

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: P955812

Luminaire Tested: **GALN-SB8C-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955812
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-SB8C-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36789 lumens
Efficiency: N/A
Efficacy: 92.0 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

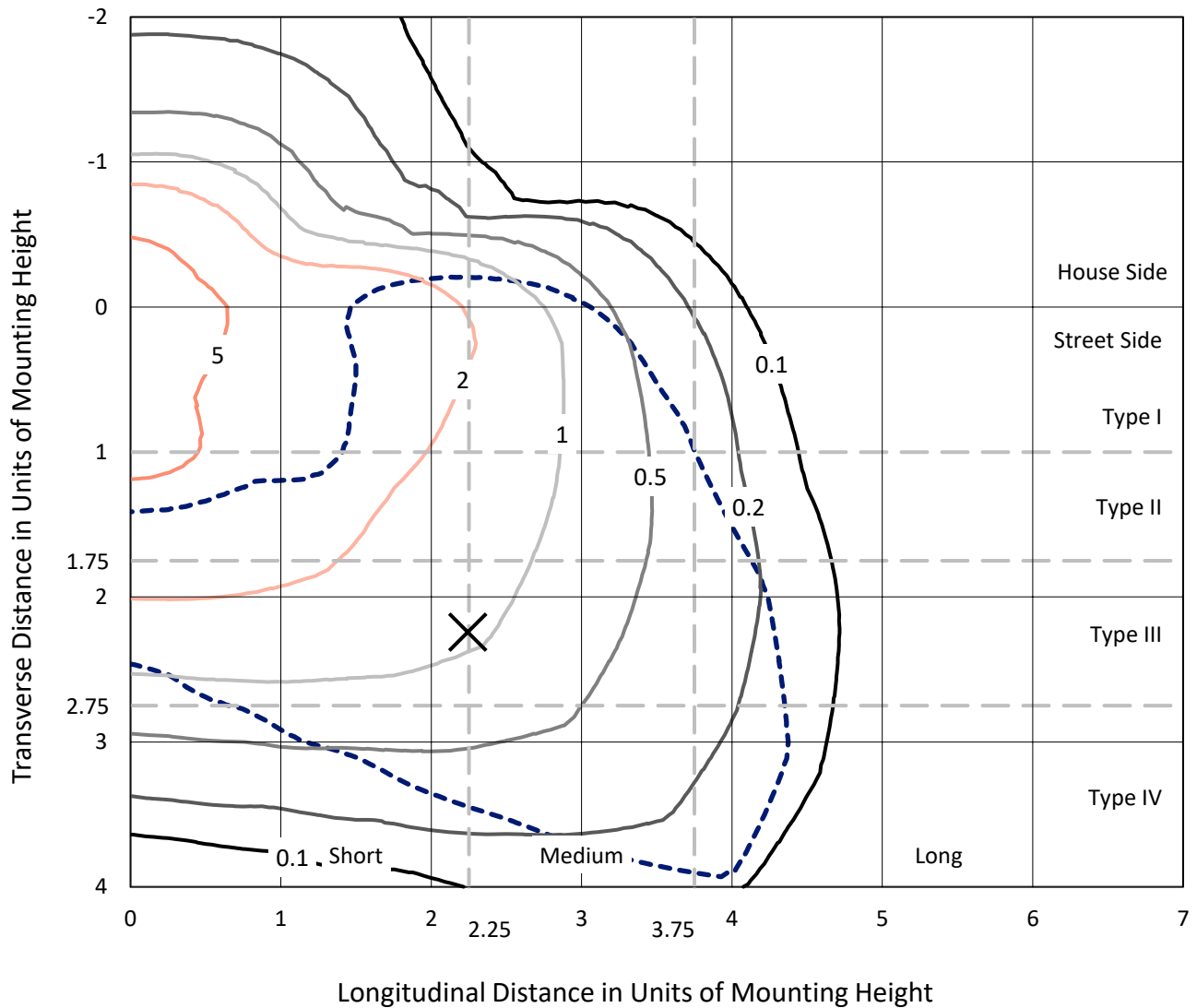
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

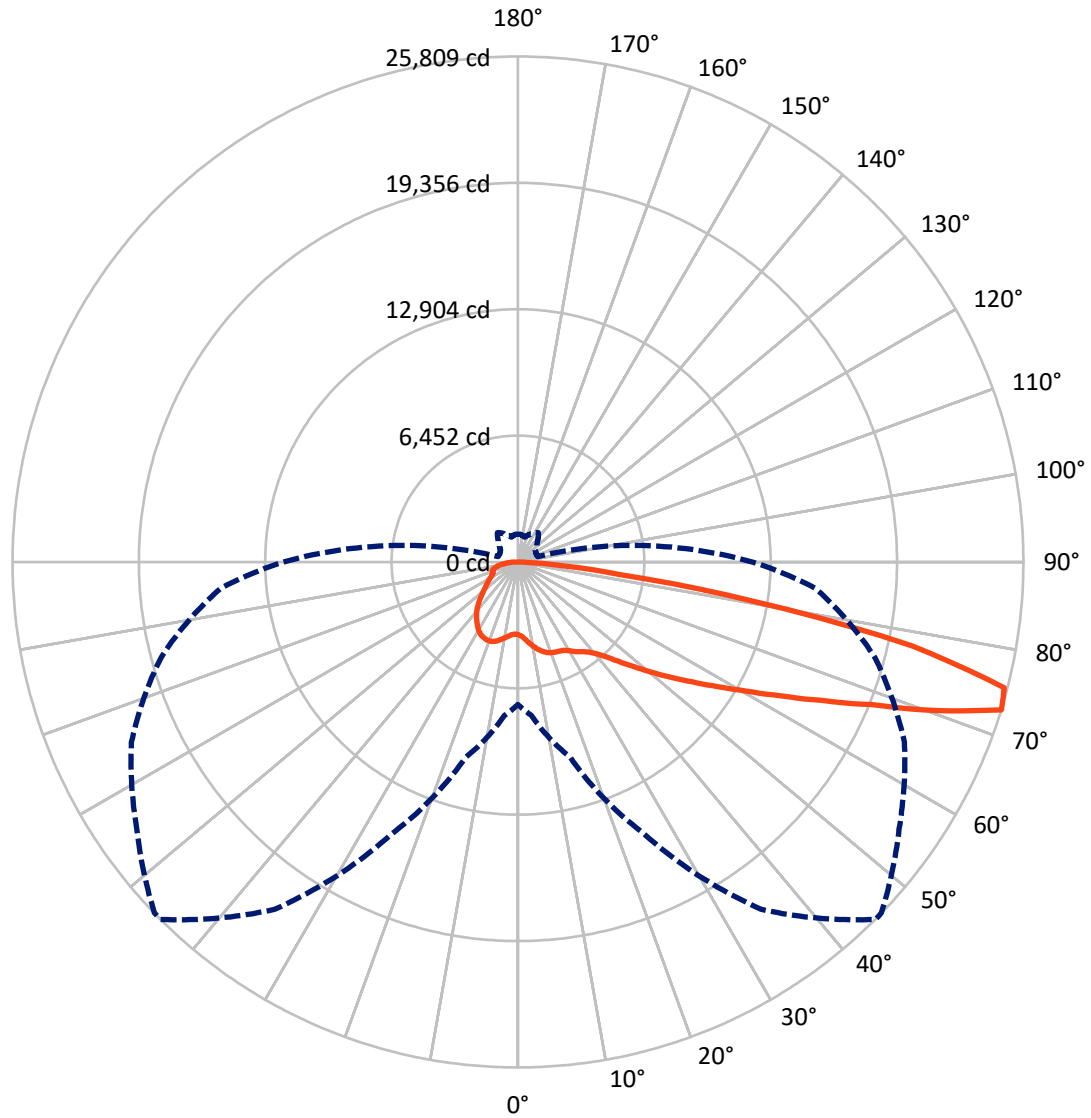
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	8316.7	0.0	8316.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	28472.3	0.0	28472.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	36789.0	0.0	36789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.7	1.0
10°-20°	1259.4	3.4
20°-30°	2190.8	6.0
30°-40°	3140.7	8.5
40°-50°	4422.3	12.0
50°-60°	6773.6	18.4
60°-70°	9812.6	26.7
70°-80°	7835.9	21.3
80°-90°	975.9	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°	36789.0	100.0
0°-180°	36789.0	100.0

Coefficient of Utilization



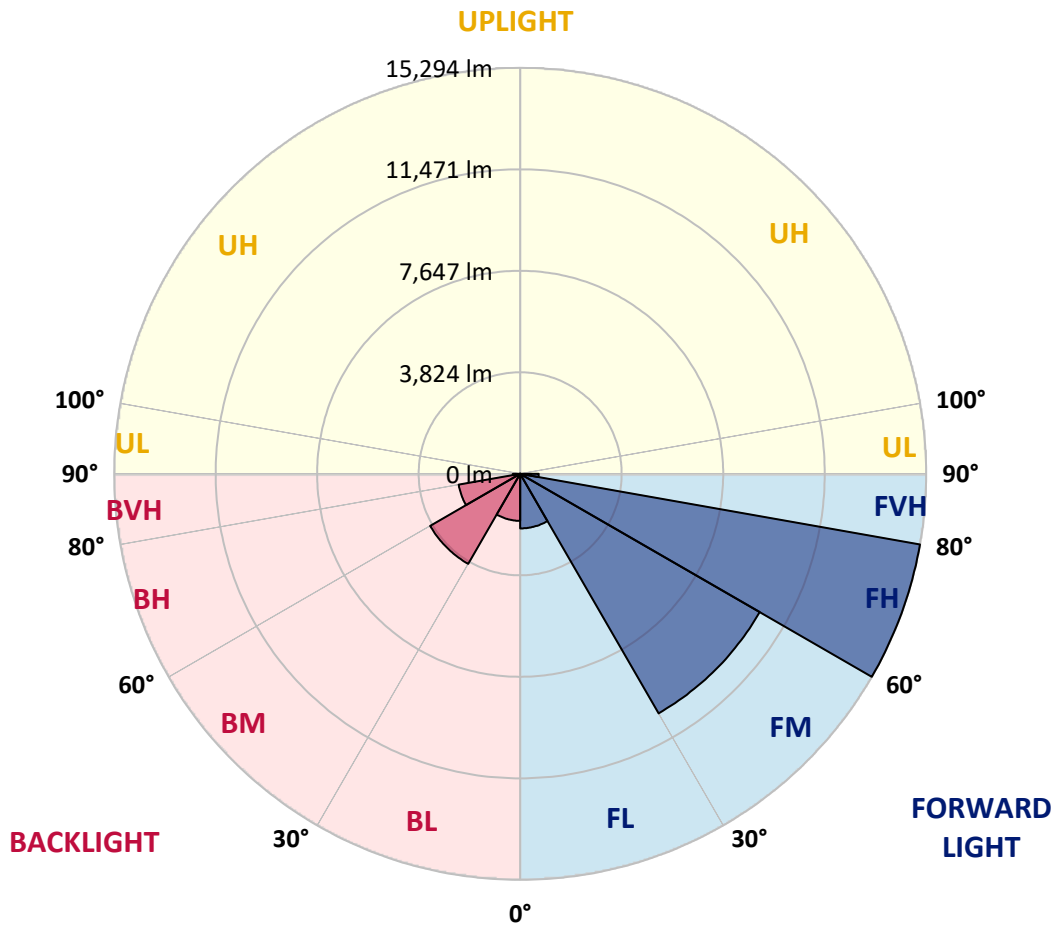
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2057.3	5.6			
FM (30°-60°)	10420.6	28.3			
FH (60°-80°)	15294.3	41.6			G5
FVH (80°-90°)	700.1	1.9			G4/750
BL (0°-30°)	1770.7	4.8	B3/2500		
BM (30°-60°)	3916.0	10.6	B3/5000		
BH (60°-80°)	2354.2	6.4	B3/2500		G3/2500
BVH (80°-90°)	275.8	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°	3711.3	3711.3	3711.3	3711.3	3711.3	3711.3	3711.3	3711.3	3711.3	3711.3
