

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: P952406

Luminaire Tested: **GALN-SB6B-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952406
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-SB6B-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34605 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

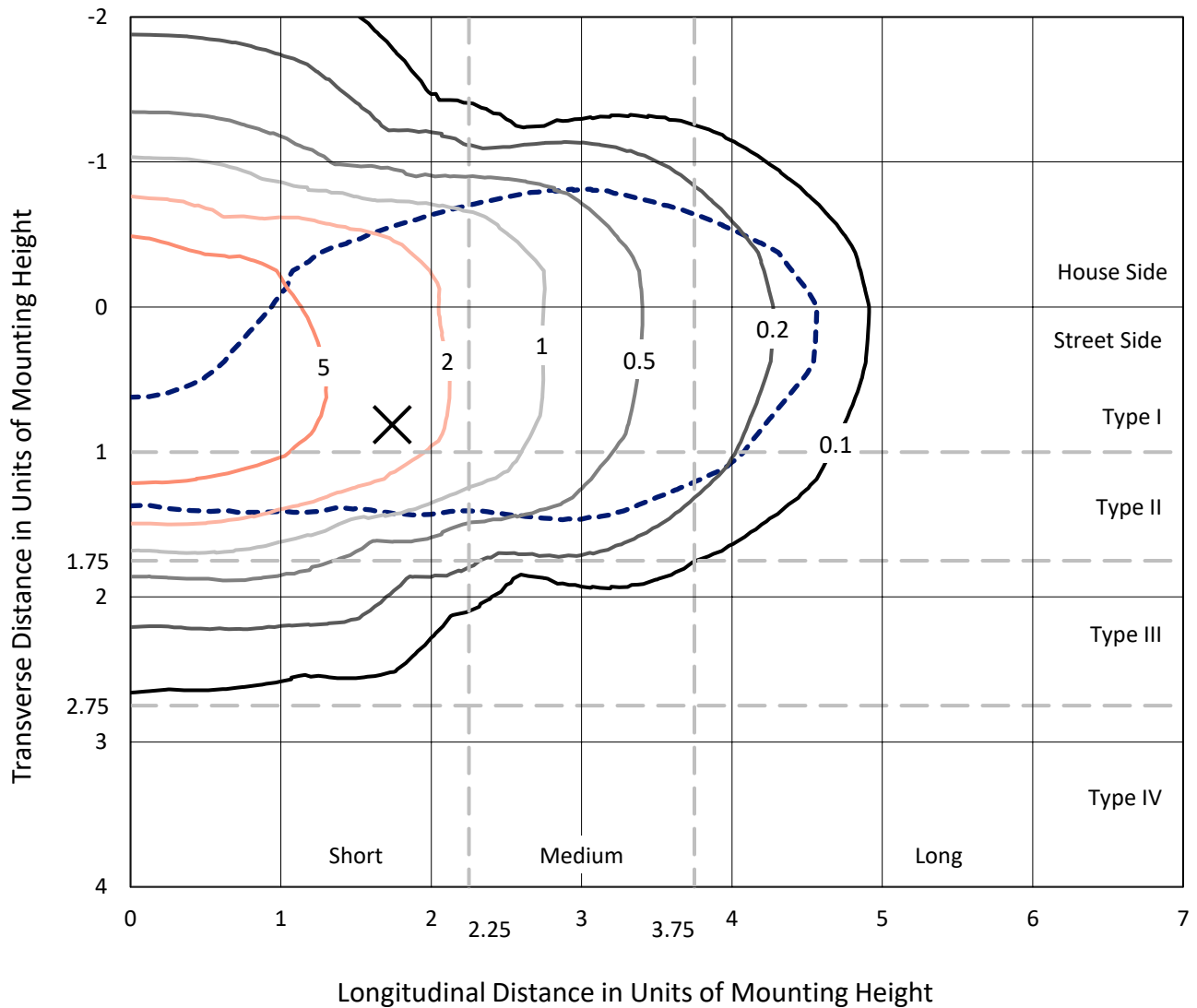
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

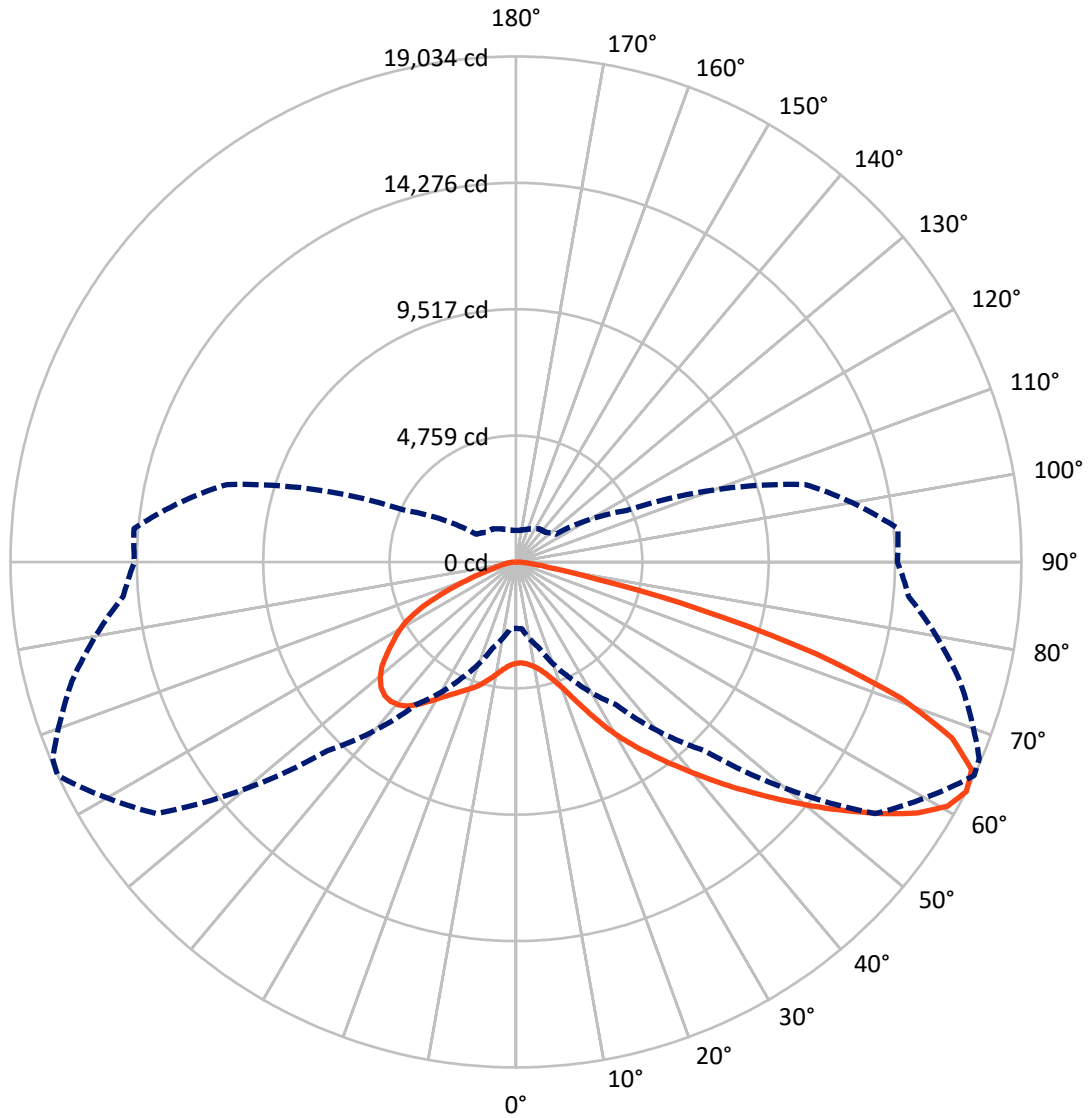
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	10919.8	0.0	10919.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	23685.2	0.0	23685.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	34605.0	0.0	34605.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.2	1.1
10°-20°	1289.2	3.7
20°-30°	2614.1	7.6
30°-40°	4523.6	13.1
40°-50°	6845.6	19.8
50°-60°	8026.0	23.2
60°-70°	6728.9	19.4
70°-80°	3714.9	10.7
80°-90°	482.6	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°	34605.0	100.0
0°-180°	34605.0	100.0

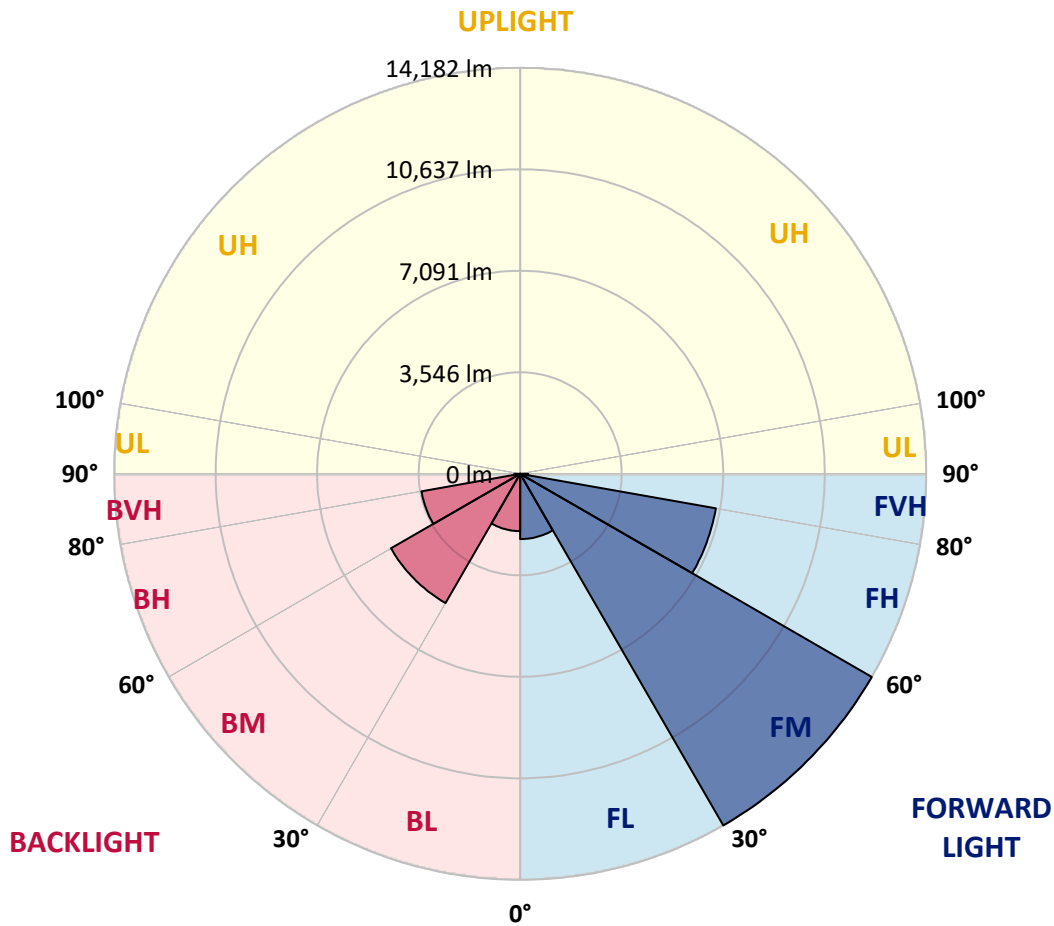


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2280.9	6.6			
FM (30°-60°)	14182.3	41.0			
FH (60°-80°)	6940.7	20.1			G3/7500
FVH (80°-90°)	281.2	0.8			G3/500
BL (0°-30°)	2002.6	5.8	B3/2500		
BM (30°-60°)	5213.0	15.1	B4/8500		
BH (60°-80°)	3503.0	10.1	B4/5000		G4/5000
BVH (80°-90°)	201.3	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°	3813.3	3813.3	3813.3	3813.3	3813.3	3813.3	3813.3	3813.3	3813.3	3813.3
2.5°	3788.2	3777.4	3786.4	3786.4	3790.0	3788.2	3800.8	3804.3	3809.7	3820.5
