

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: P955010

Luminaire Tested: **GALN-SB8A-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33030 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

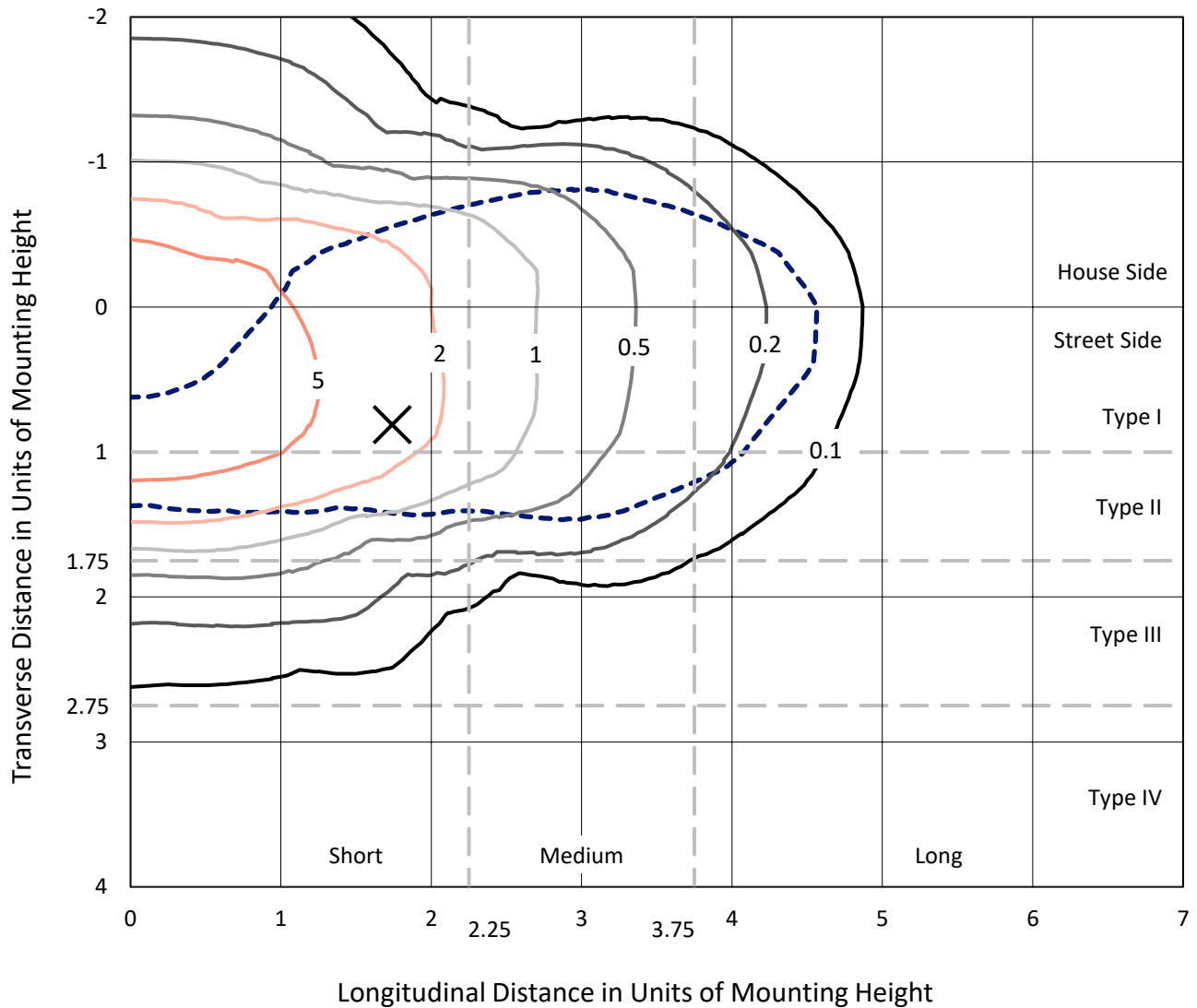
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

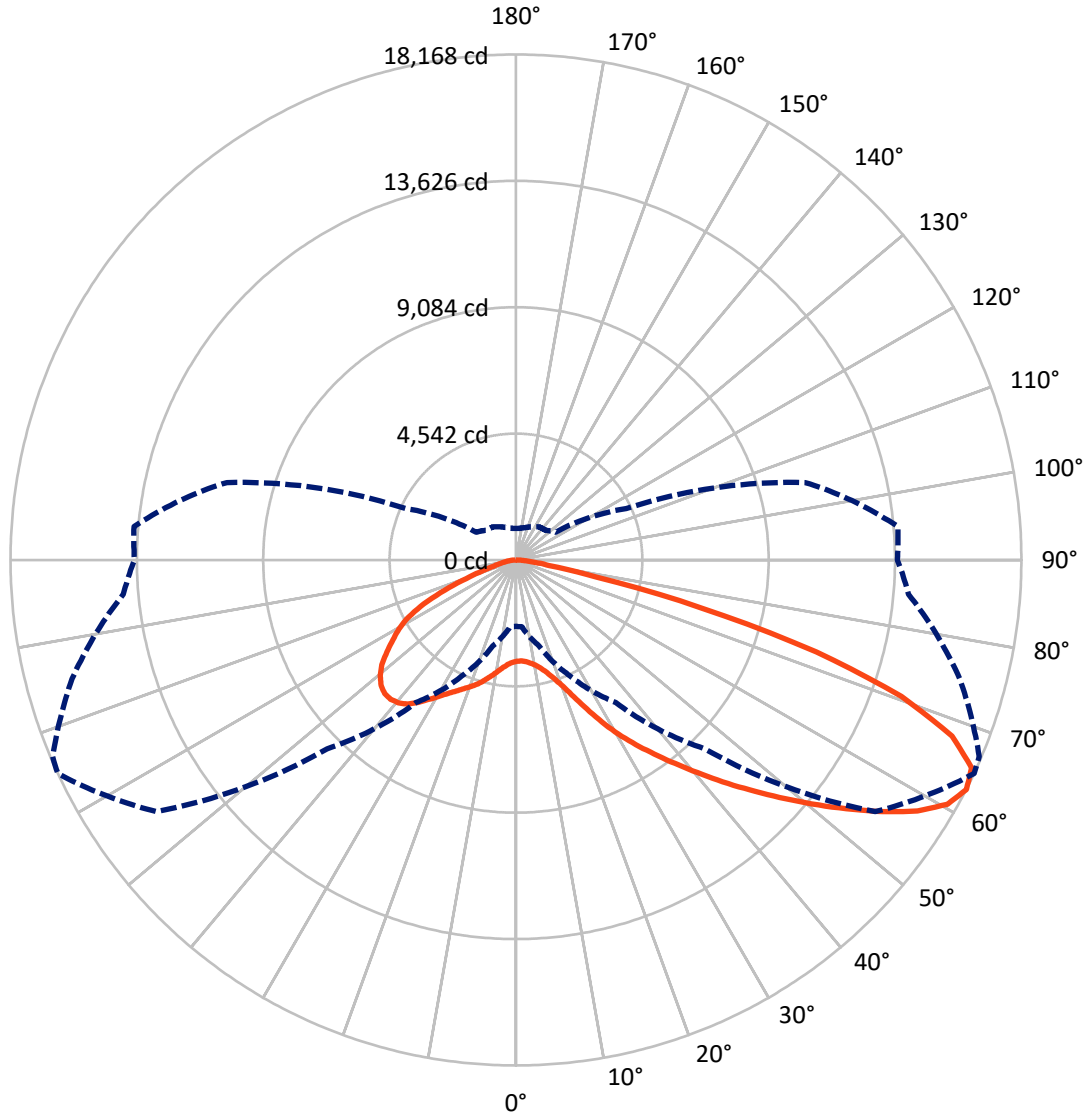
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10422.8	0.0	10422.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	22607.2	0.0	22607.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	33030.0	0.0	33030.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.9	1.1
10°-20°	1230.6	3.7
20°-30°	2495.1	7.6
30°-40°	4317.7	13.1
40°-50°	6534.0	19.8
50°-60°	7660.7	23.2
60°-70°	6422.6	19.4
70°-80°	3545.8	10.7
80°-90°	460.6	1.4
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°	33030.0	100.0
0°-180°	33030.0	100.0

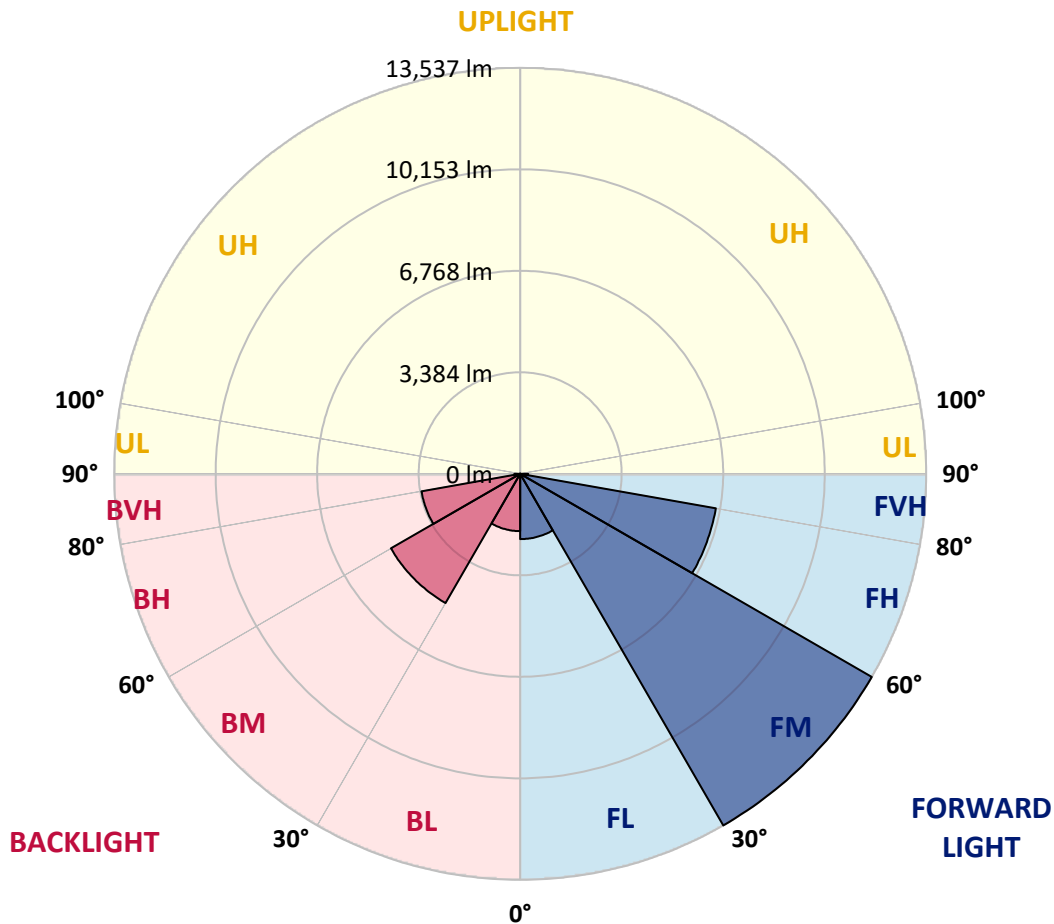


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2177.1	6.6			
FM (30°-60°)	13536.8	41.0			
FH (60°-80°)	6624.8	20.1			G3/7500
FVH (80°-90°)	268.4	0.8			G3/500
BL (0°-30°)	1911.4	5.8	B3/2500		
BM (30°-60°)	4975.7	15.1	B3/5000		
BH (60°-80°)	3343.6	10.1	B4/5000		G4/5000
BVH (80°-90°)	192.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8
2.5°	3615.8	3605.5	3614.1	3614.1	3617.5	3615.8	3627.8	3631.2	3636.3	3646.6
5°	3579.8	3578.1	3593.5	3607.2	3620.9	3632.9	3648.3	3670.6	3674.0	3686.0
7.5°	3567.8	3557.5	3581.5	3598.6	3631.2	3660.3	3701.5	3739.2	3754.6	3759.7
