

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: P953502

Luminaire Tested: **GALN-SB7A-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953502
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-SB7A-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33685 lumens
Efficiency: N/A
Efficacy: 169.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

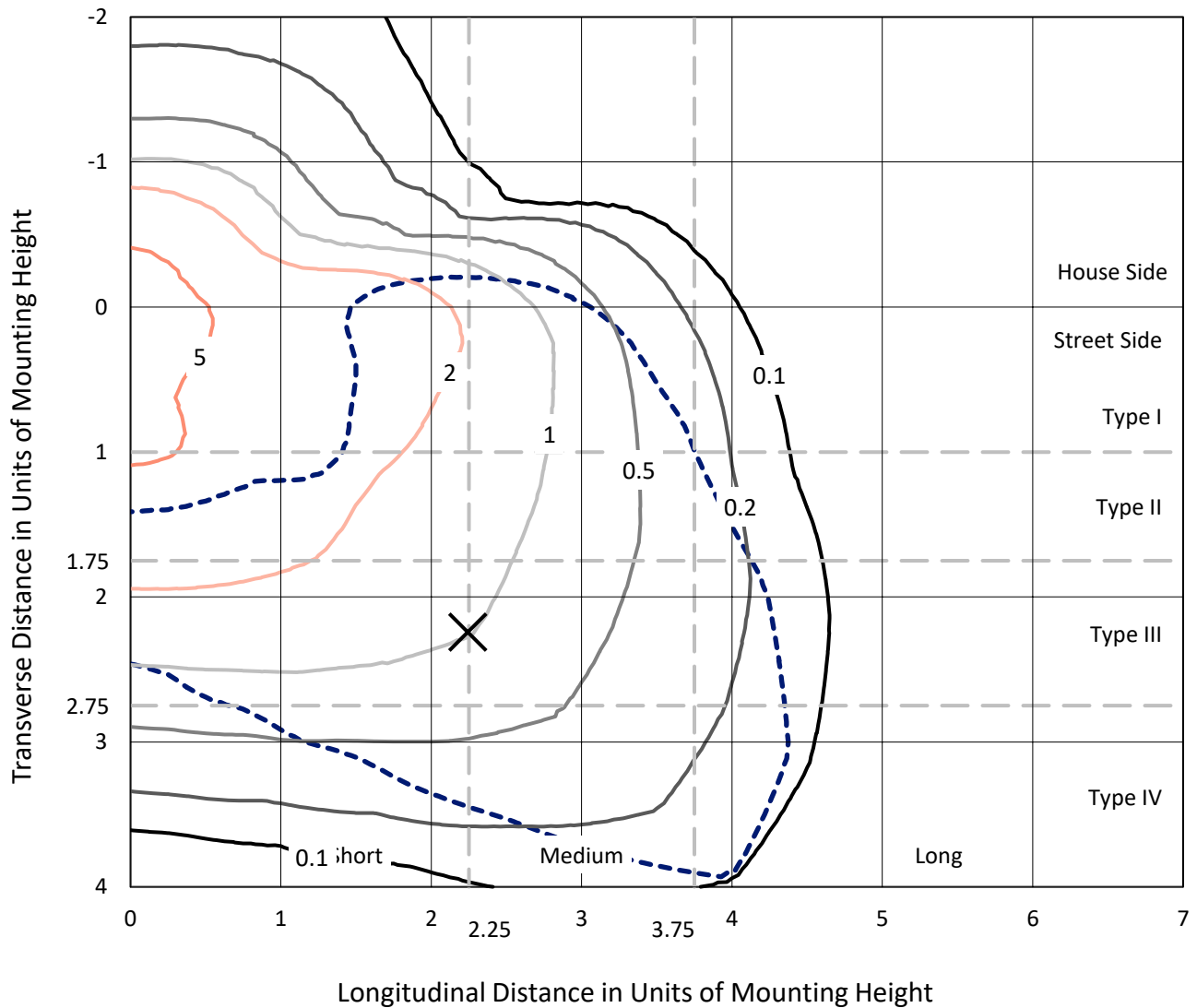
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

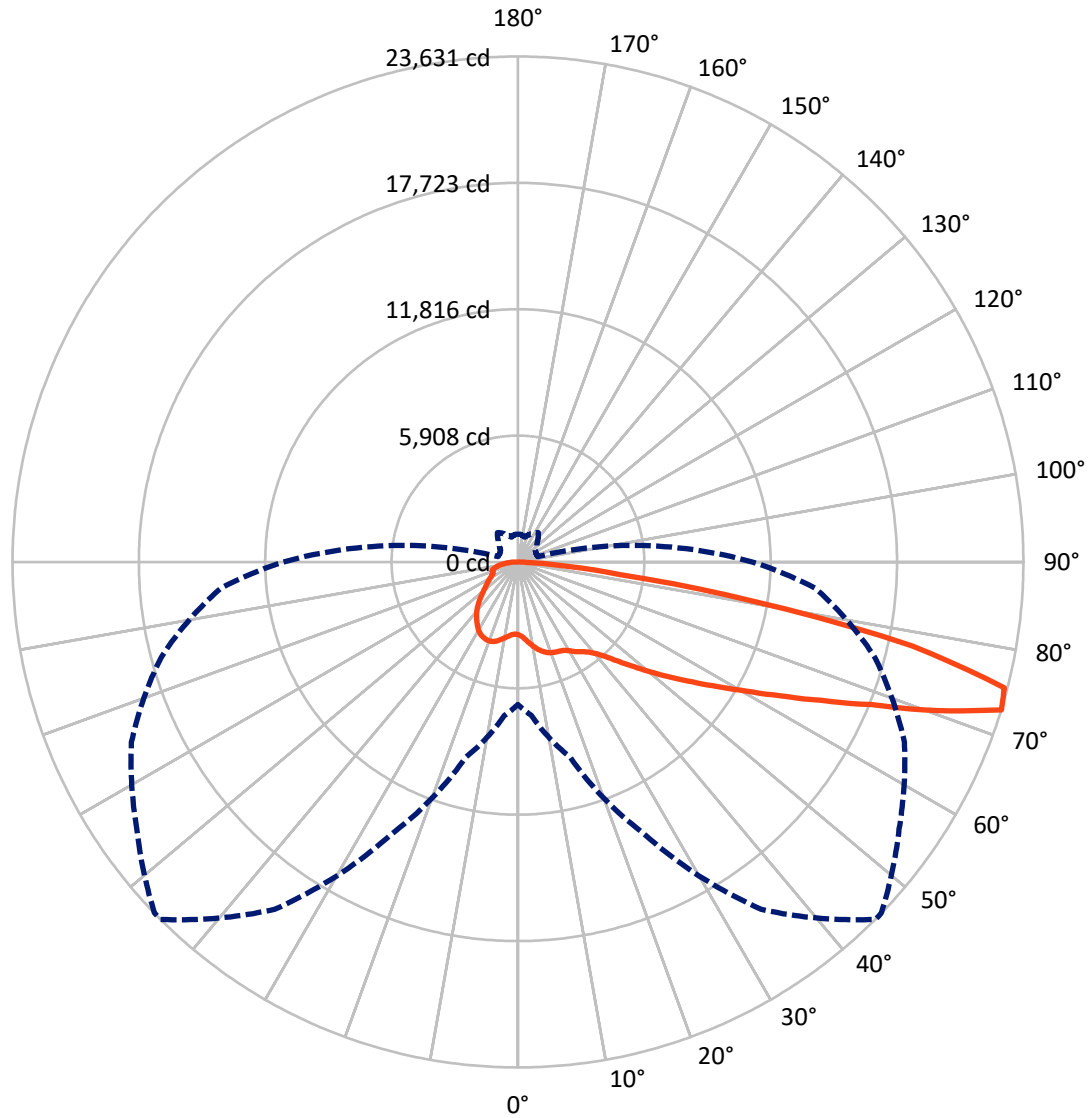
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	7615.0	0.0	7615.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26070.0	0.0	26070.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	33685.0	0.0	33685.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.9	1.0
10°-20°	1153.2	3.4
20°-30°	2006.0	6.0
30°-40°	2875.7	8.5
40°-50°	4049.1	12.0
50°-60°	6202.1	18.4
60°-70°	8984.7	26.7
70°-80°	7174.8	21.3
80°-90°	893.6	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°	33685.0	100.0
0°-180°	33685.0	100.0



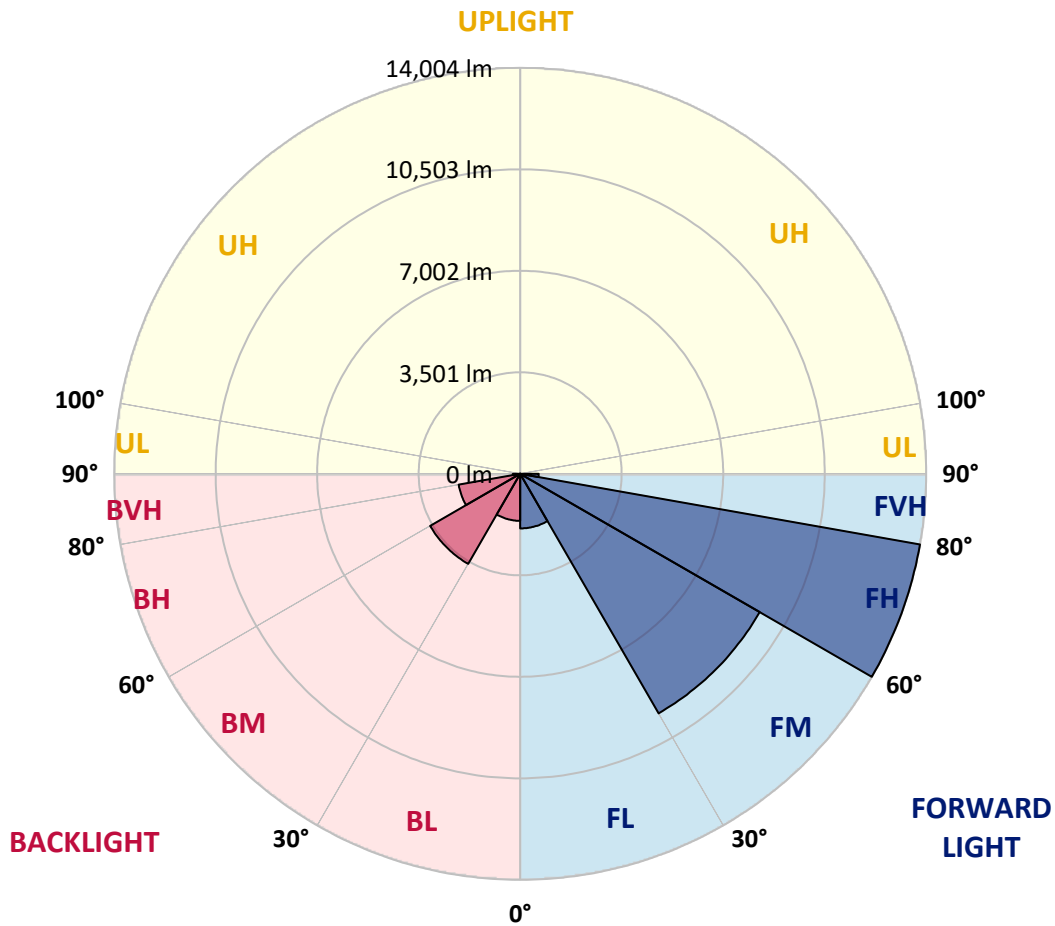
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1883.7	5.6			
FM (30°-60°)	9541.3	28.3			
FH (60°-80°)	14003.8	41.6			G5
FVH (80°-90°)	641.1	1.9			G4/750
BL (0°-30°)	1621.3	4.8	B3/2500		
BM (30°-60°)	3585.6	10.6	B3/5000		
BH (60°-80°)	2155.6	6.4	B3/2500		G3/2500
BVH (80°-90°)	252.5	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°	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2