5°	3750.5	3748.7	3764.8	3779.2	3793.6	3806.1	3822.3	3845.6	3849.2	3861.8
7.5°	3737.9	3727.1	3752.3	3770.2	3804.3	3834.9	3878.0	3917.5	3933.6	3939.0
10°	3834.9	3816.9	3840.3	3851.0	3879.7	3910.3	3960.5	4023.4	4041.3	4062.9
12.5°	4000.0	3980.3	4014.4	4030.6	4057.5	4084.4	4118.5	4179.6	4188.5	4228.0
15°	4226.3	4202.9	4224.5	4244.2	4289.1	4314.2	4348.3	4407.6	4407.6	4438.1
17.5°	4533.3	4502.7	4518.9	4526.1	4554.8	4592.5	4650.0	4702.0	4728.9	4718.2
20°	4991.1	4953.4	4953.4	4917.5	4906.7	4937.2	5012.6	5084.4	5113.2	5057.5
22.5°	5678.7	5624.8	5594.3	5472.2	5423.7	5427.3	5502.7	5590.7	5614.1	5515.3
25°	6553.0	6468.6	6427.3	6247.8	6138.3	6043.1	6102.4	6215.5	6247.8	6125.7
27.5°	7427.4	7432.7	7393.2	7177.8	6996.5	6822.3	6791.8	6910.3	6944.4	6806.2
30°	8653.6	8526.1	8450.7	8192.2	7933.6	7689.5	7563.8	7612.3	7621.3	7456.1
32.5°	9711.0	9678.7	9517.1	9290.9	8958.8	8576.4	8366.3	8289.1	8274.8	8039.6
35°	10915.7	10897.8	10727.2	10457.9	10098.8	9567.4	9188.6	8967.8	8949.8	8619.5
37.5°	12140.1	12140.1	11973.2	11678.7	11307.1	10642.8	10066.5	9716.4	9659.0	9228.1
40°	13116.8	13057.6	13088.1	12964.2	12538.7	11833.1	11041.4	10533.3	10456.1	9939.1
42.5°	13671.6	13651.8	13835.0	13973.2	13799.1	13235.3	12115.0	11418.4	11310.7	10721.8
45°	13795.5	13773.9	14100.7	14607.0	14851.1	14619.5	13282.0	12350.2	12219.1	11540.5
47.5°	13510.0	13466.9	13946.3	14745.2	15528.0	15935.5	14545.9	13361.0	13170.7	12337.6
50°	12651.8	12610.5	13335.9	14396.9	15756.0	16829.6	15917.6	14432.8	14142.0	13192.2