10°	3660.3	3643.2	3665.5	3675.7	3703.2	3732.3	3780.3	3840.3	3857.4	3878.0
12.5°	3818.0	3799.1	3831.7	3847.1	3872.8	3898.5	3931.1	3989.3	3997.9	4035.6
15°	4033.9	4011.6	4032.2	4051.0	4093.9	4117.9	4150.4	4207.0	4207.0	4236.1
17.5°	4326.9	4297.8	4313.2	4320.1	4347.5	4383.5	4438.3	4488.0	4513.7	4503.4
20°	4763.9	4727.9	4727.9	4693.6	4683.4	4712.5	4784.5	4853.0	4880.4	4827.3
22.5°	5420.2	5368.8	5339.7	5223.2	5176.9	5180.3	5252.3	5336.3	5358.5	5264.3
25°	6254.8	6174.2	6134.8	5963.5	5858.9	5768.1	5824.6	5932.6	5963.5	5846.9
27.5°	7089.3	7094.5	7056.8	6851.1	6678.0	6511.8	6482.7	6595.8	6628.3	6496.4
30°	8259.7	8138.1	8066.1	7819.3	7572.6	7339.5	7219.5	7265.8	7274.4	7116.7
32.5°	9269.1	9238.2	9084.0	8868.1	8551.0	8186.0	7985.5	7911.9	7898.1	7673.7
35°	10418.9	10401.8	10239.0	9981.9	9639.2	9132.0	8770.4	8559.6	8542.5	8227.2
37.5°	11587.6	11587.6	11428.2	11147.2	10792.5	10158.4	9608.4	9274.2	9219.4	8808.1
40°	12519.8	12463.3	12492.4	12374.2	11968.0	11294.6	10538.9	10053.9	9980.2	9486.7
42.5°	13049.3	13030.5	13205.3	13337.2	13171.0	12632.9	11563.6	10898.7	10795.9	10233.8
45°	13167.6	13147.0	13458.9	13942.1	14175.2	13954.1	12677.5	11788.1	11663.0	11015.3
47.5°	12895.1	12854.0	13311.5	14074.1	14821.2	15210.2	13883.9	12752.9	12571.2	11776.1
50°	12076.0	12036.6	12728.9	13741.6	15038.9	16063.6	15193.1	13775.9	13498.3	12591.8
52.5°	10295.5	10314.4	11399.1	12790.6	14752.7	16594.9	16320.7	14853.8	14519.6	13426.3
