

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: P943925

Luminaire Tested: **GALN-SB8C-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57395 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

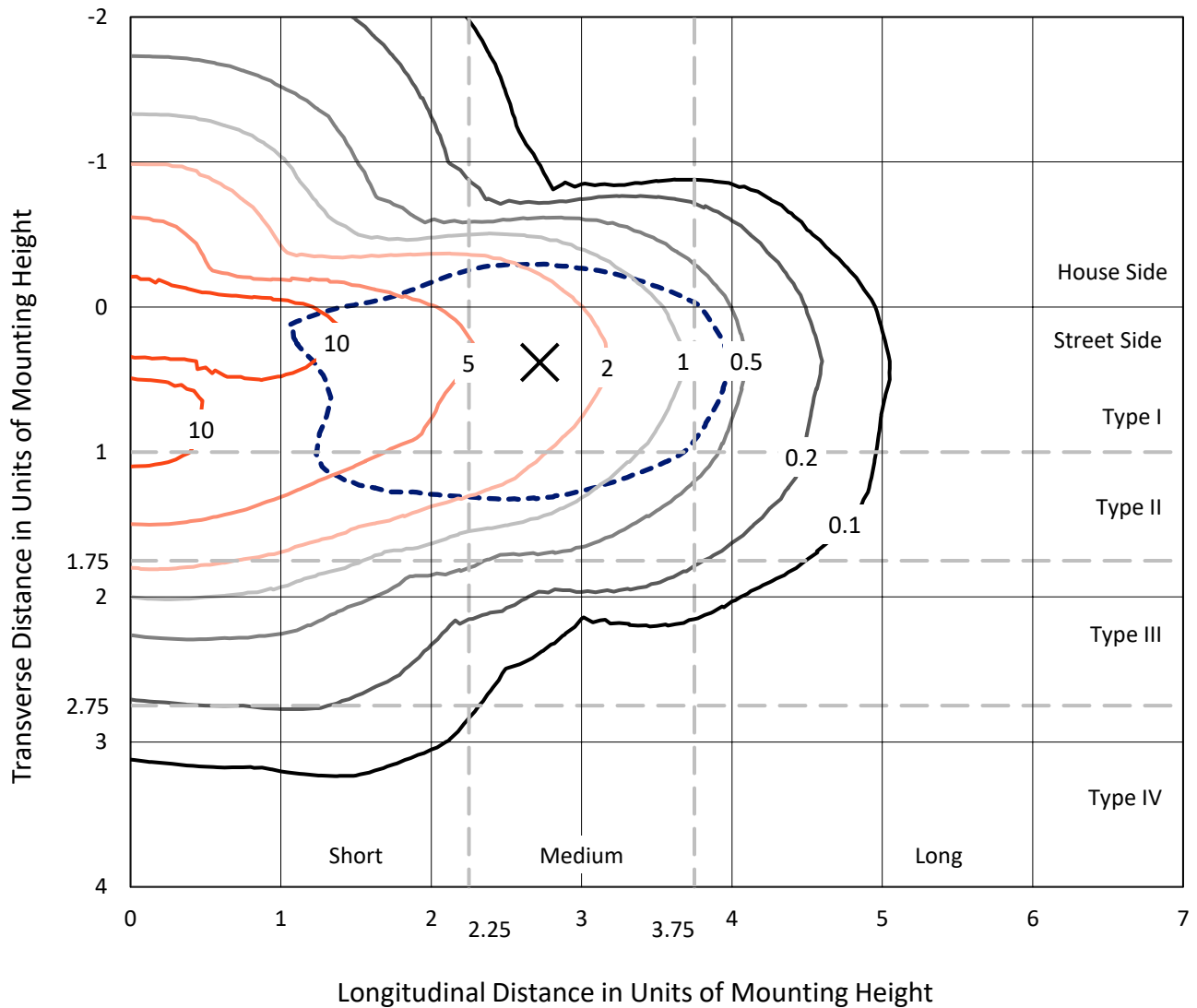
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

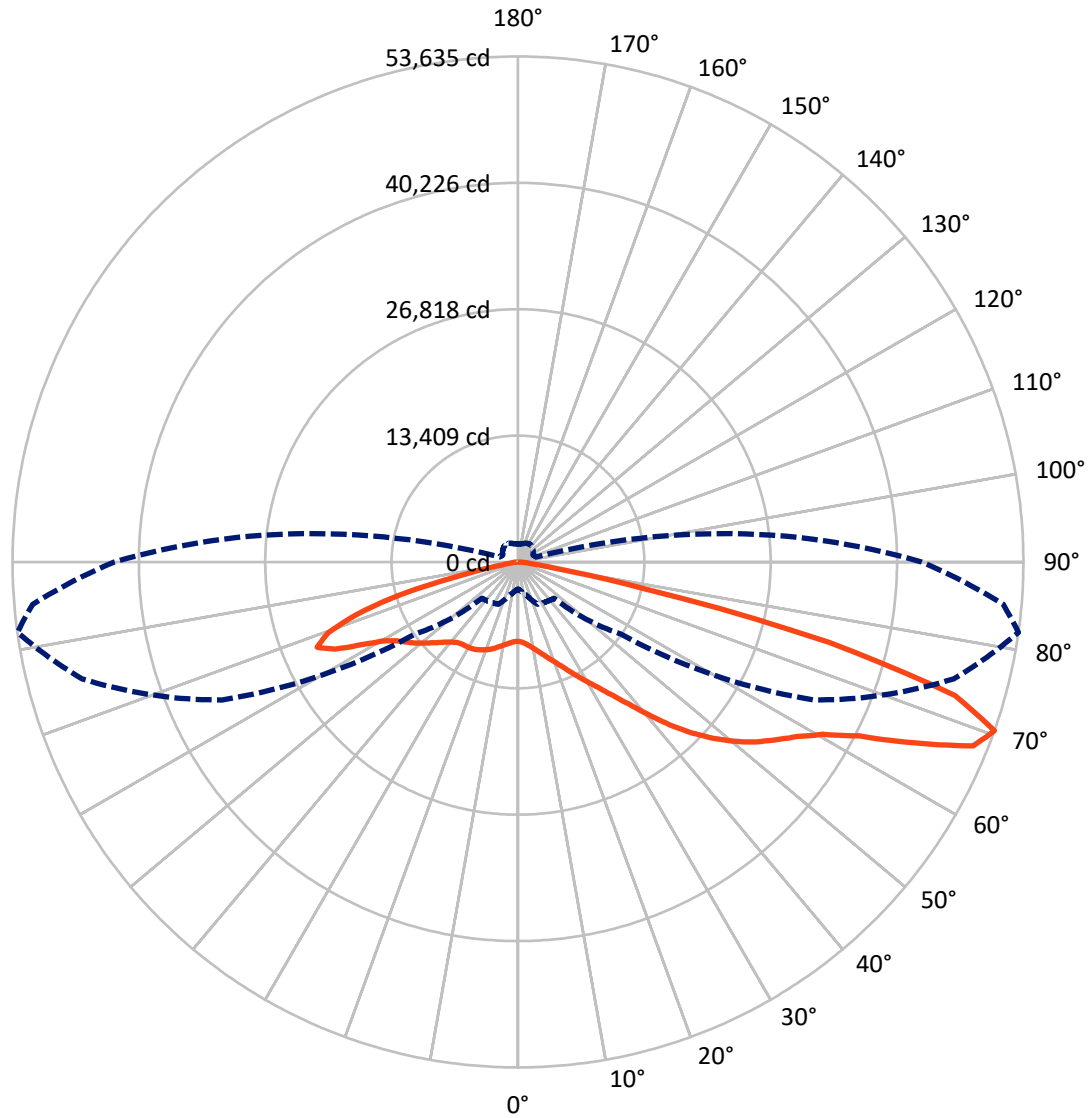
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB8C-850-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14149.3	0.0	14149.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	43245.7	0.0	43245.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	57395.0	0.0	57395.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.5	1.4
10°-20°	2282.7	4.0
20°-30°	3818.7	6.7
30°-40°	5965.8	10.4
40°-50°	9501.2	16.6
50°-60°	13222.0	23.0
60°-70°	13830.8	24.1
70°-80°	7228.7	12.6
80°-90°	750.6	1.3
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°	57395.0	100.0
0°-180°	57395.0	100.0



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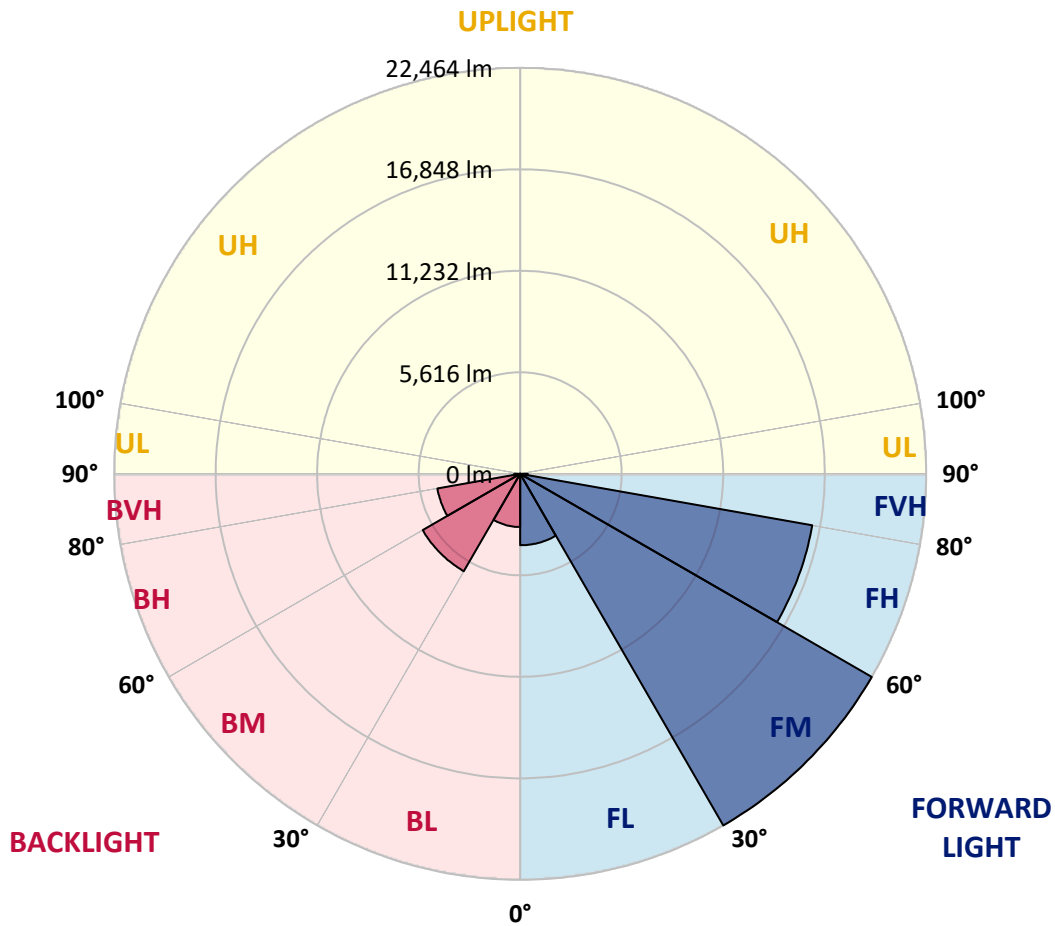
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3952.3	6.9			
FM (30°-60°)	22463.8	39.1			
FH (60°-80°)	16409.4	28.6			G5
FVH (80°-90°)	420.2	0.7			G3/500
BL (0°-30°)	2943.6	5.1	B4/5000		
BM (30°-60°)	6225.1	10.8	B4/8500		
BH (60°-80°)	4650.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	330.4	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 II Medium



REPORT NUMBER: P943925

CATALOG NUMBER: GALN-SB8C-850-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8
