

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: P942997

Luminaire Tested: **GALN-SB7B-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942997
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-SB7B-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40073 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

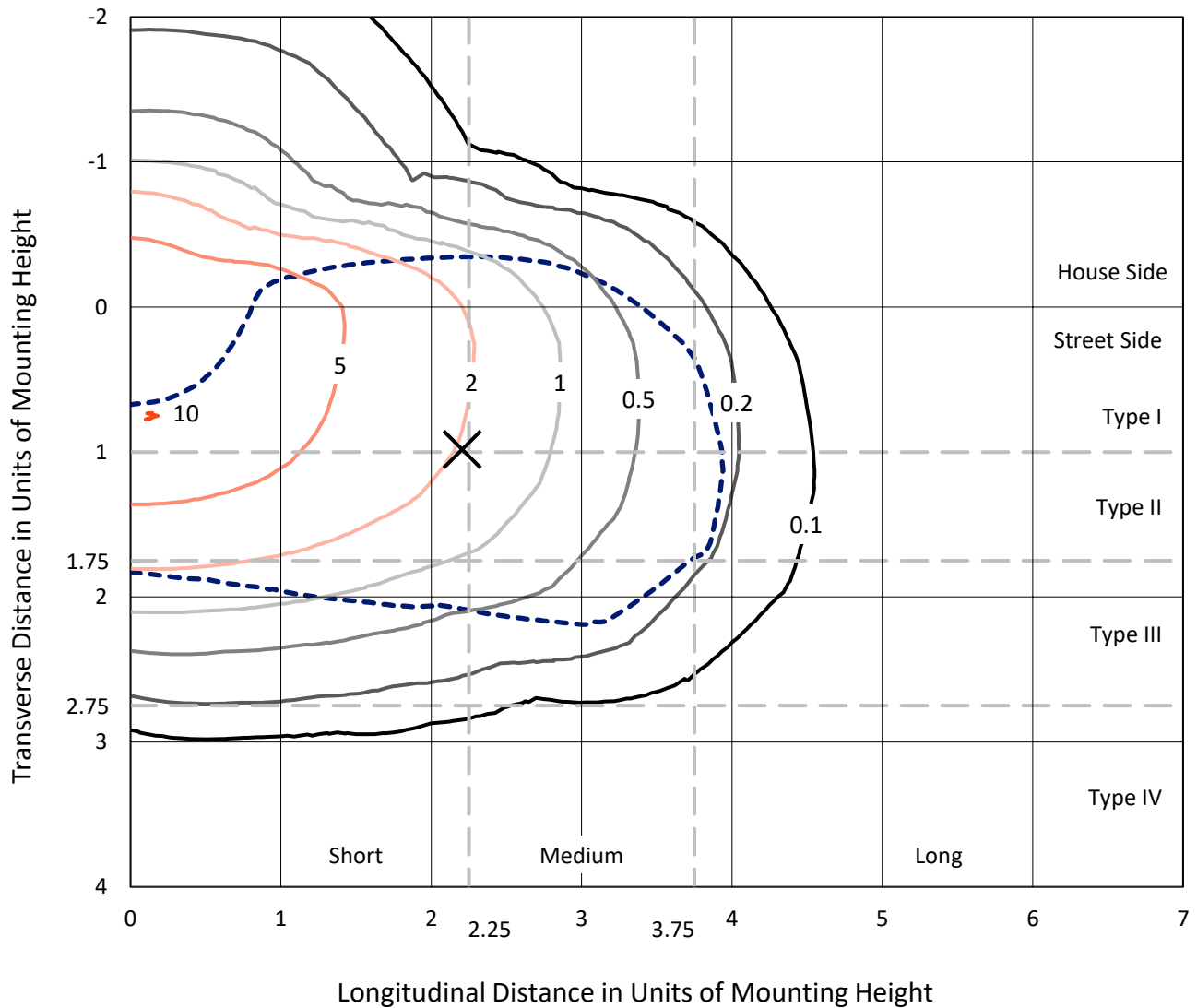
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

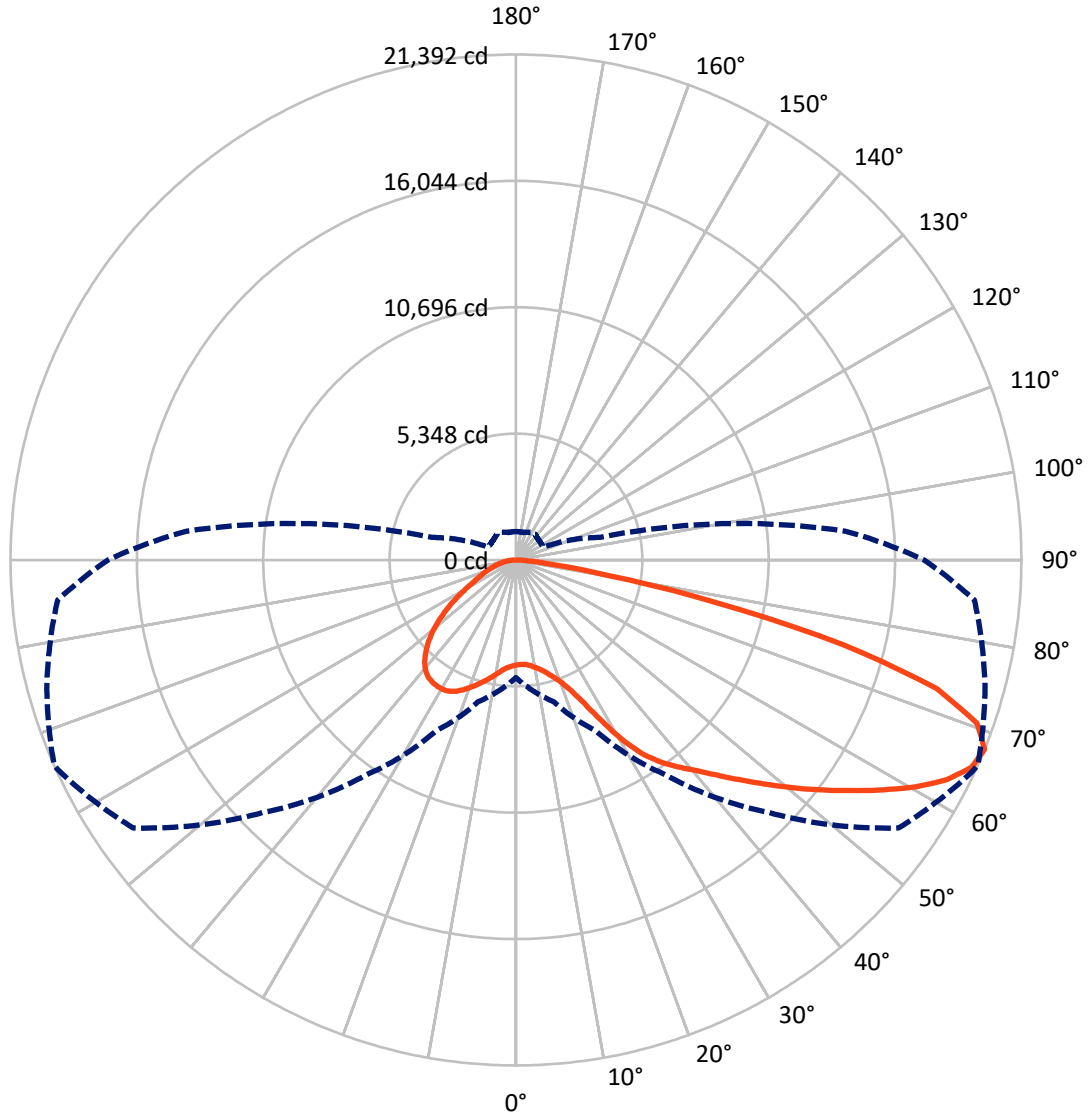
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9964.0	0.0	9964.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	30109.0	0.0	30109.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	40073.0	0.0	40073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.7	1.1
10°-20°	1455.9	3.6
20°-30°	2806.2	7.0
30°-40°	4920.3	12.3
40°-50°	7314.8	18.3
50°-60°	9272.2	23.1
60°-70°	9072.7	22.6
70°-80°	4327.8	10.8
80°-90°	462.5	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°	40073.0	100.0
0°-180°	40073.0	100.0

Coefficient of Utilization



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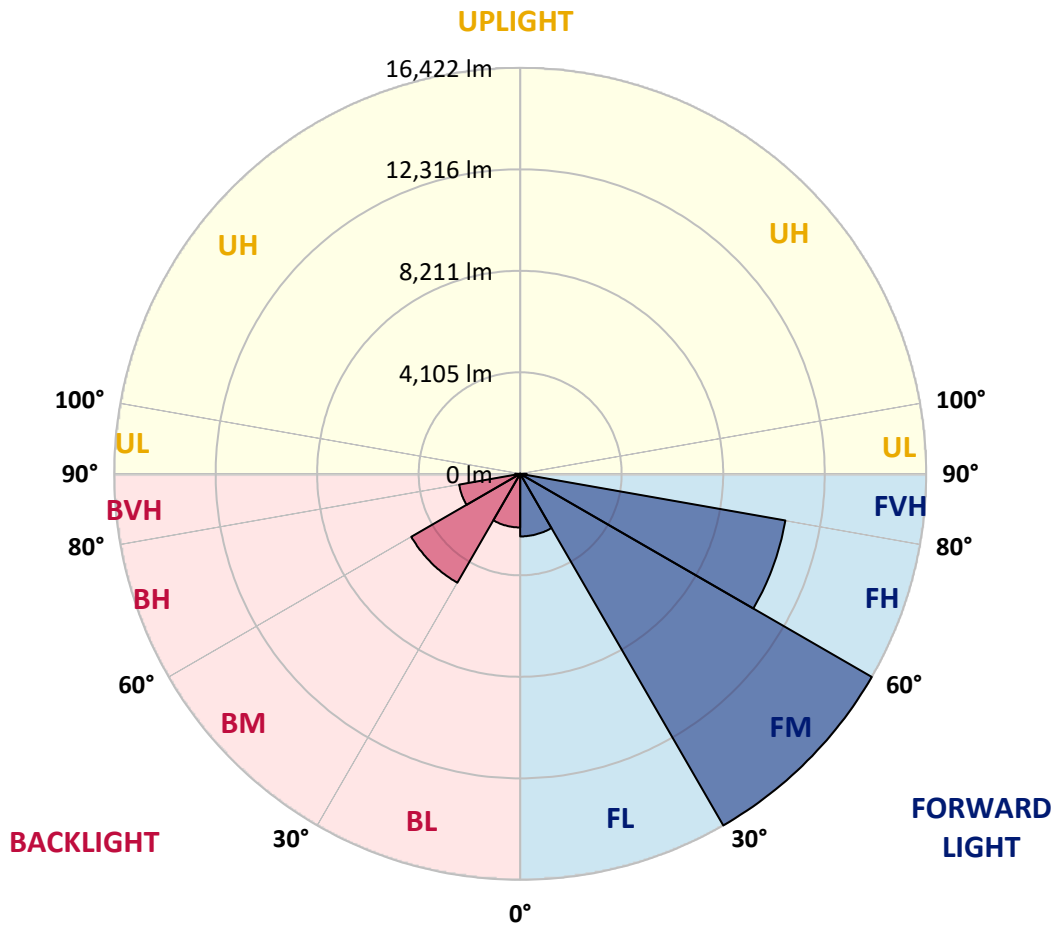
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2532.2	6.3			
FM (30°-60°)	16421.6	41.0			
FH (60°-80°)	10892.9	27.2			G4/12000
FVH (80°-90°)	262.2	0.7			G3/500
BL (0°-30°)	2170.5	5.4	B3/2500		
BM (30°-60°)	5085.8	12.7	B4/8500		
BH (60°-80°)	2507.5	6.3	B4/5000		G4/5000
BVH (80°-90°)	200.3	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6
2.5°	4398.3	4423.6	4417.3	4406.7	4404.6	4408.8	4415.1	4421.5	4419.4	4429.9
