

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: P943582

Luminaire Tested: **GALN-SB8A-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34393 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

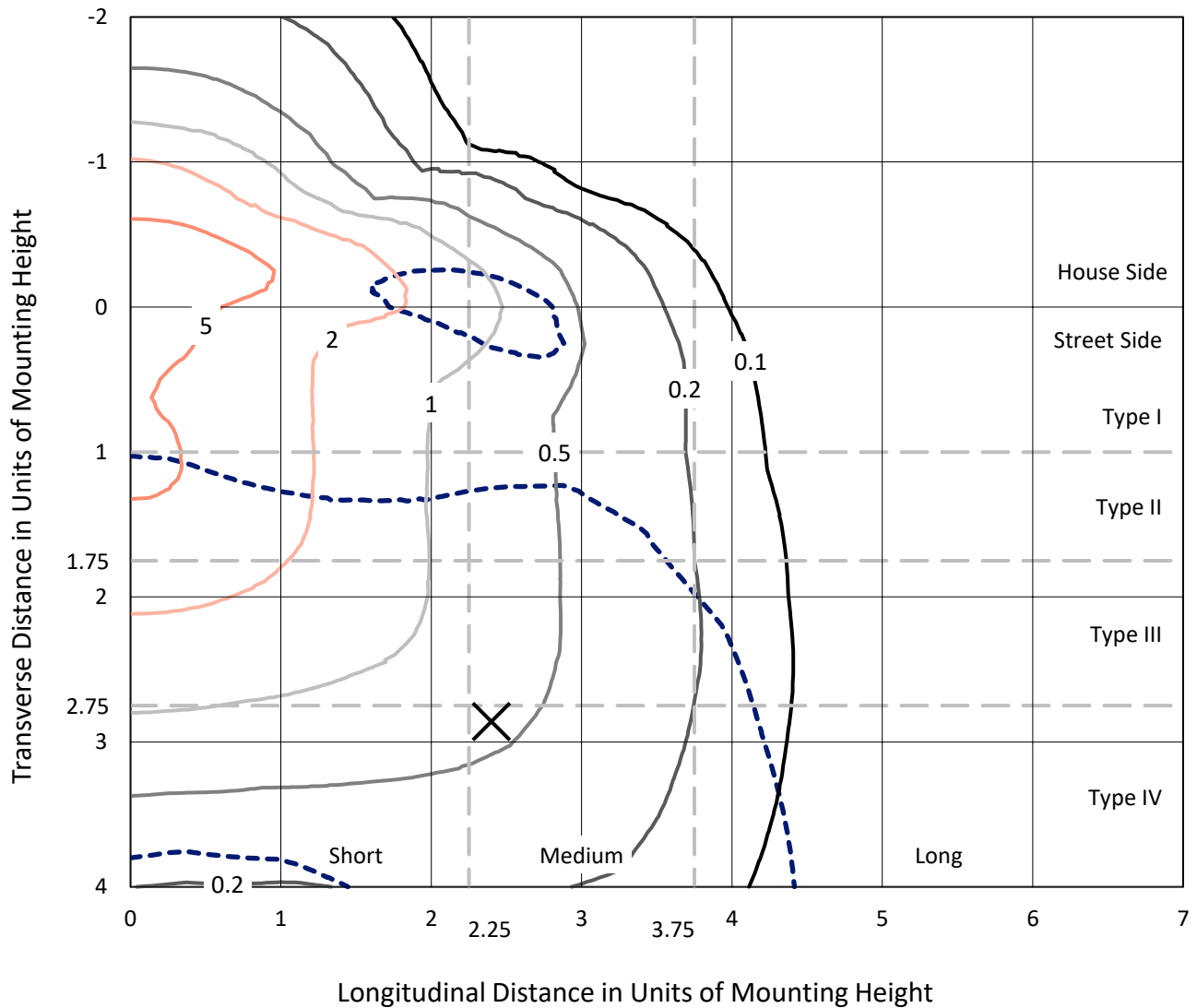
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

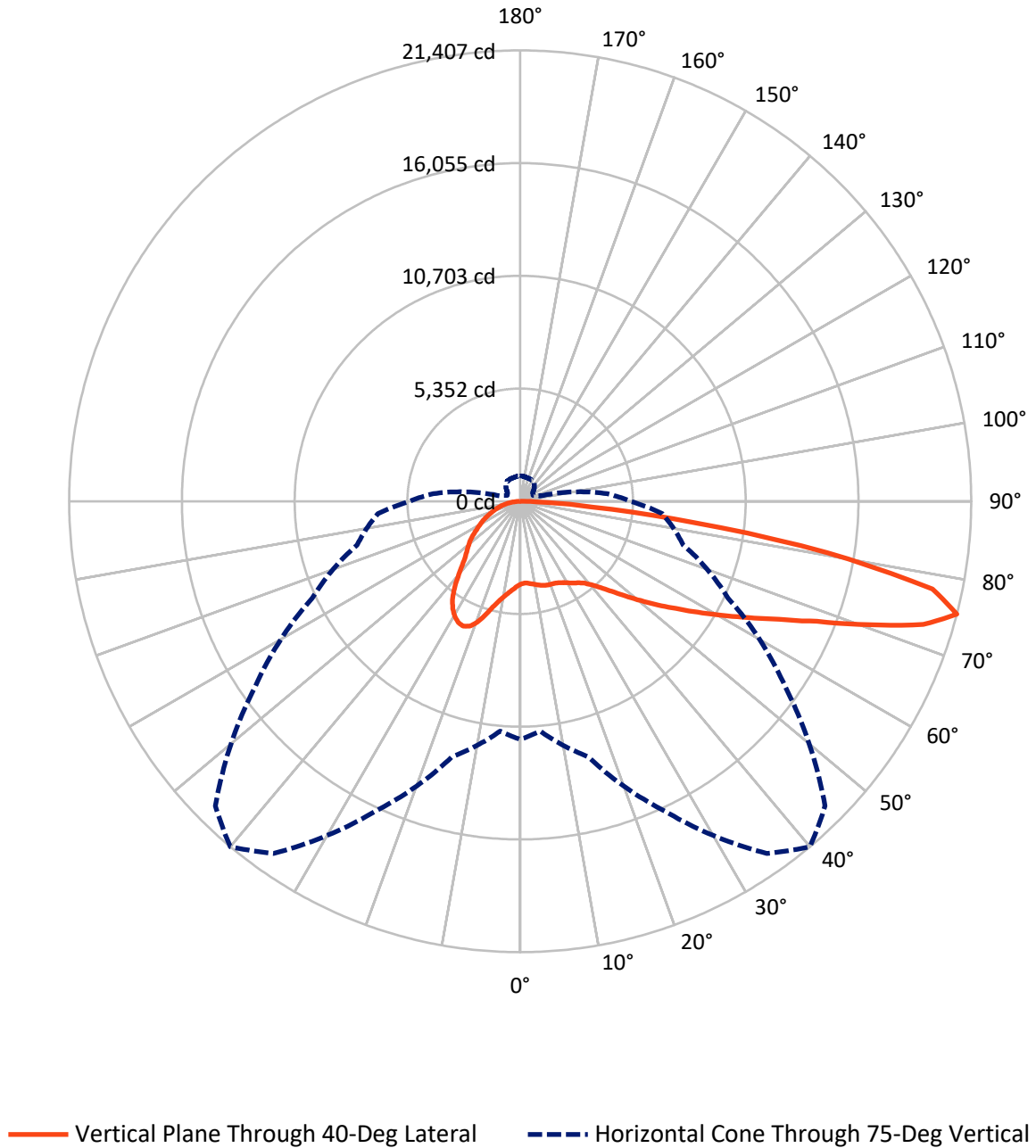
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10656.1	0.0	10656.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	23736.9	0.0	23736.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	34393.0	0.0	34393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.6	1.1
10°-20°	1318.1	3.8
20°-30°	2406.7	7.0
30°-40°	3413.3	9.9
40°-50°	4609.0	13.4
50°-60°	6200.4	18.0
60°-70°	7869.7	22.9
70°-80°	7142.2	20.8
80°-90°	1041.1	3.0
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°	34393.0	100.0
0°-180°	34393.0	100.0

Coefficient of Utilization



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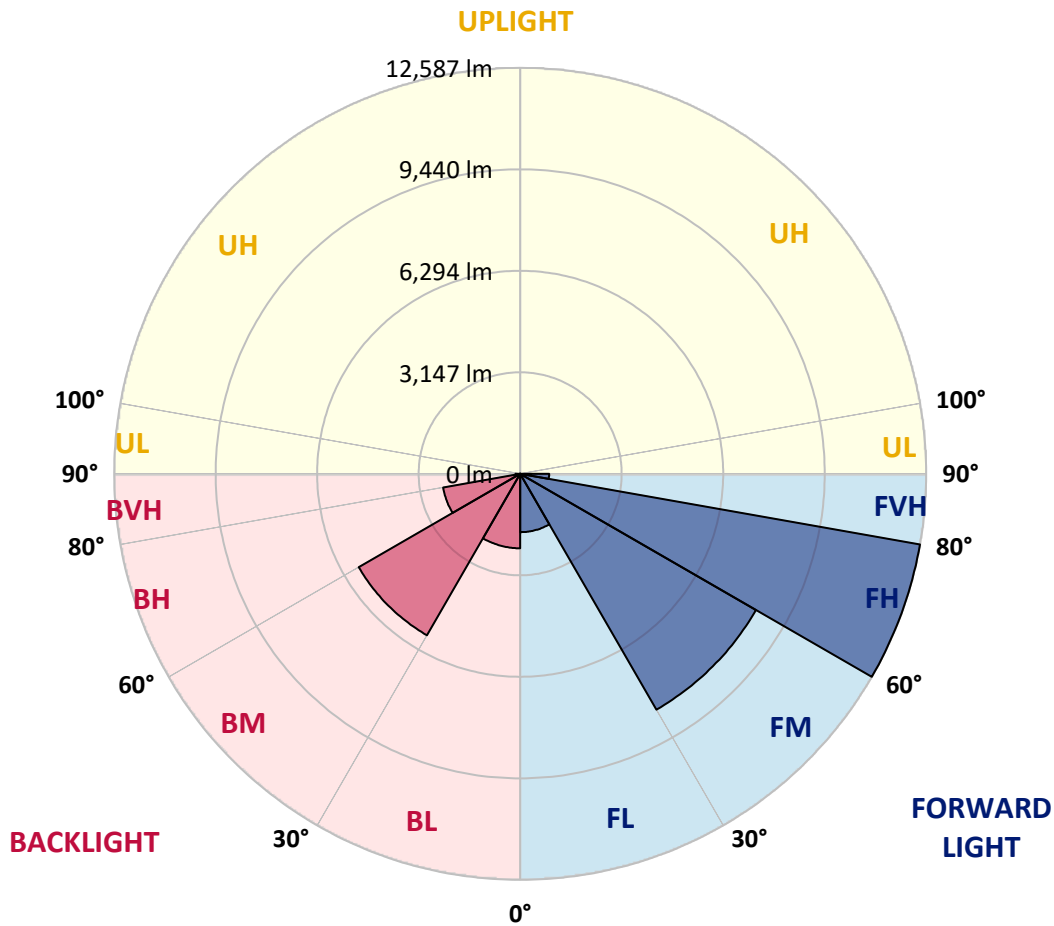
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1809.1	5.3			
FM (30°-60°)	8442.7	24.5			
FH (60°-80°)	12587.3	36.6			G5
FVH (80°-90°)	897.8	2.6			G5
BL (0°-30°)	2308.2	6.7	B3/2500		
BM (30°-60°)	5780.0	16.8	B4/8500		
BH (60°-80°)	2424.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	143.3	0.4			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9
2.5°	3872.7	3894.6	3889.1	3881.8	3881.8	3883.6	3881.8	3894.6	3907.3	3920.1
5°	3912.8	3934.7	3923.8	3914.6	3907.3	3905.5	3900.1	3898.2	3905.5	3921.9