55°	8019.8	8060.9	9394.2	10926.1	13608.0	16514.3	17090.1	15964.2	15631.8	14211.2
57.5°	5742.4	5924.0	7173.3	8689.8	11409.4	15237.7	17258.0	17019.8	16697.7	15068.0
60°	3722.0	3754.6	5039.8	6568.4	8688.1	12968.8	16917.0	17820.1	17568.2	15942.0
62.5°	2385.4	2407.7	3190.8	4594.3	6253.1	9594.6	15768.9	18168.0	18090.9	16519.5
65°	1753.0	1735.9	2143.8	3036.6	4212.1	5917.2	13539.4	18000.0	18152.5	16881.0
67.5°	1463.4	1439.5	1639.9	2102.6	3103.4	3360.4	10017.9	16908.4	17467.1	16839.9
70°	1333.2	1312.6	1434.3	1561.1	2421.4	2250.0	5050.1	14699.6	15559.8	16372.1
72.5°	1129.3	1093.3	1259.5	1386.3	1883.3	1725.6	2087.2	11291.1	12339.9	14872.6
75°	875.7	851.7	993.9	1220.1	1415.5	1346.9	1319.5	6856.3	8001.0	11501.9
77.5°	694.0	661.5	791.7	951.1	1273.2	1016.2	961.3	2952.6	4087.0	7342.9
80°	522.7	493.5	601.5	752.3	978.5	766.0	622.0	1204.7	1540.6	3720.3
82.5°	371.9	346.2	419.8	551.8	658.0	687.2	382.1	675.2	759.1	1434.3
85°	238.2	222.8	281.0	346.2	418.1	442.1	233.1	353.0	387.3	591.2
87.5°	130.2	106.2	150.8	161.1	193.6	176.5	111.4	128.5	138.8	214.2
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°
3639.8	0°	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8
3646.6	2.5°	3653.5	3658.6	3675.7	3680.9	3692.9	3708.3	3718.6	3728.9	3728.9	3739.2
3701.5	5°	3703.2	3715.2	3751.1	3770.0	3800.8	3831.7	3850.5	3872.8	3886.5	3893.4
3788.8	7.5°	3799.1	3818.0	3869.4	3901.9	3955.1	3997.9	4027.0	4057.9	4064.7	4083.6
3910.5	10°	3929.4	3951.6	4009.9	4071.6	4135.0	4188.1	4215.5	4237.8	4246.4	4249.8