52.5°	10786.5	10806.2	11942.7	13400.5	15456.2	17386.2	17098.9	15562.1	15212.0	14066.6
55°	8402.2	8445.3	9842.1	11447.1	14256.9	17301.8	17905.0	16725.5	16377.2	14888.8
57.5°	6016.2	6206.5	7515.3	9104.2	11953.4	15964.2	18081.0	17831.4	17493.9	15786.5
60°	3899.5	3933.6	5280.1	6881.6	9102.4	13587.2	17723.7	18669.8	18405.9	16702.1
62.5°	2499.1	2522.5	3342.9	4813.3	6551.2	10052.2	16520.8	19034.3	18953.5	17307.2
65°	1836.6	1818.7	2246.0	3181.4	4413.0	6199.3	14185.1	18858.3	19018.1	17686.0
67.5°	1533.2	1508.1	1718.1	2202.9	3251.4	3520.7	10495.6	17714.7	18300.0	17642.9
70°	1396.8	1375.2	1502.7	1635.6	2536.8	2357.3	5290.9	15400.5	16301.8	17152.8
72.5°	1183.1	1145.4	1319.6	1452.4	1973.1	1807.9	2186.7	11829.6	12928.3	15581.8
75°	917.4	892.3	1041.3	1278.3	1483.0	1411.1	1382.4	7183.2	8382.5	12050.4
77.5°	727.1	693.0	829.5	996.4	1333.9	1064.6	1007.2	3093.4	4281.9	7693.1
80°	547.6	517.1	630.2	788.2	1025.1	802.5	651.7	1262.1	1614.0	3897.7
82.5°	389.6	362.7	439.9	578.1	689.4	719.9	400.4	707.4	795.3	1502.7
85°	249.6	233.4	294.4	362.7	438.1	463.2	244.2	369.8	405.7	619.4
87.5°	136.4	111.3	158.0	168.8	202.9	184.9	116.7	134.7	145.4	224.4
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°
3813.3	0°	3813.3	3813.3	3813.3	3813.3	3813.3	3813.3	3813.3	3813.3	3813.3	3813.3
3820.5	2.5°	3827.7	3833.1	3851.0	3856.4	3869.0	3885.1	3895.9	3906.7	3906.7	3917.5
3878.0	5°	3879.7	3892.3	3930.0	3949.8	3982.1	4014.4	4034.1	4057.5	4071.9	4079.0
3969.5	7.5°	3980.3	4000.0	4053.9	4088.0	4143.7	4188.5	4219.1	4251.4	4258.6	4278.3