7.5°	3991.3	4013.1	3996.7	3980.3	3965.7	3958.4	3951.1	3940.2	3934.7	3943.8
10°	4078.8	4100.7	4080.6	4051.5	4027.7	4018.6	4011.3	4000.4	3993.1	3998.6
12.5°	4166.4	4188.3	4160.9	4120.8	4089.8	4084.3	4075.2	4071.5	4069.7	4067.9
15°	4248.5	4266.7	4232.0	4184.6	4151.8	4142.7	4133.5	4139.0	4148.1	4159.1
17.5°	4312.3	4330.6	4279.5	4217.5	4186.4	4182.8	4177.3	4195.6	4221.1	4248.5
20°	4370.7	4388.9	4323.3	4239.3	4202.9	4202.9	4204.7	4243.0	4279.5	4319.6
22.5°	4452.8	4467.4	4387.1	4272.2	4219.3	4222.9	4237.5	4275.8	4321.4	4376.2
25°	4575.0	4585.9	4487.4	4334.2	4274.0	4284.9	4297.7	4316.0	4359.7	4423.6
27.5°	4772.0	4781.1	4651.6	4443.6	4352.4	4370.7	4388.9	4376.2	4396.2	4450.9
30°	5049.3	5054.7	4890.6	4615.1	4485.6	4494.7	4498.4	4445.5	4407.2	4450.9
32.5°	5377.6	5375.8	5180.6	4823.1	4637.0	4627.9	4596.9	4492.9	4403.5	4441.8
35°	5886.6	5866.5	5614.8	5114.9	4808.5	4751.9	4679.0	4545.8	4421.8	4432.7
37.5°	6729.3	6667.3	6318.9	5592.9	5063.9	4919.8	4812.1	4631.5	4461.9	4429.1
40°	7679.7	7601.3	7218.2	6247.7	5446.9	5215.3	5042.0	4753.8	4527.6	4445.5
42.5°	8807.0	8695.8	8283.5	7019.4	5932.2	5596.5	5335.7	4908.8	4624.2	4498.4
45°	10191.6	10043.8	9460.1	7889.5	6543.3	6096.3	5747.9	5144.1	4772.0	4600.5
47.5°	11590.7	11627.2	10797.2	8885.5	7276.6	6712.9	6264.2	5498.0	4987.2	4764.7
50°	13077.4	13102.9	12127.0	9989.1	8108.4	7409.7	6844.2	5893.9	5286.4	4998.2
52.5°	14237.6	14241.2	13334.6	11143.8	8974.9	8175.9	7469.9	6346.2	5633.0	5308.3
