

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: P953918

Luminaire Tested: **GALN-SB7B-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953918  
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-SB7B-827-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

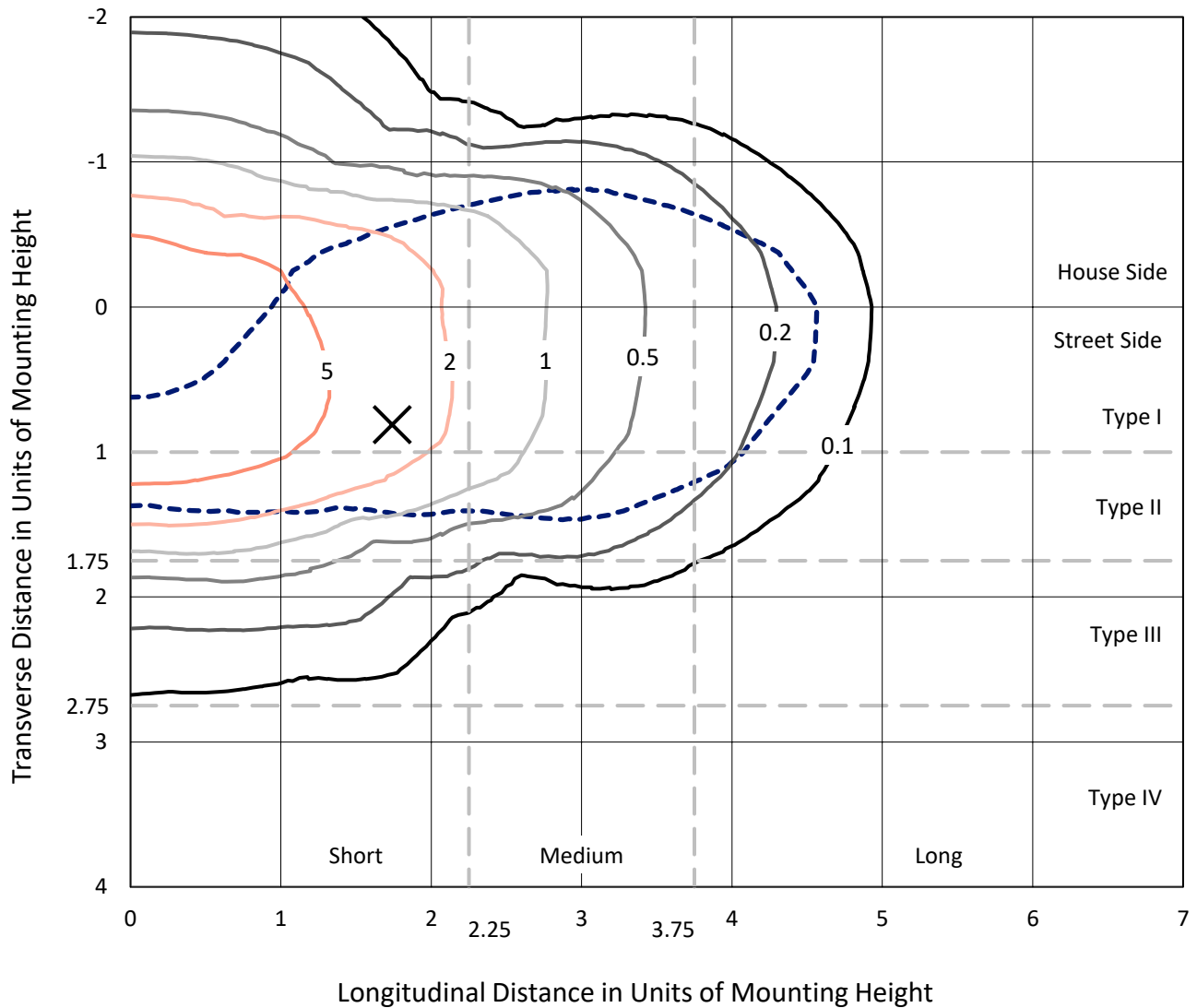
Lumens per Lamp: N/A  
Luminaire Lumens: 35289 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

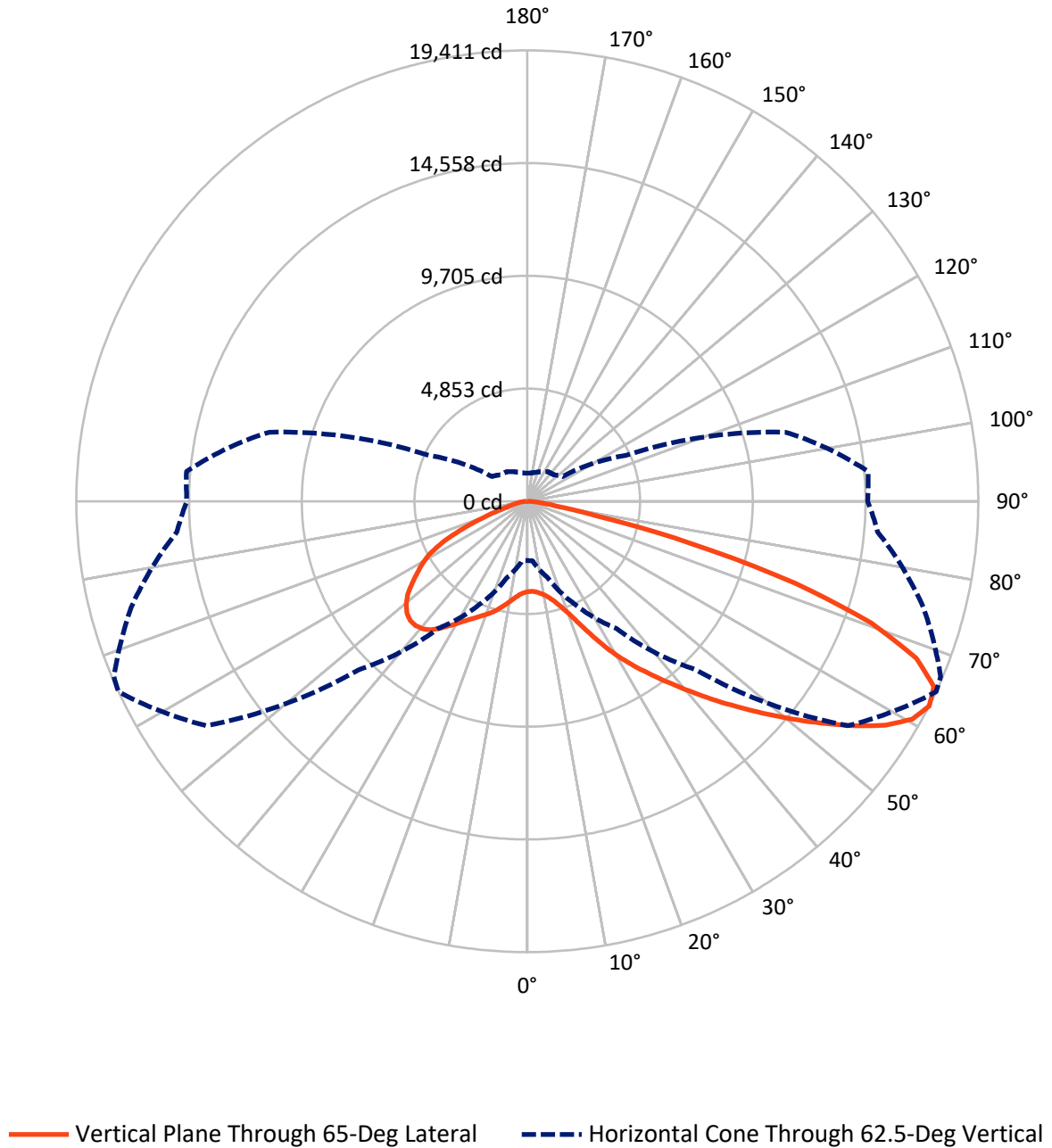
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11135.7	0.0	11135.7
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	24153.3	0.0	24153.3
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	35289.0	0.0	35289.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.7	1.1
10°-20°	1314.7	3.7
20°-30°	2665.7	7.6
30°-40°	4613.0	13.1
40°-50°	6980.9	19.8
50°-60°	8184.7	23.2
60°-70°	6861.9	19.4
70°-80°	3788.3	10.7
80°-90°	492.1	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°	35289.0	100.0
0°-180°	35289.0	100.0

**Coefficient of Utilization**



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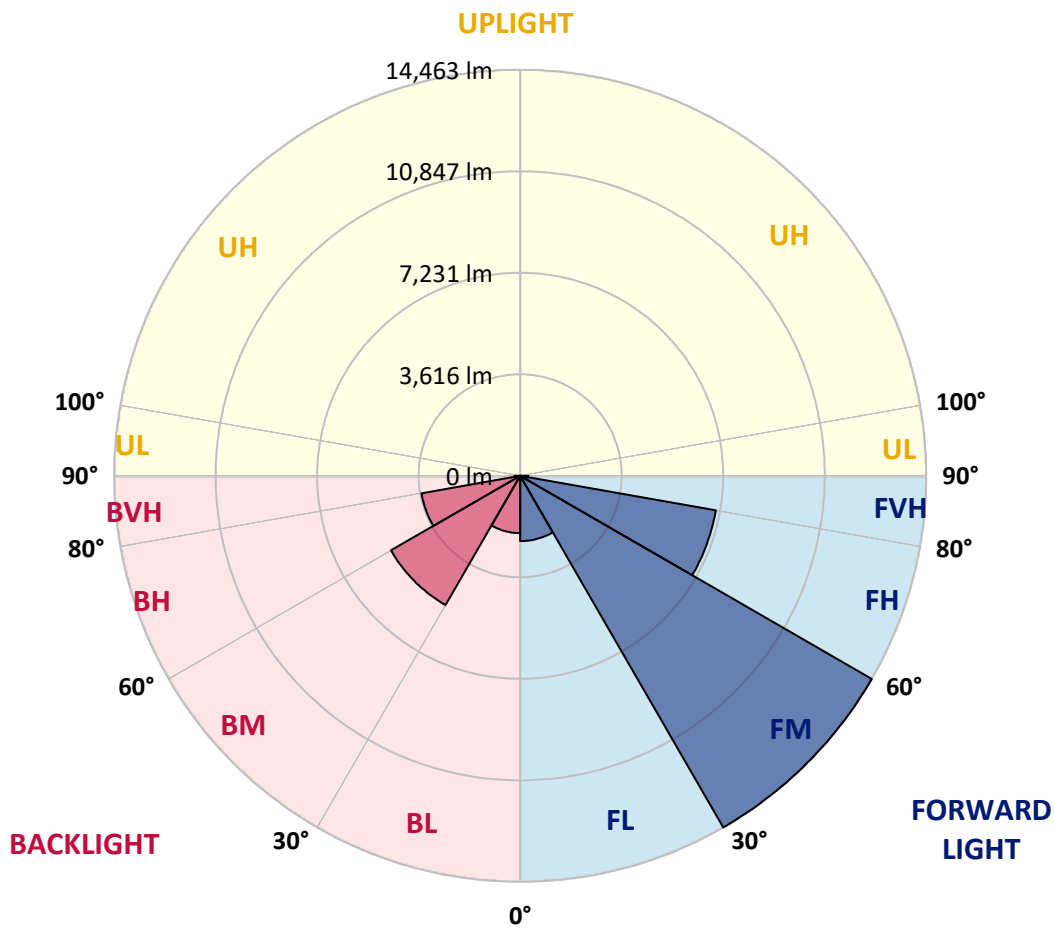
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2326.0	6.6			
FM (30°-60°)	14462.6	41.0			
FH (60°-80°)	7077.9	20.1			G3/7500
FVH (80°-90°)	286.8	0.8			G3/500
BL (0°-30°)	2042.1	5.8	B3/2500		
BM (30°-60°)	5316.0	15.1	B4/8500		
BH (60°-80°)	3572.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	205.3	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°	3888.7	3888.7	3888.7	3888.7	3888.7	3888.7	3888.7	3888.7	3888.7	3888.7
