

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: P942998

Luminaire Tested: **GALN-SB7B-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30321 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

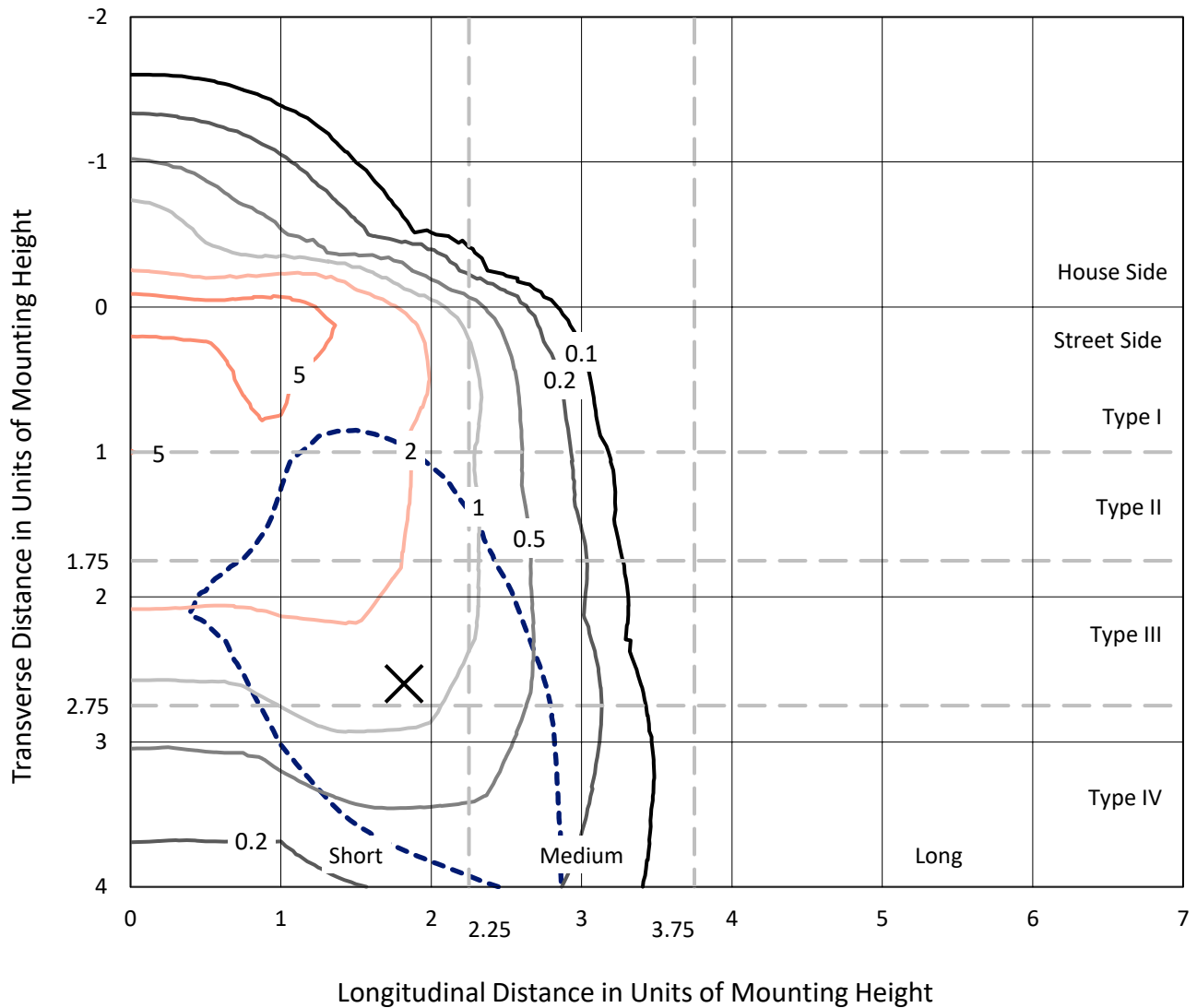
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

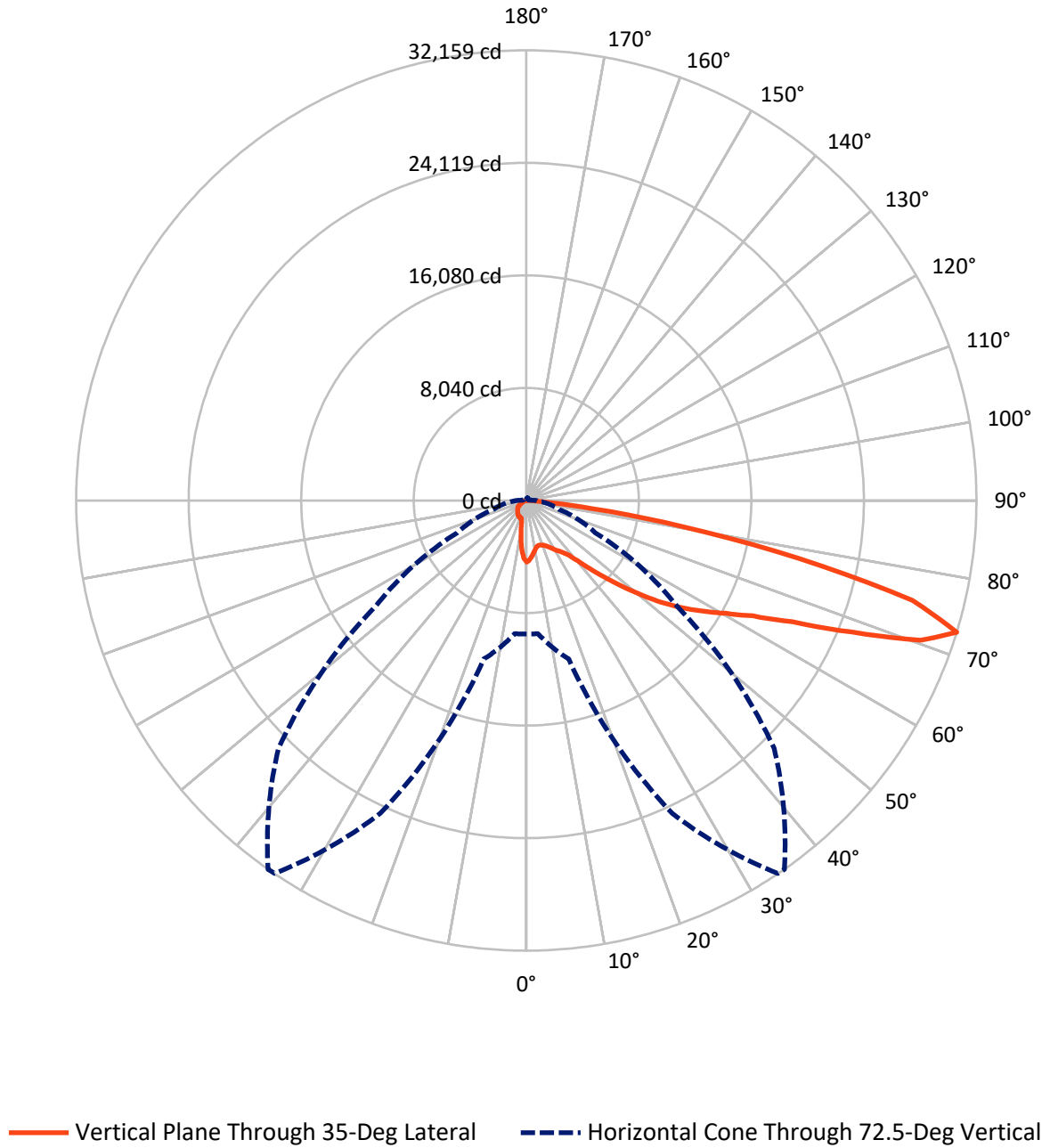
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3412.5	0.0	3412.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	26908.5	0.0	26908.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	30321.0	0.0	30321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.1	1.2
10°-20°	844.8	2.8
20°-30°	1372.3	4.5
30°-40°	2289.7	7.6
40°-50°	4332.2	14.3
50°-60°	6883.8	22.7
60°-70°	8515.8	28.1
70°-80°	5293.5	17.5
80°-90°	427.8	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°	30321.0	100.0
0°-180°	30321.0	100.0

Coefficient of Utilization



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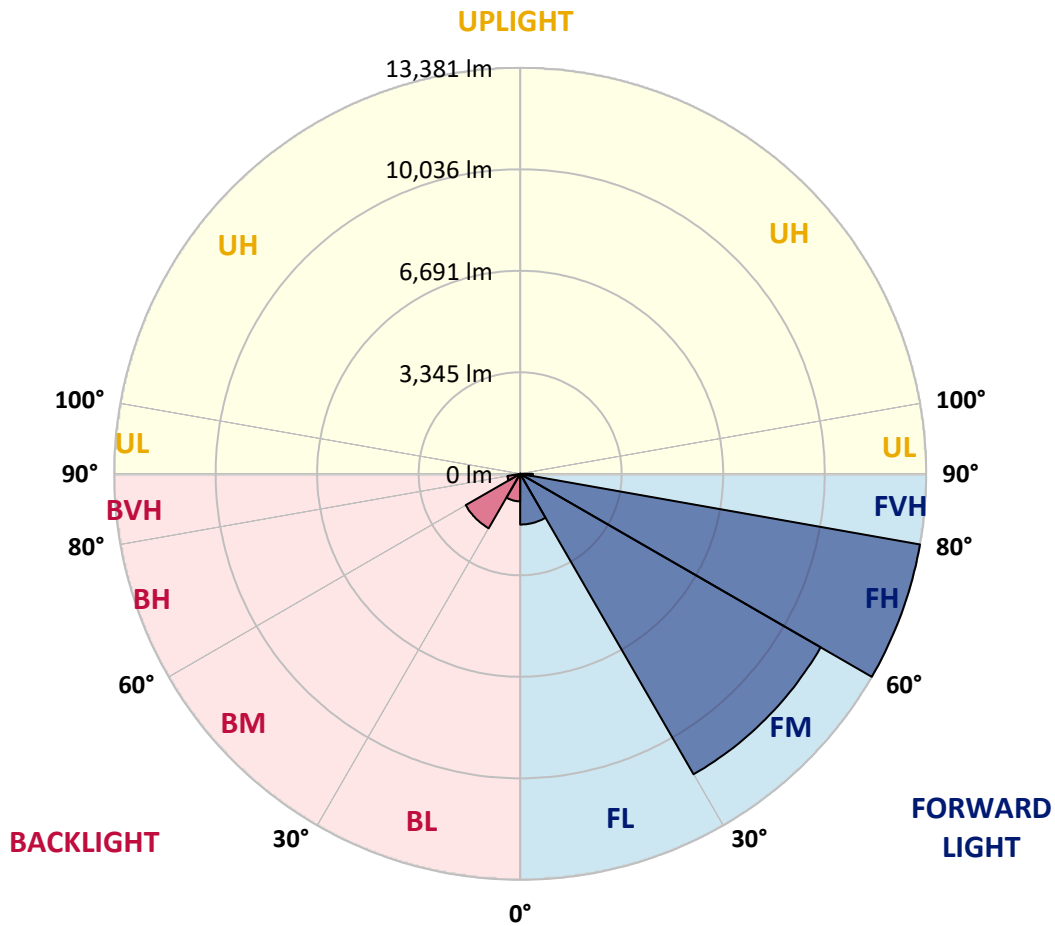
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1671.5	5.5			
FM (30°-60°)	11434.0	37.7			
FH (60°-80°)	13381.0	44.1			G5
FVH (80°-90°)	422.0	1.4			G3/500
BL (0°-30°)	906.8	3.0	B2/1000		
BM (30°-60°)	2071.7	6.8	B2/2500		
BH (60°-80°)	428.2	1.4	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5
2.5°	4199.0	4234.6	4241.2	4252.3	4252.3	4265.7	4287.9	4319.0	4370.1	4396.8
5°	3870.2	3896.9	3930.2	3956.9	4008.0	4014.6	4101.3	4185.7	4303.4	4392.3