4066.5	12.5°	4078.5	4111.0	4186.4	4261.8	4328.6	4374.9	4381.8	4376.6	4352.6	4332.1
4258.4	15°	4261.8	4290.9	4374.9	4457.2	4522.3	4530.9	4488.0	4460.6	4431.5	4426.3
4472.6	17.5°	4481.2	4496.6	4573.7	4654.2	4659.4	4630.2	4566.8	4541.1	4513.7	4494.9
4751.9	20°	4736.5	4731.3	4786.2	4820.5	4784.5	4695.4	4599.4	4556.6	4529.1	4506.9
5094.6	22.5°	5041.5	5002.1	4995.2	4986.7	4890.7	4703.9	4573.7	4518.9	4476.0	4445.2
5572.7	25°	5485.3	5334.5	5230.0	5171.8	4955.8	4657.7	4491.4	4369.8	4289.2	4236.1
6157.1	27.5°	6040.6	5786.9	5523.0	5380.8	4955.8	4563.4	4292.7	4095.6	3963.6	3908.8
6722.6	30°	6570.1	6304.5	5915.5	5632.7	4943.8	4409.2	3972.2	3698.0	3543.8	3489.0
7205.8	32.5°	7022.5	6732.9	6331.9	5908.6	4914.7	4159.0	3574.6	3271.3	3122.2	3057.1
7683.9	35°	7442.3	7133.9	6750.0	6211.9	4837.6	3792.3	3137.7	2906.3	2740.1	2635.6
8170.6	37.5°	7872.4	7505.7	7145.9	6486.1	4698.8	3363.9	2801.8	2604.7	2409.4	2268.9
8688.1	40°	8340.3	7901.6	7569.1	6648.9	4470.9	2956.0	2541.3	2361.4	2154.0	2005.0
9284.5	42.5°	8886.9	8376.3	8040.4	6732.9	4159.0	2666.4	2371.7	2195.2	1999.8	1878.1
9923.7	45°	9457.6	8898.9	8470.5	6731.2	3811.1	2531.0	2316.8	2142.0	1926.1	1799.3
10580.0	47.5°	10055.6	9445.6	8842.4	6621.5	3509.5	2549.9	2286.0	2027.2	1789.0	1665.7
11243.2	50°	10655.4	10043.6	9202.2	6415.9	3381.0	2508.8	2171.2	1866.1	1585.1	1473.7
11865.2	52.5°	11250.0	10679.4	9512.4	6122.8	3250.8	2356.2	2023.8	1657.1	1501.1	1424.0