55°	14963.6	14954.5	14181.0	12236.5	9970.8	8980.3	8163.1	6860.7	6056.2	5673.1
57.5°	15490.8	15463.4	14764.7	13175.9	11032.5	9930.7	8947.5	7444.4	6556.0	6107.3
60°	15691.4	15675.0	15160.6	13987.6	12148.9	10981.4	9852.3	8097.4	7123.3	6619.9
62.5°	15768.0	15799.0	15549.1	14773.9	13343.7	12145.2	10846.4	8878.2	7761.8	7200.0
65°	16038.0	16094.5	16043.5	15802.7	14693.6	13507.9	12165.3	9806.7	8458.6	7822.0
67.5°	16572.5	16629.0	16650.9	17034.0	16342.6	15206.2	13810.7	10963.2	9274.0	8467.7
70°	16559.7	16543.3	16930.0	18013.6	18407.6	17557.5	16028.9	12386.0	10246.3	9004.0
72.5°	15073.0	14941.7	15855.6	18002.6	20125.9	20012.8	18737.8	14221.1	11085.4	9069.7
75°	11308.0	10957.7	12572.1	16224.1	20412.3	21406.5	20459.8	15359.4	10886.6	8013.5
77.5°	4835.8	4483.8	6386.4	12010.3	18268.9	20011.0	18880.0	13400.3	8690.3	5299.2
80°	1266.0	1264.1	1930.0	5445.1	12424.3	14777.5	12964.3	8653.8	4965.4	1893.5
82.5°	523.5	510.8	709.6	2117.8	6070.8	8292.6	6767.6	3859.9	1793.1	512.6
85°	195.2	193.4	344.8	731.5	2141.6	3420.3	2475.4	986.9	446.9	249.9
87.5°	54.7	52.9	74.8	253.6	521.7	791.7	423.2	162.4	125.9	98.5
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°
3932.9	0°	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9
3940.2	2.5°	3945.7	3954.8	3971.2	3984.0	4000.4	4018.6	4044.2	4060.6	4077.0	4087.9
3949.3	5°	3962.1	3982.1	4024.1	4066.0	4115.3	4160.9	4213.8	4252.1	4283.1	4292.2
3982.1	7.5°	3998.6	4031.4	4102.5	4173.7	4252.1	4326.9	4403.5	4469.2	4522.1	4542.2
