

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: P952410

Luminaire Tested: **GALN-SB6B-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952410
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-SB6B-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34080 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

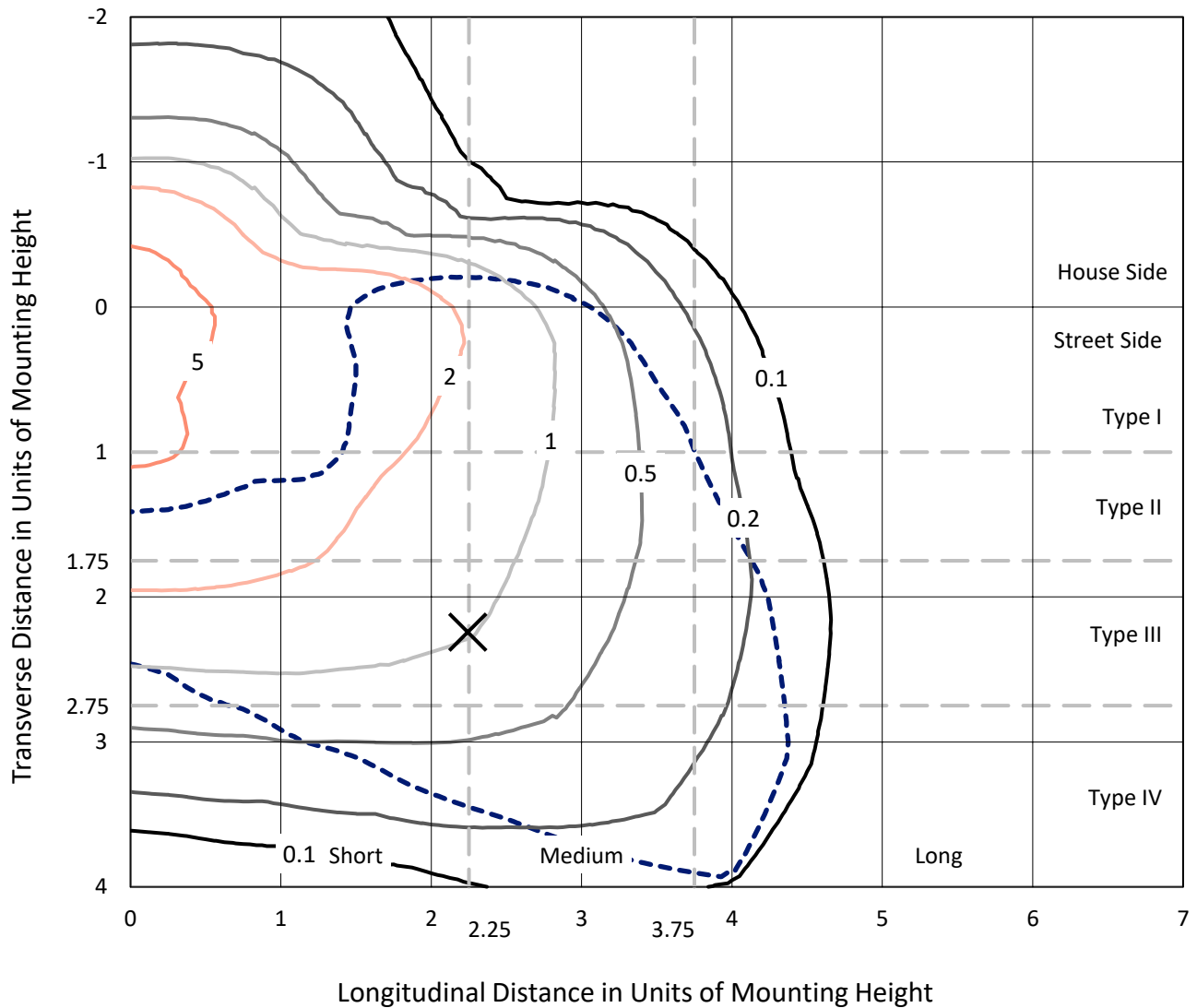
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

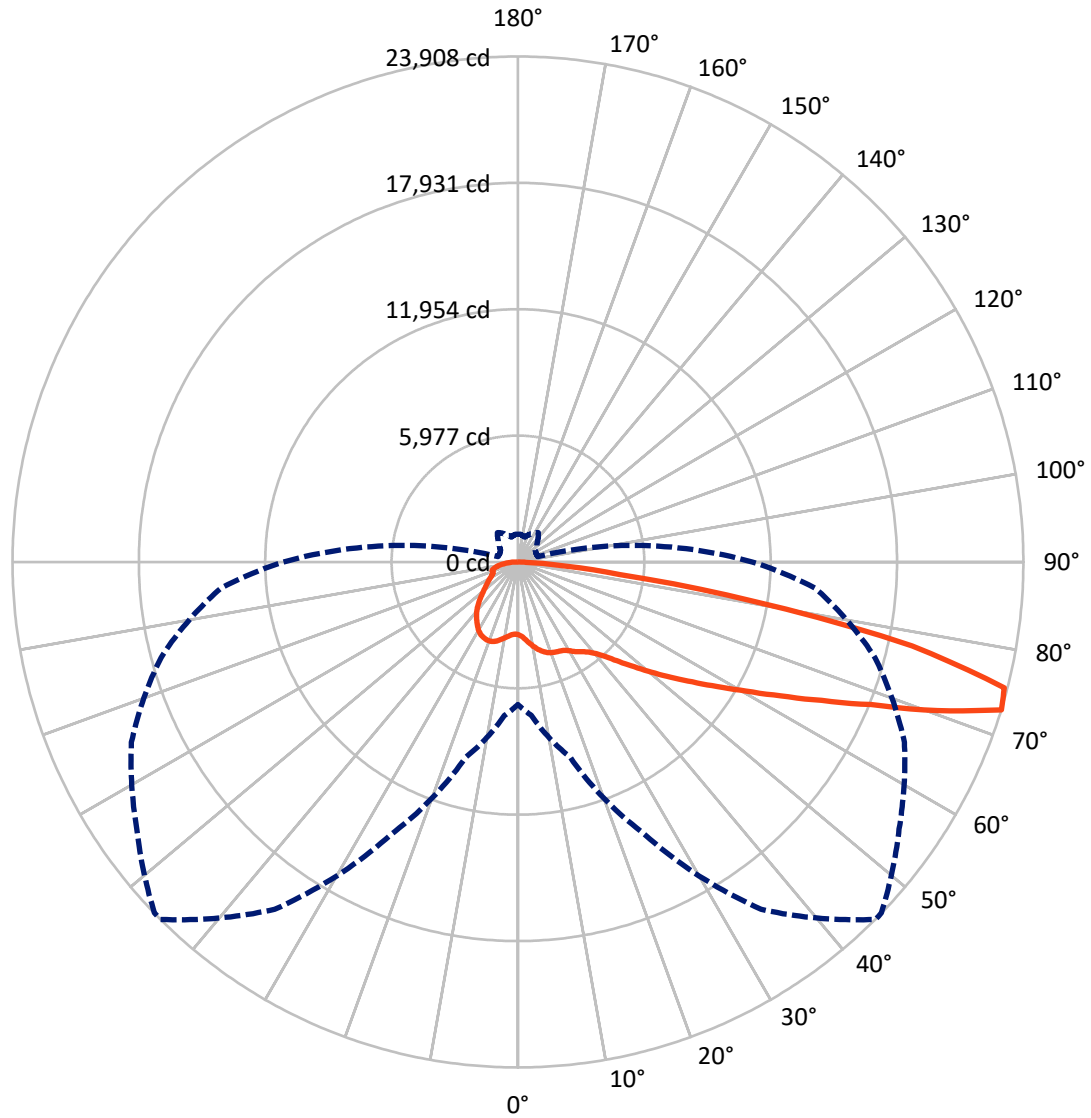
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7704.3	0.0	7704.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26375.7	0.0	26375.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	34080.0	0.0	34080.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.9	1.0
10°-20°	1166.7	3.4
20°-30°	2029.5	6.0
30°-40°	2909.4	8.5
40°-50°	4096.6	12.0
50°-60°	6274.8	18.4
60°-70°	9090.0	26.7
70°-80°	7258.9	21.3
80°-90°	904.1	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°	34080.0	100.0
0°-180°	34080.0	100.0



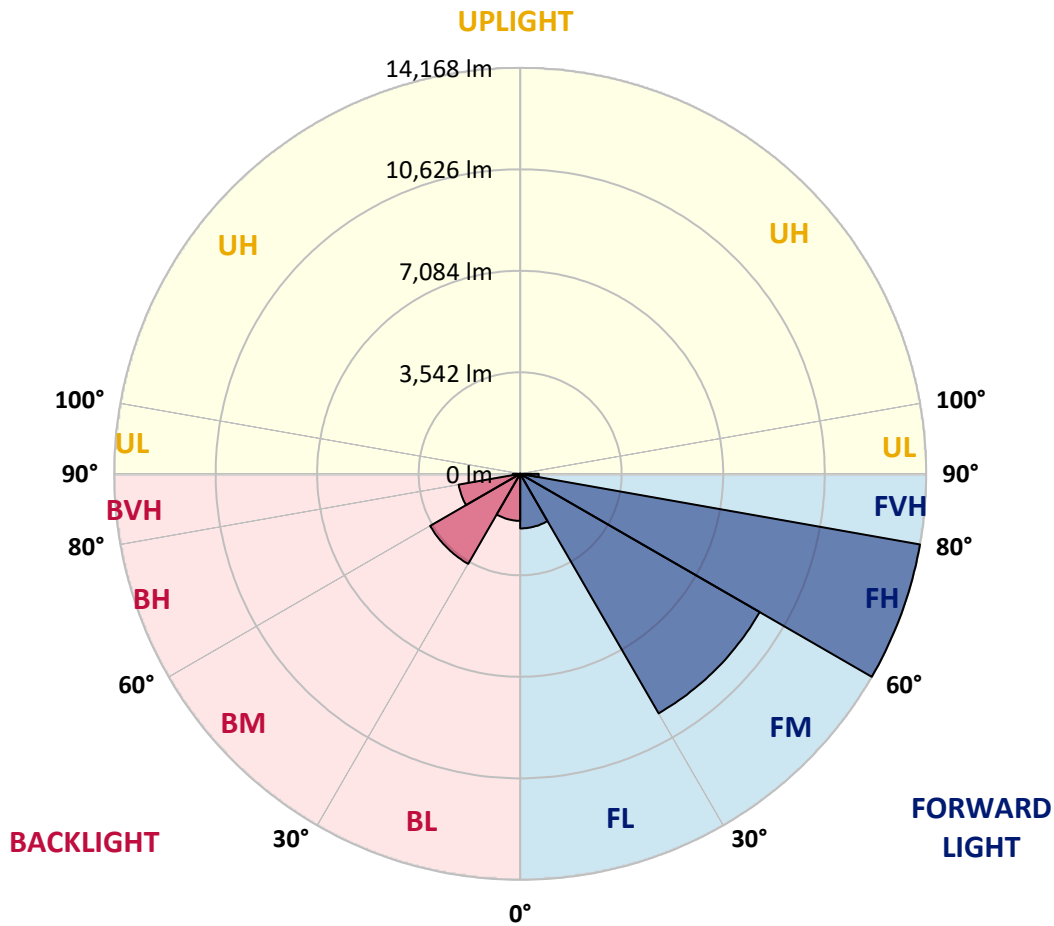
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1905.8	5.6			
FM (30°-60°)	9653.2	28.3			
FH (60°-80°)	14168.1	41.6			G5
FVH (80°-90°)	648.6	1.9			G4/750
BL (0°-30°)	1640.3	4.8	B3/2500		
BM (30°-60°)	3627.6	10.6	B3/5000		
BH (60°-80°)	2180.9	6.4	B3/2500		G3/2500
BVH (80°-90°)	255.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3438.0	3438.0	3438.0	3438.0	3438.0	3438.0	3438.0	3438.0	3438.0	3438.0
2.5°	3572.7	3596.0	3574.5	3554.7	3545.7	3522.4	3520.6	3506.2	3497.3	3472.1