4097.0	10°	4116.7	4140.1	4201.1	4265.7	4332.2	4387.8	4416.6	4439.9	4448.9	4452.5
4260.4	12.5°	4272.9	4307.0	4386.0	4465.0	4535.1	4583.5	4590.7	4585.3	4560.2	4538.6
4461.4	15°	4465.0	4495.6	4583.5	4669.7	4737.9	4746.9	4702.0	4673.3	4642.8	4637.4
4685.9	17.5°	4694.8	4711.0	4791.8	4876.2	4881.6	4851.0	4784.6	4757.7	4728.9	4709.2
4978.5	20°	4962.3	4957.0	5014.4	5050.3	5012.6	4919.3	4818.7	4773.8	4745.1	4721.8
5337.6	22.5°	5281.9	5240.6	5233.4	5224.5	5123.9	4928.2	4791.8	4734.3	4689.5	4657.1
5838.5	25°	5746.9	5588.9	5479.4	5418.4	5192.1	4879.8	4705.6	4578.1	4493.8	4438.1
6450.7	27.5°	6328.6	6062.9	5786.4	5637.4	5192.1	4781.0	4497.3	4290.9	4152.6	4095.2
7043.2	30°	6883.4	6605.1	6197.5	5901.3	5179.6	4619.4	4161.6	3874.4	3712.8	3655.3
7549.4	32.5°	7357.3	7053.9	6633.8	6190.4	5149.1	4357.3	3745.1	3427.3	3271.1	3202.9
8050.3	35°	7797.2	7474.0	7071.9	6508.1	5068.3	3973.1	3287.3	3044.9	2870.8	2761.2
8560.2	37.5°	8247.8	7863.6	7486.6	6795.4	4922.8	3524.3	2935.4	2728.9	2524.3	2377.0
9102.4	40°	8738.0	8278.4	7930.1	6966.0	4684.1	3097.0	2662.5	2474.0	2256.8	2100.6
9727.2	42.5°	9310.7	8775.7	8423.8	7053.9	4357.3	2793.6	2484.8	2299.8	2095.2	1967.7
10396.9	45°	9908.5	9323.2	8874.4	7052.1	3992.9	2651.7	2427.3	2244.2	2018.0	1885.1
11084.5	47.5°	10535.1	9896.0	9264.0	6937.2	3676.9	2671.5	2395.0	2123.9	1874.3	1745.1
11779.3	50°	11163.5	10522.5	9641.0	6721.8	3542.2	2628.4	2274.7	1955.1	1660.7	1544.0
12431.0	52.5°	11786.5	11188.6	9966.0	6414.8	3405.8	2468.6	2120.3	1736.1	1572.7	1491.9