12507.8	55°	11848.1	11308.3	9850.0	5696.1	2925.2	2178.0	1777.0	1578.3	1434.3	1364.1
13136.7	57.5°	12447.9	12034.9	10170.4	5269.4	2515.6	1958.7	1641.7	1482.3	1367.5	1307.5
13662.8	60°	13071.6	12866.0	10501.2	4877.0	2111.2	1677.6	1542.3	1405.2	1288.7	1221.8
14168.3	62.5°	13714.2	13781.1	10759.9	4371.5	1739.3	1506.3	1453.2	1312.6	1199.5	1136.1
14586.5	65°	14362.0	14663.6	10929.6	3670.6	1410.3	1343.5	1357.2	1211.5	1096.7	1041.9
14893.2	67.5°	14850.4	15299.3	10881.6	2777.8	1156.7	1189.3	1237.2	1105.3	997.3	954.5
14843.5	70°	14905.2	15223.9	10408.6	1902.1	968.2	1038.5	1103.6	1000.8	889.4	858.5
14144.4	72.5°	14175.2	14195.8	9090.8	1242.4	819.1	911.7	963.1	894.5	786.6	755.7
12374.2	75°	12261.1	11740.1	6674.6	819.1	685.5	783.1	831.1	783.1	678.6	685.5
9258.8	77.5°	9289.6	8314.6	4052.7	582.6	572.4	658.0	723.2	688.9	599.8	673.5
4655.9	80°	4786.2	4498.3	1807.9	435.3	452.4	526.1	594.6	550.1	474.7	452.4
1040.2	82.5°	1096.7	1274.9	712.9	311.9	327.3	378.7	454.1	413.0	341.0	287.9
433.5	85°	383.9	419.8	315.3	195.4	191.9	236.5	308.5	275.9	231.3	185.1
183.4	87.5°	121.7	159.4	118.2	78.8	82.3	106.2	142.2	130.2	108.0	70.3
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>
3639.8
3739.2
3896.8
4076.7
4241.2
4332.1
4426.3
4496.6
4508.6
4455.5
4256.7
3936.2
3521.5
3089.7
2669.8
2306.6
2034.1
1902.1
1819.9
1682.8
1480.6
1424.0
1357.2
1297.2
1216.7
1134.4
1040.2
956.2
860.2
754.0
661.5
592.9
413.0
284.5
195.4
73.7
0.0

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