7.5°	3539.2	3570.3	3614.7	3679.1	3745.8	3765.8	3896.9	4039.1	4225.7	4392.3
10°	3305.9	3308.1	3348.1	3412.5	3519.2	3543.6	3703.6	3905.8	4139.0	4365.6
12.5°	3174.8	3190.4	3208.1	3257.0	3359.2	3374.8	3545.8	3783.6	4052.4	4350.1
15°	3174.8	3185.9	3197.0	3221.5	3303.7	3317.0	3468.1	3705.8	4008.0	4356.8
17.5°	3208.1	3225.9	3217.0	3245.9	3332.6	3341.4	3474.7	3683.6	4005.7	4399.0
20°	3288.1	3301.5	3283.7	3301.5	3388.1	3405.9	3543.6	3725.8	4043.5	4472.3
22.5°	3414.8	3421.4	3379.2	3392.5	3481.4	3503.6	3663.6	3845.8	4134.6	4590.0
25°	3574.7	3588.1	3523.6	3539.2	3623.6	3650.3	3834.7	4025.7	4279.0	4752.2
27.5°	3759.1	3765.8	3710.2	3708.0	3816.9	3854.7	4041.3	4247.9	4472.3	4956.6
30°	3970.2	3990.2	3936.9	3928.0	4065.7	4096.8	4281.2	4521.2	4756.7	5263.2
32.5°	4136.8	4152.4	4121.3	4143.5	4283.4	4307.9	4572.3	4907.7	5203.2	5698.7
35°	4376.8	4385.6	4314.5	4354.5	4514.5	4576.7	4970.0	5449.8	5765.3	6245.2
37.5°	5245.4	5245.4	4943.3	4745.6	4898.9	4954.4	5514.3	6131.9	6458.5	6978.4
40°	6447.4	6427.4	5985.3	5580.9	5560.9	5669.8	6289.6	6991.7	7353.8	7858.2
42.5°	7729.3	7698.2	7096.1	6696.2	6629.6	6667.3	7185.0	8051.5	8420.3	8931.2
45°	8866.8	8857.9	8306.9	7769.3	7649.3	7769.3	8302.5	9291.2	9555.5	10093.2
47.5°	9819.9	9819.9	9417.8	9066.8	9004.6	9075.7	9815.5	10666.4	10642.0	11330.7
50°	10917.5	10908.6	10526.4	10375.4	10439.8	10539.8	11557.3	12114.9	11766.1	12546.0
