

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: P941867

Luminaire Tested: **GALN-SB5C-835-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-835-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35113 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

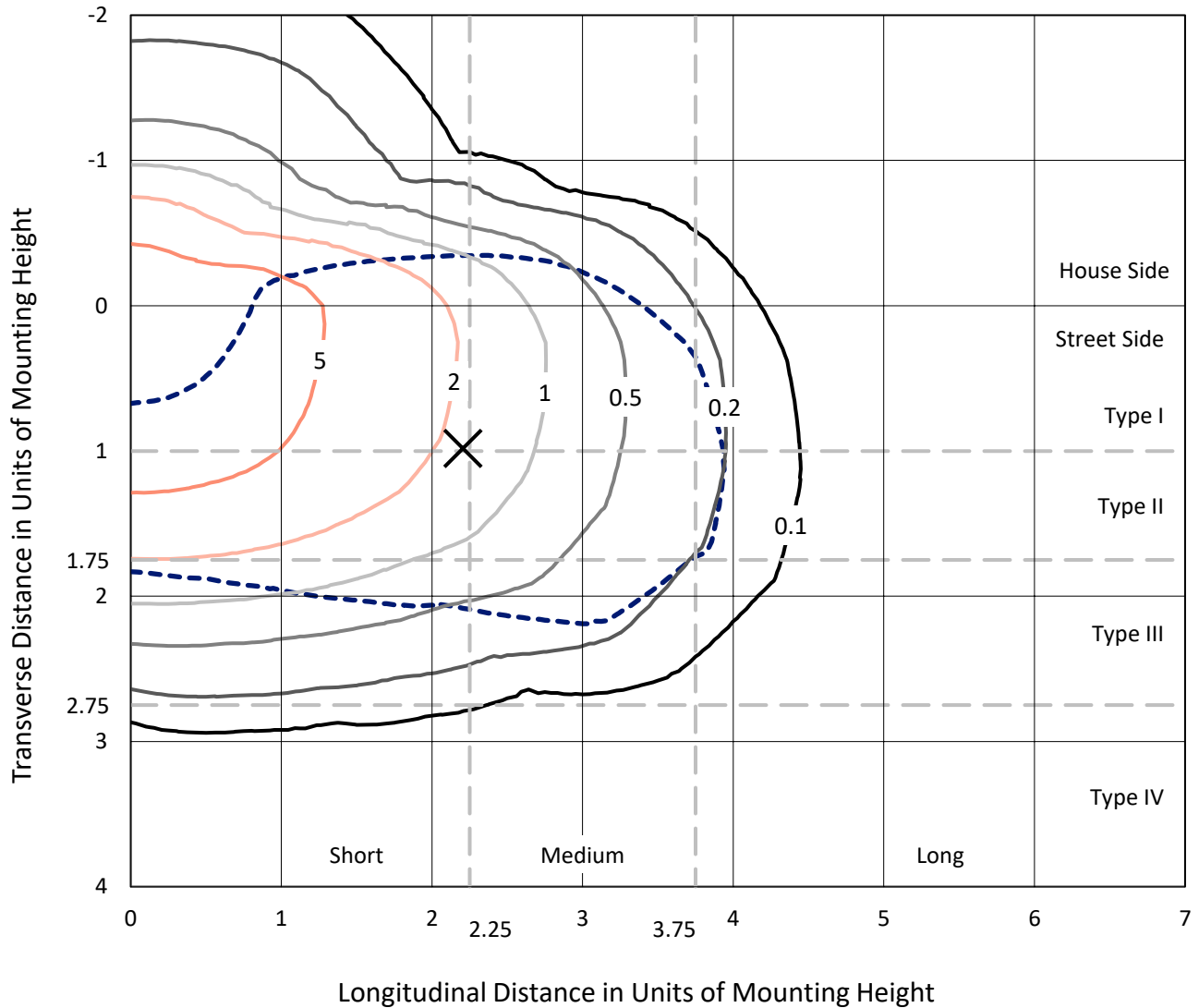
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

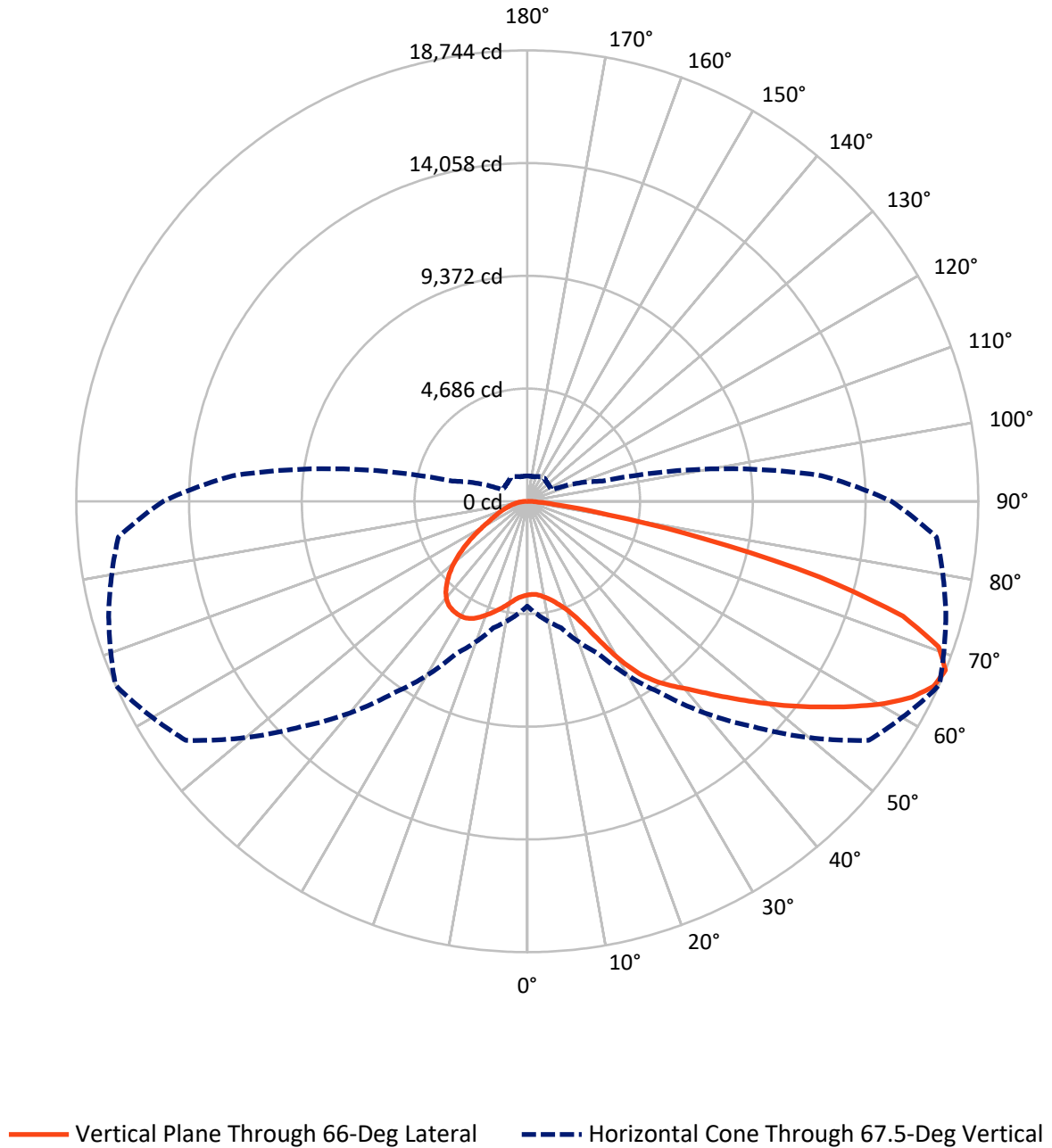
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8730.8	0.0	8730.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	26382.3	0.0	26382.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	35113.0	0.0	35113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.1	1.1
10°-20°	1275.7	3.6
20°-30°	2458.8	7.0
30°-40°	4311.3	12.3
40°-50°	6409.4	18.3
50°-60°	8124.6	23.1
60°-70°	7949.7	22.6
70°-80°	3792.1	10.8
80°-90°	405.3	1.2
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°	35113.0	100.0
0°-180°	35113.0	100.0

Coefficient of Utilization



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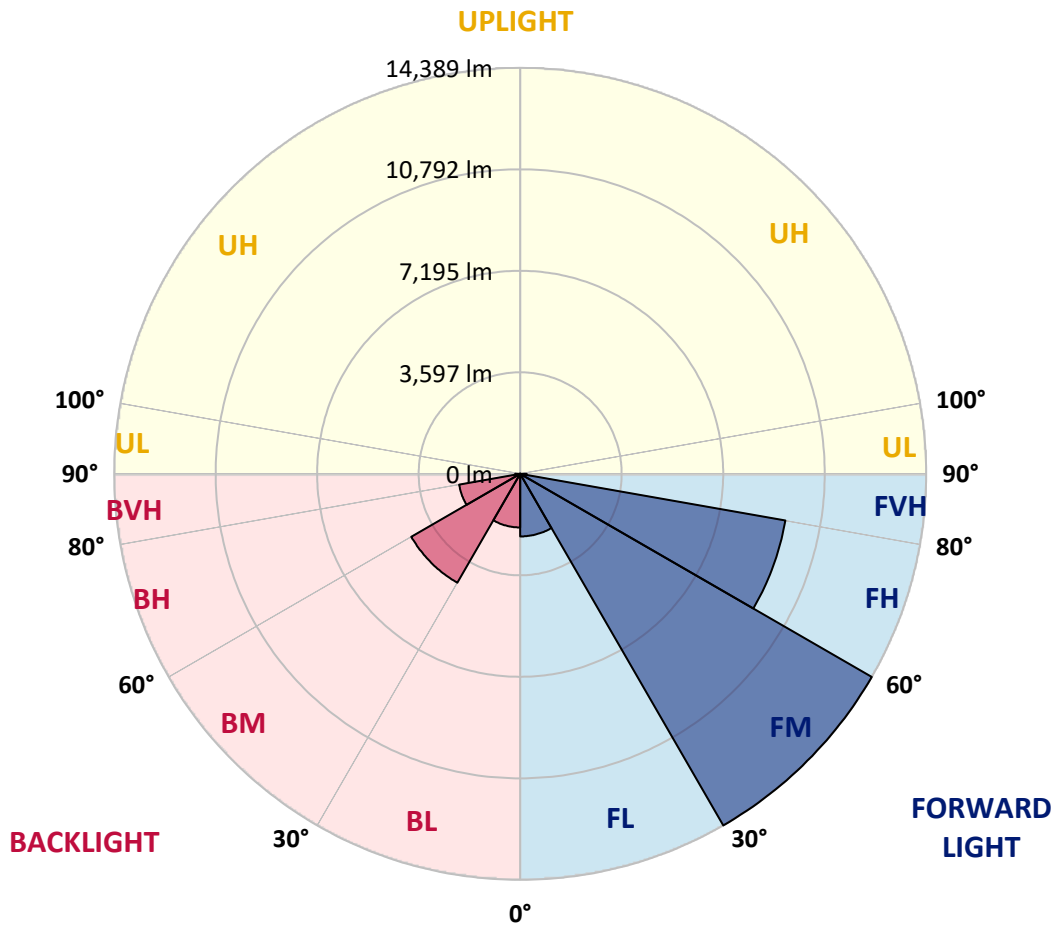
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2218.8	6.3			
FM (30°-60°)	14389.0	41.0			
FH (60°-80°)	9544.7	27.2			G4/12000
FVH (80°-90°)	229.8	0.7			G3/500
BL (0°-30°)	1901.9	5.4	B3/2500		
BM (30°-60°)	4456.3	12.7	B3/5000		
BH (60°-80°)	2197.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	175.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5
2.5°	3853.9	3876.0	3870.5	3861.3	3859.4	3863.1	3868.7	3874.2	3872.4	3881.6