2.5°	3863.1	3852.1	3861.2	3861.2	3864.9	3863.1	3875.9	3879.5	3885.0	3896.0
5°	3824.6	3822.8	3839.3	3853.9	3868.6	3881.4	3897.8	3921.6	3925.3	3938.1
7.5°	3811.8	3800.8	3826.4	3844.8	3879.5	3910.7	3954.6	3994.9	4011.4	4016.9
10°	3910.7	3892.4	3916.2	3927.1	3956.4	3987.6	4038.8	4102.9	4121.2	4143.2
12.5°	4079.1	4059.0	4093.7	4110.2	4137.7	4165.2	4199.9	4262.2	4271.3	4311.6
15°	4309.8	4286.0	4308.0	4328.1	4373.9	4399.5	4434.3	4494.7	4494.7	4525.8
17.5°	4622.9	4591.7	4608.2	4615.5	4644.8	4683.3	4741.9	4795.0	4822.4	4811.4
20°	5089.7	5051.3	5051.3	5014.7	5003.7	5034.8	5111.7	5184.9	5214.2	5157.5
22.5°	5790.9	5736.0	5704.9	5580.4	5531.0	5534.6	5611.5	5701.2	5725.0	5624.3
25°	6682.5	6596.5	6554.4	6371.3	6259.6	6162.6	6223.0	6338.4	6371.3	6246.8
27.5°	7574.2	7579.7	7539.4	7319.7	7134.8	6957.2	6926.1	7046.9	7081.7	6940.7
30°	8824.6	8694.6	8617.7	8354.1	8090.5	7841.5	7713.3	7762.7	7771.9	7603.5
32.5°	9903.0	9870.0	9705.3	9474.6	9135.9	8745.9	8531.7	8453.0	8438.3	8198.5
35°	11131.5	11113.2	10939.2	10664.6	10298.5	9756.5	9370.2	9145.0	9126.7	8789.8
37.5°	12380.1	12380.1	12209.8	11909.6	11530.6	10853.2	10265.5	9908.5	9849.9	9410.5
40°	13376.1	13315.7	13346.8	13220.5	12786.6	12067.0	11259.6	10741.5	10662.8	10135.5
42.5°	13941.8	13921.7	14108.4	14249.4	14071.8	13496.9	12354.5	11644.1	11534.3	10933.8
45°	14068.1	14046.2	14379.4	14895.7	15144.7	14908.5	13544.5	12594.3	12460.7	11768.6
47.5°	13777.0	13733.1	14221.9	15036.7	15834.9	16250.5	14833.4	13625.1	13431.0	12581.5
