

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: P944269

Luminaire Tested: **GALN-SB9A-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38627 lumens
Efficiency: N/A
Efficacy: 151.2 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

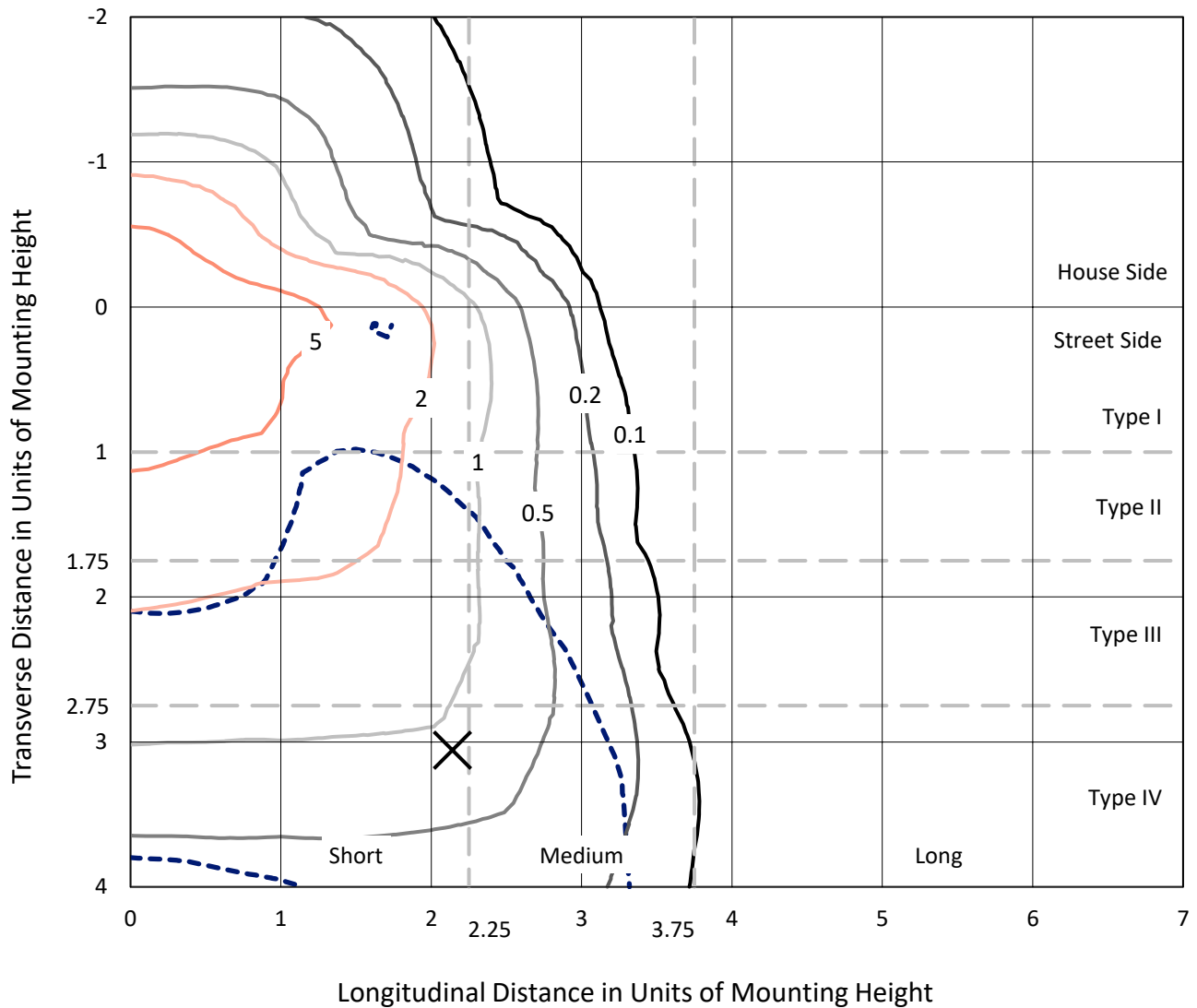
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

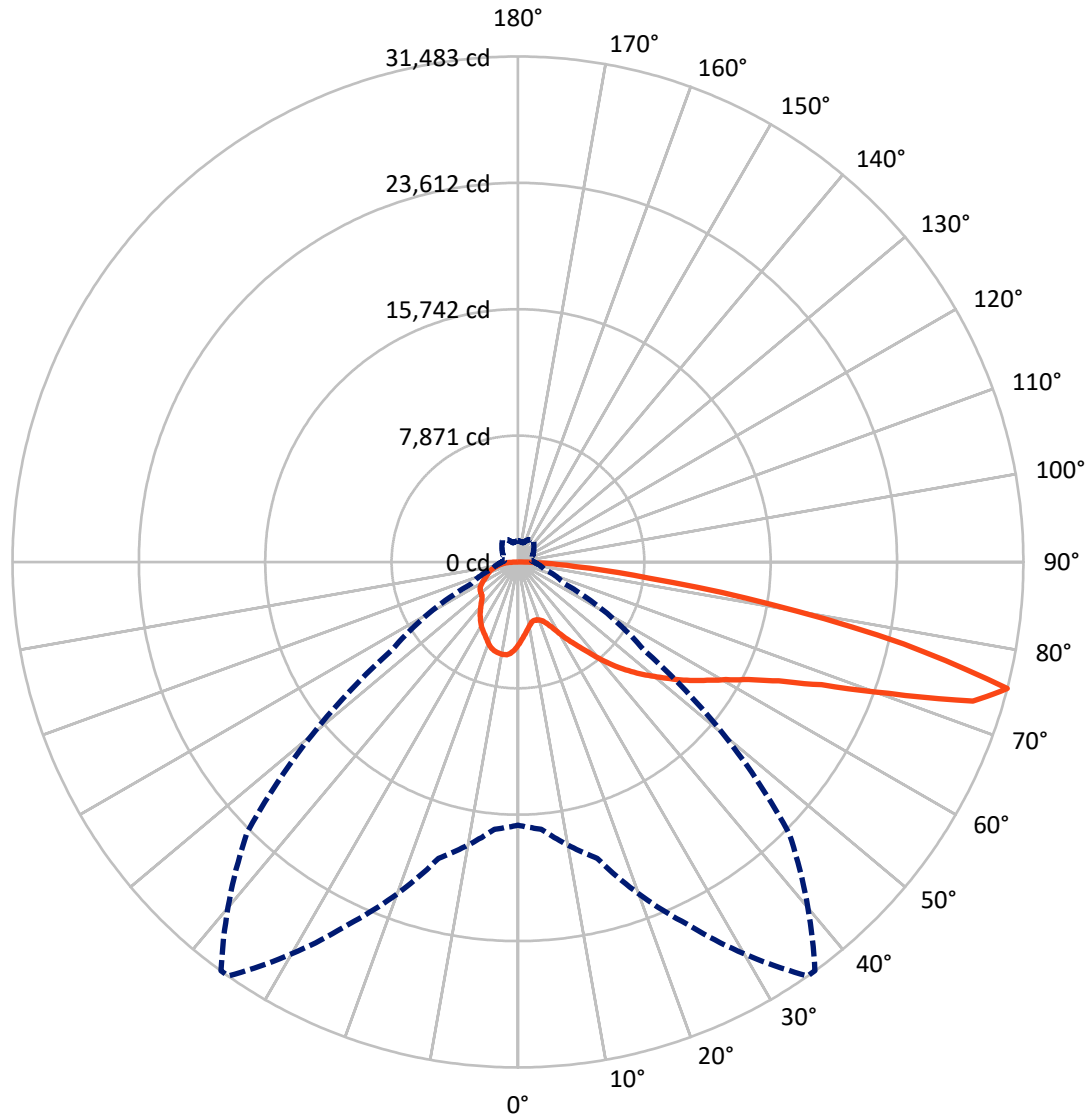
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P944269
CATALOG NUMBER: GALN-SB9A-850-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9192.3	0.0	9192.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	29434.7	0.0	29434.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	38627.0	0.0	38627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.3	1.3
10°-20°	1405.7	3.6
20°-30°	2360.6	6.1
30°-40°	3668.7	9.5
40°-50°	5445.3	14.1
50°-60°	7517.5	19.5
60°-70°	9120.5	23.6
70°-80°	7537.4	19.5
80°-90°	1084.1	2.8
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°	38627.0	100.0
0°-180°	38627.0	100.0

Coefficient of Utilization



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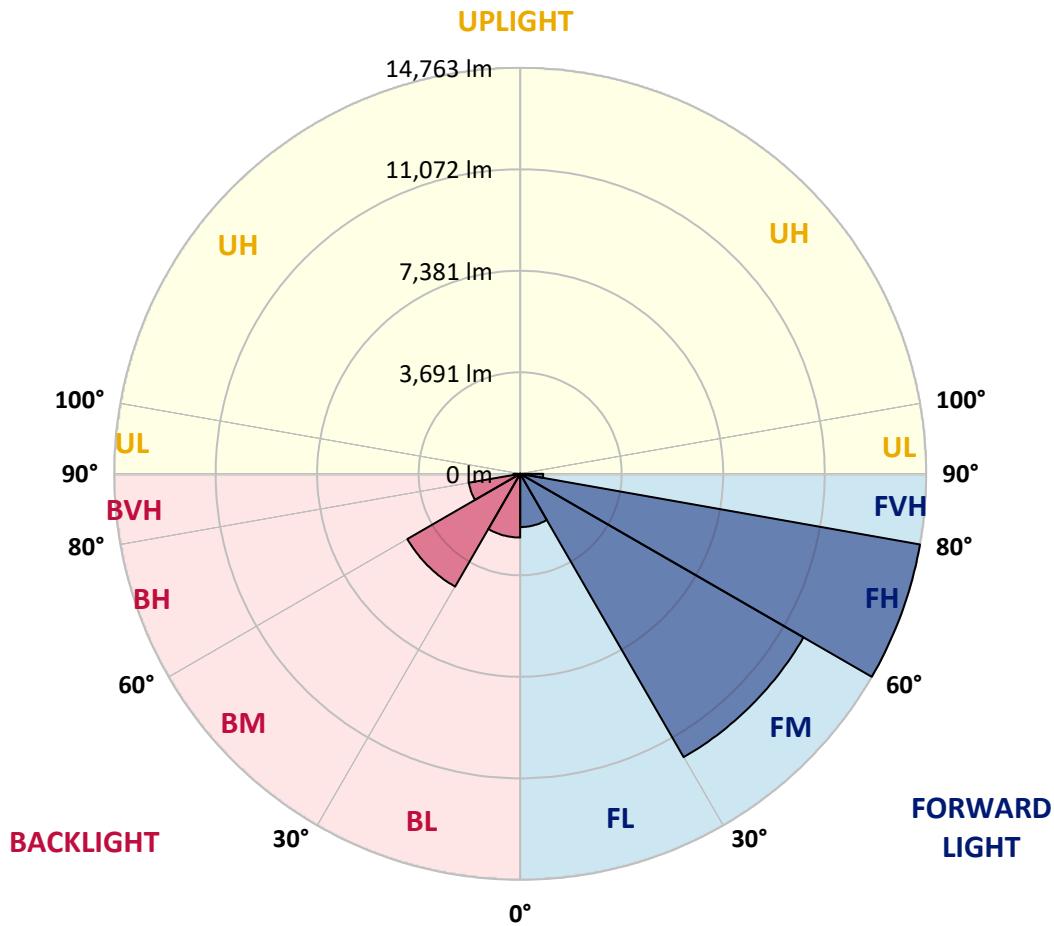
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1937.1	5.0			
FM (30°-60°)	11895.0	30.8			
FH (60°-80°)	14762.7	38.2			G5
FVH (80°-90°)	840.0	2.2			G5
BL (0°-30°)	2316.6	6.0	B3/2500		
BM (30°-60°)	4736.4	12.3	B3/5000		
BH (60°-80°)	1895.2	4.9	B3/2500		G3/2500
BVH (80°-90°)	244.1	0.6			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°	36°	45°	55°	65°	75°
0°	5147.3	5147.3	5147.3	5147.3	5147.3	5147.3	5147.3	5147.3	5147.3	5147.3