5°	3822.2	3852.7	3816.8	3777.3	3741.4	3684.0	3676.8	3635.5	3588.8	3535.0
7.5°	4104.1	4131.0	4089.7	4030.5	3967.6	3872.5	3870.7	3795.3	3721.7	3630.1
10°	4350.0	4385.9	4330.3	4249.5	4170.5	4062.8	4050.2	3964.0	3870.7	3752.2
12.5°	4567.3	4592.4	4538.5	4439.8	4348.2	4240.5	4224.4	4129.2	4025.1	3890.4
15°	4739.6	4771.9	4700.1	4594.2	4497.2	4391.3	4377.0	4290.8	4186.7	4044.8
17.5°	4852.7	4879.6	4806.0	4687.5	4594.2	4506.2	4495.4	4423.6	4332.1	4188.4
20°	4895.8	4924.5	4847.3	4727.0	4640.9	4572.6	4567.3	4515.2	4452.4	4321.3
22.5°	4938.9	4965.8	4865.3	4739.6	4664.2	4621.1	4619.3	4585.2	4560.1	4452.4
25°	5113.0	5120.2	4985.6	4804.2	4696.5	4658.8	4657.0	4655.2	4666.0	4581.6
27.5°	5263.8	5262.0	5147.1	4976.6	4809.6	4730.6	4728.8	4746.8	4780.9	4710.9
30°	5484.7	5464.9	5328.5	5150.7	4998.1	4876.0	4865.3	4849.1	4876.0	4820.4
32.5°	5953.2	5890.4	5669.6	5353.6	5154.3	5061.0	5046.6	4946.1	4956.8	4922.7
35°	6624.7	6542.1	6247.7	5737.8	5348.2	5215.4	5208.2	5080.7	5059.2	5028.6
37.5°	7423.6	7321.3	6978.3	6294.3	5682.1	5394.9	5384.1	5269.2	5181.2	5148.9
40°	8226.1	8096.8	7813.2	6973.0	6174.1	5694.7	5660.6	5486.5	5385.9	5332.1
42.5°	9005.2	8897.5	8655.2	7734.2	6780.9	6132.8	6057.4	5759.3	5683.9	5633.7
45°	9694.6	9597.7	9420.0	8547.4	7491.8	6728.8	6655.2	6168.7	6145.3	6145.3
47.5°	10254.8	10233.2	10044.7	9376.9	8330.2	7407.4	7280.0	6737.8	6800.6	6897.6
50°	10876.0	10816.7	10615.6	10193.7	9315.8	8184.8	8080.7	7436.2	7671.3	7937.0
52.5°	11446.9	11479.2	11254.8	11044.7	10428.9	9051.9	8868.8	8260.2	8768.3	9208.1
