

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: P955539

Luminaire Tested: **GALN-SB8B-950-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955539  
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-SB8B-950-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

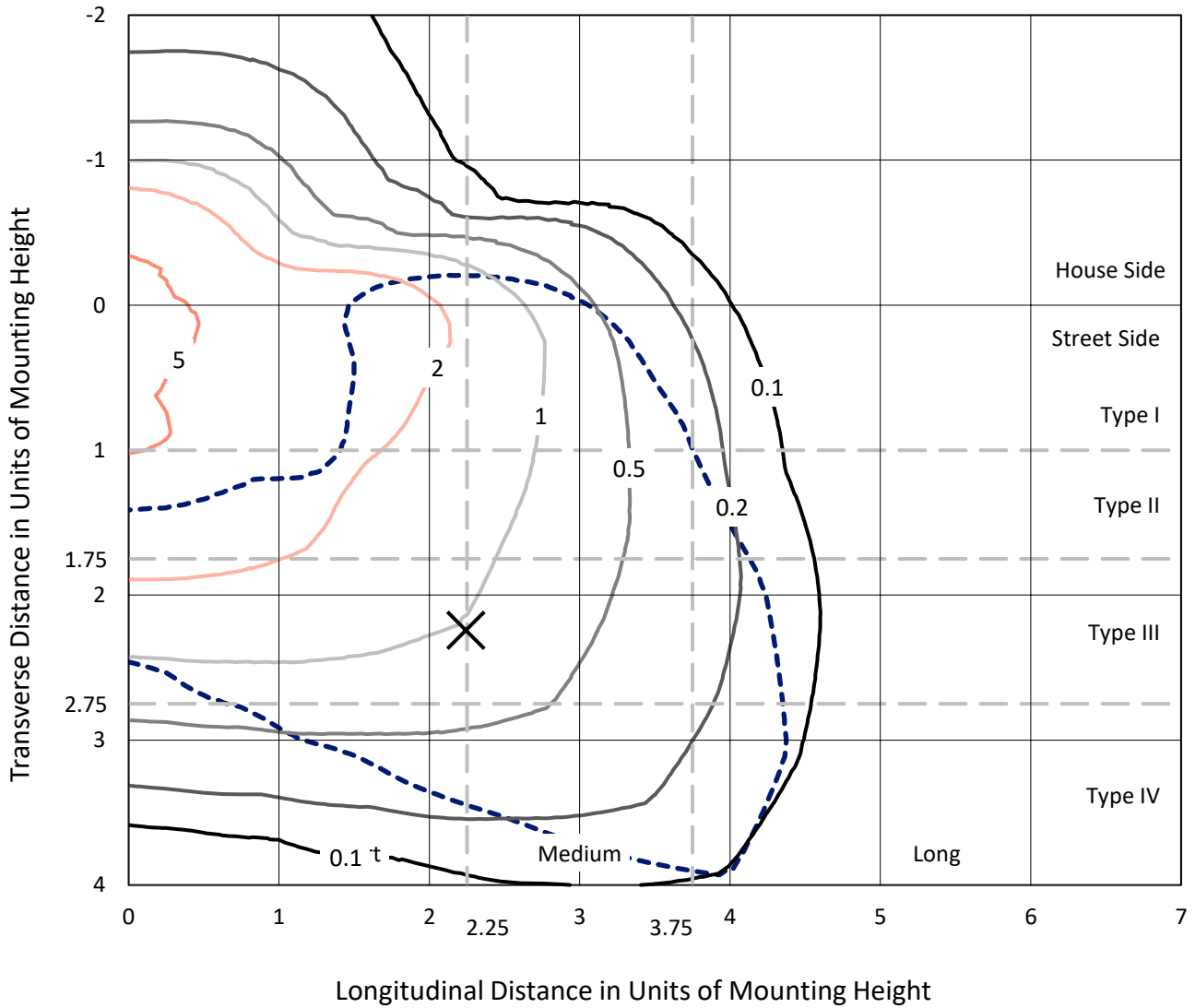
Lumens per Lamp: N/A  
Luminaire Lumens: 31614 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

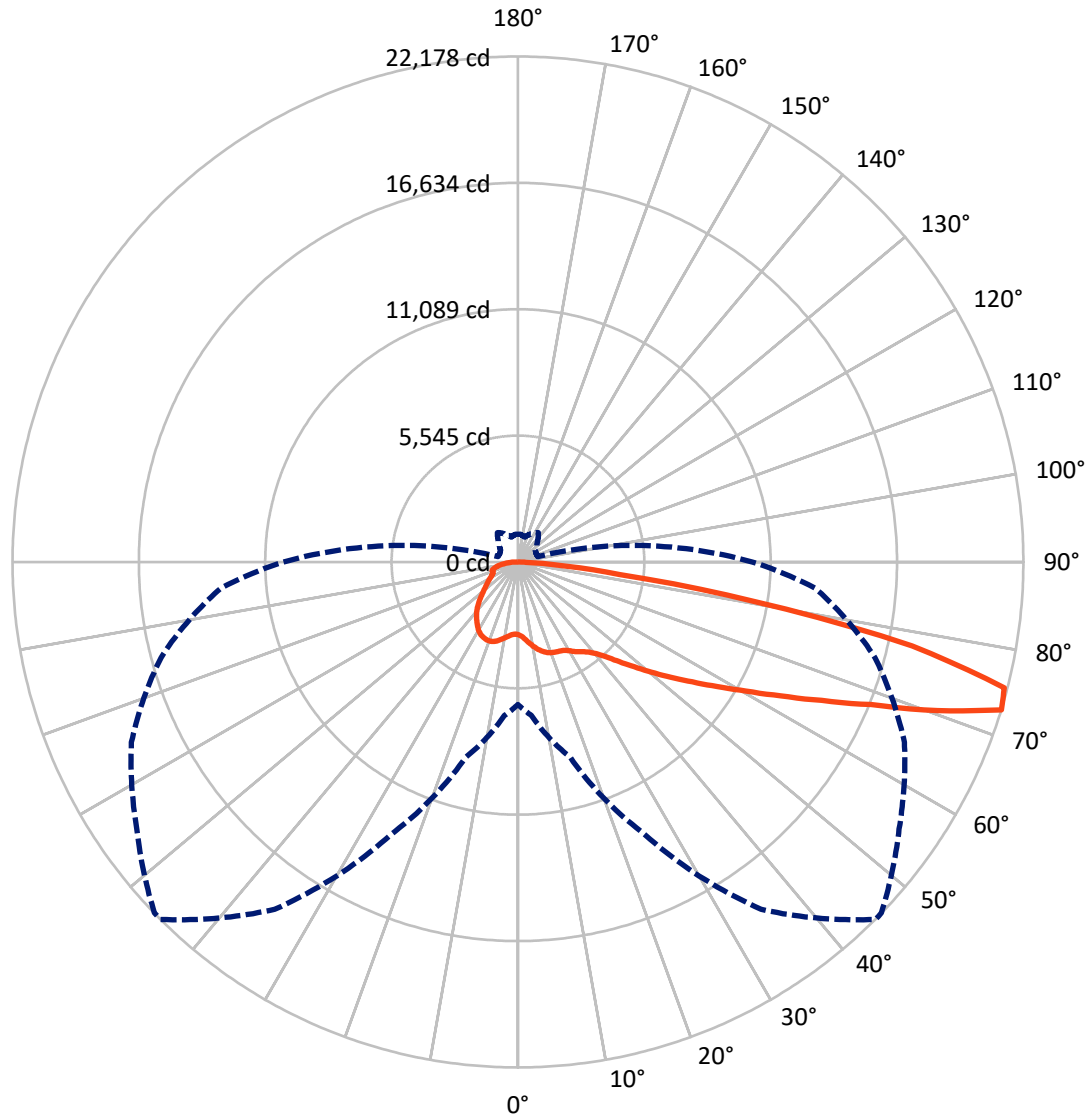
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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
<b>House Side</b>	Lumens	7146.8	0.0	7146.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	24467.2	0.0	24467.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	31614.0	0.0	31614.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.6	1.0
10°-20°	1082.3	3.4
20°-30°	1882.7	6.0
30°-40°	2698.9	8.5
40°-50°	3800.2	12.0
50°-60°	5820.8	18.4
60°-70°	8432.3	26.7
70°-80°	6733.7	21.3
80°-90°	838.7	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°	31614.0	100.0
0°-180°	31614.0	100.0



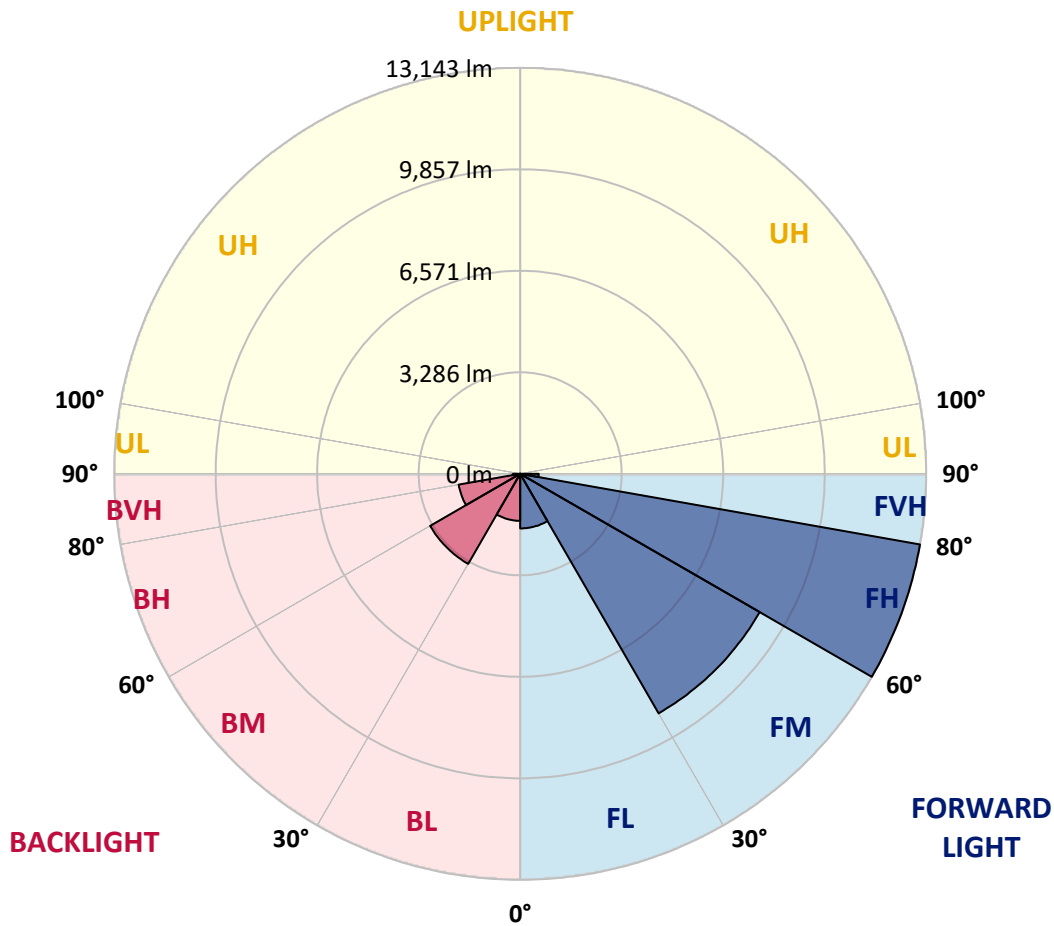
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1767.9	5.6			
FM (30°-60°)	8954.7	28.3			
FH (60°-80°)	13142.9	41.6			G5
FVH (80°-90°)	601.7	1.9			G4/750
BL (0°-30°)	1521.6	4.8	B3/2500		
BM (30°-60°)	3365.1	10.6	B3/5000		
BH (60°-80°)	2023.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	237.0	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°	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2