2.5°	8615.8	8664.6	8649.3	8634.1	8634.1	8612.8	8609.7	8579.3	8554.9	8515.3
5°	8725.5	8777.2	8771.2	8783.3	8822.9	8832.1	8841.2	8822.9	8774.2	8725.5
7.5°	8628.0	8685.9	8704.2	8777.2	8899.1	9008.7	9090.9	9124.4	9078.8	9008.7
10°	8299.1	8363.1	8427.0	8600.6	8816.8	9075.7	9295.0	9425.9	9416.8	9349.8
12.5°	7632.1	7699.1	7836.2	8174.2	8570.1	9027.0	9435.1	9709.2	9803.6	9754.9
15°	7099.2	7157.0	7260.6	7607.8	8122.5	8816.8	9486.9	10019.8	10260.4	10233.0
17.5°	7083.9	7108.3	7172.2	7336.7	7732.6	8487.9	9432.0	10324.4	10784.3	10781.2
20°	7351.9	7361.1	7397.6	7431.1	7656.5	8238.2	9291.9	10577.2	11372.0	11372.0
22.5°	7723.5	7717.4	7753.9	7723.5	7833.1	8216.9	9203.6	10799.5	12026.8	12075.6
25°	8280.8	8250.4	8241.2	8171.2	8192.5	8414.8	9301.1	11052.3	12803.4	12903.9
27.5°	9023.9	8975.2	8941.7	8780.3	8725.5	8822.9	9599.5	11356.8	13668.4	13842.0
30°	9992.4	9904.1	9855.4	9575.2	9377.2	9392.4	10050.3	11761.9	14572.9	14853.1
32.5°	11314.2	11177.1	11046.2	10586.3	10223.9	10105.1	10632.0	12322.3	15553.6	16001.3
35°	12794.3	12684.7	12544.6	11835.0	11277.6	11003.5	11417.7	13105.0	16701.7	17411.3
37.5°	14219.6	14125.2	14192.2	13235.9	12517.2	12118.2	12447.1	14155.7	18117.9	19165.6
40°	15693.7	15620.6	15629.7	14716.0	13878.5	13430.8	13695.8	15474.4	19741.2	21251.8
42.5°	17295.6	17240.8	17058.1	16248.0	15306.9	14889.6	15133.3	16997.2	21483.2	23627.3
45°	19089.4	19055.9	18885.4	17956.5	16878.4	16409.4	16738.3	18678.3	23234.4	25862.7
47.5°	20639.6	20667.0	20645.7	19863.0	18745.3	18057.0	18449.9	20432.5	24863.8	27964.1
50°	21385.8	21528.9	21739.1	21495.4	20801.0	20100.6	20176.7	22125.8	26417.0	29934.6