55°	12033.9	12035.7	11972.9	11944.2	11595.9	10010.6	9809.5	9251.2	10059.1	10604.9
57.5°	12585.1	12588.7	12682.0	12935.2	12949.5	11116.5	10888.5	10468.4	11493.5	12050.1
60°	13077.0	13102.1	13357.1	13949.5	14139.8	12384.0	12168.6	11906.5	12976.5	13536.6
62.5°	13242.2	13333.7	13901.0	14743.0	15315.7	13938.7	13726.9	13570.7	14534.8	15055.4
65°	12962.1	13172.2	14269.1	15398.3	16525.8	15786.1	15576.1	15405.5	16154.2	16644.3
67.5°	12274.5	12545.6	14247.5	16085.9	17994.3	18008.7	17813.0	17412.7	17890.2	18078.7
70°	10463.0	10868.8	12992.6	16342.7	19680.1	21048.2	20859.6	19829.1	19622.7	18710.7
72.5°	6741.4	7287.1	9567.2	14229.6	20055.3	23908.1	23897.3	22010.4	20170.2	17482.7
75°	2459.6	2793.5	4445.2	8931.6	16834.6	23762.7	23832.7	21637.0	18412.6	13504.3
77.5°	895.9	980.2	1450.6	3432.6	10353.5	19066.1	19211.6	17297.8	13105.7	6777.3
80°	470.4	517.0	743.3	1332.1	4436.2	11323.0	11551.0	10279.9	6159.7	2041.3
82.5°	260.3	281.9	416.5	723.5	1998.2	4841.9	4978.4	4061.0	2166.9	865.3
85°	140.0	149.0	195.7	395.0	976.6	1678.6	1716.3	1213.6	863.5	508.1
87.5°	41.3	50.3	64.6	125.7	382.4	377.0	386.0	240.6	341.1	256.7
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°
3438.0	0°	3438.0	3438.0	3438.0	3438.0	3438.0	3438.0	3438.0	3438.0	3438.0	3438.0
3464.9	2.5°	3454.2	3448.8	3429.0	3420.1	3409.3	3407.5	3416.5	3418.3	3420.1	3421.9
3504.4	5°	3486.5	3468.5	3450.6	3439.8	3443.4	3445.2	3463.1	3475.7	3484.7	3491.9
3578.0	7.5°	3549.3	3535.0	3504.4	3502.6	3508.0	3524.2	3547.5	3576.2	3592.4	3605.0