2.5°	3531.2	3554.3	3533.0	3513.5	3504.6	3481.6	3479.8	3465.6	3456.7	3431.9
5°	3777.9	3808.1	3772.6	3733.5	3698.1	3641.3	3634.2	3593.4	3547.2	3494.0
7.5°	4056.5	4083.1	4042.3	3983.7	3921.6	3827.6	3825.8	3751.3	3678.5	3588.0
10°	4299.6	4335.1	4280.1	4200.2	4122.2	4015.7	4003.3	3918.1	3825.8	3708.7
12.5°	4514.3	4539.2	4485.9	4388.3	4297.8	4191.4	4175.4	4081.3	3978.4	3845.3
15°	4684.7	4716.6	4645.6	4540.9	4445.1	4340.4	4326.2	4241.0	4138.1	3997.9
17.5°	4796.5	4823.1	4750.3	4633.2	4540.9	4454.0	4443.3	4372.4	4281.9	4139.9
20°	4839.1	4867.4	4791.1	4672.2	4587.1	4519.6	4514.3	4462.9	4400.8	4271.2
22.5°	4881.6	4908.3	4808.9	4684.7	4610.1	4567.6	4565.8	4532.1	4507.2	4400.8
25°	5053.8	5060.9	4927.8	4748.6	4642.1	4604.8	4603.0	4601.3	4611.9	4528.5
27.5°	5202.8	5201.0	5087.5	4918.9	4753.9	4675.8	4674.0	4691.8	4725.5	4656.3
30°	5421.1	5401.6	5266.7	5091.0	4940.2	4819.5	4808.9	4792.9	4819.5	4764.5
32.5°	5884.2	5822.1	5603.9	5291.5	5094.6	5002.3	4988.1	4888.7	4899.4	4865.7
35°	6547.9	6466.3	6175.2	5671.3	5286.2	5154.9	5147.8	5021.8	5000.5	4970.4
37.5°	7337.5	7236.4	6897.5	6221.4	5616.3	5332.4	5321.7	5208.1	5121.2	5089.3
40°	8130.7	8003.0	7722.6	6892.1	6102.5	5628.7	5595.0	5422.9	5323.5	5270.3
42.5°	8900.9	8794.4	8554.8	7644.5	6702.3	6061.7	5987.2	5692.6	5618.1	5568.4
45°	9582.3	9486.5	9310.8	8448.4	7405.0	6650.8	6578.1	6097.2	6074.1	6074.1
47.5°	10135.9	10114.6	9928.3	9268.2	8233.7	7321.6	7195.6	6659.7	6721.8	6817.6
50°	10749.9	10691.3	10492.6	10075.6	9207.9	8089.9	7987.0	7350.0	7582.4	7845.0