2.5°	4746.4	4775.6	4788.1	4781.9	4813.2	4809.0	4852.9	4907.2	4982.3	5055.4
5°	4381.0	4412.3	4439.4	4464.5	4525.0	4543.8	4612.7	4717.1	4855.0	4994.9
7.5°	4040.6	4067.7	4109.5	4155.4	4257.8	4276.5	4391.4	4554.3	4746.4	4951.0
10°	3762.9	3790.0	3833.9	3886.1	4013.4	4036.4	4182.6	4399.7	4650.3	4909.3
12.5°	3643.8	3652.2	3677.2	3729.4	3840.1	3854.7	4015.5	4264.0	4556.4	4877.9
15°	3637.6	3654.3	3656.4	3683.5	3775.4	3781.7	3929.9	4176.3	4497.9	4871.7
17.5°	3700.2	3712.7	3694.0	3710.7	3787.9	3798.4	3915.3	4134.6	4479.1	4898.8
20°	3867.3	3877.7	3821.3	3798.4	3854.7	3863.1	3977.9	4161.7	4497.9	4955.2
22.5°	4222.3	4228.5	4090.7	3996.7	4000.9	4005.1	4105.3	4272.4	4571.0	5057.5
25°	4775.6	4771.4	4552.2	4370.5	4266.1	4243.1	4310.0	4452.0	4694.2	5193.2
27.5°	5422.9	5391.6	5172.4	4900.9	4673.3	4639.9	4625.3	4685.8	4869.6	5372.8
30°	6153.8	6124.6	5888.6	5533.6	5218.3	5164.0	5026.2	4994.9	5130.6	5617.1
32.5°	6955.7	6936.9	6655.0	6224.8	5803.0	5740.3	5508.6	5425.0	5531.5	5986.7
35°	7628.0	7611.3	7377.5	6934.8	6419.0	6341.7	6105.8	6011.8	6066.1	6460.8
37.5°	8235.7	8227.3	8026.9	7678.2	7145.7	7051.7	6786.5	6755.2	6744.7	7085.1
40°	8799.5	8778.6	8569.8	8386.0	7991.4	7905.8	7671.9	7644.7	7565.4	7853.6
42.5°	9423.9	9369.6	9066.8	8981.2	8874.7	8803.7	8663.8	8667.9	8492.5	8720.1
45°	9933.4	9902.0	9590.9	9540.8	9655.6	9626.4	9747.5	9778.8	9438.5	9628.5
47.5°	10480.5	10451.2	10188.1	10152.6	10463.8	10472.1	10900.2	10910.6	10361.4	10572.3
50°	11154.9	11113.2	10852.2	10896.0	11244.7	11276.1	12059.1	11988.1	11211.3	11530.8