3673.2	10°	3642.7	3615.7	3579.8	3585.2	3596.0	3619.3	3667.8	3691.1	3718.1	3741.4
3789.9	12.5°	3737.8	3714.5	3673.2	3676.8	3694.7	3736.0	3782.7	3811.4	3829.4	3847.3
3915.6	15°	3861.7	3820.4	3775.5	3775.5	3807.8	3852.7	3874.3	3897.6	3908.4	3928.1
4050.2	17.5°	3989.2	3935.3	3876.1	3872.5	3912.0	3933.5	3946.1	3949.7	3953.3	3974.8
4181.3	20°	4116.6	4057.4	3973.0	3965.8	3974.8	3971.2	3969.4	3965.8	3971.2	3998.1
4315.9	22.5°	4242.3	4174.1	4057.4	4025.1	3999.9	3965.8	3964.0	3962.2	3965.8	3992.8
4461.3	25°	4389.5	4306.9	4150.7	4053.8	3969.4	3922.7	3928.1	3929.9	3933.5	3955.1
4612.1	27.5°	4549.3	4457.7	4236.9	4044.8	3892.2	3859.9	3850.9	3856.3	3868.9	3903.0
4762.9	30°	4709.1	4601.4	4315.9	4008.9	3795.3	3750.4	3721.7	3734.2	3773.7	3807.8
4894.0	32.5°	4854.5	4746.8	4378.7	3929.9	3671.4	3601.4	3563.7	3579.8	3619.3	3631.9
5039.4	35°	5025.1	4903.0	4405.7	3804.3	3536.8	3429.0	3378.8	3355.4	3375.2	3362.6
5210.0	37.5°	5215.4	5087.9	4402.1	3639.1	3378.8	3254.9	3184.9	3096.9	3055.6	3012.5
5461.3	40°	5497.2	5314.1	4359.0	3439.8	3183.1	3070.0	2944.3	2795.3	2701.9	2617.6
5867.1	42.5°	5881.4	5628.3	4280.0	3220.8	2962.3	2856.3	2685.8	2511.6	2364.4	2224.4
6482.8	45°	6454.1	6039.4	4181.3	2987.4	2723.5	2619.3	2434.4	2238.7	2071.8	1892.3
7357.2	47.5°	7280.0	6592.4	4087.9	2721.7	2472.1	2377.0	2210.0	2028.7	1831.2	1657.1
8621.1	50°	8414.6	7385.9	4001.7	2463.2	2224.4	2152.6	2019.7	1834.8	1635.5	1495.5
10102.2	52.5°	9858.0	8464.9	3965.8	2213.6	1992.8	1965.9	1859.9	1687.6	1499.1	1380.6