52.5°	11314.2	11346.1	11124.3	10916.7	10308.1	8947.0	8766.0	8164.5	8666.6	9101.4
55°	11894.5	11896.2	11834.1	11805.7	11461.5	9894.6	9695.8	9144.0	9942.5	10482.0
57.5°	12439.2	12442.8	12535.0	12785.2	12799.4	10987.7	10762.3	10347.1	11360.3	11910.4
60°	12925.4	12950.3	13202.3	13787.8	13975.9	12240.5	12027.5	11768.5	12826.1	13379.7
62.5°	13088.7	13179.2	13739.9	14572.2	15138.2	13777.2	13567.8	13413.4	14366.3	14880.9
65°	12811.9	13019.5	14103.7	15219.9	16334.2	15603.1	15395.5	15227.0	15966.9	16451.4
67.5°	12132.2	12400.2	14082.4	15899.5	17785.8	17800.0	17606.6	17210.8	17682.9	17869.2
70°	10341.8	10742.8	12842.0	16153.2	19452.0	20804.2	20617.9	19599.3	19395.2	18493.8
72.5°	6663.2	7202.7	9456.3	14064.7	19822.9	23631.0	23620.3	21755.3	19936.5	17280.0
75°	2431.1	2761.1	4393.7	8828.1	16639.5	23487.2	23556.4	21386.2	18199.2	13347.8
77.5°	885.5	968.9	1433.8	3392.8	10233.5	18845.2	18988.9	17097.3	12953.8	6698.7
80°	464.9	511.1	734.6	1316.7	4384.8	11191.7	11417.1	10160.8	6088.3	2017.6
82.5°	257.3	278.6	411.7	715.1	1975.0	4785.8	4920.7	4013.9	2141.8	855.3
85°	138.4	147.3	193.4	390.4	965.3	1659.2	1696.4	1199.6	853.5	502.2
87.5°	40.8	49.7	63.9	124.2	378.0	372.6	381.5	237.8	337.2	253.8
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°
3398.2	0°	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2
3424.8	2.5°	3414.1	3408.8	3389.3	3380.4	3369.8	3368.0	3376.9	3378.6	3380.4	3382.2
3463.8	5°	3446.1	3428.3	3410.6	3399.9	3403.5	3405.3	3423.0	3435.4	3444.3	3451.4
3536.6	7.5°	3508.2	3494.0	3463.8	3462.0	3467.4	3483.3	3506.4	3534.8	3550.8	3563.2