52.5°	11599.7	11624.8	11568.4	11639.4	12115.5	12144.7	13199.2	13017.6	12052.8	12476.7
55°	11927.6	11977.7	12153.1	12316.0	13034.3	13063.5	14274.6	13996.9	12750.3	13353.8
57.5°	12349.4	12278.4	12606.2	12923.6	13907.1	13984.4	15320.8	14940.8	13368.4	14109.7
60°	12954.9	12904.8	13159.6	13629.4	14884.4	15007.6	16427.5	15790.6	13821.5	14709.0
62.5°	14182.8	14057.5	14097.2	14512.7	16116.4	16279.3	17676.3	16531.9	14047.0	14942.9
65°	16018.3	15803.2	15602.7	15890.9	17851.7	18012.4	19085.8	17114.5	13963.5	14489.7
67.5°	18329.8	18116.9	17870.5	18141.9	20407.6	20534.9	20825.2	17442.4	13305.7	12744.0
70°	20236.3	20157.0	20451.4	21568.6	24489.9	24494.1	23055.4	17170.9	11503.7	9035.5
72.5°	19983.7	19935.6	21487.1	24941.0	29635.1	29524.5	25166.5	15116.2	7749.2	4076.1
75°	16394.1	16705.3	19108.7	24880.4	31483.2	31468.5	23873.9	9609.7	3205.3	1689.3
77.5°	8791.1	9283.9	12405.7	18369.5	24577.6	24947.2	16784.6	3361.9	1376.1	1081.7
80°	2867.0	3297.2	4944.8	9352.9	15970.2	15901.3	7193.7	1319.7	941.8	766.4
82.5°	1217.4	1267.5	2209.3	4416.5	8196.0	8068.6	2290.7	758.0	661.9	524.1
85°	476.1	532.5	975.2	2042.2	3549.9	3472.6	826.9	375.9	423.9	342.5
87.5°	156.6	190.0	348.7	699.5	1104.6	1065.0	202.6	129.5	183.8	156.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944269
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5147.3	0°	5147.3	5147.3	5147.3	5147.3	5147.3	5147.3	5147.3	5147.3	5147.3	5147.3
5161.9	2.5°	5191.2	5224.6	5264.2	5322.7	5372.8	5414.6	5458.4	5485.6	5496.0	5527.4
5170.3	5°	5228.7	5301.8	5400.0	5496.0	5590.0	5646.4	5696.5	5721.6	5744.5	5761.2