11829.3	55°	11515.1	9755.7	3965.8	1974.8	1789.9	1798.9	1725.3	1565.5	1402.1	1296.2
13610.2	57.5°	13206.3	11062.7	3894.0	1754.0	1617.6	1655.3	1608.6	1468.6	1321.3	1211.8
15482.7	60°	14764.6	12157.8	3603.2	1552.9	1465.0	1524.2	1493.7	1373.4	1193.9	1102.3
17048.2	62.5°	15962.1	12775.4	3043.0	1393.2	1339.3	1407.5	1391.4	1247.7	1170.5	1132.8
18333.7	65°	16561.7	12674.9	2326.7	1251.3	1233.4	1339.3	1305.2	1299.8	1238.8	1195.7
18752.0	67.5°	16193.6	11809.5	1687.6	1147.2	1172.3	1276.5	1407.5	1429.1	1316.0	1231.6
17574.2	70°	14579.7	10244.0	1256.7	1048.5	1095.1	1278.3	1605.0	1495.5	1290.8	1192.1
14094.9	72.5°	11091.4	7639.0	974.9	944.3	994.6	1287.2	1693.0	1465.0	1219.0	1317.8
8780.8	75°	6342.8	4193.8	782.8	816.9	868.9	1202.9	1648.1	1386.0	1163.4	1210.0
3479.3	77.5°	2418.3	1612.2	646.3	691.2	698.4	1050.3	1576.3	1380.6	1107.7	1080.8
1043.1	80°	838.4	630.2	535.0	549.4	540.4	933.6	1511.6	1201.1	906.6	811.5
430.9	82.5°	342.9	314.2	423.7	405.7	384.2	725.3	1220.8	982.0	741.5	655.3
208.3	85°	149.0	199.3	280.1	246.0	222.6	502.7	978.4	831.2	626.6	540.4
68.2	87.5°	30.5	75.4	118.5	111.3	114.9	335.7	694.8	590.7	443.4	332.1
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>
3438.0
3429.0
3495.5
3608.6
3736.0
3854.5
3935.3
3982.0
4008.9
4010.7
3983.8
3937.1
3845.5
3676.8
3402.1
3039.5
2622.9
2211.8
1870.7
1637.3
1486.5
1371.6
1285.4
1193.9
1088.0
1120.3
1181.3
1217.2
1175.9
1307.0
1210.0
985.6
784.5
648.1
538.6
260.3
0.0

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