3630.6	10°	3600.5	3573.8	3538.3	3543.7	3554.3	3577.4	3625.3	3648.4	3675.0	3698.1
3746.0	12.5°	3694.5	3671.4	3630.6	3634.2	3651.9	3692.7	3738.9	3767.3	3785.0	3802.7
3870.2	15°	3816.9	3776.1	3731.8	3731.8	3763.7	3808.1	3829.4	3852.4	3863.1	3882.6
4003.3	17.5°	3942.9	3889.7	3831.1	3827.6	3866.6	3887.9	3900.3	3903.9	3907.4	3928.7
4132.8	20°	4068.9	4010.4	3927.0	3919.9	3928.7	3925.2	3923.4	3919.9	3925.2	3951.8
4265.9	22.5°	4193.1	4125.7	4010.4	3978.4	3953.6	3919.9	3918.1	3916.3	3919.9	3946.5
4409.6	25°	4338.6	4257.0	4102.6	4006.8	3923.4	3877.3	3882.6	3884.4	3887.9	3909.2
4558.7	27.5°	4496.6	4406.1	4187.8	3997.9	3847.1	3815.2	3806.3	3811.6	3824.0	3857.8
4707.7	30°	4654.5	4548.0	4265.9	3962.5	3751.3	3706.9	3678.5	3691.0	3730.0	3763.7
4837.3	32.5°	4798.2	4691.8	4328.0	3884.4	3628.8	3559.6	3522.4	3538.3	3577.4	3589.8
4981.0	35°	4966.8	4846.2	4354.6	3760.2	3495.8	3389.3	3339.6	3316.5	3336.1	3323.6
5149.6	37.5°	5154.9	5028.9	4351.1	3596.9	3339.6	3217.2	3148.0	3061.0	3020.2	2977.6
5398.0	40°	5433.5	5252.5	4308.5	3399.9	3146.2	3034.4	2910.2	2762.9	2670.6	2587.2
5799.1	42.5°	5813.3	5563.0	4230.4	3183.4	2927.9	2823.2	2654.6	2482.5	2337.0	2198.6
6407.7	45°	6379.3	5969.4	4132.8	2952.8	2691.9	2589.0	2406.2	2212.8	2047.8	1870.3
7271.9	47.5°	7195.6	6516.0	4040.5	2690.1	2443.5	2349.4	2184.4	2005.2	1810.0	1637.9
8521.1	50°	8317.1	7300.3	3955.4	2434.6	2198.6	2127.6	1996.3	1813.5	1616.6	1478.2
9985.1	52.5°	9743.8	8366.8	3919.9	2188.0	1969.7	1943.1	1838.4	1668.0	1481.7	1364.6