5°	3842.8	3865.0	3863.1	3863.1	3870.5	3885.3	3894.5	3903.7	3894.5	3905.6
7.5°	3850.2	3866.8	3874.2	3881.6	3900.0	3927.7	3949.8	3970.1	3959.1	3972.0
10°	3944.3	3957.2	3964.6	3964.6	3977.5	4008.9	4031.0	4067.9	4058.7	4079.0
12.5°	4115.9	4128.8	4128.8	4121.4	4130.6	4150.9	4158.3	4198.9	4182.3	4215.5
15°	4326.2	4352.0	4331.7	4318.8	4322.5	4342.8	4341.0	4372.3	4355.7	4383.4
17.5°	4558.6	4591.9	4558.6	4556.8	4549.4	4571.6	4573.4	4601.1	4571.6	4591.9
20°	4833.5	4879.7	4852.0	4861.2	4844.6	4853.8	4863.0	4903.6	4857.5	4872.3
22.5°	5220.9	5276.3	5246.8	5281.8	5270.8	5263.4	5261.5	5333.5	5261.5	5267.1
25°	5785.5	5851.9	5800.2	5848.2	5848.2	5872.2	5899.9	5992.1	5872.2	5837.1
27.5°	6619.4	6685.8	6584.3	6613.8	6604.6	6663.6	6634.1	6862.9	6733.7	6676.5
30°	7623.0	7741.0	7549.2	7541.8	7532.6	7626.6	7669.1	7820.4	7689.4	7632.2
32.5°	8707.7	8831.3	8602.6	8536.2	8501.1	8558.3	8523.2	8645.0	8554.6	8466.1
35°	9855.2	9977.0	9759.3	9630.2	9490.0	9370.0	9244.6	9275.9	9191.1	9056.4
37.5°	10940.0	11163.2	10932.6	10794.3	10536.0	10301.7	9951.2	9805.4	9726.1	9602.5
40°	12045.1	12172.4	11997.1	11879.0	11598.6	11231.5	10670.7	10362.6	10255.6	10135.7
42.5°	12858.7	12980.4	12886.3	12805.2	12585.6	12159.5	11434.4	11048.9	10893.9	10759.2
45°	13504.4	13594.8	13535.7	13565.2	13471.2	13057.9	12225.9	11785.0	11624.5	11460.3
47.5°	13764.5	13860.4	13954.5	14129.8	14290.3	13985.9	13076.4	12581.9	12412.2	12244.3
50°	13735.0	13832.7	14105.8	14478.4	14976.6	14875.1	13973.0	13430.6	13273.8	13081.9