5°	4385.7	4410.9	4408.8	4408.8	4417.3	4434.1	4444.6	4455.2	4444.6	4457.3
7.5°	4394.1	4413.0	4421.5	4429.9	4450.9	4482.5	4507.8	4530.9	4518.3	4533.1
10°	4501.5	4516.2	4524.6	4524.6	4539.4	4575.2	4600.4	4642.5	4632.0	4655.2
12.5°	4697.3	4712.0	4712.0	4703.6	4714.1	4737.3	4745.7	4792.0	4773.1	4811.0
15°	4937.3	4966.8	4943.6	4928.9	4933.1	4956.3	4954.1	4989.9	4971.0	5002.6
17.5°	5202.6	5240.5	5202.6	5200.5	5192.1	5217.3	5219.4	5251.0	5217.3	5240.5
20°	5516.3	5568.9	5537.4	5547.9	5528.9	5539.5	5550.0	5596.3	5543.7	5560.5
22.5°	5958.5	6021.6	5987.9	6027.9	6015.3	6006.9	6004.8	6086.9	6004.8	6011.1
25°	6602.7	6678.5	6619.6	6674.3	6674.3	6701.7	6733.3	6838.5	6701.7	6661.7
27.5°	7554.4	7630.2	7514.4	7548.1	7537.5	7604.9	7571.2	7832.3	7684.9	7619.7
30°	8699.8	8834.5	8615.5	8607.1	8596.6	8704.0	8752.4	8925.0	8775.6	8710.3
32.5°	9937.8	10078.8	9817.8	9742.0	9702.0	9767.2	9727.2	9866.2	9763.0	9662.0
35°	11247.4	11386.3	11137.9	10990.5	10830.5	10693.6	10550.5	10586.3	10489.4	10335.7
37.5°	12485.4	12740.1	12477.0	12319.0	12024.3	11756.9	11356.8	11190.5	11100.0	10958.9
40°	13746.5	13891.8	13691.8	13557.1	13237.0	12818.0	12178.0	11826.4	11704.3	11567.4
42.5°	14675.1	14814.0	14706.6	14614.0	14363.4	13877.1	13049.6	12609.6	12432.7	12279.0
45°	15412.0	15515.1	15447.8	15481.4	15374.1	14902.4	13952.9	13449.7	13266.5	13079.1
47.5°	15708.8	15818.3	15925.7	16125.7	16308.9	15961.5	14923.5	14359.2	14165.5	13973.9
50°	15675.1	15786.7	16098.3	16523.6	17092.1	16976.3	15946.8	15327.7	15148.8	14929.8