2.5°	3314.1	3335.8	3315.8	3297.5	3289.2	3267.5	3265.8	3252.5	3244.2	3220.9
5°	3545.6	3573.9	3540.6	3504.0	3470.7	3417.4	3410.7	3372.4	3329.1	3279.2
7.5°	3807.1	3832.1	3793.8	3738.8	3680.5	3592.3	3590.6	3520.7	3452.4	3367.4
10°	4035.3	4068.6	4016.9	3942.0	3868.7	3768.8	3757.1	3677.2	3590.6	3480.7
12.5°	4236.8	4260.1	4210.1	4118.5	4033.6	3933.7	3918.7	3830.4	3733.8	3608.9
15°	4396.7	4426.6	4360.0	4261.8	4171.8	4073.6	4060.2	3980.3	3883.7	3752.1
17.5°	4501.6	4526.6	4458.3	4348.4	4261.8	4180.1	4170.2	4103.5	4018.6	3885.4
20°	4541.5	4568.2	4496.6	4385.0	4305.1	4241.8	4236.8	4188.5	4130.2	4008.6
22.5°	4581.5	4606.5	4513.2	4396.7	4326.7	4286.7	4285.1	4253.4	4230.1	4130.2
25°	4743.1	4749.7	4624.8	4456.6	4356.7	4321.7	4320.0	4318.4	4328.4	4250.1
27.5°	4882.9	4881.3	4774.7	4616.5	4461.6	4388.3	4386.7	4403.3	4435.0	4370.0
30°	5087.8	5069.5	4942.9	4778.0	4636.5	4523.2	4513.2	4498.2	4523.2	4471.6
32.5°	5522.5	5464.2	5259.3	4966.2	4781.4	4694.8	4681.4	4588.2	4598.2	4566.5
35°	6145.3	6068.7	5795.6	5322.6	4961.2	4838.0	4831.3	4713.1	4693.1	4664.8
37.5°	6886.4	6791.5	6473.4	5838.9	5271.0	5004.5	4994.5	4887.9	4806.3	4776.4
40°	7630.9	7510.9	7247.8	6468.4	5727.3	5282.6	5251.0	5089.5	4996.2	4946.2
42.5°	8353.6	8253.7	8028.9	7174.5	6290.2	5689.0	5619.1	5342.6	5272.7	5226.0
45°	8993.1	8903.2	8738.3	7929.0	6949.7	6241.9	6173.6	5722.3	5700.7	5700.7
47.5°	9512.8	9492.8	9317.9	8698.4	7727.4	6871.4	6753.2	6250.2	6308.5	6398.5
50°	10089.0	10034.0	9847.5	9456.1	8641.8	7592.5	7496.0	6898.1	7116.2	7362.7