11692.2	55°	11381.6	9642.6	3919.9	1951.9	1769.2	1778.0	1705.3	1547.4	1385.9	1281.2
13452.5	57.5°	13053.2	10934.4	3848.9	1733.7	1598.8	1636.1	1589.9	1451.5	1306.0	1197.8
15303.3	60°	14593.5	12016.9	3561.4	1534.9	1448.0	1506.5	1476.4	1357.5	1180.0	1089.5
16850.6	62.5°	15777.0	12627.3	3007.8	1377.0	1323.8	1391.2	1375.2	1233.3	1157.0	1119.7
18121.2	65°	16369.7	12527.9	2299.7	1236.8	1219.1	1323.8	1290.1	1284.7	1224.4	1181.8
18534.6	67.5°	16006.0	11672.6	1668.0	1133.9	1158.7	1261.7	1391.2	1412.5	1300.7	1217.3
17370.5	70°	14410.7	10125.3	1242.1	1036.3	1082.4	1263.4	1586.4	1478.2	1275.9	1178.3
13931.6	72.5°	10962.8	7550.5	963.6	933.4	983.1	1272.3	1673.4	1448.0	1204.9	1302.5
8679.1	75°	6269.3	4145.2	773.7	807.4	858.9	1188.9	1629.0	1369.9	1149.9	1196.0
3439.0	77.5°	2390.2	1593.5	638.8	683.2	690.3	1038.1	1558.0	1364.6	1094.9	1068.2
1031.0	80°	828.7	622.8	528.8	543.0	534.1	922.7	1494.1	1187.1	896.1	802.1
425.9	82.5°	338.9	310.5	418.8	401.0	379.7	716.9	1206.7	970.6	732.9	647.7
205.8	85°	147.3	197.0	276.8	243.1	220.0	496.9	967.1	821.6	619.3	534.1
67.4	87.5°	30.2	74.5	117.1	110.0	113.6	331.8	686.7	583.8	438.3	328.3
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>
3398.2
3389.3
3454.9
3566.7
3692.7
3809.8
3889.7
3935.8
3962.5
3964.2
3937.6
3891.5
3801.0
3634.2
3362.7
3004.2
2592.5
2186.2
1849.0
1618.3
1469.3
1355.7
1270.5
1180.0
1075.3
1107.3
1167.6
1203.1
1162.3
<i>1291.8</i>
1196.0
974.2
775.5
640.6
532.3
257.3
0.0

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