5193.2	7.5°	5291.4	5385.4	5539.9	5665.2	5744.5	5790.5	5823.9	5815.5	5823.9	5828.0
5218.3	10°	5345.7	5477.2	5661.0	5780.0	5840.6	5842.7	5834.3	5805.1	5790.5	5792.5
5255.9	12.5°	5410.4	5556.6	5755.0	5855.2	5871.9	5826.0	5790.5	5740.3	5721.6	5713.2
5312.3	15°	5498.1	5665.2	5857.3	5894.9	5853.1	5794.6	5734.1	5652.6	5610.9	5577.5
5408.3	17.5°	5604.6	5788.4	5936.6	5909.5	5819.7	5723.6	5625.5	5502.3	5416.7	5381.2
5539.9	20°	5752.9	5917.8	5997.2	5878.2	5742.4	5596.3	5429.2	5278.9	5199.5	5164.0
5706.9	22.5°	5932.5	6091.2	6055.7	5823.9	5631.8	5397.9	5189.1	5078.4	5038.7	5013.7
5922.0	25°	6147.5	6283.3	6097.4	5744.5	5450.1	5134.8	4974.0	4938.5	4919.7	4900.9
6185.1	27.5°	6427.3	6500.4	6128.7	5627.6	5166.1	4855.0	4796.5	4802.8	4796.5	4765.2
6550.6	30°	6797.0	6782.3	6158.0	5437.6	4840.3	4602.3	4606.5	4633.6	4637.8	4616.9
7060.1	32.5°	7283.5	7135.2	6172.6	5191.2	4529.2	4381.0	4385.1	4414.4	4435.2	4399.7
7726.2	35°	7872.4	7546.6	6149.6	4882.1	4289.1	4170.1	4138.7	4147.1	4153.3	4119.9
8534.3	37.5°	8559.4	8008.1	6047.3	4539.7	4090.7	3963.3	3896.5	3840.1	3806.7	3775.4
9448.9	40°	9313.2	8511.3	5859.4	4205.5	3869.4	3744.1	3643.8	3537.3	3424.6	3382.8
10417.8	42.5°	10102.5	9029.2	5631.8	3886.1	3614.6	3512.3	3405.8	3251.3	3082.1	2996.5
11424.3	45°	10921.1	9559.6	5408.3	3570.7	3353.6	3309.7	3186.5	3000.7	2816.9	2708.3
12432.9	47.5°	11722.9	10060.7	5080.5	3253.3	3109.3	3157.3	3061.2	2890.0	2685.4	2514.1
13433.1	50°	12489.3	10530.6	4543.8	2931.8	2910.9	3111.4	3019.5	2773.1	2539.2	2319.9