52.5°	13498.8	13609.5	13960.0	14579.9	15373.2	15541.1	14886.2	14306.9	14159.3	13930.5
55°	12879.0	12945.4	13471.2	14349.3	15467.3	16006.0	15780.9	15240.4	15092.8	14773.6
57.5°	11729.6	11825.5	12591.2	13727.6	15231.1	16321.5	16566.8	16221.8	16079.8	15620.4
60°	10229.7	10382.9	11259.2	12683.4	14629.7	16319.6	17280.8	17186.7	17068.6	16454.3
62.5°	8532.5	8709.6	9552.7	11207.5	13578.2	15856.6	17727.2	17994.7	17933.9	17223.6
65°	6552.9	6674.7	7514.1	9298.1	11941.8	14862.2	17778.9	18546.4	18557.4	17808.4
67.5°	4363.1	4713.6	5442.3	6977.3	9750.1	13236.9	17325.1	18636.8	18743.8	18009.5
70°	2129.0	2590.2	3304.1	4534.7	6977.3	10744.5	16138.8	17895.1	18133.1	17422.8
72.5°	883.7	1033.1	1422.4	2237.8	4005.2	7250.3	13755.3	15884.2	16325.2	15437.8
75°	595.9	645.7	813.6	1147.5	1824.6	3575.3	9919.8	11844.0	12554.3	11659.5
77.5°	459.4	490.7	592.2	802.5	1084.8	1352.3	5309.5	7137.8	7504.9	6947.7
80°	361.6	385.6	442.8	584.8	769.3	723.2	1809.8	3234.0	3446.2	2890.9
82.5°	313.6	322.9	317.3	396.6	511.0	422.5	594.0	1193.6	1317.2	955.6
85°	226.9	252.7	263.8	245.4	271.2	214.0	243.5	422.5	464.9	415.1
87.5°	92.2	136.5	167.9	158.7	99.6	60.9	75.6	123.6	142.1	155.0
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°
3894.5	0°	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5
3896.3	2.5°	3898.2	3911.1	3920.3	3931.4	3938.8	3949.8	3972.0	3984.9	3986.7	3996.0
3925.9	5°	3933.2	3951.7	3972.0	4001.5	4034.7	4062.4	4104.8	4134.3	4145.4	4154.6
3997.8	7.5°	4008.9	4034.7	4071.6	4123.3	4171.2	4208.1	4259.8	4294.8	4329.9	4342.8