52.5°	11686.2	11739.5	11608.4	11584.0	11912.8	12086.1	13325.8	13532.4	12772.6	13699.0
55°	12294.9	12357.1	12508.2	12679.3	13312.4	13539.1	15038.7	14876.5	13614.6	14698.8
57.5°	13156.9	13068.1	13301.3	13639.0	14663.2	14936.5	16698.3	16145.1	14292.2	15509.7
60°	14203.4	14216.7	14256.7	14683.2	16011.8	16362.8	18333.5	17344.8	14727.7	16007.4
62.5°	15460.8	15480.8	15563.0	16218.4	17822.5	18153.5	20075.3	18326.8	14927.6	15867.4
65°	15374.2	15458.6	16376.2	18617.9	20575.2	20901.8	22108.2	19015.6	14625.5	14587.7
67.5°	14005.6	14143.4	15678.6	21483.9	24725.3	25089.7	24565.4	19151.1	13321.3	11344.0
70°	12210.5	12259.4	14105.6	24061.0	29530.9	29899.7	26764.9	17660.3	10108.8	6327.4
72.5°	9535.6	9546.7	11712.8	24658.7	32139.2	32159.2	25038.6	13110.3	5436.5	2430.5
75°	6811.7	6745.1	7844.8	19997.6	28275.6	28502.2	18771.2	6149.7	2077.3	1148.6
77.5°	3652.5	3725.8	4439.0	11859.5	19533.2	19919.8	10242.1	1772.9	1057.5	782.0
80°	1128.6	1190.8	1819.6	5429.8	11064.1	11297.4	3796.9	788.7	737.6	557.6
82.5°	355.5	368.8	848.7	2281.7	4592.3	4698.9	1099.7	446.6	504.3	368.8
85°	102.2	104.4	377.7	850.9	1135.3	1157.5	308.8	173.3	288.8	228.8
87.5°	11.1	35.5	142.2	142.2	100.0	97.8	33.3	37.8	82.2	28.9
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°
4394.5	0°	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5	4394.5
4414.5	2.5°	4403.4	4405.6	4376.8	4327.9	4274.6	4230.1	4174.6	4130.1	4099.0	4090.2
4454.5	5°	4434.5	4419.0	4336.8	4187.9	4010.2	3856.9	3685.8	3550.3	3461.4	3423.6