13104.3	55°	12413.0	11847.5	10319.7	5967.7	3064.7	2281.9	1861.8	1653.5	1502.7	1429.1
13763.1	57.5°	13041.4	12608.7	10655.4	5520.7	2635.6	2052.1	1719.9	1553.0	1432.7	1369.9
14314.3	60°	13694.9	13479.5	11001.9	5109.6	2211.9	1757.6	1615.8	1472.2	1350.1	1280.1
14843.9	62.5°	14368.2	14438.2	11273.0	4579.9	1822.3	1578.1	1522.5	1375.2	1256.7	1190.3
15282.0	65°	15046.8	15362.8	11450.7	3845.6	1477.6	1407.6	1421.9	1269.3	1149.0	1091.6
15603.4	67.5°	15558.5	16028.9	11400.5	2910.3	1211.9	1246.0	1296.2	1158.0	1044.9	1000.0
15551.3	70°	15615.9	15949.9	10904.9	1992.8	1014.4	1088.0	1156.2	1048.5	931.8	899.5
14818.8	72.5°	14851.1	14872.7	9524.3	1301.6	858.2	955.1	1009.0	937.2	824.1	791.7
12964.2	75°	12845.7	12299.9	6992.9	858.2	718.1	820.5	870.7	820.5	711.0	718.1
9700.3	77.5°	9732.6	8711.0	4246.0	610.4	599.6	689.4	757.6	721.7	628.4	705.6
4878.0	80°	5014.4	4712.8	1894.1	456.0	474.0	551.2	623.0	576.3	497.3	474.0
1089.8	82.5°	1149.0	1335.7	746.9	326.8	342.9	396.8	475.8	432.7	357.3	301.6
454.2	85°	402.2	439.9	330.3	204.7	201.1	247.8	323.2	289.1	242.4	193.9
192.1	87.5°	127.5	167.0	123.9	82.6	86.2	111.3	149.0	136.4	113.1	73.6
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>
3813.3
3917.5
4082.6
4271.1
4443.5
4538.6
4637.4
4711.0
4723.6
4667.9
4459.6
4123.9
3689.4
3237.0
2797.2
2416.5
2131.1
1992.8
1906.7
1763.0
1551.2
1491.9
1421.9
1359.1
1274.7
1188.5
1089.8
1001.8
901.3
790.0
693.0
621.2
432.7
298.0
204.7
77.2
0.0

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