52.5°	10618.6	10648.6	10440.4	10245.5	9674.3	8396.9	8227.1	7662.5	8133.8	8541.8
55°	11163.2	11164.8	11106.5	11079.9	10756.8	9286.3	9099.7	8581.8	9331.2	9837.5
57.5°	11674.4	11677.8	11764.4	11999.2	12012.5	10312.1	10100.6	9710.9	10661.9	11178.2
60°	12130.8	12154.1	12390.6	12940.1	13116.7	11487.9	11288.1	11044.9	12037.5	12557.1
62.5°	12284.0	12368.9	12895.2	13676.2	14207.5	12930.2	12733.6	12588.7	13483.1	13966.0
65°	12024.2	12219.0	13236.6	14284.1	15330.0	14643.8	14449.0	14290.8	14985.3	15439.9
67.5°	11386.3	11637.8	13216.6	14922.0	16692.3	16705.6	16524.1	16152.7	16595.7	16770.6
70°	9705.9	10082.3	12052.5	15160.1	18256.1	19525.1	19350.3	18394.3	18202.8	17356.8
72.5°	6253.6	6759.9	8874.9	13199.9	18604.2	22178.1	22168.1	20417.8	18710.7	16217.6
75°	2281.6	2591.4	4123.5	8285.4	15616.4	22043.2	22108.2	20071.4	17080.3	12527.1
77.5°	831.0	909.3	1345.6	3184.2	9604.4	17686.5	17821.4	16046.1	12157.4	6286.9
80°	436.3	479.6	689.5	1235.7	4115.2	10503.7	10715.2	9536.1	5714.0	1893.6
82.5°	241.5	261.5	386.4	671.2	1853.6	4491.6	4618.1	3767.1	2010.1	802.7
85°	129.9	138.2	181.5	366.4	906.0	1557.1	1592.1	1125.8	801.1	471.3
87.5°	38.3	46.6	60.0	116.6	354.7	349.7	358.1	223.2	316.4	238.2
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°
3189.2	0°	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2
3214.2	2.5°	3204.2	3199.2	3180.9	3172.6	3162.6	3160.9	3169.3	3170.9	3172.6	3174.2
3250.9	5°	3234.2	3217.5	3200.9	3190.9	3194.2	3195.9	3212.6	3224.2	3232.5	3239.2
3319.1	7.5°	3292.5	3279.2	3250.9	3249.2	3254.2	3269.2	3290.8	3317.5	3332.5	3344.1