2.5°	3856.6	3881.8	3858.6	3837.3	3827.6	3802.4	3800.4	3784.9	3775.2	3748.1
5°	4126.0	4159.0	4120.2	4077.6	4038.8	3976.8	3969.0	3924.5	3874.1	3815.9
7.5°	4430.3	4459.4	4414.8	4350.8	4283.0	4180.3	4178.4	4097.0	4017.5	3918.7
10°	4695.8	4734.6	4674.5	4587.3	4502.0	4385.7	4372.2	4279.1	4178.4	4050.4
12.5°	4930.3	4957.4	4899.3	4792.7	4693.9	4577.6	4560.1	4457.4	4345.0	4199.7
15°	5116.4	5151.2	5073.7	4959.4	4854.7	4740.4	4724.9	4631.9	4519.4	4366.3
17.5°	5238.4	5267.5	5188.1	5060.2	4959.4	4864.4	4852.8	4775.3	4676.4	4521.4
20°	5285.0	5316.0	5232.6	5102.8	5009.8	4936.1	4930.3	4874.1	4806.3	4664.8
22.5°	5331.5	5360.5	5252.0	5116.4	5035.0	4988.4	4986.5	4949.7	4922.6	4806.3
25°	5519.5	5527.2	5381.9	5186.1	5069.8	5029.1	5027.2	5025.3	5036.9	4945.8
27.5°	5682.3	5680.3	5556.3	5372.2	5191.9	5106.7	5104.7	5124.1	5160.9	5085.3
30°	5920.6	5899.3	5752.0	5560.2	5395.4	5263.6	5252.0	5234.6	5263.6	5203.6
32.5°	6426.4	6358.6	6120.2	5779.2	5564.0	5463.3	5447.8	5339.2	5350.9	5314.0
35°	7151.3	7062.1	6744.3	6193.9	5773.3	5629.9	5622.2	5484.6	5461.3	5428.4
37.5°	8013.7	7903.2	7533.1	6794.7	6133.8	5823.7	5812.1	5688.1	5593.1	5558.2
40°	8880.0	8740.4	8434.2	7527.2	6664.8	6147.4	6110.6	5922.6	5814.0	5755.9
42.5°	9721.1	9604.8	9343.2	8349.0	7319.9	6620.3	6538.9	6217.1	6135.7	6081.5
45°	10465.3	10360.6	10168.8	9226.9	8087.3	7263.7	7184.2	6659.0	6633.8	6633.8
47.5°	11069.9	11046.7	10843.2	10122.2	8992.4	7996.2	7858.6	7273.4	7341.2	7445.8
50°	11740.5	11676.5	11459.5	11004.0	10056.3	8835.4	8723.0	8027.2	8281.1	8568.0