52.5°	20995.9	21267.0	21839.6	22229.4	22497.4	22351.2	22147.2	23807.0	27878.9	31713.2
55°	19543.2	19923.9	20874.1	21815.2	23182.6	24245.5	24513.5	25670.8	29304.2	33278.6
57.5°	16896.7	17514.9	18367.6	20271.1	22573.5	25162.2	27272.8	28256.5	30814.8	34950.6
60°	12358.8	13187.2	14247.0	17079.4	20441.7	24671.9	29620.9	32227.9	32961.9	37116.0
62.5°	7909.3	8420.9	9395.5	12063.4	15928.2	22159.3	30339.7	37192.1	36601.3	40667.1
65°	5415.0	5743.9	6636.2	8134.6	10297.0	16494.6	28414.9	40913.8	42381.7	46295.2
67.5°	3934.8	4184.6	4946.0	6258.6	6709.3	9761.0	22049.7	40743.2	48000.7	52093.9
70°	2868.9	3045.5	3685.1	4946.0	5162.2	5430.2	13357.7	34633.9	47878.9	53635.0
72.5°	2125.8	2247.6	2677.0	3837.4	4178.5	3666.8	6611.9	25171.4	41142.2	48512.4
75°	1538.0	1629.4	1946.1	2935.9	3344.0	2792.8	3298.3	14710.0	28698.1	34125.3
77.5°	1175.6	1245.6	1452.7	2150.2	2677.0	2095.3	2046.6	6767.2	13607.5	13674.5
80°	944.1	989.8	1102.5	1513.6	2052.7	1568.5	1333.9	2731.8	4300.3	3639.4
82.5°	694.4	770.5	931.9	1062.9	1467.9	1081.2	813.2	1379.6	1635.5	1407.0
85°	395.9	447.7	563.4	761.4	938.0	660.9	466.0	612.2	761.4	624.3
87.5°	140.1	182.7	198.0	298.5	408.1	274.1	179.7	176.6	249.7	185.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943925
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8414.8	0°	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8	8414.8
8506.2	2.5°	8475.7	8460.5	8399.6	8317.4	8232.1	8149.9	8122.5	8064.6	8025.0	8003.7
8704.2	5°	8646.3	8597.6	8454.4	8271.7	8079.8	7872.7	7726.5	7592.5	7495.1	7403.7