3407.4	10°	3379.1	3354.1	3320.8	3325.8	3335.8	3357.4	3402.4	3424.1	3449.0	3470.7
3515.7	12.5°	3467.4	3445.7	3407.4	3410.7	3427.4	3465.7	3509.0	3535.6	3552.3	3568.9
3632.2	15°	3582.3	3544.0	3502.3	3502.3	3532.3	3573.9	3593.9	3615.6	3625.6	3643.9
3757.1	17.5°	3700.5	3650.6	3595.6	3592.3	3628.9	3648.9	3660.5	3663.9	3667.2	3687.2
3878.7	20°	3818.8	3763.8	3685.5	3678.9	3687.2	3683.9	3682.2	3678.9	3683.9	3708.8
4003.6	22.5°	3935.3	3872.1	3763.8	3733.8	3710.5	3678.9	3677.2	3675.5	3678.9	3703.8
4138.5	25°	4071.9	3995.3	3850.4	3760.5	3682.2	3638.9	3643.9	3645.6	3648.9	3668.9
4278.4	27.5°	4220.1	4135.2	3930.3	3752.1	3610.6	3580.6	3572.3	3577.3	3588.9	3620.6
4418.3	30°	4368.3	4268.4	4003.6	3718.8	3520.7	3479.0	3452.4	3464.0	3500.7	3532.3
4539.9	32.5°	4503.2	4403.3	4061.9	3645.6	3405.7	3340.8	3305.8	3320.8	3357.4	3369.1
4674.8	35°	4661.4	4548.2	4086.9	3529.0	3280.8	3180.9	3134.3	3112.6	3130.9	3119.3
4833.0	37.5°	4838.0	4719.7	4083.6	3375.8	3134.3	3019.4	2954.4	2872.8	2834.5	2794.5
5066.1	40°	5099.4	4929.6	4043.6	3190.9	2952.8	2847.8	2731.3	2593.0	2506.4	2428.2
5442.5	42.5°	5455.8	5221.0	3970.3	2987.7	2747.9	2649.6	2491.4	2329.9	2193.3	2063.4
6013.8	45°	5987.1	5602.4	3878.7	2771.2	2526.4	2429.8	2258.3	2076.8	1921.9	1755.3
6824.8	47.5°	6753.2	6115.3	3792.1	2524.7	2293.3	2205.0	2050.1	1881.9	1698.7	1537.2
7997.2	50°	7805.7	6851.4	3712.2	2284.9	2063.4	1996.8	1873.6	1702.0	1517.2	1387.3
9371.2	52.5°	9144.7	7852.4	3678.9	2053.4	1848.6	1823.6	1725.4	1565.5	1390.6	1280.7