4112.2	10°	4121.4	4158.3	4211.8	4281.9	4333.6	4381.5	4435.0	4464.6	4499.6	4514.4
4248.7	12.5°	4261.6	4300.4	4370.5	4468.2	4516.2	4549.4	4567.9	4560.5	4567.9	4580.8
4412.9	15°	4422.1	4464.6	4543.9	4649.0	4682.3	4652.7	4612.1	4575.2	4569.7	4573.4
4612.1	17.5°	4612.1	4643.5	4735.8	4824.3	4800.3	4678.6	4590.0	4531.0	4501.5	4492.2
4866.7	20°	4877.8	4877.8	4953.4	5008.8	4848.3	4641.7	4503.3	4407.4	4346.5	4320.7
5213.6	22.5°	5200.7	5171.1	5219.1	5180.4	4839.1	4538.4	4346.5	4180.4	4088.2	4051.3
5698.8	25°	5610.2	5575.2	5562.2	5322.4	4772.6	4374.2	4062.4	3861.3	3780.1	3759.8
6398.0	27.5°	6228.2	6139.7	5971.8	5399.9	4650.9	4115.9	3730.3	3544.0	3497.9	3499.7
7296.4	30°	7051.0	6873.9	6462.5	5412.8	4451.6	3750.6	3390.8	3258.0	3235.9	3245.1
8051.0	32.5°	7813.0	7645.1	6964.3	5353.8	4145.4	3392.7	3086.4	2997.9	2964.7	2975.8
8626.6	35°	8410.7	8364.6	7429.2	5270.8	3769.0	3056.9	2813.4	2737.8	2673.2	2658.4
9168.9	37.5°	8975.2	8956.8	7777.9	5154.5	3396.4	2818.9	2593.9	2494.2	2400.2	2348.5
9768.5	40°	9595.1	9576.7	8006.7	4975.6	3066.2	2612.3	2396.5	2265.5	2149.3	2055.2
10447.4	42.5°	10292.5	10183.6	8115.5	4719.1	2785.7	2437.1	2236.0	2058.9	1905.7	1819.0
11214.9	45°	11054.4	10809.0	8113.7	4392.6	2549.6	2276.6	2064.4	1813.5	1671.4	1590.3
12002.6	47.5°	11862.4	11406.8	8014.1	4031.0	2320.8	2099.4	1798.7	1606.9	1512.8	1463.0
12858.7	50°	12696.3	11965.8	7844.3	3615.9	2086.5	1898.4	1632.7	1501.7	1429.8	1383.6
13707.3	52.5°	13480.4	12473.1	7639.6	3145.5	1848.5	1702.8	1558.9	1457.4	1381.8	1330.1