4040.5	10°	4062.4	4106.2	4206.5	4306.8	4410.8	4525.7	4624.2	4719.1	4793.9	4824.9
4109.8	12.5°	4142.7	4197.4	4328.7	4467.4	4611.5	4770.2	4897.9	5014.6	5107.6	5149.6
4206.5	15°	4246.6	4317.8	4485.6	4671.7	4883.3	5104.0	5266.3	5395.9	5499.8	5550.9
4306.8	17.5°	4359.7	4454.6	4666.2	4947.1	5249.9	5540.0	5729.7	5824.5	5932.2	5981.4
4399.9	20°	4469.2	4585.9	4888.7	5297.4	5700.5	6008.8	6162.0	6187.5	6194.8	6200.3
4487.4	22.5°	4582.3	4739.2	5167.8	5738.8	6171.1	6384.6	6406.4	6297.0	6143.8	6072.6
4573.2	25°	4706.3	4914.3	5532.7	6225.9	6576.1	6601.6	6433.8	6167.5	5877.4	5744.3
4642.5	27.5°	4826.7	5116.8	5970.5	6691.0	6868.0	6643.6	6282.4	5904.8	5554.6	5414.1
4691.7	30°	4947.1	5348.4	6453.9	7097.8	7001.1	6539.6	6043.4	5622.1	5270.0	5122.2
4735.5	32.5°	5069.3	5618.4	7010.2	7391.5	6977.4	6318.9	5746.1	5304.7	4994.5	4839.5
4773.8	35°	5208.0	5950.4	7537.4	7552.0	6818.7	5994.2	5353.9	4925.2	4655.3	4531.2
4819.4	37.5°	5388.6	6371.8	8002.6	7592.1	6541.4	5518.1	4866.9	4476.5	4253.9	4197.4
4886.9	40°	5612.9	6878.9	8358.3	7528.3	6131.0	4939.8	4334.2	4022.3	3896.4	3909.2
4978.1	42.5°	5904.8	7446.2	8608.2	7364.1	5560.0	4343.3	3867.2	3728.6	3788.8	3839.9
5114.9	45°	6284.2	8035.4	8763.3	7085.0	4914.3	3838.0	3591.8	3624.6	3670.2	3675.7
5335.7	47.5°	6769.5	8631.9	8865.4	6663.7	4255.8	3482.3	3416.6	3423.9	3414.8	3376.5
5665.8	50°	7375.1	9212.0	8956.6	6105.5	3695.7	3259.8	3172.2	3146.7	3020.8	2896.8
6105.5	52.5°	8064.6	9744.7	8994.9	5412.3	3259.8	3073.7	2931.4	2770.9	2535.6	2497.3