52.5°	12356.8	12391.7	12149.4	11922.7	11257.9	9771.5	9573.8	8916.8	9465.3	9940.1
55°	12990.5	12992.4	12924.6	12893.6	12517.6	10806.4	10589.3	9986.6	10858.7	11447.8
57.5°	13585.5	13589.3	13690.1	13963.4	13978.9	12000.2	11754.0	11300.6	12407.2	13007.9
60°	14116.5	14143.6	14418.8	15058.4	15263.8	13368.4	13135.8	12852.9	14008.0	14612.6
62.5°	14294.8	14393.6	15006.0	15915.0	16533.2	15046.7	14818.0	14649.4	15690.1	16252.2
65°	13992.5	14219.2	15403.3	16622.3	17839.4	17040.9	16814.2	16630.1	17438.2	17967.3
67.5°	13250.2	13542.8	15380.1	17364.6	19424.7	19440.2	19229.0	18796.8	19312.3	19515.8
70°	11294.7	11732.7	14025.4	17641.7	21244.5	22721.3	22517.8	21405.3	21182.5	20198.0
72.5°	7277.2	7866.4	10327.7	15360.7	21649.5	25808.5	25796.9	23760.0	21773.6	18872.4
75°	2655.1	3015.5	4798.5	9641.6	18172.7	25651.5	25727.1	23356.9	19876.3	14577.7
77.5°	967.1	1058.2	1565.9	3705.5	11176.5	20581.7	20738.7	18672.8	14147.5	7316.0
80°	507.8	558.1	802.3	1438.0	4788.8	12223.0	12469.2	11097.1	6649.3	2203.5
82.5°	281.0	304.3	449.6	781.0	2157.0	5226.8	5374.1	4383.8	2339.2	934.1
85°	151.2	160.9	211.2	426.4	1054.3	1812.0	1852.7	1310.1	932.2	548.5
87.5°	44.6	54.3	69.8	135.7	412.8	407.0	416.7	259.7	368.2	277.1
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°
3711.3	0°	3711.3	3711.3	3711.3	3711.3	3711.3	3711.3	3711.3	3711.3	3711.3	3711.3
3740.4	2.5°	3728.7	3722.9	3701.6	3691.9	3680.3	3678.3	3688.0	3690.0	3691.9	3693.9
3783.0	5°	3763.6	3744.2	3724.9	3713.2	3717.1	3719.0	3738.4	3752.0	3761.7	3769.4