4496.7	7.5°	4481.2	4436.7	4256.8	3963.5	3623.6	3321.4	3014.9	2777.1	2626.1	2550.5
4536.7	10°	4521.2	4432.3	4123.5	3639.2	3119.3	2661.6	2248.4	1961.8	1801.8	1726.3
4583.4	12.5°	4558.9	4430.1	3950.2	3254.8	2550.5	1990.6	1606.3	1464.1	1419.7	1404.1
4658.9	15°	4630.0	4436.7	3732.5	2814.9	1984.0	1504.1	1364.1	1361.9	1370.8	1366.3
4774.4	17.5°	4727.8	4443.4	3485.9	2348.3	1530.8	1326.4	1319.7	1339.7	1353.0	1346.4
4918.9	20°	4854.4	4470.1	3223.7	1886.2	1315.2	1281.9	1297.5	1315.2	1326.4	1315.2
5112.1	22.5°	5032.2	4516.7	2937.1	1515.2	1246.4	1255.3	1268.6	1288.6	1299.7	1284.1
5358.7	25°	5249.9	4590.0	2654.9	1317.5	1213.1	1224.2	1244.2	1266.4	1279.7	1264.1
5669.8	27.5°	5532.0	4707.8	2395.0	1273.0	1179.7	1186.4	1215.3	1248.6	1266.4	1246.4
6111.9	30°	5940.8	4901.1	2170.6	1293.0	1159.7	1144.2	1184.2	1230.8	1250.8	1233.0
6714.0	32.5°	6482.9	5174.3	2032.9	1324.1	1150.8	1095.3	1133.1	1193.1	1226.4	1215.3
7500.5	35°	7193.9	5589.8	1979.5	1359.7	1144.2	1044.2	1070.9	1135.3	1193.1	1204.2
8491.4	37.5°	8055.9	6167.4	1995.1	1375.2	1124.2	1002.0	1015.3	1070.9	1146.4	1181.9
9606.6	40°	9035.7	6840.6	2084.0	1359.7	1102.0	966.4	968.7	1010.9	1077.5	1130.8
10806.4	42.5°	10046.5	7627.1	2248.4	1301.9	1082.0	935.3	928.7	957.6	1002.0	1039.8
12003.9	45°	11008.5	8435.8	2410.5	1221.9	1057.5	904.2	888.7	899.8	908.7	924.2
13170.3	47.5°	11848.3	9004.6	2363.9	1148.6	1024.2	868.7	842.0	837.6	810.9	808.7