50°	12901.9	12859.8	13599.4	14681.5	16067.4	17162.3	16232.2	14718.1	14421.5	13453.0
52.5°	10999.7	11019.8	12178.7	13665.4	15761.7	17729.8	17436.9	15869.7	15512.7	14344.6
55°	8568.3	8612.3	10036.6	11673.4	14538.7	17643.8	18258.9	17056.1	16700.9	15183.1
57.5°	6135.1	6329.2	7663.9	9284.2	12189.7	16279.8	18438.3	18183.9	17839.7	16098.5
60°	3976.6	4011.4	5384.5	7017.6	9282.3	13855.8	18074.0	19038.9	18769.7	17032.3
62.5°	2548.5	2572.3	3409.0	4908.5	6680.7	10250.8	16847.3	19410.5	19328.1	17649.3
65°	1872.9	1854.6	2290.4	3244.2	4500.2	6321.9	14465.4	19231.1	19394.0	18035.6
67.5°	1563.5	1537.9	1752.1	2246.4	3315.6	3590.3	10703.1	18064.9	18661.7	17991.6
70°	1424.4	1402.4	1532.4	1667.9	2587.0	2403.9	5395.5	15704.9	16624.0	17491.8
72.5°	1206.5	1168.1	1345.7	1481.1	2012.1	1843.7	2230.0	12063.4	13183.8	15889.8
75°	935.6	909.9	1061.9	1303.6	1512.3	1439.0	1409.7	7325.2	8548.2	12288.6
77.5°	741.5	706.7	845.8	1016.1	1360.3	1085.7	1027.1	3154.5	4366.5	7845.1
80°	558.4	527.3	642.6	803.7	1045.4	818.4	664.6	1287.1	1645.9	3974.7
82.5°	397.3	369.8	448.6	589.5	703.0	734.2	408.3	721.3	811.1	1532.4
85°	254.5	238.0	300.3	369.8	446.7	472.4	249.0	377.2	413.8	631.6
87.5°	139.1	113.5	161.1	172.1	206.9	188.6	119.0	137.3	148.3	228.9
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°
3888.7	0°	3888.7	3888.7	3888.7	3888.7	3888.7	3888.7	3888.7	3888.7	3888.7	3888.7
3896.0	2.5°	3903.3	3908.8	3927.1	3932.6	3945.5	3961.9	3972.9	3983.9	3983.9	3994.9
3954.6	5°	3956.4	3969.3	4007.7	4027.8	4060.8	4093.7	4113.9	4137.7	4152.3	4159.7