14414.6	52.5°	13249.4	10910.6	3856.8	2639.4	2804.4	3098.8	2965.2	2693.7	2407.6	2177.9
15337.5	55°	13894.6	11106.9	3194.9	2388.9	2649.9	2992.3	2900.5	2599.8	2221.8	1977.5
15970.2	57.5°	14262.1	10948.2	2643.6	2142.4	2436.9	2816.9	2789.8	2399.3	2000.5	1812.5
16093.4	60°	14103.4	10305.1	2192.6	1927.4	2234.3	2626.9	2597.7	2200.9	1831.3	1653.8
15433.6	62.5°	13228.5	9079.3	1835.5	1739.4	2050.6	2432.7	2405.6	2048.5	1701.8	1530.6
13681.6	65°	11466.1	7385.8	1557.8	1582.8	1864.7	2198.8	2238.5	1921.1	1599.5	1432.5
10584.9	67.5°	8745.2	5349.9	1340.6	1447.1	1683.1	1969.1	2084.0	1829.2	1513.9	1355.2
6124.6	70°	4984.4	3038.3	1156.8	1315.5	1522.3	1756.1	1965.0	1756.1	1422.0	1290.5
2294.9	72.5°	1889.8	1394.9	1000.2	1184.0	1367.7	1576.6	1833.4	1641.3	1315.5	1217.4
1186.1	75°	1008.6	849.9	841.5	1029.5	1190.2	1401.2	1668.4	1528.5	1236.2	1286.3
820.6	77.5°	687.0	601.4	703.7	881.2	996.1	1207.0	1493.0	1357.3	1071.2	1067.0
568.0	80°	476.1	426.0	572.2	710.0	770.5	1014.8	1303.0	1165.2	872.8	814.4
350.8	82.5°	286.1	277.7	428.1	530.4	545.0	783.1	1079.6	977.3	714.1	622.3
208.8	85°	156.6	165.0	273.5	311.1	317.4	547.1	845.7	755.9	549.2	461.5
75.2	87.5°	43.9	56.4	100.2	123.2	152.4	284.0	503.2	449.0	275.6	192.1
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>
5147.3
5525.3
5765.4
5834.3
5796.7
5709.0
5587.9
5383.3
5159.8
5017.8
4900.9
4771.4
4627.4
4416.5
4142.9
3796.3
3401.6
3006.9
2700.0
2495.3
2301.1
2152.9
1956.6
1787.5
1628.8
1503.5
1405.3
1330.2
1273.8
1200.7
<i>1328.1</i>
983.5
778.9
626.4
465.7
192.1
0.0

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