52.5°	15405.6	15532.0	15932.0	16639.4	17544.8	17736.4	16989.0	16327.8	16159.4	15898.3
55°	14698.2	14774.0	15374.1	16376.3	17652.2	18267.0	18010.1	17393.2	17224.8	16860.5
57.5°	13386.5	13496.0	14369.8	15666.7	17382.7	18627.0	18907.0	18513.3	18351.2	17826.9
60°	11674.8	11849.5	12849.6	14475.0	16696.3	18624.9	19721.8	19614.5	19479.7	18778.6
62.5°	9737.8	9939.9	10902.1	12790.7	15496.2	18096.4	20231.4	20536.7	20467.2	19656.6
65°	7478.6	7617.6	8575.5	10611.5	13628.6	16961.6	20290.3	21166.2	21178.8	20324.0
67.5°	4979.4	5379.4	6211.1	7962.8	11127.4	15106.7	19772.4	21269.4	21391.5	20553.5
70°	2429.7	2956.1	3770.9	5175.2	7962.8	12262.2	18418.6	20423.0	20694.6	19884.0
72.5°	1008.5	1179.1	1623.3	2553.9	4571.0	8274.5	15698.3	18128.0	18631.2	17618.5
75°	680.1	736.9	928.5	1309.6	2082.3	4080.4	11321.1	13517.1	14327.7	13306.5
77.5°	524.3	560.1	675.9	915.9	1238.0	1543.3	6059.5	8146.0	8565.0	7929.2
80°	412.7	440.0	505.3	667.4	878.0	825.3	2065.5	3690.9	3933.0	3299.3
82.5°	357.9	368.5	362.1	452.7	583.2	482.2	678.0	1362.2	1503.3	1090.6
85°	259.0	288.4	301.1	280.0	309.5	244.2	277.9	482.2	530.6	473.7
87.5°	105.3	155.8	191.6	181.1	113.7	69.5	86.3	141.1	162.1	176.9
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°
4444.6	0°	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6	4444.6
4446.7	2.5°	4448.8	4463.6	4474.1	4486.7	4495.2	4507.8	4533.1	4547.8	4549.9	4560.4
4480.4	5°	4488.8	4509.9	4533.1	4566.7	4604.6	4636.2	4684.6	4718.3	4731.0	4741.5
4562.5	7.5°	4575.2	4604.6	4646.7	4705.7	4760.4	4802.6	4861.5	4901.5	4941.5	4956.3