4048.0	7.5°	4059.0	4079.1	4134.0	4168.8	4225.6	4271.3	4302.5	4335.4	4342.7	4362.9
4178.0	10°	4198.1	4221.9	4284.2	4350.1	4417.8	4474.6	4503.9	4527.7	4536.8	4540.5
4344.6	12.5°	4357.4	4392.2	4472.7	4553.3	4624.7	4674.1	4681.4	4676.0	4650.3	4628.4
4549.6	15°	4553.3	4584.4	4674.1	4762.0	4831.6	4840.7	4795.0	4765.7	4734.5	4729.0
4778.5	17.5°	4787.6	4804.1	4886.5	4972.5	4978.0	4946.9	4879.2	4851.7	4822.4	4802.3
5076.9	20°	5060.4	5054.9	5113.5	5150.1	5111.7	5016.5	4914.0	4868.2	4838.9	4815.1
5443.1	22.5°	5386.3	5344.2	5336.9	5327.7	5225.2	5025.6	4886.5	4827.9	4782.1	4749.2
5953.9	25°	5860.5	5699.4	5587.7	5525.5	5294.8	4976.2	4798.6	4668.6	4582.6	4525.8
6578.2	27.5°	6453.7	6182.7	5900.8	5748.8	5294.8	4875.5	4586.2	4375.7	4234.7	4176.1
7182.4	30°	7019.4	6735.6	6320.0	6018.0	5282.0	4710.7	4243.9	3950.9	3786.2	3727.6
7698.7	32.5°	7502.8	7193.4	6764.9	6312.7	5250.8	4443.4	3819.1	3495.1	3335.8	3266.2
8209.5	35°	7951.3	7621.8	7211.7	6636.8	5168.4	4051.6	3352.3	3105.1	2927.5	2815.8
8729.4	37.5°	8410.9	8019.1	7634.6	6929.7	5020.2	3593.9	2993.4	2782.9	2574.2	2424.0
9282.3	40°	8910.7	8442.0	8086.8	7103.6	4776.7	3158.2	2715.1	2522.9	2301.4	2142.1
9919.5	42.5°	9494.7	8949.1	8590.3	7193.4	4443.4	2848.8	2533.9	2345.3	2136.6	2006.6
10602.4	45°	10104.4	9507.5	9049.8	7191.5	4071.8	2704.1	2475.3	2288.5	2057.9	1922.4
11303.6	47.5°	10743.3	10091.6	9447.1	7074.3	3749.6	2724.3	2442.3	2165.9	1911.4	1779.6
12012.1	50°	11384.1	10730.5	9831.6	6854.6	3612.2	2680.3	2319.7	1993.8	1693.5	1574.5
12676.7	52.5°	12019.4	11409.8	10163.0	6541.6	3473.1	2517.4	2162.2	1770.4	1603.8	1521.4