14530.1	55°	14209.1	12910.3	7349.9	2664.0	1654.8	1571.8	1523.9	1439.0	1352.3	1291.4
15365.8	57.5°	14856.6	13194.4	6850.0	2212.0	1516.5	1481.4	1487.0	1407.6	1308.0	1256.3
16188.6	60°	15395.3	13402.9	6110.2	1793.2	1403.9	1392.9	1429.8	1348.6	1232.4	1173.3
16884.1	62.5°	15718.2	13399.2	5202.5	1468.5	1308.0	1311.7	1354.1	1274.8	1156.7	1101.4
17247.6	65°	15690.5	13070.8	4206.3	1256.3	1215.8	1219.5	1274.8	1193.6	1094.0	1060.8
17064.9	67.5°	15135.2	12270.2	3226.7	1118.0	1114.3	1130.9	1195.5	1138.3	1055.3	1051.6
15976.5	70°	13631.7	10607.9	2324.5	1007.3	1009.1	1033.1	1118.0	1103.2	1035.0	1042.3
13432.4	72.5°	10930.8	8087.9	1560.8	891.1	892.9	931.7	1044.2	1075.6	1014.7	1112.4
9530.5	75°	7279.8	5043.8	1003.6	767.5	769.3	819.1	979.6	1022.1	959.3	1108.8
4959.0	77.5°	3497.9	2267.3	726.9	645.7	645.7	691.8	846.8	915.0	817.3	861.5
1594.0	80°	1208.4	852.3	571.9	520.3	509.2	540.5	714.0	793.3	704.7	649.4
520.3	82.5°	476.0	442.8	459.4	404.0	367.1	387.4	555.3	654.9	518.4	468.6
293.3	85°	273.0	287.8	324.7	267.5	212.2	238.0	407.7	470.4	391.1	345.0
95.9	87.5°	73.8	101.5	149.4	138.4	95.9	101.5	193.7	260.1	225.1	173.4
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>
3894.5
3994.1
4152.8
4344.6
4521.7
4584.5
4586.3
4505.1
4315.1
4045.8
3763.5
3505.2
3276.5
2990.5
2669.5
2350.3
2064.4
1824.6
1586.6
1451.9
1367.0
1308.0
1267.4
1223.1
1147.5
1084.8
1058.9
<i>1057.1</i>
1040.5
1127.2
1118.0
789.6
608.8
466.7
352.4
179.0
0.0

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