4693.1	10°	4703.6	4745.7	4806.8	4886.8	4945.7	5000.5	5061.5	5095.2	5135.2	5152.1
4848.9	12.5°	4863.6	4907.8	4987.8	5099.4	5154.2	5192.1	5213.1	5204.7	5213.1	5227.9
5036.3	15°	5046.8	5095.2	5185.7	5305.8	5343.7	5310.0	5263.6	5221.5	5215.2	5219.4
5263.6	17.5°	5263.6	5299.4	5404.7	5505.8	5478.4	5339.4	5238.4	5171.0	5137.3	5126.8
5554.2	20°	5566.8	5566.8	5653.2	5716.3	5533.1	5297.3	5139.4	5029.9	4960.5	4931.0
5950.0	22.5°	5935.3	5901.6	5956.3	5912.1	5522.6	5179.4	4960.5	4771.0	4665.7	4623.6
6503.8	25°	6402.7	6362.7	6348.0	6074.3	5446.8	4992.0	4636.2	4406.7	4314.1	4290.9
7301.7	27.5°	7108.0	7007.0	6815.4	6162.7	5307.9	4697.3	4257.2	4044.6	3992.0	3994.1
8327.1	30°	8047.1	7844.9	7375.4	6177.4	5080.5	4280.4	3869.8	3718.2	3693.0	3703.5
9188.2	32.5°	8916.6	8725.0	7948.1	6110.0	4731.0	3871.9	3522.4	3421.4	3383.5	3396.1
9845.1	35°	9598.8	9546.2	8478.7	6015.3	4301.5	3488.7	3210.8	3124.5	3050.8	3034.0
10464.1	37.5°	10243.1	10222.0	8876.6	5882.7	3876.2	3217.1	2960.3	2846.6	2739.2	2680.3
11148.4	40°	10950.5	10929.4	9137.7	5678.4	3499.3	2981.3	2735.0	2585.5	2452.9	2345.5
11923.2	42.5°	11746.4	11622.1	9261.9	5385.8	3179.2	2781.3	2551.8	2349.7	2174.9	2076.0
12799.1	45°	12615.9	12335.9	9259.8	5013.1	2909.7	2598.1	2356.0	2069.7	1907.5	1814.9
13698.1	47.5°	13538.1	13018.1	9146.1	4600.4	2648.7	2396.0	2052.8	1833.9	1726.5	1669.6
14675.1	50°	14489.8	13656.0	8952.4	4126.7	2381.3	2166.5	1863.3	1713.8	1631.7	1579.1
15643.6	52.5°	15384.6	14235.0	8718.7	3589.8	2109.7	1943.3	1779.1	1663.3	1577.0	1518.0