13363.3	55°	12658.4	12081.7	10523.6	6085.7	3125.2	2327.0	1898.6	1686.2	1532.4	1457.3
14035.2	57.5°	13299.2	12858.0	10866.0	5629.8	2687.7	2092.6	1753.9	1583.7	1461.0	1396.9
14597.3	60°	13965.6	13745.9	11219.4	5210.6	2255.6	1792.4	1647.8	1501.3	1376.8	1305.4
15137.3	62.5°	14652.2	14723.6	11495.8	4670.5	1858.3	1609.3	1552.5	1402.4	1281.6	1213.8
15584.1	65°	15344.2	15666.5	11677.1	3921.6	1506.8	1435.4	1450.0	1294.4	1171.7	1113.1
15911.8	67.5°	15866.0	16345.7	11625.8	2967.8	1235.8	1270.6	1321.9	1180.9	1065.5	1019.8
15858.7	70°	15924.6	16265.1	11120.5	2032.2	1034.4	1109.5	1179.1	1069.2	950.2	917.2
15111.7	72.5°	15144.7	15166.6	9712.6	1327.4	875.1	974.0	1028.9	955.7	840.4	807.4
13220.5	75°	13099.6	12543.1	7131.1	875.1	732.3	836.7	888.0	836.7	725.0	732.3
9892.0	77.5°	9925.0	8883.2	4329.9	622.5	611.5	703.0	772.6	736.0	640.8	719.5
4974.4	80°	5113.5	4805.9	1931.5	465.0	483.3	562.1	635.3	587.7	507.1	483.3
1111.3	82.5°	1171.7	1362.1	761.6	333.2	349.7	404.6	485.2	441.2	364.3	307.6
463.2	85°	410.1	448.6	336.9	208.7	205.1	252.7	329.6	294.8	247.2	197.7
195.9	87.5°	130.0	170.3	126.3	84.2	87.9	113.5	152.0	139.1	115.3	75.1
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>
3888.7
3994.9
4163.3
4355.6
4531.3
4628.4
4729.0
4804.1
4816.9
4760.2
4547.8
4205.4
3762.4
3301.0
2852.4
2464.3
2173.2
2032.2
1944.3
1797.9
1581.8
1521.4
1450.0
1385.9
1299.9
1212.0
1111.3
1021.6
919.1
805.6
706.7
633.5
441.2
303.9
208.7
78.7
0.0

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