3862.5	7.5°	3831.5	3815.9	3783.0	3781.1	3786.9	3804.3	3829.5	3860.5	3878.0	3891.5
3965.2	10°	3932.2	3903.2	3864.4	3870.2	3881.8	3907.0	3959.4	3984.6	4013.6	4038.8
4091.1	12.5°	4034.9	4009.7	3965.2	3969.0	3988.4	4033.0	4083.4	4114.4	4133.8	4153.2
4226.8	15°	4168.7	4124.1	4075.6	4075.6	4110.5	4159.0	4182.2	4207.4	4219.1	4240.4
4372.2	17.5°	4306.3	4248.1	4184.2	4180.3	4222.9	4246.2	4259.8	4263.6	4267.5	4290.8
4513.6	20°	4443.9	4379.9	4288.8	4281.1	4290.8	4286.9	4284.9	4281.1	4286.9	4316.0
4659.0	22.5°	4579.5	4505.9	4379.9	4345.0	4317.9	4281.1	4279.1	4277.2	4281.1	4310.1
4816.0	25°	4738.4	4649.3	4480.7	4376.0	4284.9	4234.6	4240.4	4242.3	4246.2	4269.4
4978.8	27.5°	4910.9	4812.1	4573.7	4366.3	4201.6	4166.7	4157.0	4162.9	4176.4	4213.2
5141.5	30°	5083.4	4967.1	4659.0	4327.6	4097.0	4048.5	4017.5	4031.1	4073.7	4110.5
5283.0	32.5°	5240.4	5124.1	4726.8	4242.3	3963.2	3887.7	3847.0	3864.4	3907.0	3920.6
5440.0	35°	5424.5	5292.7	4755.9	4106.6	3817.9	3701.6	3647.3	3622.1	3643.5	3629.9
5624.1	37.5°	5629.9	5492.3	4752.0	3928.4	3647.3	3513.6	3438.0	3343.1	3298.5	3252.0
5895.4	40°	5934.2	5736.5	4705.5	3713.2	3436.1	3314.0	3178.3	3017.5	2916.7	2825.6
6333.4	42.5°	6348.9	6075.7	4620.2	3476.8	3197.7	3083.4	2899.3	2711.3	2552.4	2401.2
6998.2	45°	6967.2	6519.5	4513.6	3224.9	2940.0	2827.6	2627.9	2416.7	2236.5	2042.7
7942.0	47.5°	7858.6	7116.4	4412.9	2938.0	2668.6	2565.9	2385.7	2190.0	1976.8	1788.8
9306.3	50°	9083.5	7973.0	4319.8	2659.0	2401.2	2323.7	2180.3	1980.6	1765.5	1614.4
10905.2	52.5°	10641.6	9137.7	4281.1	2389.6	2151.2	2122.1	2007.8	1821.7	1618.2	1490.3