8975.2	7.5°	8889.9	8804.7	8558.0	8238.2	7897.1	7552.9	7297.1	7102.2	6971.2	6886.0
9291.9	10°	9173.2	9042.2	8664.6	8186.4	7659.5	7166.2	6864.6	6697.1	6614.9	6569.2
9654.4	12.5°	9499.0	9313.3	8774.2	8067.6	7297.1	6733.7	6526.6	6477.9	6480.9	6484.0
10111.2	15°	9901.0	9642.2	8862.5	7808.8	6825.1	6401.7	6365.2	6444.4	6526.6	6566.2
10628.9	17.5°	10354.8	9989.4	8877.7	7382.4	6362.1	6188.5	6304.3	6474.8	6599.7	6654.5
11207.6	20°	10842.1	10342.7	8768.1	6779.4	5981.4	6014.9	6222.0	6441.3	6578.4	6648.4
11868.5	22.5°	11399.5	10720.3	8506.2	6145.9	5670.8	5826.1	6069.8	6282.9	6426.1	6496.1
12645.1	25°	12036.0	11143.6	8095.0	5612.9	5402.8	5612.9	5856.6	6033.2	6148.9	6212.9
13513.1	27.5°	12742.5	11585.2	7546.8	5189.6	5168.3	5393.6	5594.7	5731.7	5792.6	5841.3
14435.9	30°	13452.1	11987.2	6882.9	4869.8	4964.2	5177.4	5320.6	5381.5	5399.7	5408.9
15465.2	32.5°	14219.6	12334.4	6185.5	4604.9	4769.3	4967.3	5052.5	5080.0	4994.7	4936.8
16713.9	35°	15148.5	12706.0	5503.3	4394.7	4577.4	4748.0	4775.4	4751.0	4650.5	4531.8
18279.3	37.5°	16296.7	13168.9	4958.1	4245.5	4397.8	4510.4	4476.9	4470.9	4480.0	4339.9
20161.5	40°	17703.7	13771.9	4559.2	4129.8	4251.6	4275.9	4181.5	4233.3	4279.0	4065.8
22226.3	42.5°	19266.1	14499.8	4306.4	4050.6	4129.8	4071.9	3925.7	3983.6	3977.5	3697.3
24300.4	45°	20858.9	15291.7	4218.1	3992.7	4017.1	3901.3	3739.9	3755.1	3627.2	3374.5
26289.1	47.5°	22442.6	16141.4	4272.9	3944.0	3877.0	3746.0	3621.1	3554.1	3365.3	3176.5
28195.6	50°	23995.8	17033.7	4473.9	3846.5	3685.1	3609.0	3517.6	3398.8	3197.8	3036.4
29998.6	52.5°	25436.3	17932.1	4699.3	3685.1	3444.5	3490.2	3432.3	3295.3	3097.3	2932.9