6658.2	55°	8830.8	10237.2	8896.4	4560.4	2893.1	2834.7	2619.5	2426.1	2400.6	2367.8
7386.0	57.5°	9746.5	10768.0	8695.8	3610.0	2517.3	2555.6	2345.9	2367.8	2322.2	2271.1
8321.8	60°	10747.9	11317.1	8343.7	2743.5	2128.8	2207.2	2274.7	2272.9	2260.1	2218.2
9308.7	62.5°	11649.1	11678.3	7650.5	2101.4	1787.7	1937.3	2121.5	2119.7	2108.7	2085.0
10339.3	65°	12185.4	11623.5	6494.0	1654.5	1506.8	1714.7	1913.5	1928.1	1930.0	1928.1
11114.6	67.5°	12090.5	10983.3	4907.0	1317.0	1275.1	1488.5	1707.4	1727.5	1742.1	1745.7
11213.1	70°	11017.9	9576.8	3199.6	1050.7	1069.0	1289.7	1512.2	1532.3	1545.1	1559.7
9730.1	72.5°	8588.1	7041.3	1831.5	850.1	888.4	1118.2	1318.9	1342.6	1349.9	1377.2
6771.3	75°	5233.5	4140.8	988.7	669.5	729.7	955.9	1127.3	1154.7	1167.5	1200.3
3325.4	77.5°	2488.2	1793.1	563.7	521.7	587.4	780.7	952.2	983.2	948.6	966.8
917.6	80°	840.9	665.8	355.7	397.7	448.7	609.3	762.5	793.5	720.5	716.9
304.6	82.5°	293.7	270.0	226.2	264.5	290.0	436.0	576.4	616.6	536.3	534.5
136.8	85°	114.9	109.4	125.9	144.1	173.3	268.2	379.4	399.5	330.2	266.3
40.1	87.5°	23.7	25.5	31.0	32.8	52.9	93.0	136.8	167.8	133.2	113.1
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>
3932.9
4080.6
4295.9
4544.0
4826.7
5149.6
5547.3
5979.6
6214.9
6092.7
5764.3
5430.5
5138.7
4859.6
4558.6
4237.5
3953.0
3887.3
3712.2
3405.7
2913.2
2510.0
2373.2
2262.0
2203.6
2075.9
1928.1
1749.4
1567.0
1388.2
1203.9
952.2
709.6
508.9
262.7
104.0
0.0

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