	6060.0	6121.2	6175.5	6202.7	6227.6	6245.7
5629.9	7.5°	5736.3	5838.2	6005.7	6141.5	6227.6	6277.4	6313.6	6304.5	6313.6	6318.1
5657.1	10°	5795.2	5937.8	6137.0	6266.0	6331.7	6334.0	6324.9	6293.2	6277.4	6279.6
5697.8	12.5°	5865.4	6023.8	6238.9	6347.5	6365.6	6315.8	6277.4	6223.0	6202.7	6193.6
5759.0	15°	5960.4	6141.5	6349.8	6390.5	6345.3	6281.9	6216.2	6128.0	6082.7	6046.5
5863.1	17.5°	6075.9	6275.1	6435.8	6406.4	6309.1	6204.9	6098.5	5965.0	5872.1	5833.7
6005.7	20°	6236.6	6415.4	6501.5	6372.4	6225.3	6066.8	5885.7	5722.7	5636.7	5598.2
6186.8	22.5°	6431.3	6603.3	6564.9	6313.6	6105.3	5851.8	5625.4	5505.4	5462.4	5435.2
6420.0	25°	6664.5	6811.6	6610.1	6227.6	5908.4	5566.5	5392.2	5353.8	5333.4	5313.0
6705.2	27.5°	6967.8	7047.0	6644.1	6100.8	5600.5	5263.2	5199.8	5206.6	5199.8	5165.9
7101.4	30°	7368.5	7352.6	6675.8	5894.8	5247.4	4989.3	4993.8	5023.2	5027.8	5005.1
7653.7	32.5°	7895.9	7735.2	6691.6	5627.7	4910.1	4749.3	4753.9	4785.6	4808.2	4769.7
8375.8	35°	8534.3	8181.2	6666.7	5292.6	4649.7	4520.7	4486.7	4495.8	4502.6	4466.4
9251.9	37.5°	9279.1	8681.5	6555.8	4921.4	4434.7	4296.6	4224.1	4163.0	4126.8	4092.8
10243.4	40°	10096.3	9227.0	6352.1	4559.2	4194.7	4058.9	3950.2	3834.8	3712.5	3667.3
11293.8	42.5°	10952.0	9788.4	6105.3	4212.8	3918.5	3807.6	3692.2	3524.6	3341.3	3248.5
12384.9	45°	11839.4	10363.4	5863.1	3871.0	3635.6	3588.0	3454.5	3253.0	3053.8	2936.1
13478.3	47.5°	12708.7	10906.7	5507.7	3526.9	3370.7	3422.8	3318.6	3133.0	2911.2	2725.5
14562.7	50°	13539.4	11416.1	4925.9	3178.3	3155.7	3373.0	3273.4	3006.3	2752.7	2515.0
15626.6	52.5°	14363.5	11828.1	4181.1	2861.4	3040.2	3359.4	3214.5	2920.2	2610.1	2361.1
16627.2	55°	15062.9	12040.9	3463.5	2589.7	2872.7	3243.9	3144.3	2818.4	2408.6	2143.8
17313.1	57.5°	15461.4	11868.8	2865.9	2322.6	2641.8	3053.8	3024.4	2601.0	2168.7	1964.9
17446.7	60°	15289.3	11171.6	2376.9	2089.4	2422.2	2847.8	2816.1	2386.0	1985.3	1792.9
16731.3	62.5°	14340.8	9842.8	1989.8	1885.7	2223.0	2637.3	2607.8	2220.7	1845.0	1659.3
14832.0	65°	12430.2	8006.9	1688.8	1715.9	2021.5	2383.7	2426.7	2082.6	1734.0	1552.9
11474.9	67.5°	9480.6	5799.7	1453.3	1568.8	1824.6	2134.7	2259.2	1983.0	1641.2	1469.2
6639.6	70°	5403.6	3293.7	1254.1	1426.2	1650.3	1903.8	2130.2	1903.8	1541.6	1399.0
2487.9	72.5°	2048.7	1512.2	1084.3	1283.5	1482.8	1709.1	1987.6	1779.3	1426.2	1319.8
1285.8	75°	1093.4	921.3	912.3	1116.0	1290.3	1519.0	1808.7	1657.1	1340.1	1394.5
889.7	77.5°	744.8	652.0	762.9	955.3	1079.8	1308.4	1618.6	1471.4	1161.3	1156.8
615.7	80°	516.1	461.8	620.3	769.7	835.3	1100.2	1412.6	1263.2	946.2	882.9
380.3	82.5°	310.1	301.1	464.1	575.0	590.8	848.9	1170.4	1059.4	774.2	674.6
226.4	85°	169.8	178.8	296.6	337.3	344.1	593.1	916.8	819.5	595.4	500.3
81.5	87.5°	47.5	61.1	108.7	133.6	165.3	307.9	545.6	486.7	298.8	208.3
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>
5580.1
5989.9
6250.2
6324.9
6284.2
6189.1
6057.8
5835.9
5593.7
5439.8
5313.0
5172.7
5016.5
4787.8
4491.3
4115.5
3687.6
3259.8
2927.0
2705.2
2494.6
2333.9
2121.1
1937.8
1765.7
1629.9
1523.5
1442.0
1380.9
1301.7
1439.7
1066.2
844.4
679.1
504.8
208.3
0.0

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