31704.1	55°	26800.7	18830.6	4787.6	3462.8	3219.1	3386.6	3353.1	3100.4	2862.8	2728.8
33488.7	57.5°	28287.0	19911.7	4690.1	3179.5	3036.4	3267.9	3140.0	2859.8	2722.7	2622.2
35812.5	60°	30345.8	21608.1	4480.0	2829.3	2862.8	3091.2	2871.9	2756.2	2607.0	2494.3
39296.6	62.5°	33765.9	24772.4	4141.9	2482.1	2658.8	2829.3	2744.0	2628.3	2476.0	2366.4
45253.7	65°	38821.5	29170.2	3505.4	2211.1	2430.3	2573.5	2607.0	2491.3	2332.9	2217.2
50473.7	67.5°	43085.2	31929.4	2652.7	1985.7	2195.8	2366.4	2460.8	2348.1	2180.6	2067.9
51695.0	70°	42850.7	29925.5	2025.3	1763.4	1988.7	2162.3	2284.2	2195.8	2016.1	1909.6
46956.1	72.5°	38060.1	25034.3	1638.5	1538.0	1778.6	1949.1	2095.3	2028.3	1845.6	1742.0
34399.4	75°	27961.1	17770.7	1309.6	1309.6	1516.7	1726.8	1888.2	1845.6	1678.1	1605.0
14441.9	77.5°	11786.2	7455.5	1026.3	1087.3	1260.9	1483.2	1684.2	1699.4	1553.2	1644.6
3819.1	80°	3133.9	2055.7	782.7	855.8	989.8	1224.3	1464.9	1458.8	1300.4	1215.2
1419.2	82.5°	1193.9	810.1	557.3	603.0	715.7	938.0	1160.4	1196.9	1038.5	898.4
557.3	85°	459.9	347.2	344.1	362.4	417.2	621.3	877.1	907.6	782.7	663.9
155.3	87.5°	118.8	103.5	127.9	121.8	191.9	332.0	502.5	520.8	478.1	277.1
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>
8414.8
8028.0
7440.3
6904.2
6581.4
6490.0
6563.1
6666.7
6666.7
6514.4
6231.2
5859.6
5430.2
4955.1
4537.9
4349.0
4071.9
3694.2
3383.6
3176.5
3024.2
2935.9
2716.6
2613.1
2488.2
2366.4
2223.2
2071.0
1918.7
1742.0
1583.7
1492.3
1129.9
898.4
685.2
395.9
0.0

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