10973.3	55°	10681.9	9049.8	3678.9	1831.9	1660.4	1668.7	1600.4	1452.2	1300.7	1202.4
12625.4	57.5°	12250.7	10262.2	3612.2	1627.1	1500.5	1535.5	1492.2	1362.3	1225.7	1124.1
14362.4	60°	13696.2	11278.1	3342.5	1440.6	1359.0	1413.9	1385.6	1274.0	1107.5	1022.6
15814.6	62.5°	14807.1	11851.0	2822.8	1292.3	1242.4	1305.7	1290.7	1157.5	1085.8	1050.9
17007.0	65°	15363.3	11757.7	2158.4	1160.8	1144.1	1242.4	1210.7	1205.7	1149.1	1109.2
17395.1	67.5°	15021.9	10955.0	1565.5	1064.2	1087.5	1184.1	1305.7	1325.7	1220.7	1142.5
16302.6	70°	13524.7	9502.8	1165.8	972.6	1015.9	1185.8	1488.9	1387.3	1197.4	1105.8
13075.0	72.5°	10288.8	7086.3	904.3	876.0	922.6	1194.1	1570.5	1359.0	1130.8	1222.4
8145.5	75°	5883.9	3890.4	726.1	757.8	806.1	1115.8	1528.8	1285.7	1079.2	1122.5
3227.5	77.5°	2243.3	1495.5	599.5	641.2	647.8	974.3	1462.2	1280.7	1027.6	1002.6
967.6	80°	777.7	584.6	496.3	509.6	501.3	866.0	1402.3	1114.2	841.0	752.8
399.7	82.5°	318.1	291.4	393.0	376.4	356.4	672.8	1132.5	911.0	687.8	607.9
193.2	85°	138.2	184.9	259.8	228.2	206.5	466.3	907.6	771.1	581.2	501.3
63.3	87.5°	28.3	69.9	109.9	103.3	106.6	311.4	644.5	547.9	411.4	308.1
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>
3189.2
3180.9
3242.5
3347.5
3465.7
3575.6
3650.6
3693.9
3718.8
3720.5
3695.5
3652.2
3567.3
3410.7
3155.9
2819.5
2433.1
2051.8
1735.3
1518.8
1378.9
1272.4
1192.4
1107.5
1009.2
1039.2
1095.8
1129.1
1090.8
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1122.5
914.3
727.8
601.2
499.6
241.5
0.0

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