14212.2	50°	12428.2	9129.0	2099.5	1075.3	975.3	828.7	786.5	759.8	713.2	690.9
14992.1	52.5°	12612.6	8638.0	1715.2	1002.0	895.3	775.4	715.4	673.2	615.4	595.4
15440.8	55°	12368.2	7676.0	1370.8	913.1	784.3	704.3	637.6	582.1	535.4	511.0
15489.7	57.5°	11770.6	6451.8	1084.2	808.7	666.5	624.3	557.6	502.1	462.1	437.7
14947.6	60°	10779.7	5123.2	857.6	684.3	568.8	537.7	468.8	433.2	397.7	368.8
13547.9	62.5°	9275.6	3656.9	673.2	542.1	475.4	439.9	399.9	373.2	331.0	291.0
11030.8	65°	7238.3	2237.3	519.9	397.7	382.1	364.4	339.9	315.5	264.4	224.4
7196.1	67.5°	4565.6	1059.8	371.0	299.9	302.2	293.3	282.2	262.2	224.4	188.8
3223.7	70°	2010.6	513.2	244.4	228.8	224.4	224.4	233.3	226.6	191.1	157.7
1119.7	72.5°	684.3	275.5	182.2	173.3	162.2	160.0	195.5	188.8	153.3	122.2
557.6	75°	357.7	184.4	133.3	124.4	97.8	117.8	155.5	146.6	108.9	80.0
368.8	77.5°	233.3	131.1	91.1	80.0	55.5	77.8	115.5	102.2	64.4	40.0
242.2	80°	146.6	86.6	53.3	37.8	26.7	42.2	62.2	44.4	24.4	8.9
142.2	82.5°	77.8	44.4	20.0	13.3	11.1	13.3	15.6	11.1	4.4	0.0
73.3	85°	31.1	15.6	6.7	4.4	2.2	0.0	4.4	2.2	0.0	0.0
13.3	87.5°	11.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

180°
4394.5
4105.7
3437.0
2561.6
1728.5
1399.7
1364.1
1344.1
1313.0
1281.9
1261.9
1246.4
1230.8
1215.3
1204.2
1190.8
1148.6
1055.3
933.1
806.5
693.2
593.2
511.0
433.2
362.1
284.4
217.7
184.4
151.1
115.5
73.3
35.5
6.7
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