16582.6	55°	16216.3	14734.0	8388.2	3040.3	1888.6	1793.9	1739.1	1642.3	1543.3	1473.8
17536.4	57.5°	16955.3	15058.2	7817.6	2524.4	1730.7	1690.7	1697.0	1606.5	1492.8	1433.8
18475.4	60°	17570.1	15296.2	6973.3	2046.5	1602.3	1589.6	1631.7	1539.1	1406.4	1339.1
19269.2	62.5°	17938.5	15292.0	5937.4	1675.9	1492.8	1497.0	1545.4	1454.9	1320.1	1257.0
19683.9	65°	17906.9	14917.2	4800.4	1433.8	1387.5	1391.7	1454.9	1362.2	1248.5	1210.6
19475.5	67.5°	17273.2	14003.4	3682.4	1275.9	1271.7	1290.6	1364.3	1299.1	1204.3	1200.1
18233.3	70°	15557.2	12106.4	2652.9	1149.6	1151.7	1179.1	1275.9	1259.1	1181.2	1189.6
15329.9	72.5°	12474.8	9230.3	1781.2	1016.9	1019.0	1063.3	1191.7	1227.5	1158.0	1269.6
10876.8	75°	8308.1	5756.3	1145.4	875.9	878.0	934.8	1118.0	1166.4	1094.8	1265.4
5659.5	77.5°	3992.0	2587.6	829.6	736.9	736.9	789.5	966.4	1044.3	932.7	983.2
1819.1	80°	1379.1	972.7	652.7	593.7	581.1	616.9	814.8	905.3	804.3	741.1
593.7	82.5°	543.2	505.3	524.3	461.1	419.0	442.1	633.7	747.4	591.6	534.8
334.8	85°	311.6	328.5	370.6	305.3	242.1	271.6	465.3	536.9	446.4	393.7
109.5	87.5°	84.2	115.8	170.5	157.9	109.5	115.8	221.1	296.9	256.9	197.9
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>
4444.6
4558.3
4739.4
4958.4
5160.5
5232.1
5234.2
5141.5
4924.7
4617.3
4295.1
4000.4
3739.3
3413.0
3046.6
2682.4
2356.0
2082.3
1810.7
1657.0
1560.1
1492.8
1446.5
1395.9
1309.6
1238.0
1208.5
1206.4
1187.5
1286.4
1275.9
901.1
694.8
532.7
402.1
204.2
0.0

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