12769.6	55°	12430.4	10531.2	4281.1	2131.8	1932.2	1941.9	1862.4	1689.9	1513.6	1399.2
14692.1	57.5°	14256.0	11942.0	4203.5	1893.4	1746.1	1786.8	1736.5	1585.3	1426.4	1308.2
16713.4	60°	15938.2	13124.2	3889.6	1676.4	1581.4	1645.4	1612.4	1482.6	1288.8	1189.9
18403.4	62.5°	17230.9	13790.9	3284.9	1503.9	1445.8	1519.4	1502.0	1346.9	1263.6	1222.9
19791.0	65°	17878.2	13682.4	2511.7	1350.8	1331.4	1445.8	1408.9	1403.1	1337.2	1290.7
20242.5	67.5°	17480.9	12748.2	1821.7	1238.4	1265.5	1377.9	1519.4	1542.7	1420.6	1329.5
18971.2	70°	15738.6	11058.3	1356.6	1131.8	1182.2	1379.9	1732.6	1614.4	1393.4	1286.8
15215.3	72.5°	11973.0	8246.2	1052.3	1019.4	1073.7	1389.6	1827.5	1581.4	1315.9	1422.5
9478.8	75°	6847.0	4527.2	845.0	881.8	938.0	1298.5	1779.1	1496.1	1255.8	1306.2
3755.9	77.5°	2610.5	1740.3	697.7	746.1	753.9	1133.7	1701.6	1490.3	1195.8	1166.7
1126.0	80°	905.1	680.2	577.5	593.0	583.3	1007.8	1631.8	1296.5	978.7	876.0
465.1	82.5°	370.2	339.2	457.4	438.0	414.7	783.0	1317.8	1060.1	800.4	707.4
224.8	85°	160.9	215.1	302.3	265.5	240.3	542.6	1056.2	897.3	676.4	583.3
73.6	87.5°	32.9	81.4	127.9	120.2	124.0	362.4	750.0	637.6	478.7	358.5
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>
3711.3
3701.6
3773.3
3895.4
4033.0
4160.9
4248.1
4298.5
4327.6
4329.5
4300.4
4250.1
4151.2
3969.0
3672.5
3281.1
2831.4
2387.6
2019.4
1767.5
1604.7
1480.6
1387.6
1288.8
1174.4
1209.3
1275.2
1314.0
1269.4
<i>1410.9</i>
1306.2
1064.0
846.9
699.6
581.4
281.0
0.0

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